

Stereo Review

DECEMBER 1971 • 60 CENTS

THE NOISE SUPPRESSORS: A BRAVE NEW WORLD FOR MUSIC
J. S. BACH: WHAT TO LISTEN TO AND WHAT TO LISTEN FOR
COMMENTARY: OPENING OF WASHINGTON'S KENNEDY CENTER



4141332 BCAD HAZE301 028
REG109656 M0005001A000138
D BUCHANAN
HAZEL GREEN ACAD M71
HAZEL GREEN KY 41332





4 CHANNEL COMPONENT.

The AM tuner section also has ceramic filters and combines wide-band performance with exceptional sensitivity.

In addition, the Fisher 40 features truly sophisticated controls to make sure that precisely the right signals are fed through those four separate amplification channels. Front and rear volume



are adjustable with separate slide controls resembling studio-console faders. Bass and treble controls are of the greatly superior Baxandall type. There's also a balance control for the front and rear channels, plus many others that fall into the convenience category. But one set of controls requires special mention:

2 + 2 stereo.

This control switches in the matrix decoder of the Fisher 40, which makes possible two kinds of 4-channel playback. Pre-matrixed 4-channel program material (i.e., four original channels encoded into the two walls of a record groove or two magnetic tracks on tape) can be played back with excellent 4-channel separation and localization. Or, hidden ambience information in ordi-

nary 2-channel stereo material can be extracted to produce a quasi-4-channel effect.

All this, of course, is in addition to the discrete 4-channel capability of the Fisher 40, for which it has its own built-in source:

3. The 4-channel tape cartridge player.

This beautiful little tape player will play back any cartridge in the standard 8-track format, 2-channel or 4-channel.



But, of course, its performance is considerably more advanced than what you'd expect from ordinary 8-track players. Flutter is completely inaudible and playback equalization is accurate. The player automatically switches between the 2-channel and 4-channel modes and indicates the mode being used by means of red jewel lights. The program controls also have their associated jewel lights.

As you probably know, discrete 4-channel reproduction is the only kind that retains full channel separation at all frequencies, and the current repertory

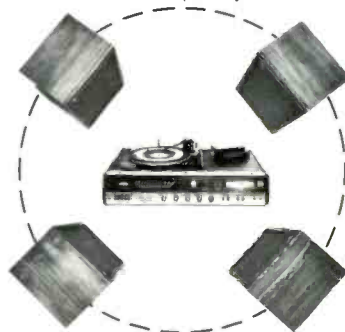
of 4-channel tape cartridges represents the primary commercial source of this ultimate form of 4-channel sound.

What about speakers?

The Fisher 40 is priced at \$499.95, without speakers. Your choice of speakers for it is virtually unlimited, but the sensible thing would be to select four speakers that are good enough to take full advantage of its inherent sound quality, yet not so expensive that the whole concept is negated.

Your rock-bottom choice might be four Fisher XP-44B two-way bookshelf speakers at a total price of \$178.00. Or you may go as high as four Fisher WS-80 three-way omnidirectional floor speakers at a total of \$399.80. In between, you have many other choices. You may even want to go higher or lower for your own special reasons.

One thing is certain though. The world's first all-in-one 4-channel component is good enough to deserve speakers of Fisher quality.



Fisher 
We invented high fidelity.

2.



THE FISHER 40. THE ALL-IN-ONE 4-CH

Now that it's obvious even to the skeptics that 4-channel sound reproduction is here to stay, the next step is equally obvious:

There's an immediate need for a high-quality 4-channel system that takes up less space and is less expensive than the more complex equipment that started the trend.

Luckily, Fisher recognized this need many months before it became obvious. That's why you won't have to wait for the world's first all-in-one 4-channel component. It's here.

Introducing the 4-channel Fisher 40.

The basic idea of the Fisher 40 is simple and logical.

Take an automatic turntable, a 4-channel AM/FM receiver and a 4-channel tape cartridge player. (Together they represent all the available 4-channel program sources and all the necessary electronics.) Put them together on a single chassis, to save space and weight and to avoid redundant inputs,

outputs and wiring. Pass the savings on to the end user, but give him his own choice of speakers to suit his listening room and budget.

Good idea, isn't it? But in the wrong hands it could have resulted in a sleazy "hi-fi compact" of indifferent performance.

Therefore, to make sure that the Fisher 40 would be worthy of its name, Fisher stuck to an inflexible ground rule in its design: The three major components that went into it had to be of *separate Fisher component quality*, so that any enthusiast would be proud to own each one of them if they were available separately. Entirely new designs were drawn up and new circuits engineered to satisfy this requirement.

Let's look at the end result:

1. The 4-speed automatic turntable.

There's nothing specifically "4-channel" about any turntable design, but 4-channel information in the record groove certainly requires precise track-

ing plus freedom from wow, flutter and rumble if it is to come through accurately. The 4-speed automatic turntable



of the Fisher 40 gives you component-quality performance in all those areas. The high-quality magnetic cartridge has a diamond stylus, and both stylus force and anti-skating force are adjustable. There's a cueing control for setting the stylus down gently on any groove of the record. And the motor shuts off automatically at the end of the last record.

2. The 4-channel AM/FM receiver.

Fisher is particularly proud of this new receiver design, since it's undoubtedly finer than any medium-powered 4-channel receiver available separately.

Power output is 100 watts, 25 watts per channel, which is enough to drive four main speakers and a pair of remote speakers without the slightest strain.

The FM tuner section features ceramic filters in the IF stage and the rated sensitivity is 2.4 microvolts. Not many separate FM tuners at any price offer significantly superior performance.

Fisher Radio
Dept. SR-12, P.O. Box 1367
Long Island City, N.Y. 11101
 Please send me a copy of
The Fisher Handbook, your
fact-filled 72-page reference
guide to hi-fi, stereo and
4-channel. I enclose
50¢ to cover first-class
postage and handling.
 Please send me free
literature on the Fisher 40.

Name _____

Address _____

City _____

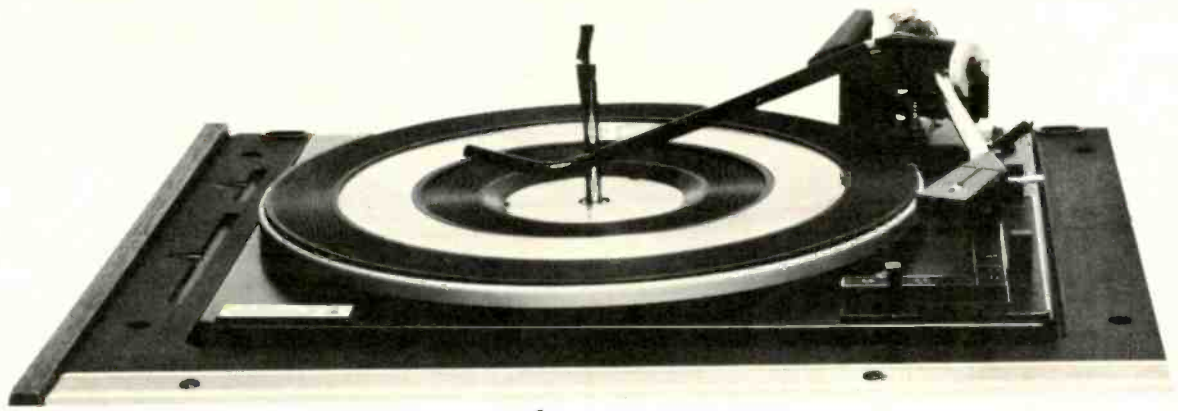
State _____

Zip _____

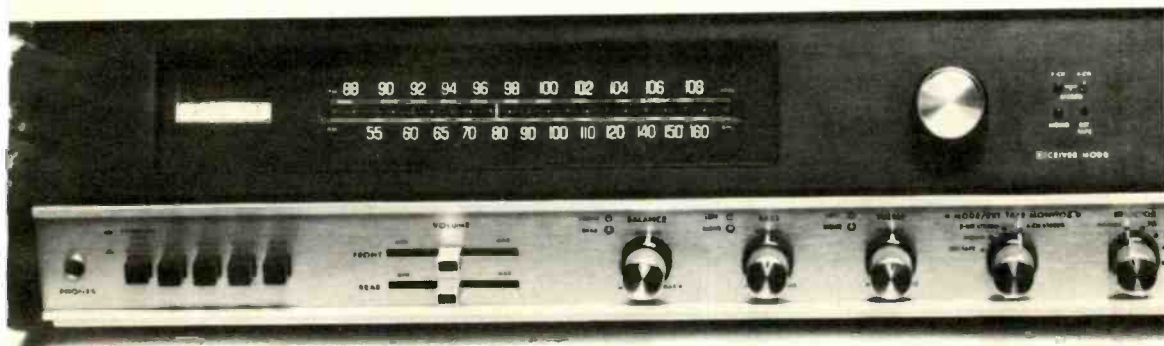
0212717

**Fisher is pleased
to announce a unique
and important new
4-channel development.**

(Lift Flap) →



1.



2.



3.



ZERO 100

Garrard's newest model, is the only automatic turntable achieving zero tracking error. Modestly priced at \$189.50, this most advanced record playing unit is a fabulous array of imaginative, responsible innovations: Variable speed control; illuminated strobe; magnetic anti-skating (an entirely new principle); viscous-damped cueing; 15° vertical tracking adjustment; the patented Synchro-Lab synchronous motor; and Garrard's exclusive two-point record support. An engineering triumph, the articulating tone arm, is demonstrated below.

True Tangent Tracking

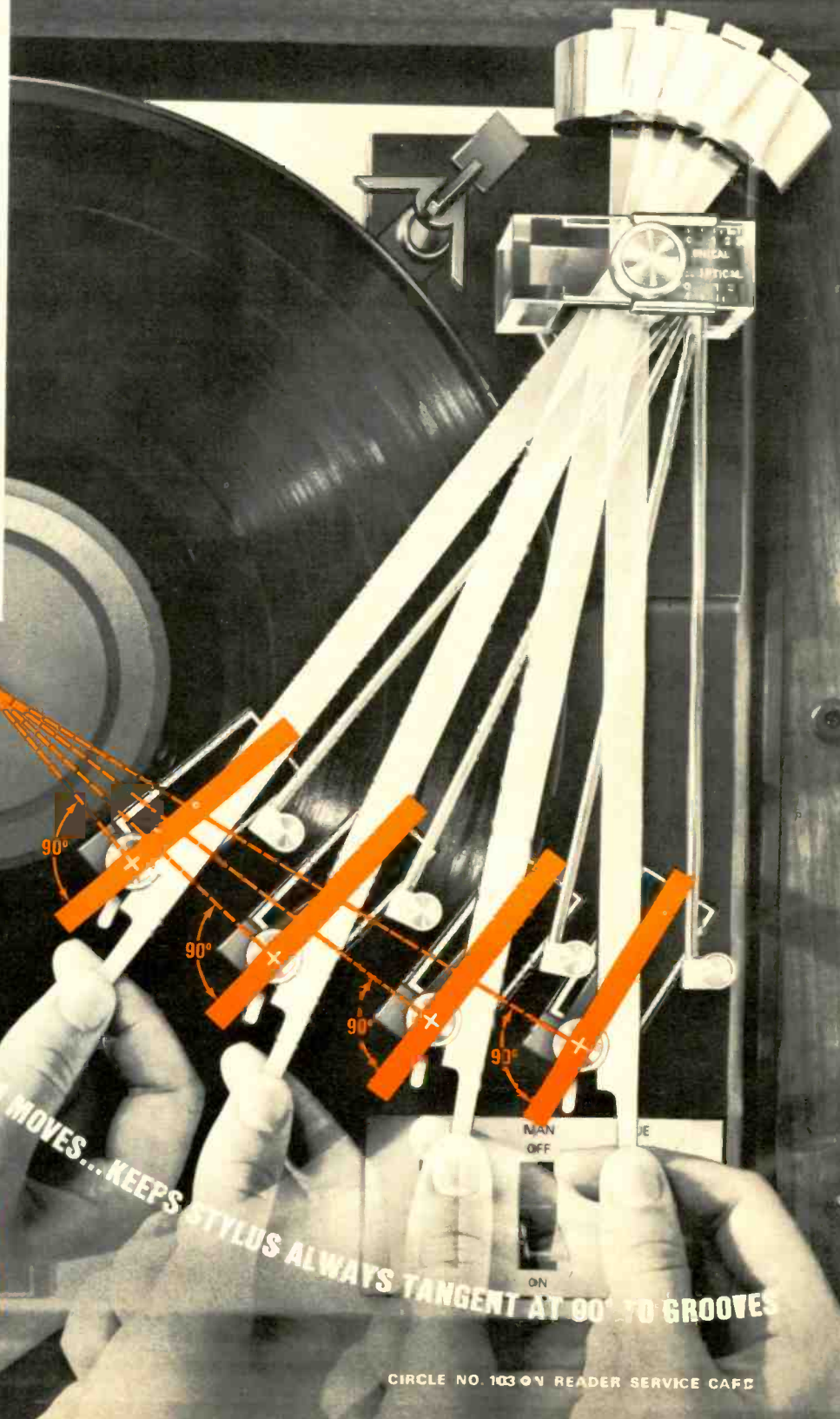
First time in an automatic turntable!

The diagram over the photograph shows how the tone arm articulates, constantly adjusting the angle of the cartridge, and keeping the stylus perpendicularly tangent to the grooves throughout the record. Space-age pivots and computerized design have made it possible to play the record at exactly the same angle as it was cut. Reproduction is truer, distortion sharply reduced, record life lengthened.

Consider that there are 3,600 seconds of arc in a degree — and that a conventional tone arm will produce up to 4 degrees tracking error — or 14,400 seconds at full playing radius. Compare this to the Zero 100 tracking error, calculated to measure a remarkable 90 seconds (160 times lower!) and you will see why this Garrard development obsoletes the arm geometry of every other automatic turntable.

□ Test reports by some of the industry's most respected reviewers have already appeared, expressing their enthusiasm. These reports are now available with a 12-page brochure on the Zero 100 at your dealer. Or, you can write to British Industries Company, Dept. L31, Westbury, New York 11590.

Mfg. by Plessey Ltd. Dist. by British Industries Co.



CARTRIDGE ANGLE ADJUSTS AS TONE ARM MOVES...KEEPS

STYLUS ALWAYS TANGENT AT 90° TO GROOVES

**GARRARD
ZERO 100**
\$189.50
(less base and cartridge)

CIRCLE NO. 103 ON READER SERVICE CARD

Stereo Review

DECEMBER 1971 • VOLUME 27 • NUMBER 6

THE MUSIC

THE BASIC REPERTOIRE	
<i>Strauss' Death and Transfiguration</i>	MARTIN BOOKSPAN 53
THE MUSIC OF J. S. BACH	
<i>What to listen to and what to listen for</i>	JAMES GOODFRIEND 54
GWENDOLYN KILLEBREW	
<i>A talented American singer assesses her accelerating career</i>	ROBERT CONNOLLY 70
THE OPENING OF THE KENNEDY CENTER	
<i>A report on the auditoriums and the music heard in them</i>	JAMES GOODFRIEND 72
JOSEF HOFMANN: THE CAMP WIGWAM CONCERT	
<i>Concerning a memorable musical evening in an unlikely place</i>	ALFRED SIMON 90
JOSEF HOFMANN: THE 1937 GOLDEN JUBILEE CONCERT	
<i>The great pianist's fiftieth-anniversary concert on disc</i>	IGOR KIPNIS 91
"THE BIG-BAND ERA"	
<i>A new RCA release brings back the Make-Believe Ballroom</i>	PAUL KRESH 138

THE EQUIPMENT

NEW PRODUCTS	
<i>A roundup of the latest high-fidelity equipment</i>	14
AUDIO QUESTIONS AND ANSWERS	
<i>Advice on readers' technical problems</i>	LARRY KLEIN 23
AUDIO BASICS	
<i>The Phono Cartridge</i>	RALPH HODGES 30
TECHNICAL TALK	
<i>Noise-Reduction Systems; Hirsch-Houck laboratory reports on the Lafayette LA-44 four-channel amplifier, the ADC 10E Mk IV phono cartridge, the IMF Studio speaker system, and the Sherwood S-7300 AM/stereo FM receiver</i>	JULIAN D. HIRSCH 33
THE NEW NOISE-REDUCTION UNITS	
<i>Hirsch-Houck labs tests the latest models</i>	JULIAN D. HIRSCH 63
TAPE HORIZONS	
<i>Tape vs. Disc</i>	CRAIG STARK 148

THE REVIEWS

BEST RECORDINGS OF THE MONTH	77
CLASSICAL	83
ENTERTAINMENT	123
STEREO TAPE	141

THE REGULARS

EDITORIALLY SPEAKING	WILLIAM ANDERSON 4
LETTERS TO THE EDITOR	8
EDITORIAL INDEX FOR 1971	144
ADVERTISERS' INDEX	148

COVER: DESIGN BY BORYS PATCHOWSKY; CARTOON BY SCHIN-ICHIRO TORA; PHOTO BY BRUCE PENDLETON

Copyright © 1971 by Ziff-Davis Publishing Company. All rights reserved. Stereo Review, December 1971, Volume 27, Number 6. Published monthly at 1 Park Avenue, New York, N.Y. 10016, by Ziff-Davis Publishing Company—also the publishers of Airline Management, Boating, Business & Commercial Aviation, Car and Driver, Cycle, Electronics World, Flying, Modern Bride, Popular Electronics, Popular Photography, Skiing, Skiing Area News, Skiing Trade News, and Travel Weekly. One year subscription rate for U.S., U.S. Possessions and Canada, \$7.00; all other countries, \$8.00. Second class postage paid at New York, N.Y. and at additional mailing offices. Authorized as second class mail by the Post Office Department, Ottawa, Canada, and for payment of postage in cash. SUBSCRIPTION SERVICE: Forms 3579 and all subscription correspondence should be addressed to Stereo Review, Circulation Department, P.O. Box 1089, Flushing, N.Y. 11352. Please allow at least six weeks for change of address. Include your old address, as well as new—enclosing if possible an address label from a recent issue.

Stereo Review

PUBLISHER
LAWRENCE SPORN

EDITOR
WILLIAM ANDERSON

MANAGING EDITOR
WILLIAM LIVINGSTONE

EDITORIAL COORDINATOR
ROBERT S. CLARK

TECHNICAL EDITOR
LARRY KLEIN

MUSIC EDITOR
JAMES GOODFRIEND

ART DIRECTOR
BORYS PATCHOWSKY

ASSOCIATE TECHNICAL EDITOR
RALPH HODGES

ASSISTANT MUSIC EDITOR
VIVIANNE WINTERRY GOODMAN

PRODUCTION EDITOR
PAULETTE WEISS

CONTRIBUTING EDITORS

MARTIN BOOKSPAN

NOEL COPPAGE

DAVID HALL

DON HECKMAN

JULIAN D. HIRSCH

BERNARD JACOBSON

GEORGE JELLINEK

IGOR KIPNIS

PAUL KRESH

REX REED

PETER REILLY

ERIC SALZMAN

CRAIG STARK

LESTER TRIMBLE

ROBERT WINDELER

LONDON EDITOR

HENRY PLEASANTS

ADVERTISING DIRECTOR

ROBERT UR

ADVERTISING MANAGER

JAMES J. SULLIVAN

ADVERTISING SERVICE MANAGER

MADELEINE LITTMAN

GROUP VICE PRESIDENT

ELECTRONICS & PHOTOGRAPHIC

FURMAN HEBB

ASSOCIATE PUBLISHER

STANLEY NEUFELD

Editorial and Executive Offices
Ziff-Davis Publishing Company
One Park Avenue, New York, New York 10016
212 679-7200
Andrew Kuhn

Midwestern Office: The Patis Group
4761 West Touhy Ave., Lincolnwood, Ill. 60466
312-679-1100
Arnold S. Hoffman

Western Office
9025 Wilshire Boulevard
Beverly Hills, California 90211
213 875-4025; BRadshaw 2-1161
Western Advertising Manager: Bud Dean

Japan: James Yagi
Oji Palace Aoyama, 6-25, Minami Aoyama
6-Chome, Minato-ku, Tokyo, Japan
Telephone: 407-1930/6821

Circulation Office
P.O. Box 1099, Flushing, N.Y. 11352

EDITORIAL CONTRIBUTIONS must be accompanied by return postage and will be handled with reasonable care; however, publisher assumes no responsibility for return or safety of art work, photography or manuscripts.

Member Audit Bureau of Circulations



ZIFF-DAVIS PUBLISHING COMPANY

William Ziff, President
W. Bradford Briggs, Executive Vice President
Herchel B. Sarbin, Senior Vice President and Secretary
Stanley R. Greenfield, Senior Vice President
Philip Sine, Financial Vice President and Treasurer
Walter S. Mills, Jr., Vice President, Circulation
Phillip T. Heffernan, Vice President, Marketing
Frank Pomerantz, Vice President, Creative Services
Arthur W. Butzow, Vice President, Production
Edward D. Muhlfeld, Vice President, Aviation Division
Irwin Robinson, Vice President, Travel Division
George Morrissey, Vice President
Sydney H. Rogers, Vice President

EDITORIALLY SPEAKING

By WILLIAM ANDERSON



KENNEDY CENTER SCHADENFREUDE

I THINK it must be admitted that a language that calls a glove a *Handschuh* leaves something to be desired in the way of richness of verbal invention. On the other hand, one does occasionally find in a foreign language an expression that is a singularly apt embodiment of an idea that will not be found as felicitously put in one's own. One such expression is the German *Schadenfreude*—literally, "harm-joy"—the perverse habit of seeking out and taking gloating pleasure in things that ought to arouse compassionate sympathy. The best we can do in English with this probably universal (though by no means common) human tendency is "crapehanging," which is merely colloquial to start with, and not nearly to the point in the end. But *Schadenfreude* was very much to the point in the festival of critical breast-beating inspired by the completion of Washington's new John F. Kennedy Center for the Performing Arts. Try as I might, I could find scarcely one good word for the building in anyone's dispatches. I would have been pleased to detect even a sigh of disappointment amid the orgy of disparagement we were treated to, but there was nothing but smirking satisfaction over the awfulness of it all—*Schadenfreude*.

There are many reasons for this. One, I think, is our still-potent colonial self-consciousness—as architecture critic Ada Louise Huxtable put it in the *New York Times*, "It is an embarrassment to have it stand as a symbol of American artistic achievement before the nation and the world." Though I am far from sure that the Center does so stand, we do from time to time display this tentative and immature "the world is looking" (Huxtable) unease even about our best things—but should we really care? Would the British bother themselves that boorish Patagonians consider their Royal Festival Hall a bad example of the Early Airport style? Would West Berliners be crushed to learn that their concert hall (which they themselves call Karajan's Circus) looks like a crippled dumpling? And much as the rest of the world loves to criticize things American, their distaste appears to vanish as soon as they can afford them for themselves.

Few things these days are without their political side, and this one is no exception. But the critics were frustrated, I believe, by the unhappy fact that the Center is inaccessible to direct political assault: the law creating it was passed in 1958, two parties and four presidents ago. Mrs. Huxtable got around that by introducing a couple of red herrings presumably borrowed from the man on her left. The Kennedy Center, she says, is a "superbunker," and "Albert Speer would have approved." It is difficult to know just what to make of this. "Bunker," of course, is another German word, one which has made its way into English principally in its military meanings—a dug-out or pill-box. Am I all alone in my sense that "bunker" now echoes in common American usage only when bounced against our still-wincing memories of Hitler's Berlin *Götterdämmerung*? Is this why Albert Speer, "Hitler's architect," sidles so gratuitously and pointlessly in? Would he have approved? I doubt it. Herr Speer's own style is light years from that of the Kennedy Center—transcendental sandcastles of visionary, even hallucinatory aspect, rather like those in the famous painting *Historical Monument of the American Republic* by the Massachusetts artist Erastus Salisbury Field (1805-1900). *Time* magazine, apparently without consulting its dictionary, picked up Mrs. Huxtable's "superbunker" epithet for its headline, which Fate's sublime irony then managed to place on a page that contained a number of references to the *Führerbunker* on the other side. *Very interesting.*

But these fashionable self-flagellations aside, the Kennedy Center has proved at last to be the vehicle for bringing into the American daylight a problem central to our cultural life: the inevitable conflict between an elitist reality and an egalitarian ideal, the painful compromises attendant upon our apparent determination to bring high culture to the lowly. Mrs. Huxtable says it best: "This is... a genuine people's palace," where "T-shirts and sneakers, hotpants and bermudas" track across the red carpets, "obviously loving it and perfectly at home." There will be more of this when the government (which is to say the people) at long last gets around to lending aid and sustenance to the arts.

The new Revox A77 Mk III.



It's still not perfect.

Nothing is.

But the new A77 Mark III is certainly the best recorder Revox has ever made. And that's saying something.

The Mark III is an improved version of our critically acclaimed A77. The recorder that *The Stereophile* magazine (1-71) described as, "Unquestionably the best tape recorder we have ever tested . . ."

And that judgement is as true now as it was then.

However, at Revox we've never been content to rest on our laurels. We thought we should make the best even better.

But in bringing out a new model, we

didn't discard all of the time tested features and superior performance that distinguished the original A77.

Instead, we made only those changes which would meaningfully improve performance and reliability.

Not a radical transformation, but a program of rational development.

As a result, you have to examine the new A77 Mark III rather closely before you see any external differences at all.

On the other hand, from the moment you start to use the new Revox, you'll begin to appreciate the changes we've made inside.

For example, we've designed a new oscillator circuit for greater efficiency and lower distortion. Modified and strengthened the self-adjusting braking system. Devised a new hardening process to reduce capstan wear. Improved tape handling and spooling. And made a number of other changes. A total of eighteen . . . some major, some minor.

All in all, we haven't created a revolution.

We've just done what we set out to do . . . that is carry the art and science of tape recording a few steps closer to perfection.

And, in the process, we've given you eighteen more reasons why . . .

REVOX

delivers what all the rest only promise.

Revox Corporation

155 Michael Drive, Syosset, N. Y. 11791
3637 Cahuenga Blvd., West, Hollywood, Calif. 90068
In Canada: Tri-Tel Associates, Ltd., Toronto, Canada
Lamb House, Church Street, Chiswick, London W4 2PB

**Most record reviewers
do their listening on a Dual.
Perhaps they know something
you should know.**



Consider the plight of the music critic who reviews recordings for a living. His reputation depends on his ears. And how much they hear. For the differences between performances are often very subtle.

A reviewer must listen for the artist's interpretation, how his talents have progressed and how he compares with his fellow performers. In addition, he must be sensitive to recording and microphone techniques and the quality of the record surface.

All this is why the professional listener selects his high fidelity equipment with great care. Especially the turntable. Because he knows that what he hears (or doesn't hear) often depends on the turntable.

What can happen to a recording.

The turntable is the one component that actually handles records, spinning them on a platter and tracking their impressionable grooves with the unyielding hardness of a diamond. And much depends on how well all this is done.

If the record doesn't rotate at precisely the right speed, the musical pitch will be off.

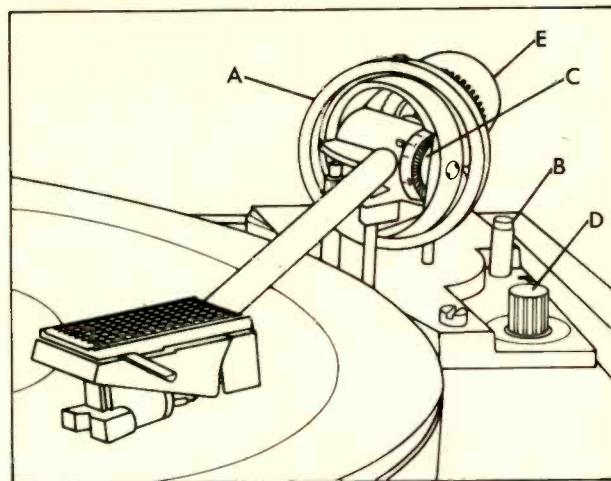
If the motor isn't quiet and free of vibration, an annoying rumble will be added to the artist's performance.

If, in tracking, the stylus doesn't respond easily and accurately to the rapidly changing contours of the record groove, there can be even worse trouble. Instead of tracing the sharp peaks of the high frequencies, the stylus will simply lop them off. And with those little bits of vinyl go all those glorious high notes. Taking their place are a lot of unpleasant sounds that were never recorded.

What most serious listeners know.

Serious music lovers know all this, and that none of it need actually happen. It's why so many of them, professional and amateur alike, have long entrusted their precious records to a Dual.

From years of listening, they know that on a Dual, records are preserved indefinitely and will continue to sound as good as new no matter how often played. They also have come to appreciate Dual's ease of operation as well as its ruggedness and reliability.



Typical examples of Dual precision that preserves and brings out the best in stereo records. **A)** Twin-ring gimbal suspension that lets tonearm pivot like a gyroscope for total freedom and perfect balance in tracking. **B)** Special setting that lets stylus track at perfect angle in single play and at center of stack in multiple play. **C)** Tracking force is applied at pivot, maintaining perfect dynamic balance of tonearm. **D)** Separate anti-skating calibrations for elliptical and conical styli are provided as each type skates differently. **E)** Tonearm counterbalance is elastically damped and has vernier adjustment with click-stops for convenience in changing cartridges.

If you'd like to know more.

A few examples of Dual precision engineering are shown in the illustration above. But if you would like to know what several independent test labs say about Dual, we'll send you complete reprints of their reports. Plus a reprint of an article from a leading music magazine that tells you what to look for in record playing equipment.

Better yet, just visit your franchised United Audio dealer and ask for a demonstration.

You'll find Dual automatic turntables priced from \$99.50 to \$175.00, including our new Integrated Module, complete with base, dust cover and magnetic cartridge at \$119.50.

These may seem expensive at first, but not when you consider your present and future investment in records. And now that you know what record reviewers know, doesn't it make sense to own what they own?

Dual



United Audio Products, Inc., 120 So. Columbus Ave., Mt. Vernon, N.Y. 10553.

Exclusive U.S. Distribution Agency for Dual.

CIRCLE NO. 27 ON READER SERVICE CARD



LETTERS TO THE EDITOR

Quadrasonic Quandary

● I have undertaken a crash course of study to attempt to familiarize my less-than-technically-oriented mind with the electronic basics. Adding to my beginner's confusion are the ominous headlines in all of the trade publications—"Four-Channel is Coming!", "Four-Channel is Here!" Well, four-channel sound might very well be gone by the time I've figured it out and determined exactly what it means for my present situation and future plans. Do I dare commit myself to an excellent and proven, but apparently old-fashioned, two-channel stereo system in the face of the onrushing technical breakthrough in four-channel? Or do I risk buying four-channel equipment, which is highly touted but still unproven in the marketplace, only to discover at a future date that it was a good but impractical idea?

Most published articles deal with four-channel sound as a *fait accompli*, with little regard for those just entering the field, or those already committed to two-channel stereo systems. Therefore, it was with great satisfaction that I read William Anderson's editorial in the October issue of STEREO REVIEW. There were no quick answers provided, because evidently such answers do not yet exist. But finally someone of authority in the field has asked the right questions from the consumer's point of view.

JOHN F. STERNER
Alexandria, Va.

Technical Editor Larry Klein will ask some more of the "right questions" in an examination of Audio in the Seventies in the January issue.

Tchaikovsky Piano Concerto

● This letter is prompted by Eric Salzman's remark in his review of Tchaikovsky's Piano Concerto in B-flat Minor, Op. 23 (October), concerning the opening theme and why it never comes back at all. The liner notes by John Scrymgeour on the Mercury recording of this concerto (SR 90266) may provide an explanation:

"One of the most striking irregularities in the Concerto is the *brevity* of the opening theme. This melody, *molto maestoso*, is, in this country at least, nearly as familiar as the National Anthem . . . yet it is not really the principal subject of the first movement at all! Time and popularization have conspired to turn this curious imbalance almost to an advantage. Familiarity with the introductory theme throws

our attention to the superb grace and virtuosity of the succeeding episodes which are overlooked by the popularizers and questioned by the musical analysts . . . The principal theme follows after a short space . . . [It] is based on a folk tune the composer once heard played by a blind beggar at the Kamenka Fair . . ."

ROY N. REECE
Santa Rosa, Cal.

● I am appalled by Eric Salzman's apparent ignorance of traditional musical form shown in his review of the Tchaikovsky Piano Concerto in the October issue. Surely he must know that the reason he does not hear the "famous" theme after the opening is that it is an *introduction* to the main body of the first movement, which is in the traditional sonata form, and thus this material would *not* be heard again. Back to the books, Mr. Salzman!

DONALD SMITH
Madison, Wis.

Mr. Salzman replies: "From a textbook point of view Mr. Smith is quite right; as I have actually pointed out in these pages, the main subject of the first movement is, technically speaking, the hiccuppy staccato figure in the solo piano that comes along after the maestoso of the opening dies out. The truth is that there is something radically wrong with a piece in which the introduction sounds like the main subject and the main subject sounds like a trivial episode. There would, in fact, be a good case for showing that it is Tchaikovsky who displays the 'appalling ignorance of traditional musical form' by resorting to textbook good manners without any deeper understanding of either the organic nature of sonata form or the implications of his own musical ideas."

Barbarian "Borrowings"

● I have followed with interest the discussion precipitated by James Goodfriend's "Barbarian" column ("Going On Record," August). I enjoy some of Emerson, Lake and Palmer's material, but it finally dawned on me why the "borrowing" of classical themes by E.L.P., Waldo de los Rios, and numerous television shows and advertisements irritates me so intensely. When I hear one of these pieces I am tantalized by the theme but irritated by the lack of orchestral color, and often spend hours trying to recall from where it was pilfered. Occasionally there are other elements which make the new arrangement enjoyable, such as

Ramsey Lewis' "From Bach to the Blues" recording, but this is rarely the case.

As a rock-music fan, I feel a similar disgust when I sit in a Muzak-filled reception room and hear the Sammy Schmaltz Strings and Chorus rape a song by the Beatles, Bob Dylan, or James Taylor. In any case, when it is a step down, I want nothing to do with it.

EUGENE S. ZIMMER
Atlanta, Ga.

Yep, it's spinach alright!

● I have some comments in reference to the miniature hurricane seeded by James Goodfriend's August column entitled "Barbarians and Music." Mr. Goodfriend brands pop artists who plagiarize classical music as "barbarians." I do not doubt this, but I must extend the observation by noting that the musical taste of the general public is also barbaric.

Let's not advocate the complete termination of "classical" pop releases. How many "barbarians" were educated as a consequence of the release of Waldo de los Rios' *Song of Joy*? Once the public discovers the victim of this piece, it will truly sing a song of joy. True works of art are in no danger from feeble pop trash. While the wind of these pop transcriptions may temporarily trouble the waters, perhaps it will generate enough force to move true classical music from its present doldrums into more pleasant seas.

DAVID WILLIAMSON
Lansdowne, Pa.

Randy Newman

● I was interested in the piece on Randy Newman (October) not so much because I admire his music (I do) but because I thought Alfred Newman the finest *film* composer in the world. Lionel Newman, on the other hand, did not write, as Robert Windeler states, the score for *The Best Years of Our Lives*. Hugo Friedhofer, on the strong recommendation of Alfred Newman to Samuel Goldwyn, wrote the fine score and for it received his only Oscar in 1947.

DANIEL GREGG
Bronx, N.Y.

Mr. Windeler replies: "Emil Newman conducted Hugo Friedhofer's Oscar-winning score for The Best Years of Our Lives and both he and Lionel frequently scored or conducted movie music they did not write. Lionel's credits include the song Again, the scoring of Dr. Dolittle (words and music by Leslie Bricusse), and the score of Compulsion. Apologies to Mr. Friedhofer."

Bernard Herrmann

● I was glad that Bernard Herrmann's "Music from Great Film Classics" was chosen Best of the Month for the October issue. Mr. Herrmann is a brilliant composer and deserves much more attention than he has received.

But Paul Kresh erred in saying that an entire side is devoted to a suite from *Jane Eyre* in his review of this recording. Only the first half of side one is from the film *Jane Eyre*; the second half is the Interlude from *The Snows of Kilimanjaro*.

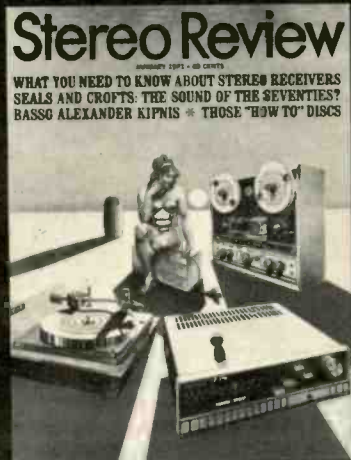
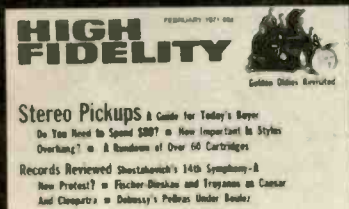
ROBERT M. EASTMAN
Detroit, Mich.

Vox's Grieg

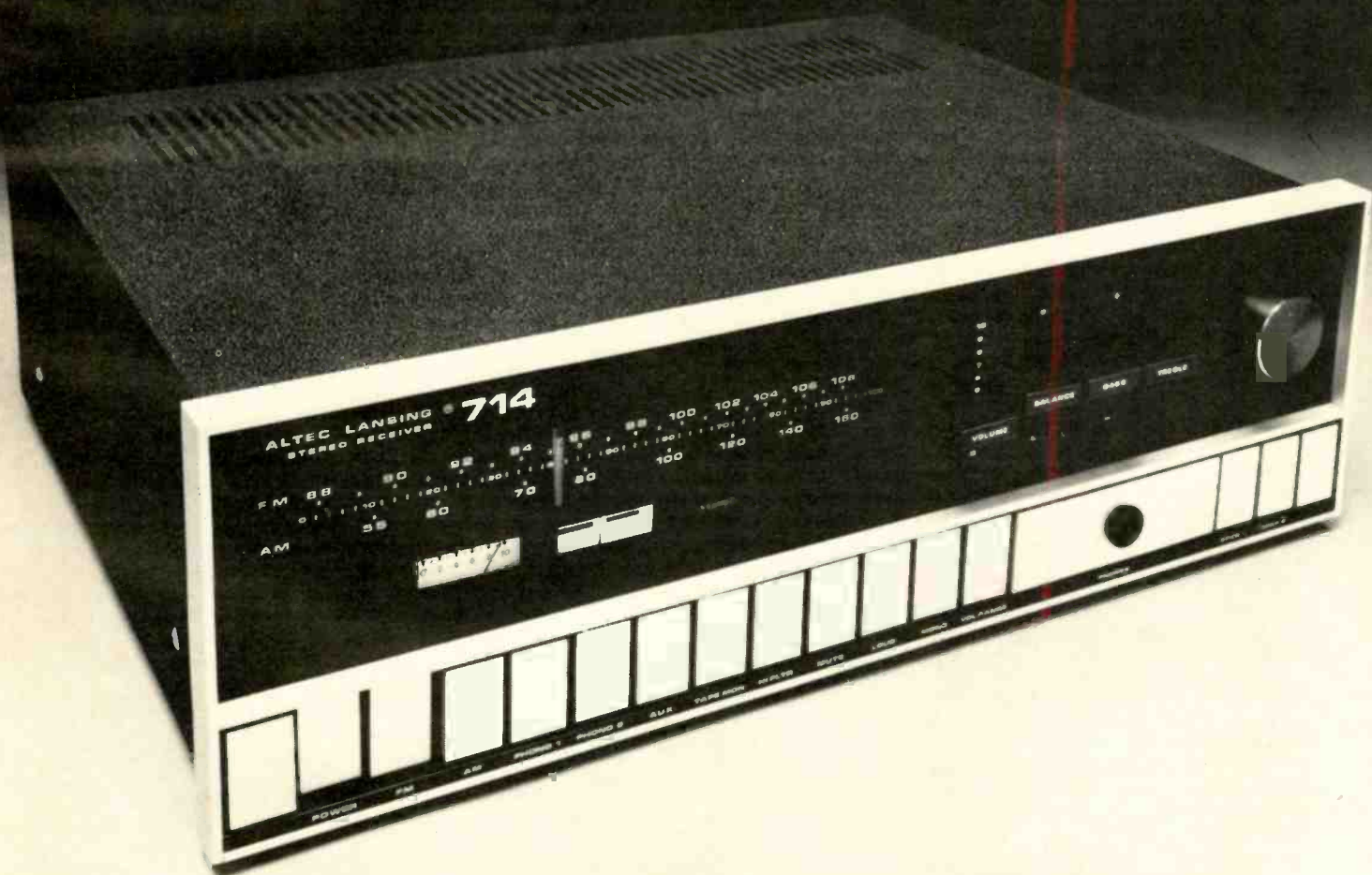
● David Hall's emendations of the labeling of Vox's recordings in his review of Grieg's piano (Continued on page 10)

STEREO REVIEW

Test reports in both HIGH FIDELITY and STEREO REVIEW prove the Altec 714A receiver is built a little better.



In February, HIGH FIDELITY magazine printed a detailed two-page test report (by CBS Laboratories) on the Altec 714A stereo receiver. The wrap-up comment read as follows: "All told, the 714A is one beautiful piece of audio machinery that should be given a long serious look by anyone in the market for a new high-quality stereo receiver". And in January, STEREO REVIEW'S equipment test report (by Hirsch-Houck Laboratories) stated, "In its general performance and listening quality, it is comparable to the best we have tested..."



The Altec 714A AM/FM stereo receiver delivers 44/44 watts of RMS power at less than 0.5% distortion (180 IHF music power). And for high FM sensitivity, it features 3 FET's and a 4 gang tuning condenser. Plus, 2 prealigned crystal filters and the newest IC's for better selectivity and more precise tuning.

The Altec 714A sells for \$399.00. Hear it at your Altec dealer. Or, write for a complete Altec catalog and copies of available test reports. Altec Lansing, 1515 S. Manchester Ave., Anaheim, California 92803.

CIRCLE NO. 6 ON READER SERVICE CARD



How good are we at doing our thing? About the incredible Servo-Statik I, High Fidelity (June, 1970) said, "second-to-none", and The Stereophile (Winter, 1970) states, "stupendous".

Of our \$289 Infinity 2000A, Julian Hirsch in Stereo Review (November, 1971) says, "The simulated 'live-vs.-recorded' test confirmed what we had deduced from our measurements—the Infinity 2000A is one of the finest reproducers we have tested. Its highs and middles were not only present in the proper amounts, but were so well dispersed that it did a well-nigh perfect job of 'imitating' the original program at off-axis angles as great as 60 degrees. Considering that few speakers can do as well on axis, and most show a pronounced loss of extreme highs at moderate off-axis angles, this qualifies the Infinity 2000A for an A+ rating in our subjective evaluations."

Pretty "heady" stuff . . . but for an encore, Infinity Systems is now introducing to you the most extraordinary value in sonic accuracy available today . . . the Infinity 1001 at \$139. The exceptional clarity and transparency of the 1001 are a direct outgrowth of Infinity Systems' advanced speaker technology. From its transmission line bass system to its front and rear tweeters, it is the only low-priced speaker which can recreate the full orchestral image and frequency spectrum with the lowest sonic coloration in the industry. And at \$139, it is a steal.



20940 Knapp Street
Chatsworth, Calif. 91311

CIRCLE NO. 37 ON READER SERVICE CARD

music (September) were helpful and valuable. However, I believe Mr. Hall's listing still contains some error with respect to the contents of Volume I of the Vox collection.

According to Mr. Hall, the first band (not the second band, as the label has it) of side three, Volume I, contains the whole of the *Lyrical Pieces*, Op. 68. My copy of the album, however, contains only five of the six selections making up Op. 68. I believe the album notes are accurate in indicating that the first piece from the Op. 68 set is missing.

Secondly, the headnote for Mr. Hall's review indicates that the *Lyrical Pieces*, Op. 57, consists of seven selections, of which six are performed. The album notes declare that the Op. 57 set consists of six pieces, of which five are played. I cannot say whether the Op. 57 collection is properly made up of six or seven selections, but my copy of the recording includes only five of the works.

It must be a space-wasting nuisance to have to correct a record manufacturer's faulty identification of the music it presents, but your service is appreciated.

KARL GWIASDA
Ames, Iowa

Mr. Hall replies: "My handwritten notes for the review tally precisely with Mr. Gwiasda's corrections (Op. 57 does contain six pieces, of which five are played). My apologies that the errors got into print."

Classical Music on FM

● There is something that can be done to preserve classical music on the air, even when commercial stations switch from classical to "popular" programming. Several years ago, station KHFI in Austin, Texas, made this change. Local citizens were so disturbed that they organized a community classical music station, supported entirely by contributions from the station's listeners. KHFI donated its entire stock of classical records to the new station, KMFA, and local businesses contributed large amounts of money to its founding. There is no advertising on the station, which broadcasts daily from 1 P.M. to midnight. Once every hour, the names of five of the founding businesses that contributed \$1,000 or more are read. Occasionally there are periods of financial difficulty, but appeals for contributions from listeners always prove successful. Perhaps Austin can serve as an example to other cities that find themselves about to lose their classical stations.

W. T. WINGO, JR.
Georgetown, Tex.

Prokofiev's Last Work

● In his review of the Rostropovich performance of the Prokofiev Op. 125 (August), Lester Trimble states that ". . . the *Sinfonia Concertante* was the composer's last work. . . ." This is incorrect. The first performance of the Op. 125 was on February 18, 1952, with Rostropovich and the Moscow Youth Orchestra conducted by Stanislav Richter. The full score of the Seventh Symphony, Op. 131, was completed on July 5, 1952. It is true that some minor revisions were made on Op. 125 at the same time the Seventh Symphony was being completed and possibly subsequent to that date, but if revisions are to be sufficient reason to call the Op. 125 his last composition, one is forced then to consider the one-evening version of *War and Peace*, completed during the early part of 1953, as well as the revisions of *The Stone Flower*, also done during the early

part of 1953. This is all assuming that one does not consider the Concertino for Cello and Orchestra, Op. 132, which was completed by Rostropovich from Prokofiev's sketches.

KARL F. MILLER
Scarsdale, N.Y.

Mr. Trimble replies: "Mr. Miller is, of course, correct, and his letter serves to remind me of the ancient axiom I had forgotten this time around: never trust the liner notes! Annotator Felix Aprahamian, in this case, referred to the Opus 125 in his notes as Prokofiev's 'last major work,' which blithe conceit ended up, in my version, as 'last work.' Certainly the Sinfonia Concertante is neither of these things, and the Seventh Symphony is both. One might argue on the question of how major or minor were the revisions and recomposing of materials Prokofiev accomplished in order to produce the Sinfonia Concertante (called Symphony-Concerto in every book I can put my hand on). But this is essentially beside the point. By strict definition, a revised early work, or an unfinished one, would very rarely qualify as a composer's 'last major' opus."

Denver Defender

● After reading and rereading Peter Reilly's review of John Denver's recent RCA album "Poems, Prayers, and Promises" (July), I feel compelled to take issue with his lukewarm response to the disc. First, Mr. Reilly admits that Denver is a fine songwriter, but omits any mention of the seven Denver songs on the album! These cuts are the strong points of Denver's albums—the more the better. Second, Mr. Reilly extraneously brings in mention of Joan Baez's voice, comparing its sincerity with Denver's. I ask Mr. Reilly to listen to the current Baez single, *The Night They Drove Old Dixie Down*, and then hear the Denver interpretation on his third album. Denver's slower, more driving version leaves Baez's sounding as weak as an early-Sixties singalong version of *Michael, Row Your Boat Ashore*. Or compare Denver's hauntingly powerful version of *Mr. Bojangles* (which Noel Coppage called better than anybody's in his article "Introducing John Denver" in the August 1970 issue of STEREO REVIEW) with any other artist's interpretation.

After reading Mr. Coppage's excellent review of Mary Travers' album in the same July issue, this avid and irate reader suggests that in the future STEREO REVIEW assign reviews of Denver albums to Mr. Coppage and those of Miss Baez to Mr. Reilly.

ROBERT T. SCHWARTZ
Rochester, N.Y.

Mr. Reilly replies: "The opinion of any reviewer is just that: an opinion. I tried to make clear that I knew I was in the minority in my feelings about Denver but that nonetheless it was a personal opinion. As to my limiting myself to writing rave reviews of Miss Baez's albums in the future: I can't imagine anyone's being interested in a series of valentines."

Correction

● We were most pleased with the review of the Tandberg 4000X appearing on pages forty-four and forty-six of the October issue of STEREO REVIEW. However, the price given was incorrect—evidently picked up from an incorrect bill. Instead of \$429, it should be \$459.

MARLYS SHERMAN
March Advertising, Inc.
New York, N.Y.

STEREO REVIEW

A violinmaker talks about the V-M Professionals.

Ken Warren of Ken Warren & Sons, Chicago, deals in treasured violins. At his workbenches are some of the few craftsmen whom the world's greatest violinists trust to restore and recondition a Stradivarius or Guarnerius, the world's more precious violins.

"The great crime of most equipment is distortion."

Our Model 1521 receiver delivers 40 watts a channel RMS, with extraordinarily low distortion and selectivity values, because we engineered it with 5-pole phase linear toroidal filters, ICs, printed board circuitry, MOSFETs, and more. It is awesomely powerful, dead quiet, and distortion-proof.

"Your automatic turntable is right in tune."

Ours not only play records perfectly but handle them beautifully.

Records are *lowered*, onto a *motionless* turntable. Counterbalanced, anti-skate tone arm is longer for indiscernible tracking error. Beautifully isolated motors make Wow, Flutter, Rumble undetectable to the ear. All push-button controlled.

"This sounds very near a live performance."

Exactly what components are all about. You hear sound as recorded, not as interpreted by speakers. Our Model 93 uses domed tweeter, half-roll surround, self-contained mid-range, and acoustic suspension woofer. Inductive-capacitive crossover delivers seamless transitions.

If the Professionals can please Mr. Warren, sound and recording engineers, and musicians, people whose business is sound, we're confident they can make you very happy, too.

For all the facts and figures, write: Professional Series, Dept. 74, P.O. Box 1247, Benton Harbor, Michigan 49022.

Made in Benton Harbor, Michigan by V-M Corporation.

 **V-M Corporation**



Model 1521. Suggested retail, \$500.00.
 Model 1585. (Automatic turntable.) Suggested retail, \$165.00.
 Model 1555. (Automatic turntable magnetic cartridge, base & cover.) Suggested retail, \$220.00.
 Model 93. Suggested retail, \$134.00.



Scott makes the best receiver you can buy for under \$400



In fact, Scott makes the best receiver you can buy, period.

No matter what you plan to spend for an AM-FM stereo receiver, H.H. Scott, Inc. has a value-for-the-price leader to satisfy your highest expectations for flawless sound, convenience in use, and trouble-free long life.

Consider the top-of-the-line model 477, shown above, as an example. It's got IHF sensitivity of $1.9\mu\text{V}$ and puts out 70 conservatively rated Scott watts into 8 ohms with both channels driven. Separate signal strength and center channel tuning meters provide maximum convenience in tuning. Up to three stereo speaker pairs may be connected and switching flexibility allows any two to be used simultaneously. In addition to all the necessary front panel

controls, jacks for headphones, microphones and tape recorder inputs/outputs are located up front for maximum accessibility. Naturally, the Scott 477 AM-FM stereo receiver includes all the time honored Scott design features such as FET front end, silver plated tuner, full complementary silicon output stage, trouble-free, solderless "tension wrap" connections, and one of the most powerful amplifiers ever built into an integrated receiver. At \$399.90 it outpoints its competition across the board.

Scott also makes the best receiver you can buy for under \$200



If you'd like to spend a little less, consider one of our middle line models as shown at the lower right. The model 387, which has received more favorable reviews than any other AM-FM stereo receiver in recent times, offers 55 watts per channel and most of the features of the 477 for a price of \$359.90, also out-pointing its competition on value for the price. Its look-alikes, the 377 and 367, deliver 40 and 32 watts per channel at \$319.90 and \$259.90 respectively, and include the same Scott quality and major design features. If you're just getting started in really high quality stereo or replacing older equipment, try the Scott 357, shown at the right above. It produces 25 watts per channel for \$199.90. It's the first truly high fidelity American made stereo receiver to sell at a price under \$200.00.

All these value-for-the-price leaders are available, along with matching Scott controlled impedance speaker systems, at your Scott dealer's. Ask him to demonstrate the Scott line before you make any AM-FM stereo receiver purchase.



SCOTT
where innovation is a tradition
H.H. Scott, Inc., 111 Powdermill Road, Maynard, Mass. 01754
CIRCLE NO. 100 ON READER SERVICE CARD

NEW PRODUCTS

THE LATEST IN
HIGH-FIDELITY
EQUIPMENT

Discwasher Record-Cleaning System

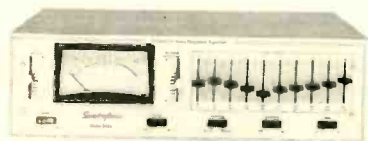


● DISC WASHER is a record-maintenance kit consisting of a cleaning brush and a specially formulated cleaning fluid. According to the manufacturer, certain molds and fungi that can develop on record surfaces in the presence of moisture may harm the vinyl material as well as interfere with the proper tracing of the groove by the stylus. The Discwasher fluid is intended to remove such bacterial colonies and inhibit their further formation. It is also said to be an effective solvent for the fatty substances found in fingerprints. The brush is used to apply the

fluid as the disc rotates on the turntable and to perform the cleaning and subsequent drying operations. Its pile is woven into the fabric base on a bias that, when opposed to the record's rotation, aids in lifting and removing deposits from the groove. The pile also exhibits a capillary action that dries the record by drawing the cleaning fluid from its surface. The Discwasher brush has a walnut handle in which the container of fluid is stored between uses. Price of the kit: \$12.95. Additional bottles of fluid are \$1.95 each.

Circle 146 on reader service card

Soundcraftsmen Model 10-12 Audio Frequency Equalizer



● SOUNDCRAFTSMEN's new Model 10-12 Audio Frequency Equalizer is a single-channel unit that provides continuously variable level control over the ten octaves of the audio band (20 to 20,480 Hz) in one-octave increments. The ten slider potentiometers that act at the center of each octave have a range of ± 12 dB, with sharper bandwidth characteristics the farther they are moved from their 0-dB settings. An eleventh slider control is used to adjust the overall output, with 6 dB of gain and 12 dB of attenuation available. The unit has no insertion loss when all the controls are centered.

An unusual feature of the Model 10-12 is a large meter calibrated in decibels that can be switched to read input or output levels, or shut off entirely. A front-panel control is provided for calibration of the meter. With all controls at their 0-dB settings the Model 10-12 has a frequency response of 20 to 20,480 Hz ± 0.025 dB. Harmonic and intermodulation distortion are both under 0.1 per cent for a 1-volt

output, and the signal-to-noise ratio is better than 90 dB. Input and output impedances are 100,000 and 600 ohms, respectively. Tape-monitoring facilities are included to replace those of the amplifier or receiver, which are used for the connection of the equalizer. There is also a bypass switch that permits the equalization circuits to be switched in and out for A-B comparisons. A test record supplied with the equalizer has one-octave pink noise signals that cover the audio band, alternated with 1,000-Hz tones recorded at a reference level. Spoken instructions on the record tell the user how to use the test signals for equalization of his playback equipment and reduction of listening-room effects. The equalizer is also effective in improving imperfectly recorded program material. The Model 10-12, which comes installed in a walnut-grain wood cabinet, measures approximately $5\frac{1}{4} \times 17\frac{3}{4} \times 11$ inches. There is a full two-year warranty. Price: \$299.50.

Circle 147 on reader service card

Panasonic SA-5800 AM/Stereo FM Receiver



● PANASONIC's new line of stereo receivers will encompass five models, among them the SA-5800, a moderately priced (\$259.95) AM/stereo FM unit with off-the-tape monitoring facilities for two three-head tape decks. Continuous power output with both channels driven is 27 watts per channel into 8 ohms, with 0.5 per cent harmonic and 0.7 per cent intermodulation distortion. The frequency response is 15 to 65,000 Hz $+0, -3$ dB. The high-level inputs have a signal-to-noise ratio of 90 dB; 70 dB is the corresponding figure for phono.

The SA-5800's tuner section has an IHF FM sensitivity of 1.8 microvolts, with harmonic distortion of 0.4 per cent at full modulation. Other specifications include 80 dB selectivity, a capture ratio of 1.5 dB, and image and i.f. rejection of 90 and 100 dB. Stereo separation at 1,000 Hz is 35 dB. A tuning meter next

to the linearly calibrated dial reads center-of-channel for FM and signal strength for AM. In addition, the dial pointer indicates maximum FM signal strength by glowing red. The control facilities of the SA-5800's front panel include a five-input selector knob (PHONO, FM AUTO, FM MONO, AM, and AUX), volume and balance, concentric bass and treble controls (separate for each channel), and a speaker switch that selects either or both of two stereo pairs, or mutes all speakers for headphone listening via a front-panel jack. There are toggle switches for the two tape-monitor circuits, mono/stereo mode, and FM interstation-noise muting, and pushbuttons for power on/off, loudness compensation, and high-cut filter (6-dB-per-octave rolloff above 5,000 Hz). The rear panel has a center-channel output, preamplifier outputs and power-am-

(Continued on page 16)

If you've got the jack, we've got the cassette deck.

No matter how big your room, or how small your budget, Panasonic has a stereo cassette deck that can fit right in.

Jack in our compact model, the RS-256UAS. It has a lot of the features our bigger, higher-priced decks have. Like easy-to-work pushbutton controls. A digital counter. Fast forward and rewind. Plus two large VU meters. They tell you when you're recording at just the right levels. And Auto-Stop to shut off the machine at the end of the tape. So your tape won't get damaged.

The RS-256UAS even has a special noise-suppressor switch to cut off those grating hissses. And Pause Control. So you can

turn off the Grand Funk Railroad without turning off the machine.

Of course, the bigger your pocketbook the more you get. When you jack in the RS-272US, you get Memory Rewind. Preset the machine. And it automatically returns to a particular spot on the tape. There's even a tape selector switch. To let you play low noise, as well as conventional tapes.

Then there's the RS-272US with its own special trick. Automatic reverse. It switches tracks automatically. So you can listen to twice as much Bach without getting off your back.

But maybe money isn't your problem. You want all the cassette deck that you can get.

Then your franchised Panasonic Hi-Fi dealer can show you the RS-275US. It has a combination of features no other deck can match. Like sensitive, long-lasting, Hot Fressed Ferrite heads. And two motors. One is direct drive for record and playback. The other is for fast forward and rewind.

All of this adds up to a signal-to-noise ratio of better than 45dB. A frequency response of 30-15,000 Hz. Plus wow and flutter of less than 0.1% WRMS. And it's all at your fingertips with our solenoid touch controls.

So if you've got the jack, just see your Panasonic dealer. He'll show you how to get beautiful music out of it.



Panasonic.
just slightly ahead of our time.

202 Park Ave., N.Y. 10017. For your nearest Panasonic dealer, call 800-631-1071. In N.J., 800-962-3823. We pay for the call. Ask about any Model.

CIRCLE NO. 58 ON READER SERVICE CARD

NEW PRODUCTS

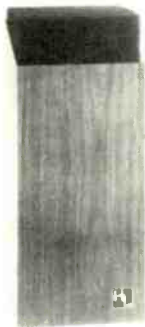
THE LATEST IN
HIGH-FIDELITY
EQUIPMENT

plifier inputs for insertion of accessories, and a DIN socket that parallels one set of tape-recorder jacks. The SA-5800 measures 16 x 5½ x 14 inches; a wood cabinet

is included in the price. Other receivers in the Panasonic line range in price from \$199.95 to \$990.

Circle 148 on reader service card

Hegeman 1 Loudspeaker System



● HEGEMAN LABORATORIES has brought out the Hegeman 1 speaker system, a floor-standing two-way design with an upward-directed hemispherical radiation pattern. The system uses an 8-inch woofer with a drawn aluminum cone, wired so that it receives the full audio bandwidth. The tweeter is a 1-inch dome unit, driven through a capacitance-resistance crossover that passes frequencies above 5,000 Hz. The tweeter housing, specially shaped to front load the woofer, is bracket-mounted in front of the woofer cone. The two drivers face upward, an-

gled slightly toward the listener. A tweeter-level control located in the rear of the sealed enclosure adjusts the high-frequency output of the system. Frequency response is 30 to 20,000 Hz, with a power-handling capability of 25 watts. A minimum of 15 watts per channel of amplifier power is recommended. The impedance is 8 ohms. The Hegeman 1 system is relatively compact (11 x 8¾ x 26 inches) and is clad in teak-finish vinyl and topped by an acoustically transparent black grille-cloth cage. Price: \$99.50 each.

Circle 149 on reader service card

Nikko Model STA-8010 AM/Stereo FM Receiver



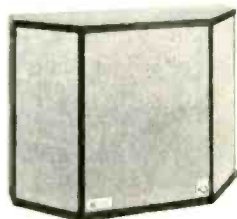
● NIKKO has added several new components to its line of stereo electronics. Prominent among them is the Model STA-8010 AM/stereo FM receiver. Behind the unit's black-out faceplate are the two tuning dials and signal-strength and channel-center tuning meters arranged point-to-point. The control facilities encompass the usual volume, balance, bass, and treble, plus switchable loudness compensation (low-frequency boost only), source/tape monitoring, high- and low-cut filters, and switchable FM interstation-noise muting. The program selector has positions for six inputs, including one that provides gain and NAB equalization for tape playback decks without electronics. Two pairs of speakers are accommodated, with a switch that selects one or both pairs, and a mode switch has posi-

tions for stereo, reverse, and left or right channel alone.

Maximum power output is 19 watts per channel continuous when both are driven into 8-ohm loads, and distortion is 0.8 per cent at rated output. The signal-to-noise ratios are 60 dB for phono, 65 dB for high-level inputs, and 55 dB for the tape-head inputs. IHF FM sensitivity is 1.8 microvolts, with a capture ratio of 3 dB and 40 dB separation at 1,000 Hz. Stereo FM distortion is 0.8 per cent. Overall dimensions of the STA-8010 are 15¼ x 4½ x 12¾ inches. Price: \$239.95. Among the other new additions to the Nikko line are two AM/stereo FM tuners at \$109.95 and \$239.95, an integrated stereo amplifier at \$109.95, and a second AM/stereo FM receiver at \$199.95.

Circle 150 on reader service card

Acoustic Research AR-LST Speaker System



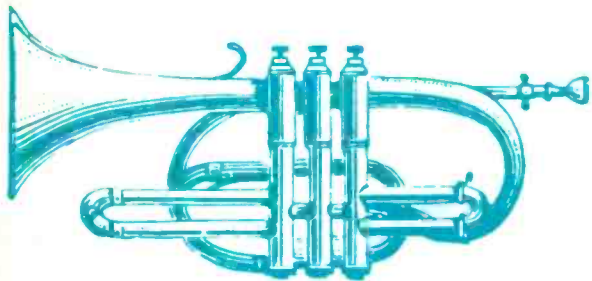
● ACOUSTIC RESEARCH has introduced a new speaker system, the AR-LST (Laboratory Standard Transducer), intended for such professional applications as studio monitoring and acoustic-laboratory work. Its power handling is such that it can accept up to 1,000 watts on momentary peaks, but requires no more drive power than the AR-3a. A six-position front-mounted switch introduces controlled, repeatable contours into the system's frequency response. The frequency-contouring system, called SBC (spectral balance control), varies the output of the low and high frequencies relative to the mid-range. An autotransformer preceding the frequency-dividing network provides the precise 1-dB adjustment steps for the woofer and tweeter.

A single front-facing woofer is used, crossing over to four 1½-inch dome mid-range drivers. Mounted in vertical pairs

on each of the system's angled front panels, the mid-range drivers cover the range from 575 to 5,000 Hz. The tweeters, also four in number, are ¾-inch domed units evenly distributed in a horizontal line across the tops of the speaker's frontal planes.

The total acoustic-power output of the AR-LST is uniform within ±2 dB from 500 to 20,000 Hz. It remains within those limits to below 40 Hz when the system is measured under anechoic conditions with its back against the middle of a wall. The average efficiency is 0.8 per cent; the system's impedance varies with the position of the SBC switch, but never falls significantly below 4 ohms. A fuse protects the system from overload. The AR-LST measures 27⅞ x 20 x 9⅞ inches overall and weighs approximately 90 pounds. Price: \$600.

Circle 151 on reader service card



FREE INFORMATION SERVICE

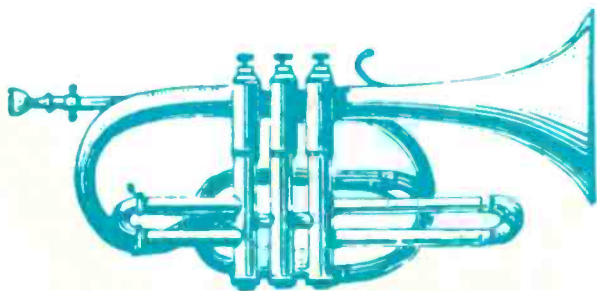
a Here's an easy and convenient way for you to get additional information about products advertised or mentioned editorially in this issue. Just follow the directions below ...and the literature will be sent to you promptly and free of charge.

b Tear out one of the perforated postage-free cards. Please print or type your name and address where indicated.

c Circle the number on the card that corresponds to the key number at the bottom of the advertisement or editorial mention that interests you. (Key numbers for advertised products also appear in the Advertisers' Index.)

d Simply mail the card. No postage is required.

e This address is for our "Free Information Service" only. All other inquiries are to be directed to, Stereo Review, One Park Ave., New York, N.Y. 10016.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160					

PLEASE PRINT

SC 1271

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

(Zip Code must be included to insure delivery) (Void 90 days after date of issue)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160					

PLEASE PRINT

SB 1271

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

(Zip Code must be included to insure delivery) (Void 90 days after date of issue)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160					

PLEASE PRINT

SA 1271

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

(Zip Code must be included to insure delivery) (Void 90 days after date of issue)

FREE INFORMATION SERVICE

(SEE REVERSE SIDE)

FIRST CLASS
PERMIT NO. 24475
PHILADELPHIA, PA.

BUSINESS REPLY MAIL

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY—

Stereo Review

P.O. BOX 8051
PHILADELPHIA, PA. 19101



FIRST CLASS
PERMIT NO. 24475
PHILADELPHIA, PA.

BUSINESS REPLY MAIL

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY—

Stereo Review

P.O. BOX 8051
PHILADELPHIA, PA. 19101



FIRST CLASS
PERMIT NO. 24475
PHILADELPHIA, PA.

BUSINESS REPLY MAIL

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY—

Stereo Review

P.O. BOX 8051
PHILADELPHIA, PA. 19101



Stereo Review

MULTI-CHANNEL SOUND: TWO (INEXPENSIVE) METHODS
TROUBADOUR KRIS KRISTOFFERSON * SCOTT JOPLIN'S
HIGH-CLASS RAGS * A BANQUET FOR THE OPERAPHILE



Stereo Review's Free Information Service can help you select everything for your music system without leaving your home, and at no cost to you.

Simply by following the directions on the reverse side of this page, you can receive additional information about any product advertised in this issue.



Santa's Favorite Hang Up

Turn on to AKAI for Christmas—with a complete new line of audio and video equipment *you'll* get hung up on.

You'll find over 20 superbly engineered tape decks and recorders—highlighted by AKAI's GX-365D stereo tape deck with the exclusive AKAI glass and crystal ferrite head... dust and wear-free—lifetime guaranteed.

Our innovative stereo tape decks and recorders include the CS-50D with INVERT-O-MATIC—automatically reverses the cassette for continuous recording and playback. Or, tune in to AKAI's CR-80 8-track cartridge recorder—engineered with a new one-micron gap head for wider frequency response.

For the ultimate experience in multi-dimensional sound, don't miss the 1730D-SS-1... AKAI's *true*

4-channel/2-channel compatible tape system. Records on 4 separate channels—plays back through 4 separate "Jet Stream" speakers—complete with 80-watt quad amplifier.

And, here's something *really* new. Create your own TV shows with AKAI's family of 1/4 inch video tape recorders. The portable VT-100 captures picture and sound for instant playback on its built-in monitor or through your TV set. It's battery or A.C. operated, weighs less than 20 lbs. The VT-700 Deck records and plays for 80 minutes and is complete with off-the-air recording capability and sound-dubbing.

AKAI is world renowned for its uncompromising standards. See the exciting spectrum of AKAI products at your AKAI dealer. Discover a whole new bag of ideas for Christmas.

AKAI™

AKAI America, Ltd., 2139 E. Del Amo Blvd., Compton, Calif. 90220

CIRCLE NO. 3 ON READER SERVICE CARD



6045



6055

Try the Sony Ears-

There are two ways to pick a receiver: by examining your budget, or by using your ears. They both can work – but the best approach is a combination of the two.

For example, you could simply decide which of the four Sony receivers best matches your budget: the low-priced 75-watt Sony 6045; the moderately-priced 100-watt Sony 6055 and 220-watt 6065; or the top-of-the-line Sony 6200F with 245 watts of power (and many other goodies).

Taking that approach you're bound to get good value for your money, but not necessarily the best value for your circumstances. You could wind up buying a little less Sony than you need – or shelling out for a Sony that more than surpasses your requirements. But you should be able to narrow it down, on price alone, to two or at most three Sonys. From there on, you have to use your ears and your intelligence.

First, look for a Sony dealer fairly near you; that's not only for convenience, but so his FM reception problems will be just about the same as yours. Then visit him, carrying a record



that you know and love (if you've loved it to death already, get a fresh copy).

Test first for general sound quality. Using the same speakers you have at home (or ones of similar efficiency), play the loudest portion of your record



at the loudest volume you're likely to listen to. See which Sony sounds cleanest to you (though, thanks to our direct-coupled circuitry, they all sound very clean); that tells you which have enough power for your needs. (But remember, if your room's noticeably bigger than the dealer's, or you're planning to switch to a less efficient speaker, you may need a bit more power still.)



Now try to tune your favorite stations. Even if the dealer's on your block, reception conditions won't be absolutely comparable. But the receiver that brings your station in most clearly



6065

6200F

vs. Budget Test...

there should do the same when you get home with it.



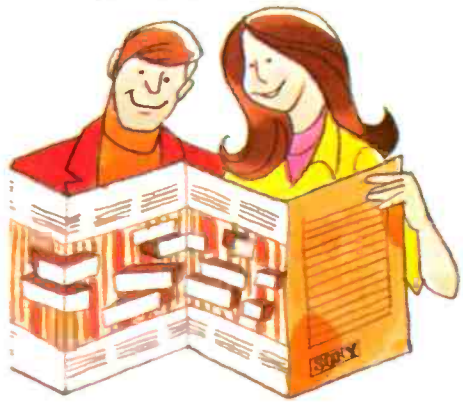
Now look for other features that you think you will need. If stereo is your abiding interest, you will appreciate the 6200's stereo-only switch, that blanks out mono FM stations. And its hi-blend switch that cuts distant-station noise without eliminating the highs or losing much stereo separation in the mid-range. If you find a second phono input or a center-channel output jack very desirable, you'll choose the 6200F or 6065, which have them, over the 6055 and 6045, which don't. And so on.

Some similarities:
All four Sony receivers have: 70dB signal-to-noise ratios, and such features as linear tuning dials, headphone jacks, switchable loudness contour and hi-filters, FET front-ends and solid-state IF circuits, dual power supplies and direct coupled outputs, speaker selector switches. All

but the 6045 have: muting switches, front panel AUX jacks, quick-disconnect DIN tape recorder jacks, and center-tuning meters (the 6045 has a signal-strength meter instead; the 6200F has both types). All but the 6200F have 80 dB IHF selectivity and 1.5 dB capture ratio (6200F has 100 dB and 1.0 dB respectively).

Some differences:

	6200F	6065	6055	6045
IHF FM Sensitivity	1.8 μ V	2.2 μ V	2.6 μ V	2.6 μ V
IHF Music Power, 8 Ω	245W	220W	100W	75W
IHF Music Power, 4 Ω	360W	255W	145W	84W
RMS@ 4 ohms	90/90W	80/80W	50/50W	25/25W
THD & IM @ rated power:	0.2%	0.2%	0.2%	0.5%
Power Bandwidth, IHF	10-40,000	15-30,000	15-30,000	10-30,000



But, if you would prefer to sit at home and pick your Sony by its specs, go ahead. You'll find the basic ones in the box above – and you can get the rest by sending for our pocket-sized Sony Selector Guide. All you'll miss will be the fun of playing with the units themselves at your dealer. Sony Corporation of America, 47-47 Van Dam Street, Long Island City, N.Y. 11101.



CIRCLE NO. 69 ON READER SERVICE CARD



Memorex Chromium Dioxide Tape.

The tape that will change your whole opinion of cassettes.

Memorex Chromium Dioxide Tape has a totally different composition from conventional cassette tapes. It extends frequency response and delivers a clarity and brilliance of sound never before possible on cassette. Chromium Dioxide is so drastically different, you'll need a specially designed cassette recorder to use it.

You've probably read about conventional cassette tapes that claim to be so improved it's not necessary to switch to special Chromium Dioxide equipment.

Let us simply say this:

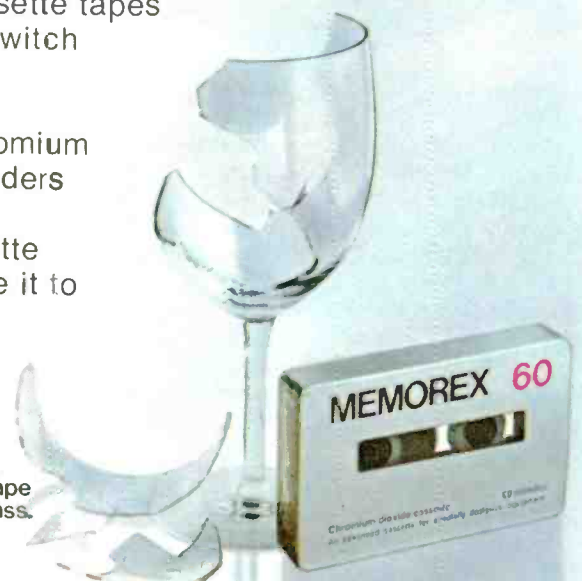
Equipment manufacturers recognized the Chromium Dioxide breakthrough, and designed cassette recorders to take advantage of it.

Listen to a Memorex Chromium Dioxide Cassette on the new specially designed equipment. Compare it to any cassette that claims equal performance on standard equipment.

You'll find there's no comparison.

MEMOREX Recording Tape
Reproduction so true it can shatter glass.

CIRCLE NO. 50 ON READER SERVICE CARD



AUDIO QUESTIONS and ANSWERS

By LARRY KLEIN *Technical Editor*



Chromium Dioxide Tape Characteristics

Q. *There seem to be all sorts of rumors floating about on chromium-dioxide tape, and I wonder whether you can clarify any of the questions involved. For example, I have heard that Crolyn is difficult or impossible to erase once a signal has been recorded on it, that it wears tape heads excessively, and that it is unstable and poisonous under certain environmental conditions. Do you have data on any of this?*

ALEXANDER HAMMIL
Grand Rapids, Mich.

A. To take your questions in order: yes, CrO₂ is more difficult to erase, but today's latest cassette and open-reel recorders seem to be able to handle it reasonably well. Oddly enough, some bulk tape erasers that we have tried have not been as effective as a cassette recorder's erase head in removing previously recorded material. This may be because the erase head is able to focus more magnetic energy where it is needed.

On the subject of head wear, my impression, based on conversations with manufacturers of both tape and recorders, is that today's chromium-dioxide tape is equivalent to ferrous-oxide tapes in this regard. In other words, you'll find normal oxide tapes that have both better and worse wear qualities than chromium dioxide does.

I checked with the chemistry department of a large research outfit about the stability and toxicity of CrO₂. I was told that whereas some chromium compounds are relatively unstable and have to be stored under special conditions, once they convert to their stable forms—and chromium dioxide is one of their stable forms—it is not easy to volatilize or to chemically change them into something else. Specifically, CrO₂ releases an oxygen atom and changes into chromous oxide at 300 degrees Centigrade. To the best of anyone's knowledge, neither the

oxygen nor the CrO has any special toxic properties.

Built-in Speaker Wiring

Q. *I am completely renovating one wing of my home and I would like to install plugs and wiring in my walls to connect speakers. Since I've heard that it is possible to develop a hum if things aren't done correctly, would you please advise me as to the following: (1) what type of cable, (2) type of connectors—are standard phone plugs okay?, (3) maximum lengths of cable, (4) the need to keep cable and connectors away from 120 volt a.c. cables and outlets, (5) possibility of having extra connectors in the wall even if they are not used, and (6) the possibility of having switches to turn speakers on and off.*

LOUIS J. MOGLIA
Bronx, N.Y.

A. For permanent installation of speaker wire within walls I would suggest that the best type of cable to use would be whatever the building code in your area recommends for standard a.c. line use. There is certainly nothing wrong with using BX armored cable, making sure that the BX shield is grounded to an external cold water pipe as is normal practice. The major problem with speaker lines is not their susceptibility to a.c. hum, but rather their tendency to pick up strong radio-frequency fields from TV and radio stations and local amateur broadcasters. The use of shielded and grounded BX cable will minimize this possibility.

As far as the connectors are concerned, probably the best technique would be to terminate the cables in junction boxes such as are used for a.c. outlets and either buy or have made up cover plates for the junction boxes with audio jacks. Heavy-duty phone jacks will do. Avoid using standard a.c. plugs and sockets because sooner or later someone would plug one

(Continued on page 26)

all you need in headphones is expert engineering, the best materials, great styling, fine craftsmanship and not a trace of sound distortion.

That's all!

That's what Sharpe Stereophones are all about. We make them in the best possible way so that you get the best possible listening. Not just regular listening. The Sharpe kind of listening. The two are worlds apart.

That's because Sharpe units are true scientific instruments. That's where we leave the others behind. We care all the way from research to delivery to you.

There's a Sharpe model for every kind of music lover and for every budget.

Models that are guaranteed for life, listed, tested, make best introductory or advanced listening buys. For your nearest dealer and literature, check the reader service card.

SHARPE AUDIO DIVISION

SCINTREX INC.

Tonawanda, N. Y. 14150



Export Agents:
ELPA MARKETING
INDUSTRIES, INC.
New Hyde Park,
N. Y. 11040

WE CALL IT TOTAL ENERGY RESPONSE



It's more than the way our woofers, tweeters and purring mid-ranges sound. It's the way they're designed to sound. Total Energy Response is the design concept that gives each one of our six new Jensen Speaker systems a fuller, richer sound than ever before.

It's a difference you can hear when you compare our systems to any others. So much so that we believe our new systems give you the best performance per dollar on the market today. Consider the new speaker systems from Jensen. They're backed by the best 5 year warranty in the business.

Model 1. It's what happened when we crossed a woofer with a tweeter. And got a two element, full range system with an 8" driver.

With Jensen Flexair® suspension, Model 1 sounds so good you won't believe it costs only \$30.



Model 2. Such harmony from a two way system! An 8" woofer. A 3½" direct radiating tweeter. Jensen Flexair suspension. Special crossover network. Balance control.

At \$48, you get a lot more than you're paying for.



Model 3. Perhaps you noticed the deeper woofing? Right. There's a 10" Jensen woofer with a 4 layer coil and our lyrical 3½" direct radiating tweeter, in a Tuned Isolation Chamber. Plus Flex-air suspension, special crossover, walnut cabinet. Incredible at \$75.





Model 4. A three way system introducing the first purr in speakers: Jensen's purring mid-ranges. It's supported by a 10" woofer and our Sonodome® ultra-tweeter. There's a four layer coil on the woofer, Tuned Isolation Chamber enclosing the mid-range.

With our Flexair suspension. Special crossover. Two balance controls. Walnut cabinet.

It's possibly the finest system in America at just \$99.



Model 5. What a cast of characters. A three way system with a bevy of beautiful speakers. A 12" woofer, two purring 5" mid-ranges, Sonodome ultra-tweeter.

With our exclusive Flexair suspension and crossover networks. A four layer woofer coil. Tuned Isolation Chambers on the mid-ranges. Two balance controls. Walnut cabinet.

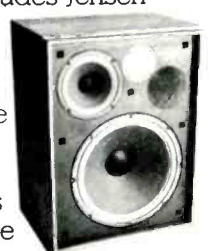
This outstanding system is yours for a paltry \$147.



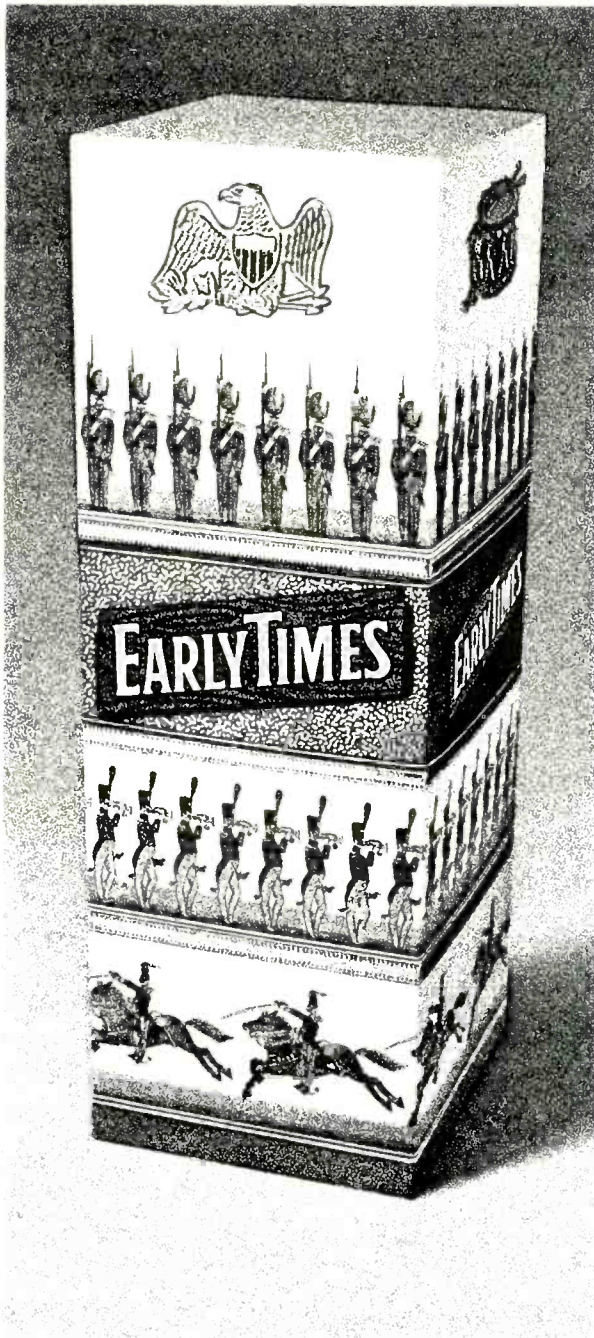
Model 6. This swinging four way system includes a huge 15" woofer, 8" purring direct radiating mid-range, 5" direct radiating tweeter, Sonodome ultra-tweeter.

There's a four layer coil on the woofer, Tuned Isolation Chambers on the mid-range and tweeter.

This system includes Jensen Flexair suspension, our exclusive crossovers, and a walnut cabinet with console base. For \$198, you're getting one of the finest systems available at any price



JENSEN SOUND LABORATORIES A DIVISION OF PEMCOR, INC
CHICAGO, ILLINOIS 60638



shop Early

THE TRUE OLD-STYLE KENTUCKY BOURBON

of your speakers into an a.c. line. As far as the location of the jack boxes is concerned, you'll have to work that out logically, taking into account the dimensions of the room and where your equipment console will probably be installed. In respect to the maximum length of speaker cable you can use, the conductors in BX are heavy enough so that you can, without difficulty, run hundreds of feet of wire without substantial losses. The proximity of the speaker leads to a.c. house wiring shouldn't cause problems, since, as was stated above, cable noise is usually r.f. pickup (which usually appears as a mixture of buzz, voice, and music). A separation of a foot or so should minimize the possibility of re-radiation of r.f. noise from the a.c. line into the speaker line—if unshielded speaker cable is used.

There is no reason why extra connectors cannot be put into the wall for possible relocation of speakers, but remember that if you follow conventional wiring practices, all of the outlets will be connected in parallel, which means that, for example, you should not plug more than two 8-ohm speakers into any one line, unless your amplifiers' instructions state specifically that it can operate with speaker loads of less than four ohms. You can use any type of standard a.c. switch in the speaker line or mounted on a small bracket on the rear of the speaker to turn it on and off.

Short-Wave Hi-Fi

Q. *I would like to buy a short-wave tuner to hook up to my present stereo receiver. Do you know of any such unit and how best to connect it?*

ROGER CARLSTON
Lauring AFB, Me.

A. I don't know of any American-made short-wave tuner, but there are probably some available from the German and English manufacturers. In any case, these are not short-wave tuners exclusively but also include the conventional AM and FM bands that would duplicate those in your present equipment. Your best bet, if you are interested in short-wave listening, is not a short-wave tuner to be connected to your component system, but rather a complete SW receiver meant to play through its own speaker. You would then have a far wider variety of brands and models to choose from. And you should be aware that, in general, short-wave broadcasts are so cluttered with noise and distortion that playing them through a high-fidelity system would not help the clarity but simply be an invitation to listening fatigue.

Because the number of questions we receive each month is greater than we can reply to individually, only those questions selected for this column can be answered. Sorry!



MORE POWER TO THE PEOPLE, FOR A LOT LESS MONEY

When you have a stereo AM/FM receiver selling under \$200, you're making people a powerful offer.

100 WATTS FOR \$199

For that price, the S-7100 offers more amplifier power (25 + 25 R.M.S. at 8 ohms) than any other receiver.

Of course, Sherwood does not live by power alone. So the S-7100 is loaded with impressive specifications and extravagant features you usually find on expensive models.

FM sensitivity is $1.9 \mu\text{V}$ (IHF). Amplifier distortion is a mere 0.2% at listening levels. And you get a variety of selector switches, including an FM interchannel hush control and an extra front panel tape record/dubbing jack.

Plus one feature you'll find hard to get at this price. Every S-7100 comes with an oiled walnut cabinet at no extra charge.

The S-7100 has all the power you ever dreamed of. At the kind of price you dreamed of paying.

For complete specifications, write us today. Sherwood Electronic Laboratories, Dept. A, 4300 North California Ave., Chicago, Illinois 60618.

**SHERWOOD
SOUNDS EXPENSIVE**

We proved it with the Elac-Miracord 50H.

Now we've improved it.

Announcing... the 50H II

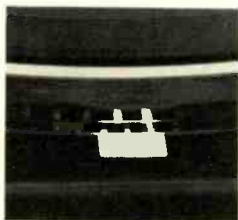


The original ELAC/Miracord 50H hasn't just proved itself. It's proved to be a classic.

So we've improved it. With the new 50H II.

We gave it new flexibility in speed control. Not just by letting you adjust your records' speed and pitch by 6% (a semitone), but also by building in an illuminated stroboscopic speed indicator that lets you return to absolute pitch accuracy at will. Because without that stroboscope, a pitch control would have you listening more often at the wrong speed than at the right one.

And we improved the rack-and-pinion counter-weight adjusting system to make it even more convenient and easy to adjust.



But when we added these improvements, we kept everything else that had made a classic of the original 50H:

The Papst hysteresis-synchronous/motor, proved in thousands of 50H's—and in more thousands of professional studio tape recorders around the world. Because hysteresis motors keep their speed up even when the power goes down (in brownouts, for instance).

The metal cam that holds its precision, unchanged, through thousands of hours of play.

And the leadscrew tracking-overhang adjustment, still the simplest and easiest in the field.

The 50H II is priced at \$199.50.

And for those who still cherish it, the original 50H is still available at \$175.

Another quality product from Benjamin.

ELAC Division, Benjamin Electronic Sound Corp., Farmingdale, N.Y. 11735. A division of Instrument Systems Corp. Available in Canada.

**BENJAMIN
ELAC**



BENJAMIN MIRRARED

HEAD STRONG



The Ampeg AX-50 stereo tape deck has three of the strongest heads money can buy. Deep-Gap heads made to last 10,000 hours, without variance in gap or frequency response. Which is about 10 times longer than regular heads. That's strong!

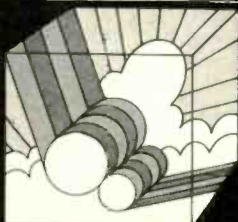
The AX-50 is also strong on capabilities. With a heavy-duty hysteresis synchronous motor. Direct tape monitor. Pause/edit control. Echo effect. Function programmer for sound-on-sound and sound-with-sound. Stereo headphone jack. Plus many more features you must see... and hear.

You need a strong deck to pick up today's heavy sounds. And the AX-50 is the strongest in its price range.

\$249.95

(Suggested retail price)

AMPEX



THE SOUND IDEA PEOPLE

CIRCLE NO. 7 ON READER SERVICE CARD
30

AUDIO BASICS

By RALPH HODGES



THE PHONO CARTRIDGE

IF YOU'VE thought about it at all, you probably realize that the groove of a phonograph record embodies a physical representation of the acoustic vibrations that make up sound. To translate the physical undulations of the groove back into sound, the earliest phonographs had a metal needle that traced the groove's wriggles and twists (or hills and valleys), and transmitted the buffeting it thereby received to a lightweight diaphragm to which it was physically linked. This diaphragm, a direct forerunner of the speaker cone, agitated the air at its surface, and the result was sound.

Records are not played with needles anymore. The modern device is a minuscule jewel, usually a diamond, that has been ground down to a polished cone with a rounded point. A thin metal tube called the *cantilever* holds the diamond and conducts its vibrations not to an acoustical diaphragm, but to the body of the *phono cartridge*, a small object mounted in the playing end of the tone arm. The cartridge converts the mechanical vibrations of the assembly into electrical signals, and electrical signals they remain until, much amplified, they reach the loudspeaker, which returns them to a mechanical state. With the phono cartridge, the phonograph evolved from a *mechano-acoustical* machine to an *electro-acoustical* one, with all the attendant benefits.

To do its work, the cartridge must either process (control) or generate electrical energy into electrical variations that correspond to the physical vibrations activating it. Most high-fidelity cartridges in this country are magnetic types—moving magnet, moving coil, moving iron, and induced magnet. These all depend on the principle of science-textbook electrical generators: the movement of a magnetic field through a coil of wire, or *vice versa*. (The moving part is, of course, attached to the cantilever.) Crystal and ceramic cartridges make use of solid blocks of *piezoelectric* materials that respond to deflections of the cantilever by producing an electrical voltage. These voltages are frequently large enough to be routed directly to an amplifier's high-level auxiliary inputs. The output of a magnetic cartridge is weak by comparison, and must be processed by special MAGNETIC-PHONO inputs for preliminary amplification (and frequency-response adjustment) before being admitted to the amplifier circuits that receive other program sources.

High-quality crystal and ceramic cartridges are now rare in this country, and are usually found only in inexpensive ready-to-play "compact" music systems. (However, less worthy piezoelectric cartridges are virtually inevitable in inexpensive console and portable phonographs, since they permit the manufacturer to save himself the cost of the additional amplification the magnetics require.) The magnetic cartridge dominates in most critical applications, and will receive most of the emphasis in cartridge discussions in this column in months to come. But, at this point, let me advise the shopper to be aware of this principal difference between cartridges, since it is seldom worthwhile or practical to attempt to upgrade a cheap system by switching to a magnetic cartridge, or to try using a poor ceramic cartridge with good components.

STEREO REVIEW

PILOT LEADS THE WAY IN FOUR-CHANNEL SOUND.

With the new Pilot PMC-4000 Quadrasonic Modular Center, four-channel sound comes of age.

For little more than the price of a good stereo receiver, you can now enjoy the multi-dimensional, "ear-opening" qualities of four-channel sound.

The PMC-4000 offers everything you will ever need in a *discrete* four-channel receiver and then some.

To begin with, four separate amplifiers put out 100 watts of usable power. Enough power to drive all but the most inefficient speakers to concert hall levels.

The extremely sensitive FM tuner section (2.5 microvolts IHF) is right down there with the best of them. And the AM sounds almost as good as FM.

Naturally, the Pilot PMC-4000 has all the usual features and controls you'd expect to find in a fine receiver, as well as some fascinating surprises.

For example, a clever little push-button brings into play our QQ5 circuit, which literally transforms two-channels into four.

This ingenious circuit recovers the reflected, but hidden, sounds that already exist

on most regular stereo recordings and broadcasts, and feeds them to the rear speakers, recreating the original concert hall ambiance.

Moreover, the PMC-4000 is fully compatible with any record matrixing system, present or future.

But where the PMC-4000 really comes into its own, is with discrete source material such as the new eight-track, four-channel tape cartridges.

These cartridges have been specially recorded and processed to take full advantage of the spectacular sonic effects and lifelike reproduction inherent in the four-channel system.

And while on the subject of tape cartridges, Pilot also makes a high quality tape cartridge player, the PTD-400 Quadrasonic Tape Deck, that is a fitting complement to the PMC-4000. Just plug it into the back of the receiver, hook up four of our PSE-10 acoustic suspension speakers and you've got a four-channel stereo system that beats the best of them. And for a lot less too.

For the address of the Pilot dealer nearest you write: Pilot, 66 Field Point Road, Greenwich, Conn. 06830.



A subsidiary of National Union Electric Corp. 



NO BEATS, TWEETS, BIRDIES, GABBLES, OR GROANS...



The tweets and birdies that happen when the high frequencies in your input signal beat against the bias frequency can't happen in our new cassette deck, F-107. Because its bias frequency is so high — 100 kHz — that even beat frequencies are too high to be audible.

And you won't get the speed-up gabble or the slow-down groan that means your recorder taped something at one speed but is playing it back at another. That's because our hysteresis synchronous motor drive assures precise, uniform speed at all times, despite those power fluctuations that are so common these days.

The beats, tweets, birdies, gabbles and groans, you don't get.

What you do get is 30-13,000 Hz response, a 47dB signal-to-noise ratio, and less than 0.2% wow and flutter.

Plus features like the dual bias tape selector that we pioneered, Endmatic automatic stop that saves transport and tape wear, and all the controls that you could wish for (even a mono-stereo switch). Just \$149.79. Concord Division, Benjamin Electronic Sound Corp., Farmingdale, N.Y. 11735/subsidiary of Instrument Systems Corp.

CONCORD F-107

**BENJAMIN
CONCORD**



TECHNICAL TALK

By JULIAN D. HIRSCH

● **NOISE-REDUCTION SYSTEMS:** Although noise is always an unpleasant "fact of life" in audio systems, there are a number of ways to minimize its audibility. Over the years many techniques have been tried for reducing audio noise to insignificant levels, with varying degrees of success. Any undesired sound that accompanies the desired signal can be considered as noise, whether it be turntable rumble, hum, or the soft hiss of electronic "random" noise at the higher audio frequencies. The first two examples can usually be eliminated by good equipment design and proper installation. However, despite all engineering efforts, some hiss always remains to place a lower limit on the minimum usable signal level, thereby limiting dynamic range. Hiss from the electronic circuits of quality amplifiers and preamplifiers is usually negligible and frequently inaudible at any reasonable listening level. But the hiss introduced by the tape-recording process as well as that present in FM broadcasts is still loud enough to intrude upon and sometimes obscure the quiet details of many types of program material.

Most noise-reduction systems employ filters to attenuate the high hiss frequencies that contribute most to audible noise. But filters that are fixed in frequency and attenuation action, no matter how well designed, inevitably remove—in addition to the noise—some of the high frequencies from the program material. Therefore, most noise-reducing systems use *dynamic filters* whose action varies with the level of the program, its frequency content, or both.

This is not a new concept; the old Scott Dynamic (Dynaural) Noise Suppressor of the late 1940's was a dynamic filter. Its major weakness was the manner in which the filter's action responded to the program requirements. The slight but unavoidable delay (or time-lag) in the turning on and off of the filters was usually only too audible as a "swish" or pumping action on the program and noise levels. The cure

being as objectionable as the ailment, the system fell into disuse.

The first really effective solution to noise reduction (as far as we know) was the Dolby system. Ray Dolby, the inventor of the system, eliminated the audible swish by restricting the operation of his circuit to low program levels, where its dynamic effects could not be heard. And the last vestige of effects on program content contributed by the filter's action were eliminated in the Dolby system by designing it as a *closed* system. During recording, low-level high frequencies were emphasized, and during playback an exactly opposite de-emphasis was applied. The net frequency response of the program, recorded and played back through the Dolby circuits, was completely unaffected, yet high-frequency hiss introduced by the tape-recording process was reduced by 6 to 10 dB.

This description applies to the Dolby "B" system, used in consumer products. The professional "A" type Dolby operates in four frequency bands covering the full audio range, and is therefore also effective against rumble, hum, and other noise, but the "B" type is strictly for hiss reduction.

Effective as Dolby's approach was, it was of no help in reducing noise already present in the program, or when the recording or broadcast had not been Dolby processed. Recently, an

"open" system of noise reduction was introduced by Kenwood. This also uses dynamic filters, controlled by program level, to attenuate high-frequency noise during playback. Like the Dolby, the Kenwood "De-Noisers" (as they are inelegantly but aptly named) operate only at very low program levels—from 40 to 50 dB below normal listening level. Though they do remove some high frequencies from the program when they operate, in most cases their action cannot be detected. The Kenwood units can reduce hiss from any program source by up to 15 dB.

Philips/Norelco has recently introduced their own

TESTED THIS MONTH



Lafayette LA-44 4-Channel Amplifier
ADC 10E Mk IV Phono Cartridge
IMF Studio Speaker System
Sherwood S-7300 AM/FM Receiver

noise-reduction system, which operates in a way similar to the Kenwood system. Although quite sophisticated, the Philips Dynamic Noise Limiter (DNL) system is much less expensive, but at the moment it is available only built into the Norelco/Philips cassette machines.

A third type of device that has potential as a noise reducer is the compressor/expander. Compressors have long been used by recording studios and radio stations in situations where a *decrease* in dynamic range is called for. This is accomplished by increasing the level of the lowest signals in the program by gradual increments while leaving the loudest passages untouched. When such a device is used to compress a program before recording and then to *expand* it back to its original dynamic range during playback, the effect on noise is something like that wrought by the Dolby, except that all program-material frequencies are affected simultaneously.

Successful application of a compressor/expander

requires exactly complementary compression and expansion characteristics over a wide dynamic range, with negligible distortion and equal response times in both modes of operation. Since it is operative at all program levels, it is intolerant of even minor aberrations that might go unnoticed in a system that functions only at very low levels. The high cost of professional compressor/expander systems has kept them from the home market, and the few which have appeared at reasonably low prices in recent years have failed to meet the previously stated requirements. Recently, however, a new company (dbx, Inc.) has introduced a relatively inexpensive but sophisticated compressor/expander.

We have made laboratory and use tests of a number of consumer-type Dolby units, two Kenwood "De-Noisers" and the dbx 117 compressor/expander. Our goal was to evaluate the operating characteristics and special features of each unit. Our findings are presented elsewhere in this issue.

EQUIPMENT TEST REPORTS

By Hirsch-Houck Laboratories

Lafayette LA-44 Four-Channel Amplifier



● LAFAYETTE'S new Model LA-44 four-channel integrated amplifier is actually two complete stereo amplifiers, with all the controls of a normal stereo amplifier in duplicate, plus the extra controls and flexibility needed for four-channel operation. It will handle both discrete and matrixed program sources, and, in addition, it contains a circuit for deriving a rear "ambiance" signal from any two-channel source. The amplifier is remarkably compact: 13½ inches wide, 4 inches high, and 9½ inches deep. It weighs 15½ pounds. It is nominally rated at 20 watts per channel continuous output at 1,000 Hz at less than 0.8 per cent distortion with 8-ohm loads.

Input sources for the front and rear amplifiers are selected by two rows of pushbutton switches. The inputs are for two auxiliary high-level sources plus TUNER and PHONO. The function-selector switch is responsible for much of the operating versatility of the LA-44. The three counterclockwise positions are for two-channel stereo inputs. Either front or rear inputs can be channeled to all four speakers, or external reverberation can be added to the rear signals. Jacks are provided in the rear for connection to a reverberation device. The center position, marked 4 CH COMPOSER, passes a two-channel signal entering the front inputs through a matrix circuit which supplies an L - R ("difference") signal to the rear-channel amplifiers. This permits much of the reverberant sound in two-channel programs to be heard principally in the rear speakers, producing a worthwhile simulated four-channel effect with many two-

channel discs, tapes, and conventional stereo FM broadcasts.

The remaining three switch positions are for use with four-channel program sources. One connects the four inputs to their respective amplifier channels and speakers, and another setting interchanges the front and rear signals. The last setting, F + R, mixes the signals so that the left and right programs will be identical in the front and rear of the room. The 4 CH STEREO setting is also used when the LA-44 serves as two independent two-channel amplifiers, permitting different programs to be supplied to different rooms, with independent control of all amplifier functions. It can also be used for driving two stereo headphones with separate programs.

The left- and right-front volume controls are concentrically mounted, as are the left- and right-rear controls. All level adjustment and balancing between channels is done by individual adjustment of these controls, which is not quite as convenient as having separate balance controls. The bass and treble tone controls are also concentrically mounted, and are separate for the front and rear channels.

Along the bottom of the panel is a row of pushbutton switches for tape monitoring, mono/stereo mode, loudness compensation, and a high-cut filter. Each function has separate buttons for front and rear channels. Another pair of buttons activates main and remote speakers separately or together (up to eight speakers can be driven simultaneously by the LA-44). At the lower left of the panel are separate front and rear tape-dubbing jacks in parallel with the jacks in the rear of the amplifier. At the lower right are two stereo headphone jacks (for front and rear programs) and the power switch.

The rear of the LA-44 is densely packed with the speaker terminals, all inputs and outputs, individual speaker fuses and a line fuse, and two a.c. outlets, one of which is switched. There are also two COMPOSER OUTPUT jacks,

(Continued on page 38)

Empire's most
exciting Grenadier

DESIGNED TO
OUTPERFORM ANY SPEAKER
UP TO TWICE THE PRICE
new model
7500M

Three Way System •

15 inch woofer
direct radiator mid-range
ultra sonic domed tweeter

Wide Angle Dispersion •

360° spread for lows
180° at high frequencies

High Power Capacity •

100 watts power per channel

• Extended Response

25-20,000 Hz.

• Elegant Pedestal Enclosure

20 inch diameter
26¾ inches high

• Irresistibly Low Priced

at \$169.95; with imported
marble top \$184.95



Wait until you hear this great speaker. Listen to the kind of sound no box can deliver. In Empire's stereo cylinder the woofer faces down for bass so live it gives you goosebumps. There is no ugly grill cloth; the handsome finish goes all the way around and the marble top is meant to be used. Empire's

Grenadiers are available in satin walnut or antique oak finish.

For information and further details, write Empire Scientific Corp., 1055 Stewart Ave., Garden City, N.Y. 11530.

empire



Introducing the Heathkit

The new Heathkit AR-1500 Stereo Receiver succeeds our AR-15. But the AR-1500 is no facelift. It embodies substantial improvements in every major area of the circuitry — resulting in more pure power, greater FM and AM selectivity and sensitivity, and a much easier kit to build. And in 1967 when we introduced what was rightfully called “the world’s most advanced receiver”, the technology somewhat overshadowed the fact that the AR-15 was probably the best value in audio. The new AR-1500, still at 349.95, is an even better buy!

Better Power, not just more of it, gives you better stereo listening. The AR-1500 provides 180 watts Dynamic Music Power, 90 watts per channel (60 watts RMS), under an 8 ohm load (120 watts per channel under 4 ohms), with less than 0.25% harmonic distortion all across a bandwidth of less than 8 Hz to more than 30 kHz. IM distortion is less than 0.1%. Direct coupled output and driver transistors are protected by limiting circuitry that electronically monitors voltage and current. And a completely regulated power supply for the preamp and tuner circuits offer better stability and noise characteristics.

Better FM, better phase linearity, better separation and less distortion result from two computer-designed 5-pole LC filters. Alignment is a simple one-step operation. An improved 4-gang 6-tuned circuit front end gives better stability. 1.8 uV sensitivity, 90 dB selectivity, 1.5 dB capture ratio, 100 dB image and IF rejection. There are four ICs, three in the IF, one in the Multiplex. And the patented automatic FM squelch is both noise and deviation activated, fully adjustable for sensitivity.

Better AM, the “once-over-lightly” section in many receivers, has been subjected to the same engineering scrutiny that was applied to every part of the AR-1500. The design incorporates two dual-gate MOSFETS in the RF and Mixer stages, one J-FET in the oscillator, a 12-pole LC Filter in the IF, broad band detector and an adjustable rod antenna. You get better overload characteristics, better AGC action, and no IF alignment.

Better Looking, with a new form that follows its function.

“Black Magic” lighting hides the AM and FM tuning scales and meters when the unit’s turned off. A velvet-smooth flywheel-action knob tunes AM and FM, pushbuttons control all system modes. Panel and knobs are chrome-plated die castings. And there are outputs for two separate speaker systems, push-button controlled from the front panel; front-panel jacks for two sets of headphones; bi-amplification outputs for separable preamps and amps; connections for oscilloscope monitoring of FM Multipath. Conventional inputs for phono, tape, tape monitor and auxiliary sources all have individual level controls.

Better to Build, with 10 plug-in circuit boards, two wiring harnesses and extensive use of pre-cut wiring with clip connectors. Built-in test circuitry uses the signal meter to make resistance and voltage checks as you go along. Install your new, better AR-1500 in the low-profile walnut cabinet, in a wall or existing cabinet, or use the black-finish dust cover included with kit. It just may be the best stereo receiver you’ll ever own!

Kit AR-1500, less cabinet, 42 lbs., mailable **349.95***

ARA-1500-1, walnut cabinet, 6 lbs., mailable **24.95***

AR-1500 SPECIFICATIONS — TUNER — FM SECTION (Monophonic): Tuning Range: 88 to 108 MHz. Intermediate Frequency (IF): 10.7 MHz. Frequency Response: ± 1 dB, 20 to 15,000 Hz. Antenna: Balanced input for external 300 ohm antenna. 75 ohm antenna input may be used between either FM antenna terminal and ground. Sensitivity: 1.8 uV.* Volume Sensitivity: Below measurable level. Selectivity: 90 dB.* Image Rejection: 100 dB.* IF Rejection: 100 dB.* Capture Ratio: 1.5 dB.* AM Suppression: 50 dB.* Harmonic Distortion: 0.5% or less.* Intermodulation Distortion: 0.1% or less.* Hum and Noise: 60 dB.* Spurious Rejection: 100 dB.* **FM SECTION (Stereophonic):** Channel Separation: 40 dB or greater at midfrequencies; 30 dB at 50 Hz; 25 dB at 10 kHz; 20 dB at 15 kHz. Frequency Response: ± 1 dB from 20 to 15,000 Hz. Harmonic Distortion: 0.5% at 1000 Hz with 100% modulation. 19 kHz and 38 kHz Suppression: 55 dB or greater. SCA Suppression: 55 dB. **AM SECTION:** Tuning Range: 535 to 1620 kHz. Intermediate Frequency (IF): 455 kHz. Sensitivity: 50 uV with external input; 300 uV per meter with radiated input. Selectivity: 20 dB at 10 kHz; 60 dB at 20 kHz. **AM Antenna:** Built-in rod type; connections for external antenna and ground on rear chassis apron. Image Rejection: 70 dB at 600 kHz; 50 dB at 1400 kHz. IF Rejection: 70 dB at 1000 kHz. Harmonic Distortion: Less than 2%.* Hum and Noise: 40 dB.* **AMPLIFIER — Dynamic Power Output per Channel (Music Power Rating):** 90 watts (8 ohm load);* 120 watts (4 ohm load); 50 watts (16 ohm

We've improved the AR-15 and held the price! Still \$349.95*

- 180 watts of Dynamic Music Power
- 90 dB FM selectivity
- AM performance approaching FM quality
- Outputs for two separate speaker systems
- Individual input level controls
- "Black Magic" panel lighting
- Easy modular-board assembly



AR-1500 Stereo Receiver

load). **Continuous Power Output per Channel:** 60 watts (8 ohm load)*; 100 watts (4 ohm load); 40 watts (16 ohm load). **Power Bandwidth for Constant .25% Total Harmonic Distortion:** Less than 8 Hz to greater than 30 kHz.* **Frequency Response (1 watt level):** -1 dB, 7 Hz to 80 kHz; -3 dB, less than 5 Hz to 120 kHz. **Harmonic Distortion:** Less than 0.25% from 20 Hz to 20 kHz at 60 watts output; less than 0.1% at 1000 Hz with 1 watt output. **Intermodulation Distortion:** Less than 0.1% with 60 watts output, using 60 and 6,000 Hz mixed 4:1; less than 0.1% at 1 watt output. **Damping Factor:** Greater than 60. **Input Sensitivity:** Phono, 1.8 millivolts; Tape, 140 millivolts; Aux, 140 millivolts; Tape Mon, 140 millivolts. **Input sensitivity is the rms input voltage needed to obtain 60 watts of output power per channel into 8 ohm loads.** **Input Overload:** Phono, 145 millivolts; Tape, greater than 10 volts; Aux, greater than 10 volts; Tape Mon, greater than 10 volts. **Overload measurements were made using the input level controls.** **Hum and Noise:** Phono (10 millivolt reference), -63 dB. **Tape and Aux (0.25 volt reference), -75 dB.** **Volume control in minimum position, -90 dB referred to rated output.** **Channel Separation:** Phono, 55 dB; Tape and Aux, 55 dB or greater. **Output Impedance (each channel):** 4 ohm through 16 ohms. **Tape Output Impedance:** Approximately 50 ohms. **Input Impedance:** Phono, 49 k ohm (RIAA** Equalized); Aux, Tape, and Tape Mon, 100 k ohms. **Tape Output:** Tape or Aux inputs, 0.9 volt output with 0.2 volt input. **OPERATIONAL CONTROLS AND SWITCHES - AM FM Tuning:** 535 to 1620 kHz for AM and 88 to 108 MHz for FM. **Power Switch:** Applies or removes all power to the internal circuitry of the receiver. **Speaker Switches:** These switches select either or both speaker systems, or disconnect both systems for private headphone listening. **Source Switches:** Tape, Aux, Phono, AM, FM Stereo, and FM Auto. **Tape Mon Switch:** Makes it possible to monitor the source signal or recorded signal while recording on tape. **Mono Switch:** Selects the mode of operation of the receiver; monophonic or stereo. **Blend Switch:** Reduces the high frequency noise without reducing the frequency response (high frequency stereo separation may be reduced). **Loudness Switch:** Compensates for the nonlinear frequency-versus-volume characteristics of the human ear at low listening levels. **Tone Flat Switch:** Bypasses the tone controls and provides flat amplifier response: (Loudness Switch in off position.) **Volume Control:** Dual tandem control provides simultaneous adjustment of both channels. **Bass Control:** Dual tandem control. Full clockwise provides 15 dB boost at 20 Hz. Full counterclockwise provides 18 dB cut at 20 Hz. **Treble Control:** Dual tandem control. Fully clockwise provides 14 dB boost at 20 kHz. Fully counterclockwise provides 15 dB cut at 20 kHz. **Balance Control:** Dual tandem control balances the right and left channels for equal sound output from the speakers. **GENERAL - AC Outlet Sockets:** Two, located on rear chassis apron for powering accessory equipment. One switched (240 watts maximum), and one unswitched (240 watts maximum). **Power Requirements:** 120 or 240 volts 50/60 Hz AC. 40 watts idling (zero output) and 356 watts at full output, with no load on accessory outlets. **Dimensions:** Overall - 18 1/2" W x 5 1/8" H x 13 7/8" D. **Mounting:** ARA-1500-1 cabinet or custom mounting.

*Rated IHF (Institute of High Fidelity) Standards.

**Rated RIAA (Record Industry Association of America).



Heath has
a better
cassette
recorder too!

The new AD-110 Stereo Cassette Recorder offers a typical frequency response of 30-12 kHz for full fidelity reproduction of all mono and stereo cassettes, including chromium-dioxide. The built-in record bias adjustment requires no external equipment, utilizes the front-panel meter and a built-in reference. Features include precision counter, automatic motor shutoff, preassembled and aligned transport mechanism. Compatible with any quality mono or stereo system.

Kit AD-110, 10 lbs. 119.95*

ADA-110-1, matched stereo mikes, 6 lbs. 19.95*

HEATHKIT

Schlumberger

HEATH COMPANY, Dept. 40-12
Benton Harbor, Michigan 49022

Enclosed is \$ _____, plus shipping.

Please send model(s) _____

Please send FREE Heathkit Catalog.

Please send Credit Application.

Name _____

Address _____

City _____

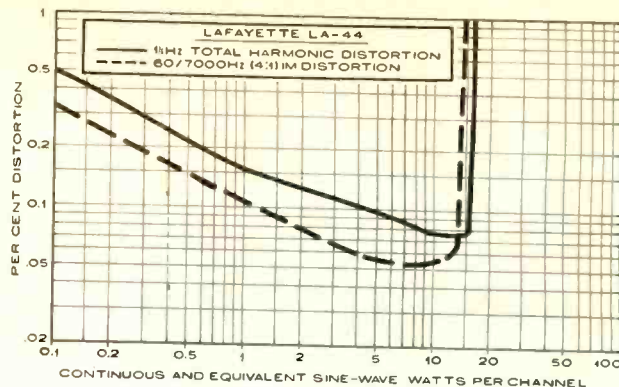
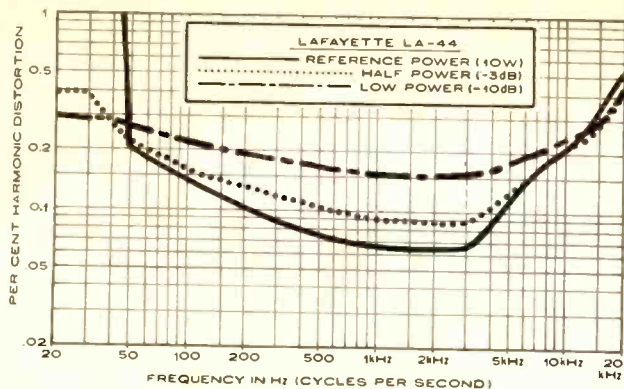
State _____

Zip _____

*Mail order prices; F.O.B. factory.

Prices & specifications subject to change without notice.

HF-253



making it possible to record simulated four-channel programs on discrete four-channel tape machines. The Lafayette LA-44 is supplied in a metal case, finished in simulated wood grain. Price: \$219.95.

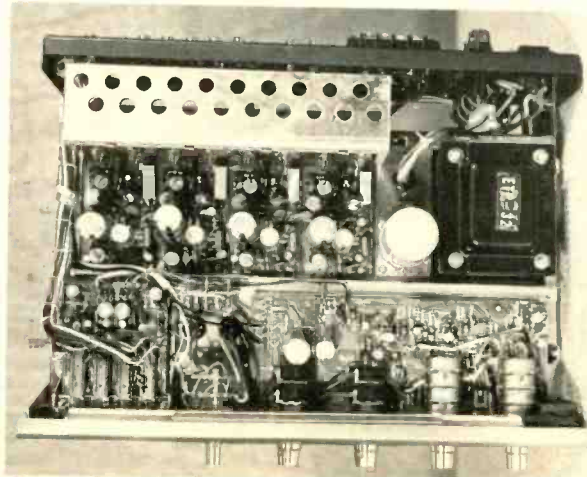
● **Laboratory Measurements.** We made most of our power and distortion measurements with all four channels driven, using 8-ohm loads. Although this is an unusually severe test, it does reflect possible "actual-use" conditions, albeit of the most rigorous kind. With a 1,000-Hz test signal, the LA-44 clipped at slightly over 17 watts per channel. With 4-ohm loads, the output was 24 watts, and with 16 ohms it was 10.6 watts. We also checked clipping levels and distortion with only two channels fully driven, which probably is more representative of actual use conditions. As expected, slightly higher power output was obtained—19.5 watts into 8 ohms, 25.5 watts into 4 ohms, and 12.8 watts into 16 ohms.

The 1,000-Hz harmonic distortion was masked by noise at low levels, but was under 0.2 per cent from 1 watt to about 16 watts (20 watts with two channels driven), and was less than 0.1 per cent over most of that range. The IM distortion in four-channel operation was 0.33 per cent at 0.1 watt, 0.1 per cent or less from about 1 watt to 14 watts, and 0.9 per cent at 15 watts.

We chose 10 watts per channel as a reference full-power output. Below 50 Hz, the distortion at 10 watts rose abruptly, but was 0.21 per cent or less from 50 to 10,000 Hz, rising to 0.55 per cent at 20,000 Hz. At half power and one-tenth power, distortion was about 0.4 per cent at 20 and 20,000 Hz, and was typically 0.1 to 0.2 per cent at most intermediate frequencies.

A 10-watt output required an input signal of 175 millivolts at the AUX inputs, 390 millivolts at the TUNER inputs, and 2.6 millivolts at the PHONO inputs. Hum and noise were extremely low: -80 dB, -74 dB, and -70 dB,

Four concentric potentiometers (lower right) are used for the LA-44's tone controls. The perforated heat-sink plate at upper left mounts eight power transistors for the four channels.



respectively, at the three inputs. Phono overload occurred at 58 millivolts—a safe level for any good cartridge.

We also measured the effect of the COMPOSER circuit. A single-channel (L or R) input appeared at both rear outputs with the same level as the driven front channel. Crosstalk in the other front channel was -46 dB at 1,000 Hz. An in-phase (L + R) input was reproduced at full level in the front channels, but was attenuated 15 to 20 dB in the rear. (The two front channels had slightly different outputs, but we do not believe this is inherent in the COMPOSER circuit.) With out-of-phase signals of equal levels applied, the front channels carried full signal levels out of phase. The rear-channel phase relationships corresponded to those of the front, but their levels were +5.2 dB. These measurements were made at maximum gain settings; the rear levels would normally be reduced for proper balance.

The high-cut filter had a 6-dB-per-octave slope, beginning at 4,500 Hz. The loudness compensation boosted both low and high frequencies at reduced volume settings. The tone controls had good characteristics, although their action took place entirely in the first two thirds of their rotation from center.

● **Comment.** Considered as a two-channel amplifier—or a pair of them—the Lafayette LA-44 was an excellent unit of moderate power and good distortion characteristics. As with most comparable amplifiers, its power-output capability in the low bass is somewhat restricted. But, to our surprise, it operated at comfortable levels, without audible distortion, when driving some fairly low-efficiency speakers that normally would be driven by an amplifier of several times the power of the LA-44. Although its control array is imposing, the LA-44 is really quite simple to use (thanks to the excellent instruction manual) after a brief familiarization period. We were not enthusiastic about the volume control system, which requires at least two adjustments every time the volume is changed (with care to avoid disturbing the left-to-right balances) during four-channel operation. But we recognize the economic and physical considerations that dictated it.

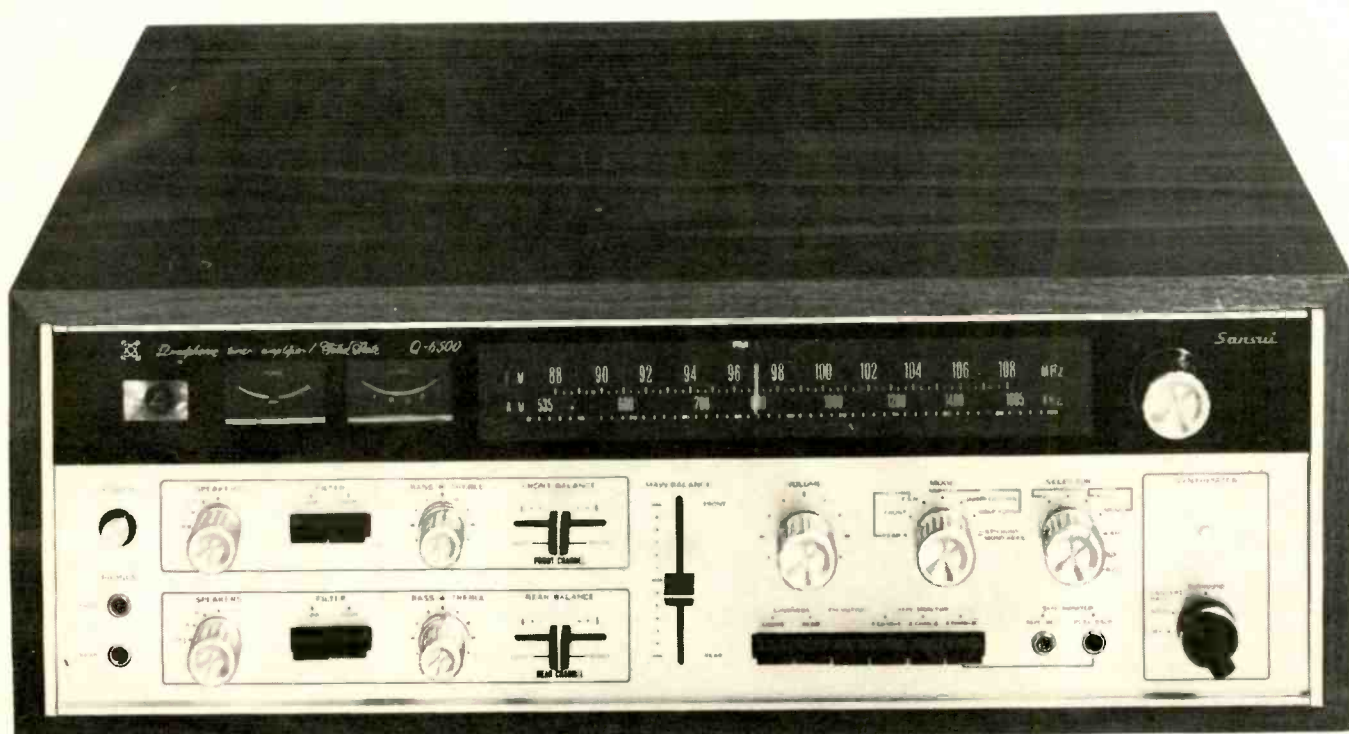
It appears that the COMPOSER circuit routes an unmodified "difference signal" (L - R) to the two added rear speakers. Since there is no left-to-right rear separation, this does not give quite the same four-channel simulation provided by the separate and more sophisticated matrix adapters. However, it does add a worthwhile sense of ambiance to two-channel programs.

In view of the variety of functions designed into a unit of its size, the Lafayette LA-44 is an impressive package. Although the power available from each channel may not seem very much, remember that this is a *four-channel* amplifier that can deliver a total of more than 60 watts of continuous output with low distortion. This is no mean achievement for a \$220 amplifier.

For more information, circle 156 on reader service card

(Test reports continued on page 40)

THE FOUR-CHANNEL EVERYTHING.



Sansui's Model QR6500

SANSUI BREAKS THE BOTTLENECK.

The "wait-and-see" period is over. You can go ahead and overwhelm yourself with the awesome power of the total four-channel sound field right now. And tomorrow too.

Sansui's QR6500 Four-Channel Stereo Receiver makes it possible. Actually it's an AM/FM Two-Channel and Four-Channel Stereo Receiver-Synthesizer-Decoder-Amplifier and Control Center. Add four speakers (you probably have two of them already) and live. That's all there is to it.

As a synthesizer, it can ferret out the ambient signals already present in most two-channel stereo recordings and broadcasts and process them for astonishingly realistic rear-channel reproduction. Enhancing this effect is Sansui's exclusive phase-modulation technique, which moves the sound about the listening area the same way nature propagates the live sound field.

As a decoder, it can accurately reproduce the four original channels of any compatibly matrixed four-channel recording or FM broadcast. And such discs and broadcasts are here *now*, past the experimental stage, becoming increasingly popular. In this mode, Sansui's original phase-shift circuitry prevents the sound dropouts and lost sound-source localization that plague many matrixed systems. And the phase modulators are also at work to build up that "live sound field."

As a straight-through four-channel stereo center, it can handle open-reel or cartridge four-channel tapes, or any other discrete four-channel source. It features 280 watts of total IHF music power (50 watts continuous per channel at 4 ohms; 37 watts continuous per channel at 8 ohms). Normal-level response is 20 to 30,000 Hz \pm 1 dB. Distortion at rated output is less than 0.5%. IHF sensitivity of the high-performance FET FM tuner is 1.8 microvolts.

It has slide controls for front-rear and right-left balance, illuminated digital indicators for two- and four-channel modes, and a full complement of controls and accessory circuits for any two- or four-channel function you can think of. You can even "dial" the best speaker arrangement — four-corner style, front 2-2, or what have you.

It's Sansui's embodiment of the four-channel era. Model QR6500.

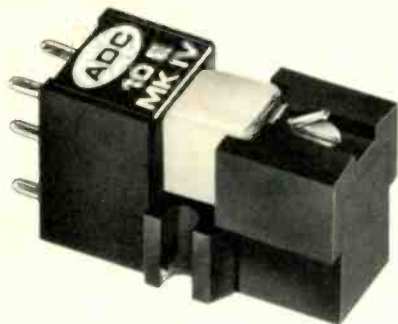


SANSUI ELECTRONICS CORP.

Woodside, New York 11377 • Gardena, California 90274
SANSUI ELECTRIC CO., LTD., Tokyo, Japan • Sansui Audio Europe S. A., Antwerp, Belgium

© COPYRIGHT BY SANSUI

ADC 10E Mk IV Phono Cartridge



● THE ADC 10E Mk IV differs in several ways from its predecessors, and can really be considered a new cartridge. Its electrical specifications, for the most part, are similar to those of previous 10E models. A major difference is in the rated tracking force (formerly from 0.5 to 1.5 grams), which is now a single value: 0.7 gram. Externally, the cartridge has been redesigned to resemble the top-of-the-line Models 25 and 26. The removable stylus assembly is a U-shaped plastic part that slides easily on and off the cartridge body. It appears to be physically identical to the styli of the ADC 25 and 26, but we do not know if they are in fact interchangeable.

The 10E Mk IV, like the other ADC cartridges, uses the induced-magnet principle. Almost all its magnetic structure—magnet, coils, and pole pieces—is in the molded plastic body. The stylus cantilever moves neither a magnet nor a coil, but a soft-iron collar. The magnetic flux induced in this collar by the fixed magnet is relayed, in accordance with the stylus motion, to the pole pieces, which generates a voltage in the associated coils.

The ADC 10E Mk IV differs from previous ADC cartridges in having virtually no mechanical damping in its moving system. Stylus damping is obtained from eddy currents induced in the metal housing surrounding the pole pieces. This technique is claimed to provide superior upper mid-range tracking and a reduction in IM distortion. The stylus of the ADC 10E Mk IV is a 0.3 x 0.7-mil elliptical diamond, designed to conform to the standard 15-degree vertical tracking angle. Price: \$50.

● **Laboratory Measurements.** The frequency response of the ADC 10E Mk IV, playing the CBS STR-100 record, was flat within ± 1 dB up to 10,000 Hz, and rose to +5 dB and +8 dB at 20,000 Hz on the two slightly different channels. The channel separation was 25 to 30 dB below 10,000 Hz on one channel and about 20 dB on the other. The separation was maintained solidly at higher frequencies, measuring 15 dB at 20,000 Hz for both channels.

To see how far the cartridge's response extended, we also measured it with the CBS STR-120 record, which goes to 50,000 Hz. Relative to mid-range levels, the output reached a maximum of +3 to +6 dB at 20,000 Hz, returning to the reference level at 25,000 Hz. Channel separation remained strong all the way.

These measurements were made with about five feet of shielded cable between the cartridge and the test instruments (ADC recommends limiting cable lengths to five feet to avoid capacitive loading of the cartridge). With an additional 100 pf (picofarad) of capacitance, the output peaked broadly between 11,000 and 14,000 Hz, returning to the reference level at 20,000 Hz. With an additional 220 pf, the peak was at 11,000 Hz, and output was -3 dB at 20,000 Hz. With a 470-pf capacitor, the high-frequency performance deteriorated greatly, peaking at 8,000 Hz and falling to -8 dB at 20,000 Hz. The moral is: keep the cables short!

The square-wave response of the cartridge, with the CBS STR-111 record, showed a single cycle of ringing,

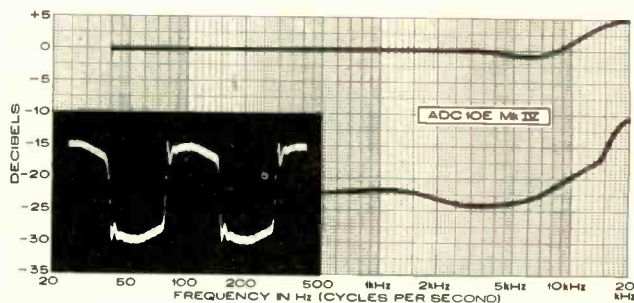
which would be expected from the slightly underdamped high-frequency resonance. The cartridge output signal at a reference level of 3.54 cm/sec recorded velocity was 3.6 millivolts—about average for a high-quality cartridge. Our tests of the cartridge's tracking ability completely confirmed ADC's claims for its performance. The Cook Model 60 test record, which has a 32-Hz signal recorded at an extremely high level, was tracked effortlessly at 0.4 gram, a tracking force far lower than any we have ever been able to use before. The 30-cm/sec, 1,000-Hz bands of the Fairchild 101 record required only 0.6 gram for minimum distortion—also a new low. The IM distortion measurement with the RCA 12-5-39 record showed essentially the same results with either 0.7 or 1 gram of tracking force. Distortion was less than 1.3 per cent (close to the residual of the record) at velocities of 22 cm/sec or less, and only 2.3 per cent at the maximum velocity of 27.1 cm/sec for a 0.7-gram force. We cannot recall testing any other cartridge that could track 27.1 cm/sec at any force—let alone 0.7 gram—with so little distortion.

The tracking-ability test, using the Shure Audio Obstacle Course test record, clearly placed the ADC 10E Mk IV in the top rank of cartridges. At 0.7 gram, it scored a perfect 100 per cent, playing all levels of all the instrumental selections without audible distortion—except for the orchestral bells, which have proved too much for any cartridge we have tested. Only one or two other cartridges in our experience have done as well on this disc.

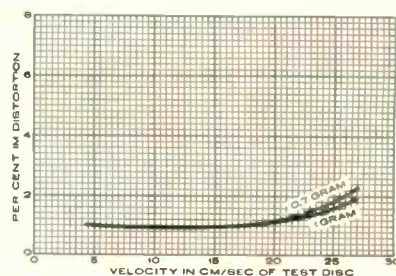
● **Comment.** In listening tests, it came as no surprise to find that the ADC 10E Mk IV had a very "easy," crisp, and clean sound. Needless to say, it tracked any of our records at the rated 0.7-gram force. ADC points out (and we concur) that this cartridge is suitable for use only in the finest tone arms, those capable of operating at less than a gram of tracking force. This includes the top-grade automatic turntables, and we used it in one with complete success.

One of the most noteworthy features of the ADC 10E Mk IV is its price—hardly what one could call "low," but still well below that of its predecessor and most of its com-

(Continued on page 42)



The upper curve represents the averaged frequency response of the cartridge's right and left channels. The distance (calibrated in decibels) between the two curves represents the separation between channels. The oscilloscope photograph of the cartridge's response to a 1,000-Hz square wave is an indication of a cartridge's high- and low-frequency response and resonances. Most program material on discs has velocities well below 15 cm/sec, and it only rarely reaches 25 to 30 cm/sec. Distortion figures shown are therefore not directly comparable with figures obtained on other audio components, but they are useful in making comparisons between different cartridges.



Most program material on discs has velocities well below 15 cm/sec, and it only rarely reaches 25 to 30 cm/sec. Distortion figures shown are therefore not directly comparable with figures obtained on other audio components, but they are useful in making comparisons between different cartridges.

When it comes to fine stereo receivers...

a Marantz is a Marantz is a Marantz.

That means Marantz not only makes the finest *most expensive* stereo equipment in the world, but also the finest *least expensive* stereo equipment. Take the Marantz Model 2215 FM/AM stereo receiver for only \$199.00. You're getting 15 watts RMS per channel, and exclusive Gyro-Touch tuning. You're also getting the same Marantz prestige, the same craftsmanship, and the same Marantz quality offered in our most expensive equipment. **\$199**

If you're a purist and willing to pay for perfection, then you want the finest, most expensive stereo FM receiver in the world. The Marantz Model 19. Yes, it is \$1000. It is the best stereo FM receiver money can buy. And will more than justify your investment.

\$1000

Same name, same quality — regardless of price. That's Marantz' superior quality, inherent in the full line of components priced from \$1200.00 to as low as \$139.00. And to complete your system, choose a Marantz Imperial speaker system. **marantz.**
We sound better.

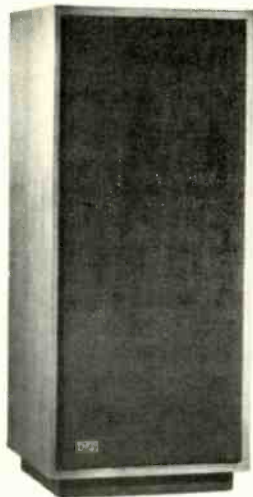


petition. In a day when cartridge prices have soared to as much as \$100, this unit signals (we hope) a reversal of the trend. To our knowledge, there is no finer cartridge on the

market, and very few at any price that are really in its class, when all performance aspects are considered.

For more information, circle 157 on reader service card

IMF Studio Speaker System



● THE IMF Studio loudspeaker, imported from Britain by IMF Products of Philadelphia, is a four-way, floor-standing system whose design is derived from a larger and much more expensive British monitor speaker. The IMF Studio contains an "acoustic transmission line" for rear loading of the bass driver. The line consists of a folded path (with tapering cross section) largely filled with sound-absorbing material. The "transmission line" terminates in a rectangular port at the bottom of the enclosure. Most of the bass energy from the rear of the woofer is absorbed within this path, but there is some radiation from the port at the lowest bass frequencies. The rear of the mid-range driver radiates into an enclosed tube filled with sound-absorbing material; all mid-range radiation takes place from the front of the driver.

The woofer has a plastic cone 8 inches in diameter and crosses over at 375 Hz to a 4-inch cone mid-range driver. At 3,500 Hz there is another crossover to a 2-inch dome tweeter, and above 13,000 Hz a third crossover takes place to a 1-inch dome super-tweeter. All the drivers are clustered in the top third of the cabinet, approximately at ear level. In the rear of the cabinet are four-position level controls for the mid-range and high-frequency units, each providing ± 2 dB of variation in 1-dB steps.

The IMF Studio is an 8-ohm system of moderately low efficiency, and an amplifier power of at least 25 watts per channel is recommended by the manufacturer. The cabinet, available in teak or walnut, is 35½ inches high x 15 inches wide x 14 inches deep, and the system weighs about 70 pounds. Price: \$300.

● *Laboratory Measurements and Listening Tests.* The averaged frequency response of the IMF Studio as measured by our multiple microphone technique was uniform

within ± 4 dB from 90 to 13,500 Hz. The output rose at low frequencies to a maximum in the 60- to 70-Hz region and remained strong and useful down to about 35 Hz. There were no detectable irregularities in response at the crossover frequencies.

Polar response (dispersion) was good over a ± 60 -degree angle in the horizontal plane. The asymmetrical arrangement of the drivers in the upper portion of the cabinet produces slightly different high-frequency distributions off toward the sides of the speakers. IMF manufactures this speaker in mirror-image "left channel" and "right channel" versions, with the high-frequency drivers intended to be positioned toward the inside of the stereo stage. This is claimed to improve the stereo imaging. However, we could not hear any significant difference when the two speakers were interchanged. As the ± 2 -dB control range for the mid- and high-frequency drivers would suggest, the system response can be tailored only in a rather subtle manner. Nevertheless, distinct differences could be



The four drivers in the IMF Studio speaker are closely grouped at the top of the enclosure. Elements of the crossover network are visible just below them, with the port at the bottom. In the more recent version tested, the crossover is internally mounted.

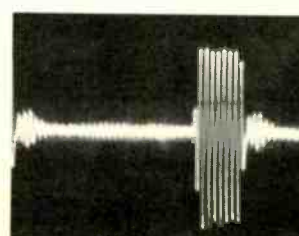
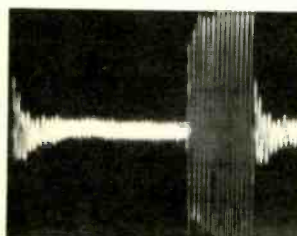
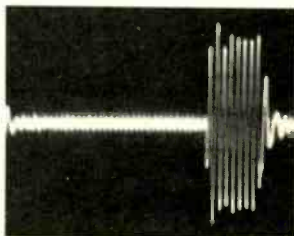
heard when the response was varied in 1-dB steps, attesting to the inherent smoothness of the system.

The electrical impedance measured between 7 and 10 ohms from 65 to 20,000 Hz. It rose to 19 ohms at the bass resonance frequency of 55 Hz, falling again to a minimum of 10 ohms in the 25- to 35-Hz range. At a 1-watt drive level, the harmonic distortion was under 2 per cent down to 50 Hz, increasing to 5 per cent at 40 Hz and to 15.5 per cent at 30 Hz. Tone-burst response was very good at all frequencies.

The simulated live-vs.-recorded test showed generally excellent performance. Extreme high frequencies (over 10,000 Hz) were slightly lacking when the speaker was

(Continued on page 44)

The IMF Studio's tone-burst response was very good over the full audio range. Shown at right are bursts at frequencies of (left to right) 100, 1,800, and 8,000 Hz.





A Marantz speaker system breaks up that old gang of yours.

Separation of sound is a true test of a speaker system. And to put Marantz—or any speaker—to the test you should listen to something you are already familiar with so you'll be able to hear for yourself that it's the speaker and not the recording that makes the difference. Oh, what a difference Marantz makes! What you thought were two oboes are now clearly an oboe and a flute and that barbershop quartet... well, they're really a quintet.

Let's face it: most speakers look the same, most speakers have an impressive list of specifications and ALL—ALL—ALL speakers claim to be the very A-1 HOT SHOT MOSTEST BEST.

But the proof is in the listening. And that's where the Marantz Imperial 5 comes in. The Imperial 5 is engineered to handle a plethora of continuous RMS power, yet has high efficiency

suitable for low-powered amplifiers, has fantastic off-axis response, and a 3-position high frequency control and costs just \$89 and gives you true stereo separation anywhere in the room and is, for the money, truly the very A-1 HOT SHOT MOSTEST BEST.

But on paper so is theirs.

However keep this in mind. Marantz speaker systems are built by the makers of the most expensive stereo equipment in the world. And exactly the same quality that goes into Marantz receivers and Marantz amplifiers goes into the Marantz Imperial 5 speaker system.

To find out how much better it sounds, listen. That's all we ask. Listen. Then ask about the big savings on a complete Marantz system.

marantz.
We sound better.



listened to on-axis, and they were noticeably down at angles up to 60 degrees off axis. There was also a slight mid-range coloration (barely detectable even with this very sensitive test). We found the most faithful reproduction, in our listening room, with the mid-range level at minimum and the high-frequency level at maximum. We give the IMF Studio an "A" rating as an accurate reproducer of sound—just below the two or three top-ranking speakers we have tested.

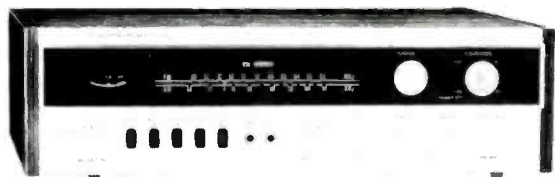
● **Comments.** The IMF Studio is a notably smooth, balanced-sounding speaker. Its reduced output in the uppermost octave can be detected only in direct comparison with the original material or with speakers having a strong and

well-dispersed high end (and these are surprisingly rare). One can actually *feel* as well as hear the bass output of the 8-inch woofer—a tribute to the effectiveness of the bass loading system. The IMF Studio performed just as well when placed six feet from the wall as with normal mounting against the wall, and seemed to be much less sensitive to room placement than most speakers we have used.

All told, the IMF Studio is a fine speaker system, very easy to listen to for extended time periods. With a little more high-frequency output and better dispersion, it would rank with the best speakers we have tested in recent years.

For more information, circle 158 on reader service card

Sherwood S-7300 AM/Stereo FM Receiver



● THE Sherwood S-7300 provides, at moderate cost, the amplifier power and tuner sensitivity formerly available only in much more expensive receivers. The S-7300 measures 18½ inches wide, 14½ inches deep, and 5¾ inches high in its oiled walnut cabinet, and its weight of 29 pounds attests to its rugged construction and heavy-duty power supply. The "blackout" dial face covers the softly lit green FM and AM dial calibrations, and the single tuning meter has a zero-center scale for FM tuning and reads relative signal strength for AM. The tuning scales are not visible when the AUX or PHONO inputs are used, and a brightly lit input identification appears in the dial window.

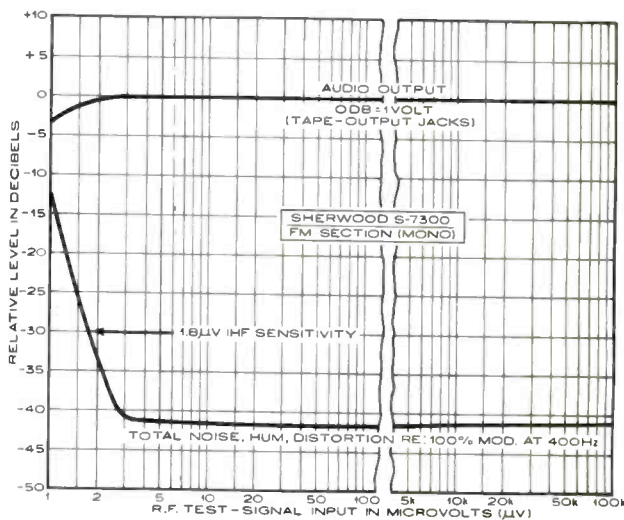
The S-7300 has two magnetic-phono inputs, one of which can be switched for use as a microphone input. The input selector, speaker selector (for two pairs of speakers), bass and treble tone controls, mode switch, and balance control are operated by a row of small knobs along the lower portion of the panel. The major controls—tuning and volume—are large knobs at the right of the dial window. The volume-control knob also operates the a.c. power switch.

Five pushbuttons below the dial window control tape monitoring, FM muting, low- and high-frequency filters, and loudness compensation. At their right are a stereo headphone jack and a tape-dubbing jack. The latter is in parallel with the rear tape inputs and outputs. A second tape recorder can be plugged into the jack and used to

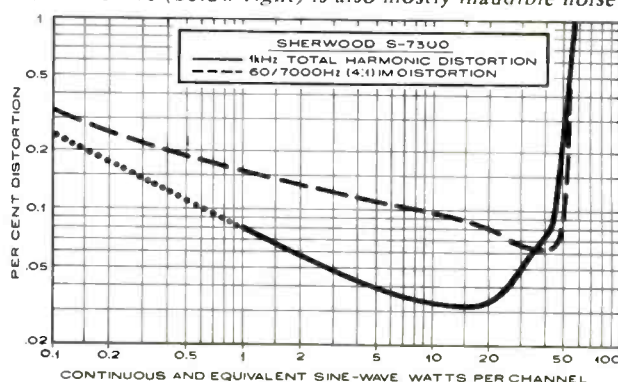
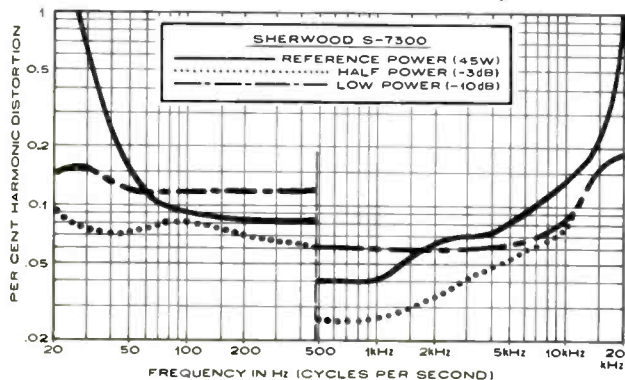
copy programs from the recorder connected to the rear jacks, or *vice versa*. Inserting a phone plug into the jack disconnects the normal program source.

In the rear of the S-7300 are binding-post terminals for two pairs of speakers, an AM ferrite-rod antenna, all the input and output jacks (including a separate DIN connector for tape-recorder connection), and two a.c. outlets, one of which is switched. One jack, which we have not seen on other receivers, is marked 4 CH FM OUT. It carries the demodulated FM audio *before* de-emphasis or multiplex decoding, and is presumably for use in the event of the adoption of a four-channel FM broadcasting system requiring access to this part of the FM-tuner circuit.

(Continued on page 48)



Inaudible low-frequency noise interfered with the distortion measurements. Above about 500 Hz, a filter was used, which caused the discontinuity of the curves. The dotted portion of the distortion curve (below right) is also mostly inaudible noise.



RUM BLOODY MARY IT'S CATCHING ON.



People don't drink Bloody Marys just because they like the taste of snappy tomato juice. Yet there isn't much else to taste.

So it's only natural that these people would turn by the thousands to Bloody Marys made with White or Silver Puerto Rican Rum.

Because Puerto Rican Rums are distilled at high proof and aged and filtered with charcoal to be smooth, dry, light, clear, with no strong aroma and no sweet, syrupy taste.

But Puerto Rican Rum doesn't just sit there and soak up the Worcestershire Sauce either.

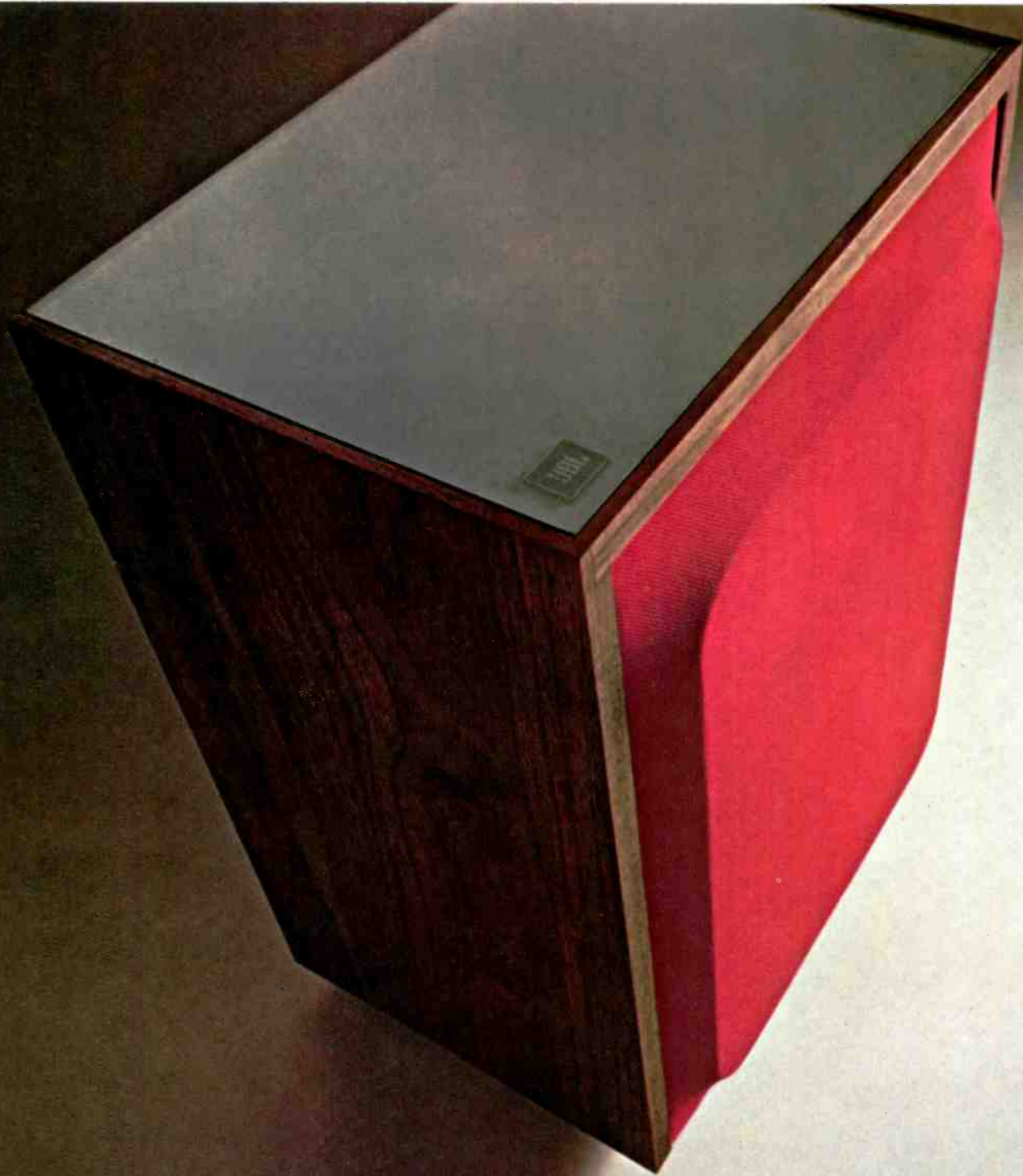
It has the taste, ever so subtle but with a little something extra, to give a snappy Bloody Mary just a little more snap.



THE RUMS OF PUERTO RICO

©1971 Commonwealth of Puerto Rico

A Rum Bloody Mary is made like any other Bloody Mary, except with rum. For a free book of the many drinks you can make with rum, write: Rums of Puerto Rico, 666 Fifth Ave., N.Y., N.Y. 10019.



JBL's new Lancer 55.

(If you'll read this first, you won't
have to buy it just for its looks.)

Okay, it's gorgeous.

But we're not in the furniture business. What's inside?
A 14-inch low frequency transducer in a 25" x 18" x 13"
cabinet – the biggest you can buy for an
enclosure that size.

An incredibly efficient sound system. (Two Lancer 55s
and your 10-watt amplifier can get you evicted.)

More presence, more richness, more sound than
you'd believe just looking at it.

And it's yours for less than \$300.

Now you can look at it.

Smoked glass top. Hand-rubbed oiled
walnut finish. Mandarin or Coffee or
Indigo grille.

But beauty starts inside.

See your nearest JBL high fidelity specialist
and hear what we did.



Six ceramic i.f. filters are used in the FM section, along with one I.C. The price of the Sherwood S-7300 receiver, including its wooden cabinet, is \$319.95.

● **Laboratory Measurements.** The measured IHF sensitivity of the S-7300 was 1.8 microvolts—a good indication of the fine performance of the FM tuner. The FM frequency response was ± 1.5 dB from 30 to 11,000 Hz and was down 3 dB at 15,000 Hz. Stereo crosstalk was between -20 and -25 dB from 30 to 9,500 Hz and was -12.5 dB at 15,000 Hz. FM distortion (mono) was between 0.8 and 0.95 per cent for all signal levels above 3 microvolts at full modulation. Since the limiting curve of the receiver was very steep, the S-7300 provided quiet, distortion-free reception of very weak FM signals. The image rejection was a good 90 dB, AM rejection was average at 47 dB, and the signal-to-noise ratio (with hum frequencies excluded, since the residual hum of our signal generator would influence the readings) was an impressive 75 dB. Capture ratio was 2.4 dB.

The AM frequency response was down 3 dB at 1,800 Hz, and 10 dB at 3,400 Hz. Although this frequency response is not great, even by the relaxed standards applied to AM reception, the sound quality was adequate, as were the sensitivity and background noise.

The audio amplifiers proved to be powerful indeed, compared with those of other receivers in this price class. With both channels driven into 8-ohm loads, clipping occurred at 53 watts per channel. The maximum power into 4-ohm loads was 65 watts per channel, and into 16 ohms it was 33 watts per channel. The 1,000-Hz harmonic distortion was below 0.1 per cent for all outputs under 45 watts per channel, although it was masked by low-level (and inaudible) noise at outputs below 1 watt. The IM distortion was also very low, ranging from 0.3 per cent at 0.1 watt to

less than 0.07 per cent at 45 watts. We chose 45 watts per channel as a reference full-power level. Over most of the audio frequency range, from 70 to 7,000 Hz, the distortion at full power was under 0.1 per cent, increasing to 1 per cent at 27 and 0.85 per cent at 20,000 Hz. At half power and one-tenth power, the distortion was between 0.025 and 0.15 per cent from 20 to 15,000 Hz.

The audio hum and noise were about 70 dB below 10 watts on AUX and MIC inputs, and -66 dB on PHONO. These are low, completely inaudible noise levels. The phono sensitivity was high, with only 1.2 millivolts needed for 10 watts output, and the overload point of 58 millivolts virtually ruled out overload with any good cartridge.

The tone controls were able to provide considerable correction at low and high frequencies with little effect on the mid-range response. The filters, whose slopes were at a 6-dB-per-octave rate, nevertheless had well-chosen "cut-off" points (100 and 5,000 Hz), which made them reasonably effective. The RIAA phono equalization was within ± 1.5 dB from 60 to 15,000 Hz. The loudness compensation boosted both low and high frequencies at reduced volume-control settings. Our only negative criticism concerned the action of the FM muting circuit. The loud noise bursts when the receiver was tuned off a station were so disturbing that we generally preferred to dispense with the muting entirely.

● **Comment.** In its general performance, the Sherwood S-7300 acquitted itself admirably. Its powerful, clean audio amplifiers should be able to drive almost any home speaker systems with ease, the FM tuner ranks with the better ones in sensitivity and quieting, and all the controls worked with the usual Sherwood smoothness. All things considered, the Sherwood S-7300 is an excellent value.

For more information, circle 159 on reader service card

Today, stereo is not enough!

This little box can add the delights of four channel sound to your present stereo system. It's the E-V STEREO-4™ Decoder.



E-VX-4 \$59.95

And it, plus a second stereo amplifier and rear speakers, provides life-size sound from every corner that closely duplicates the actual listening experience. STEREO-4 sound is being broadcast from many stereo FM stations and recorded on stereo discs. Today,

But there's a bonus. Conventional stereo records, FM, and tapes take on new life and dimension with the STEREO-4 system. And STEREO-4 is flexible. You can enjoy mono, regular stereo, even discrete 4-channel (with the proper source) all with the same system. In short, STEREO-4 is compatible with the past, present, and foreseeable future. The STEREO-4 system is at your E-V showroom now.

Electro-Voice®
a GULTON subsidiary

ELECTRO-VOICE, INC., Dept. 1214F, 616 Cecil Street, Buchanan, Michigan 49107 In Europe: Electro-Voice, S.A., Lyss-Strasse 55, 2560 Nidau, Switzerland

CIRCLE NO. 81 ON READER SERVICE CARD

What's music to some people's ears just doesn't make it for others.

If you prefer Beethoven or the Beatles to birds, live and let live with Koss Stereophones.

You'll hear your favorite music the way it was meant to be heard. Uncolored, full-range sound. Minus the room reflections that plague even the finest speaker systems. And minus the natural sounds of your environment, whatever it may be.

Koss makes a stereophone just right for you. The best that money can buy is the ESP-9 Electrostatic Stereophone. It

surpasses the range of the best loud speaker systems. Delivers incredibly smooth, distortion-free sound over the entire audible spectrum of ten octaves.

Rated "superb" by High Fidelity Magazine is the PRO-4AA Professional Dynamic Stereophone. With an uncolored response two full octaves beyond the range of ordinary dynamics. And an

extended linear bass response below audibility.

For the complete story on these and other Koss Stereophones, write for our free full-color catalog, c/o Virginia Lamm, Dept. SR-5.

In the meantime your Stereo Dealer or Department Store can let you hear the Sound of Koss . . . from \$19.95 to \$150.

KOSS STEREOPHONES

Koss Corporation, 4129 N. Port Washington Ave., Milwaukee, Wis. 53212
Koss Corporation S.r.l., Via Valtorta, 21 20127, Milan, Italy

CIRCLE NO. 34 ON READER SERVICE CARD

Live and let live

10-20,000 Hz.

175-1,300 Hz.



In 1968 almost every stereo enthusiast knew:

1

You couldn't reproduce bass notes through small speakers.

2

All the sound should come from the front of the speaker and none should be directed rearward toward the wall.

3

A speaker should never have associated electronics such as an active equalizer.

4

All good speakers should have crossovers, woofers and tweeters.

5

All speakers should be designed to give flat frequency response on axis.

By 1971 almost every stereo enthusiast has heard the BOSE 901.

A speaker which violates every one of the concepts above. Born out of 12 years of university research,* the 901 has become *the most highly reviewed speaker, regardless of size or price.*

Today we have a theoretical basis that explains why these concepts limit the performance of conventional speakers. But no theory can tell you how much better a new design will sound. To appreciate this, ask your dealer for an A-B comparison of the BOSE 901 with the largest and most expensive speakers he carries.

*For those interested in the 12 years of research that led to the design of the 901, copies of the Audio Engineering Society paper "ON THE DESIGN, MEASUREMENT AND EVALUATION OF LOUDSPEAKERS," by Dr. A. G. Bose, are available from BOSE Corporation for fifty cents.

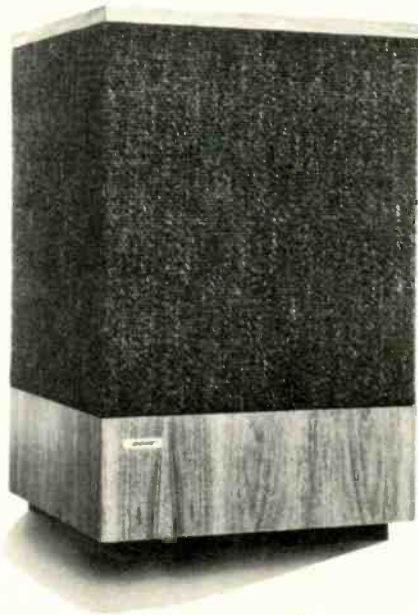


Pedestal bases and walnut facings optional extra.

Covered by patent rights issued and pending.

You can hear the difference now.

BOSE
Natick, Mass. 01760



Ask your franchised dealer* to A-B the BOSE 501 with any speaker he carries that uses woofers, tweeters and crossovers.

There is an important reason why we ask you to make this test. There are inherent limitations of performance in the use of a woofer, a tweeter and a crossover—limitations covered in detail in earlier issues. The bypassing of these limitations played a large part in the advances which have made the BOSE 901 the most highly reviewed speaker, regardless of size or price.

We set out to design a lower priced speaker which would preserve as much as possible of the performance of the 901. Most important, we were able to design into the 501 much of the 901's great advance in spatial properties. The BOSE 501 is the second DIRECT/REFLECTING® speaker system.

But it became evident that there was no way to keep the advantages of multiple small full-range drivers and equalization. The cost problem was too great. We were forced to accept the woofer-tweeter-crossover combination as the only feasible compromise and set out to achieve the fullest possible realization of this design approach.

Our engineers designed a unique woofer with an unusually long voice coil which provides tight control of bass transients. They developed a new and different approach to crossing over the outputs of the woofer and the two tweeters. In the process they became convinced that in terms of quality of performance there is no acoustical reason to spend more than \$125 on any speaker containing woofers, tweeters and crossovers.

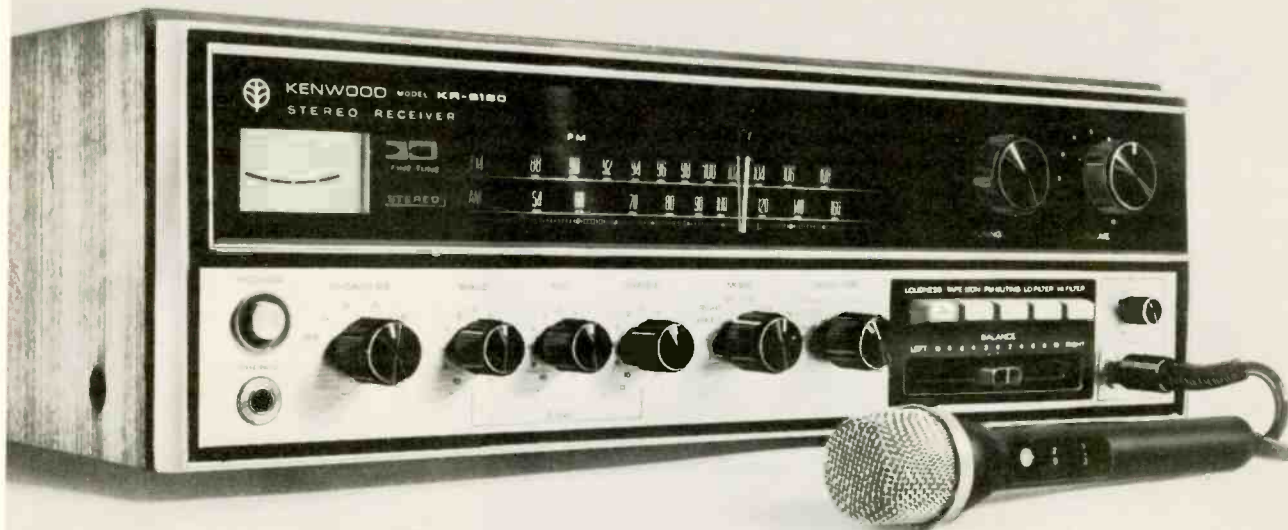
The design goal of the 501 was to outperform any other woofer-tweeter-crossover speaker. You be the judge. If we have succeeded, the results will be obvious to you when you make the comparison.

*Literature sent in answer to your request will include a list of franchised BOSE dealers in your area who are capable of demonstrating BOSE speakers to their full performance.

Patents applied for.

NATICK, MA. 01760

BOSE®
You can hear the difference now.



... "mike-mixing" in any mode with its own dynamic mike
 ... variable presence with special midrange control

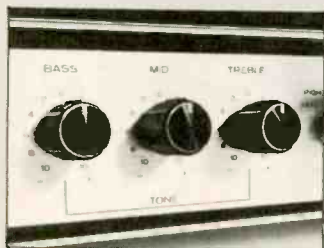
KENWOOD KR-6160

220-WATT (IHF) FM/AM STEREO RECEIVER

EXTRA FEATURES THAT ADD EXTRA PLEASURE TO STEREO ENJOYMENT



'MIKE-MIXING' FOR AN ADDED TOUCH OF FUN. Mix 'live' sound with sound from any source. Blend the sounds skillfully together with the front panel level control.



MIDRANGE TONE CONTROL FOR CONTINUOUSLY VARIABLE PRESENCE. Brings sound 'close in' for an intimate effect from vocal music or small combos.

The KR-6160 is a luxury receiver in every way, with big power, excellent performance characteristics and built-in dependability. 220 watts (IHF) of pure music power drives three sets of stereo speakers in five drive variations. A 3-FET, 4-gang tuning condenser front end and 2-IC and mechanical filter IF stages assure extraordinarily good broadcast reception in the critical FM and FM multiplex bandwidths. Accommodations for two phonos, two auxiliaries and a tape deck, plus separate preamp output and main amp input, provide the potential for a most expansive stereo system. But the KR-6160 takes luxury a step further with its own unique circuitry for 'mike-mixing' and a full complement of sophisticated controls that opens new dimensions in the enjoyment of stereo sound.

SPECIFICATIONS: Power output (RMS) 90/90 @ 4 ohms; 70/70 @ 8 ohms • Frequency response 15-40k Hz • Power bandwidth (IHF) 12-30k Hz • Harmonic & IM distortion 0.5% • FM sensitivity (IHF) 1.6 μ V • Selectivity 55 dB • Capture ratio 1.5 dB • S/N ratio 68 dB

For complete specifications visit your nearest KENWOOD Dealer or write...

the sound approach to quality
KENWOOD

15777 So. Broadway, Gardena, Calif. 90248 • 72-02 Fifty-first Ave., Woodside, N.Y. 11377
 In Canada: Magnasonic Canada, Ltd., Toronto, Ontario; Montreal, Quebec; Vancouver, B.C.

Strauss'

DEATH AND TRANSFIGURATION

BETWEEN 1886 and 1890 Richard Strauss was engaged with four large-scale orchestral works at the same time. The first of them to be completed was the four-movement "symphonic fantasy" *Aus Italien*. Next came two symphonic poems with literary sources, *Macbeth* and *Don Juan*. Finally he produced yet another symphonic poem, *Death and Transfiguration*, which also seemed to have a literary inspiration, for a long poem by Alexander Ritter was printed on the flyleaf of the score when the music was published. Only later was it revealed that Strauss' music came first; Ritter wrote his poem apparently as a guide to the events depicted in the music. Ritter was an ardent champion of the musical philosophies of Liszt and Wagner, and it was he who converted the young Strauss to the cause of "program music."

Though it is played without a break, *Death and Transfiguration* falls naturally into four sections: (I) *Largo*, (II) *Allegro molto agitato*, (III) *Meno mosso, ma sempre alla breve*, and (IV) *Moderato*. In a paraphrase of Ritter's running narration of the "action," the four sections can be described as follows:

1. In a dark room, silent except for the ticking of a clock, a dying man has fallen asleep and is dreaming of his childhood.
2. In his dreams he relives the struggle between life and death.
3. The whole parade of life-and-death battles passes by. He remembers childhood, youth, and his strivings during manhood toward goals and ideals still unrealized.
4. In death he attains what had been denied him in life—"World-redemption, world transfiguration."

Strauss himself conducted the first performance of *Death and Transfiguration* at a concert at Eisenach, Germany, in June, 1890, as part of the twenty-seventh Musicians' Convention of the *Allgemeiner Deutscher Musikverein*.

Death and Transfiguration has had its ups and downs with both critics and audiences. Romain Rolland once characterized the score as one of the "most moving works of Strauss . . . constructed with the noblest unity." On the other hand, Hans von Bülow, an early and devoted champion of Strauss, found the work important "in spite of sundry poor passages." In recent years, there has been a decline in the frequency of the score's "live" performances, though nearly a dozen recorded performances are still availa-

ble. More of them are budget-label performances than are full-price versions—and my own favorites are all on budget labels.

Paramount among them is the mono-only performance recorded in January, 1950, about five years before he died, by Wilhelm Furtwängler and the Vienna Philharmonic Orchestra (Seraphim 60094). Not unexpectedly, the metaphysical quality of the score evokes from Furtwängler a performance of unparalleled perception and penetrating insight. He ennobles the score and makes even its *gaucheries* convincing within the overall framework of the structure. The sound, though hardly competitive in today's audio arena, is still serviceable.

Otto Klemperer (Angel S 35976) approaches the music from an orientation similar to Furtwängler's, and although Klemperer deals handsomely with the music, he fails to reach the sublime heights of Furtwängler's interpretation. The product of more recent sonic technology, Klemperer's recording certainly has richer and more impressive reproduction. Among available full-price discs, this is my choice.

PIERRE MONTEUX recorded a performance of *Death and Transfiguration* with the San Francisco Symphony Orchestra in January, 1960, but it was not released until just a few years ago, in RCA's Victrola line (VICS 1457). It is a surging, turbulent performance of a kind quite different from those of Furtwängler and Klemperer, but a thoroughly successful one nonetheless. RCA's recorded sound for Monteux is more vivid than EMI's for either Furtwängler or Klemperer.

Two former conductors of the Cleveland Orchestra, Artur Rodzinski and George Szell, are also represented in the catalog by low-price recordings, Rodzinski on the Seraphim label (60030) and Szell on Odyssey (Y 30313). Their performances are less personalized than those of Furtwängler, Klemperer, and Monteux, but each is a convincing statement of a more direct approach to the music. Szell's received more forward recorded sound. This recording was also among the first reel-to-reel tape releases issued by Epic. It is still listed as available in the latest Harrison Tape Catalog (EC 805), and it is the one I prefer among the three there.



Mr. Bookspan's 1971 UPDATING OF THE BASIC REPERTOIRE is now available in pamphlet form. Send 25¢ to Deane Manning, Stereo Review, 1 Park Avenue, New York, N.Y. 10016 for your copy.



JOHANN SEBASTIAN BACH



J. Lewis Gosling, 1971

A.P. 1/12

"All connoisseurs who seriously explore the musical repertoire, no matter where they begin, eventually find their way back to Bach."

THE MUSIC OF J.S. BACH

What to listen to and what to listen for

By JAMES GOODFRIEND

THE NAME "Bach" has been a good name to musicians at virtually all times in music history. In Thuringia, where Johann Sebastian Bach was born, his family name was not only well known, but almost equated, by the local populace, with the profession of musician—there were *that* many musical Bachs around. Johann Sebastian himself was renowned and appreciated in the Germany of his time, and if his fame was largely local that was due, at least in part, to the rather sedentary life he led. True, he was not considered a master of masters, but that kind of understanding does not usually come from one's contemporaries. After J. S. Bach's death, his name (though not the name Bach, which was revered in the persons of at least two of his sons, Carl Philipp Emanuel and Johann Christian) went into the shadows, from which it was rescued gradually by musicians who had sufficient genius themselves to recognize his. Haydn knew and admired some of his music and so did Mozart. Beethoven knew *The Well-Tempered Clavier* and revered it. Mendelssohn, through his teacher Carl Friedrich Zelter, "re-discovered" Bach and reintroduced him to the larger musical public. In our own century, Bach was the ideal of the neo-Classic movement, and all connoisseurs who seriously explore the musical repertoire, no matter where they begin, eventually find their way back to Bach. Even in today's rock culture, Bach is a good name. Your average fuzz-bass guitarist may never have heard a note of his music (except, perhaps, on the Moog), but the name is still good, untouched by the disagreeable aura that seems, to rock people, to cling to all cultural manifestations that are not of their generation's devising.

To understand Bach properly, or indeed, at all, it is necessary to have *some* idea of where he fits in the history of music. He was not, as Richard Wagner once thought—or, at least, wrote—the creator of German music. German music was alive, well, and flourishing long before J. S. Bach was born, and it might not be too much to say that never before or since that time has the world enjoyed the simultaneous presence of so many capable, often inspired, composers. That situation was also not confined to Germany; there was musical gold to be found in

Austro-Hungary, Italy, France—even in England.

Bach's position was somewhat different. He was, in a very real sense, the summing up of all that had preceded him, all of it raised to new aesthetic and technical heights. Music at the end of the seventeenth century was not a single idiom, but a group of national languages, of which the dominant three were Italian, French, and German. The differences among them were so great that the Italian composer and violinist Arcangelo Corelli found himself incapable of playing a composition in the French style with the more internationally minded Handel because he did not understand the musical language. These differences were not merely those of form and emphasis, but of the very style of writing, notation, and performance. It was Bach's great accomplishment to effect, as the late musicologist Manfred Bukofzer put it, the "fusion of national styles."

Bach was not a musical revolutionary; quite the opposite. The kind of music that preoccupied him for the whole of his life was moribund in most of Europe before he was an old man. He was a staunch conservative in musical style and, in retrospect, he was right. The musical style that grew up while he was still alive and that succeeded to full dominance after his death was one of music's weakest. It was a time—and a style—that turned its back on polyphony and the intellectual aspects of music, became enamored of pretty melodies over the dully repetitive Alberti bass (so named because of the fondness of the eighteenth-century Italian composer Domenico Alberti for a bass line made up of broken chords), and ended by simplifying things so much that one could barely tell the amateur composer from the trained professional. No wonder Bach's death was greeted in many quarters with a sigh of relief. It took a couple of generations before the idea of sonata form gave serious-minded composers something solid to chew on, and new complexities arose that allowed music once again to become a profound matter and to feed the intellect as well as the fancy.

IN nonhistorical terms, which is probably the best way to look at a great composer, we can say that Bach was a composer who worked within a closed



Hans Bach (left), born in 1550, was one of the earliest of the musical Bachs, though his exact relationship to Johann Sebastian is unknown. Johann Ambrosius (center) was J. S. Bach's father, and the greatest Bach himself, as painted in 1750, is at the right.

system of forms, styles, and musical possibilities. He did not invent different kinds of music; he developed, perfected, arranged, and recombined. In Bach's system virtually everything was already given. He inherited fugue, the dance forms, the concerto, the French overture, the Italian sinfonia, the prelude, fantasia, and toccata, the church and chamber sonata, the motet, the cantata, the oratorio, and a body of chorales, melody and text, which were the common working property of all Lutheran church composers.

There are few works of Bach that, in terms of form and medium, did not have antecedents in the music of the previous hundred years. The extended variation form of the "Goldberg" Variations, for example, was preceded by similar works by Buxtehude and possibly others. The orchestral suites were written after French and Frenchified-German models, such as those by J. K. F. Fischer. The solo violin sonatas were antedated by a passacaglia for solo violin by H. I. F. Biber. The Brandenburg Concertos were adaptations of the Italian concerto grosso. The keyboard suites, organ preludes, fantasias, and toccatas were all, as forms, in common use. Even *The Well-Tempered Clavier* had its predecessors: a set of suites by Pachelbel and the *Ariadne Musica* of Fischer. Only the pieces for unaccompanied cello and the Inventions for clavier call to mind no similar works prior to Bach.

And, it must be emphasized, Bach used these given forms essentially as they were. What he accomplished was the internal perfection of each of them, and the interpenetration of forms and media. About the former, it is sufficient to say that probably never before (or since) had a contrapuntal genius the equal of his existed. He brought to everything he touched an understanding of the inherent possibilities, a maximum use of the potentialities of the material, that was so much greater than that of his predecessors

and contemporaries that the majority of the latter did not even understand what he was doing. As examples of the latter, one may cite Bach's adaptation of the French overture, essentially an orchestral form, to the harpsichord (Partita No. 4 in D Major, BWV 828; Partita in B Minor, BWV 831), and even to the sacred cantata (Cantatas 61 and 119); his adaptation of the concerto grosso to the solo harpsichord (*Italian Concerto*); his trio sonatas for organ solo; and his reorchestrated transfer of whole movements for secular concertos to sacred cantatas. Bach used fugue and dance rhythms in virtually all media, and continually found aspects of composition that could profitably be transferred from one medium to another. What it all amounted to was a virtual exhaustion of the musical possibilities that he had inherited and that, taken together, constituted the music of the high Baroque.

WHY do we listen to Bach today—and how? That is a complex question. Obviously, we are happy to listen to the music of any great composer, and Bach is assuredly a great composer. But the particulars of the situation demand explanation. Most of the composers whose music makes up the standard performed and recorded repertoire are products of the later eighteenth and nineteenth centuries, which is to say that their music shares, to a greater or lesser degree, the characteristic texture of accompanied melody. The man who has just recently come to classical music through, let us say, Rimsky-Korsakov's *Scheherazade* has no more notion of polyphony (for there is none in *Scheherazade*) than a tenth-century man whose musical experience has been limited to unaccompanied chant. Of course, there is polyphony in the music of Haydn, Mozart, Beethoven, and Brahms. But the difference is a great one: in Mozart, polyphony is a device to be used at such times as the

composer determines; in Bach, polyphony is *the entire fabric of the music*. Standing, as he does, at the close of the great polyphonic period of music, Bach, who was for his contemporaries no door to the future, is very much our door to the past. In listening to Bach today, then, we must listen in a different way than we do to the composers who succeeded him. This "polyphonic listening," paying nearly equal attention to two or three or even four things going on simultaneously, may seem strange and difficult to those who have never done it (and, conversely, the very mention of it may seem elementary to those who have long ago mastered it), but it is the vital, necessary heart of *any* sort of appreciation of Bach's genius, and, of course, the key to the accomplishments of his contemporaries and predecessors.

We listen to Bach today because he was probably the greatest master of polyphonic writing the world has ever known. We listen to him for the characteristic pungency of his fugue subjects and the brilliance and excitement of their realization and development. We listen to him for his flowing, lyrical melodies and his always fascinating and often moving contrapuntal weaving of the melodies and counter-melodies into a harmonic and satisfying whole. We listen to him for his daring flights of virtuoso writing and for his imaginative painting in pure instrumental colors. We listen to him for his religious interpretations, his musical commentaries on religious texts, and his striking musical portrayals of religious referents. We listen to him for his concentration and pithiness, for his seriousness, his ingenuity, and his sense of humor. And so much more.

How we listen to Bach is a problem more of our own circumstances than of his. We must, for example, learn to accept the instrumental sounds of the eighteenth century: the small orchestra, the high trumpets, the Baroque organ, the harpsichord, the clavichord. Bach (late in his life, to be sure) knew the piano, but it does not follow from that that we

BWV

ANYONE who intends to talk Bach (or even to talk back to someone else who is talking Bach) might as well familiarize himself right from the start with at least one small and easily wielded tool of musicology. Bach wrote a lot of music, a lot of it in the same forms and for the same instruments. It is often not sufficient merely to indicate the piece you mean by key signature alone, and that is why you will almost always find, in references to Bach's music, the codes BWV or S, followed by a number, as well. Very simple: BWV means *Bach Werke Verzeichnis*, German for *Catalog of the Works of Bach*, and S refers to Wolfgang Schmieder, who compiled it. The number (either one) corresponds to the number of the work in the Schmieder catalog. Don't hesitate to use them yourself: that way, even though you may not know *what* you are talking about, you will at least know *which*.

may listen to his keyboard works *exclusively* on the piano; the special characteristics of the other keyboards are too intrinsically a part of his music. And we must scale down our hearing (our ears have been stretched by too much sound) to hear his music in proper sonic perspective.

We must scale down our hearing temporally too. A chorale prelude or a prelude and fugue are, for Bach, complete, intensely concentrated works, and nothing could be more preposterous than to listen to the six *English Suites* or the forty-eight preludes and fugues at one sitting as if each of the six or the forty-eight were merely a movement of a larger, all-encompassing work. Bach demands concentrated listening. We cannot, as with many a later, longer work, turn our thoughts elsewhere with the idea that the music will, at the crucial point, call attention to itself and pull us out of our reverie. With Bach, if you haven't heard the whole thing, you've missed it.

A more severe problem arises from the fact that we, as an audience, do not have the same religious and musical background as a Leipzig church congregation of 1740. We do not know the chorale melodies and texts by heart. We do not immediately understand the religious referents, nor are we in any position to hear, without some guidance, a bit of religious musical symbolism—for example, the continual use of a drop of a seventh in the bass of the chorale prelude *Durch Adams Fall* (*Through Adam's Fall*, BWV 635). That drop is not in there for musical reasons (though music is made out of it), but for religious reasons: it is a musical symbol of the Fall itself. Though Bach did not make use of religious symbolism in all his sacred works, he did in a great many. It is not impossible to appreciate such works without knowledge of the symbolism, but we should be aware that it may well be there, and what seems inexplicable from the point of view of pure music may have a simple extra-musical explanation.

THE most common method of approaching a composer's work as a whole, probably deriving from Beethoven studies, has been to divide it into periods, and Bach's music has been so divided by several different commentators. Bukofzer delineates five periods, corresponding, in the main, to the place and circumstances of Bach's employment: an early apprentice period when Bach was organist at Arnstadt and Mühlhausen; a period of religious and organ composition at Weimar; a period of secular instrumental composition at Cöthen, as *Kapellmeister* to the Archduke there; a return to religious works, especially large-scale vocal ones, as cantor of St. Thomas' in Leipzig, a time that also produced certain secular works; and a period corresponding to the last five

years of Bach's life, in which he wrote such major extended works as *The Art of Fugue* and *The Musical Offering*.

This is a convenient way to break things down, but it tells us little about Bach's music except the externals. Bach wrote cantatas in Leipzig because his position demanded them; he wrote no religious music at Cöthen because his employer was a member of the reformed church, which limited the musical content of church services to an occasional pious hymn, but that same employer required secular instrumental music for his entertainment. Of Bach's musical development, of his (as in Beethoven) "spiritual" development, these "periods" tell us nothing. There is an early Bach style: it is characterized by a great fecundity of ideas rather than the economical use of a few, a looseness and lengthiness of structure, and the occasional obvious influence of another composer. But that's *all* it is—an early style. Once Bach matured (which he did at Weimar, if not before), his development is by no means easy to spot. Many of his works are undated on the manuscript, and scholarship has often moved their estimated date of composition backwards or forwards ten or a dozen years, and then, perhaps, reversed itself later on. The point is that Bach reached a plane of mastery relatively early in his compositional career and simply remained on it, inventing different problems and solving them with relatively equal ease throughout the rest of his life. It is almost impossible, on internal evidence alone, to assign a given work to a given point in his development. Beethoven was speaking of relative importance when he said that Bach's name should not be *Bach* (brook) but *Meer* (ocean). But the remark is true also in the sense that a brook is the continuous process of *becoming* something else, and an ocean is simply *there*, in all its vastness.

If the usual entry to Beethoven's musical world is through the massive portals of one of his middle-period masterpieces, most people seem first to approach Bach through a side door. It is exceedingly doubtful today that anyone would be *first* overwhelmed by the Mass in B Minor, for instance, and from that go on to explore the rest of Bach; probably he wouldn't even make it through the *Kyrie* of that work. More likely, one has first tasted Bach in a watered-down form: an unidiomatic, bloated transcription for orchestra, a drier, more classically objective transcription for strings, an attractive-sounding transcription for guitar. A few have of late come to Bach through the medium of the Moog, but most of them have stopped right there and, in a classic case of mistaking the lees for the wine, have listened no more to Bach, but follow the Moog instead, wherever its errant patch-cords lead. Those who have found Bach

directly have almost invariably done so through the Brandenburg Concertos, masterpieces unquestionably, but by no means the whole of the composer.

WELL, leaving the Brandenburgs aside, where *should* one begin the exploration of Bach? It is tempting to be pedagogical and recommend some piece that will offer, say, pure three-part counterpoint, unencumbered by texts, orchestral colorations, continuos, dance references, or even fugue. Such a piece would accustom one to polyphony with a minimum of fuss, and make one understand right away that harmony in Bach, while it is certainly part of the game plan, is always realized by the coming together of two or more independent melodic lines, and is not to be found except as a *result* of such counterpoint. Such pieces do exist. One of them is the Trio Sonata No. 5 for organ (BWV 529), and besides satisfying all the above requirements, it is a little gem of a piece, quite progressive in feeling.

A somewhat different choice might well be the famous chorale prelude, also for organ, *Wachet auf!* (*Sleepers Awake*, BWV 645). It too offers pure three-part counterpoint, but it also calls into play another aspect of Bach: the religious referential aspect. For Bach himself told his students that they must play such chorale preludes in accordance with the words and meaning of the chorale, even though no words are sounded (the prelude is a purely instrumental work). Bach's scores have few playing directions; the interpretation (tempo, dynamics, register, articulation) is left to the informed discretion of the performer. What the performer (and the informed listener) must know, then, is the chorale text, and, in the case of many of the chorale preludes, which *verse* of the chorale text the composer meant his prelude to represent or comment on. In the case of *Wachet auf!*, which is one of the six Schübler Chorales, the appropriate verse is not that of the title, with its urgent message, but the *second* verse, which begins, "Zion hears the watchman calling; and on her heart deep joy is falling. She waits and watches. . . ." It is far from a "wake-up" mood. The Schübler Chorales are all transcriptions, by Bach himself, of vocal movements from his cantatas, and the music of the chorale-prelude *Wachet auf!* is the same as that sung in the fourth movement of the cantata *Wachet auf!*, BWV 140. A performance, then, that attempts to instill a mood of urgency into the music is highly suspect. This gives some idea of the fascinating complexities in Bach's music which can be explored by those interested in them. Of course, it is possible to enjoy *Wachet auf!* without knowing anything about it, but the reader should be aware that there *is* something there to explore, should he wish to.

AN INTRODUCTORY SELECTION OF BACH CANTATAS

Almost everything that is Bach can be found in the cantatas

The Thomasschule and Thomaskirche in Leipzig, for whose use Bach composed the greater part of his sacred cantatas. It was his job to write, rehearse, and perform a different cantata each week.

● *Christ lag in Todesbanden* (*Christ lay in death's dark prison*, BWV 4). Probably an early work, but of masterly craftsmanship, it is a strict chorale cantata, meaning that each of the seven stanzas of Luther's Easter Hymn is set, and each setting is a variation of the same chorale melody. There are no recitatives and no arias, but the contrapuntal ideas are astonishing and the emotional intensity powerful.

● *Liebster Gott, wann werd' ich sterben* (*Dearest God, when wilt Thou call me*, BWV 8). The subject is death (as it is in many of the cantatas), but the attitude is anything but a mournful one. The opening chorus of the cantata, one of the lightest, most lilting in the entire Bach repertoire, is striking in its resemblance to the Viennese waltz of over a hundred years later (though it is written in 9/8 time).

● *Jauchzet Gott in allen Landen* (*Praise God in all lands*, BWV 51). This is an enormously exciting cantata for solo soprano with trumpet obbligato, comprising an opening aria, a recitative, a second, more lyrical, aria, a chorale, and a concluding *Allelujah*, the finale a virtuosic workout for the best of sopranos (and the best of trumpeters).

● *Schlage doch, gewünschte Stunde* (*Strike, oh strike, awaited hour*, BWV 53). Another sort of cantata entirely, this single aria for alto solo, strings, and two bells is quietly lyrical and moving, and, if well sung, expressive beyond words.

● *Sie werden aus Saba alle kommen* (*They shall come out of Sheba together*, BWV 65). This is a cantata for the feast of Epiphany and takes as its subject the journey of the Magi to Bethlehem (with more than a hint of comparing it to the soul's journey to God). Its opening chorus, beginning with the rising melody of two horns over the bass, then joined by the violins, then by the voices, entering one by one beginning in the bass with the same rising melody in imitation of one another, is possibly one of the most beautiful in all music.

● *Jesu, der du meine Seele* (*Jesus, who my soul hast rescued*, BWV 78). The work opens with a magnificent chorale-fantasia, but the peak of enchantment is the following soprano and alto duet on the text, "We hasten with feeble but eager footsteps. . . ." Bach's step is very light and dancing, not at all feeble, the organ bounces along like some heavenly calliope, and the vo-

cal duet sounds at times like Dvořák transfigured.

● *Gottes Zeit ist die allerbeste Zeit* (*God's time is the best time*, BWV 106). Also known under the name *Actus Tragicus*, this is another early cantata, literally crammed with musical ideas, religious references, plays on words and on music. For example, in the midst of a fugal chorus the voices sing the words "Du musst sterben" (Thou must die), and as they do, the recorders and gambas play the melody (in counterpoint) of the hymn *Ich hab' mein' Sach' Gott heimgestellt* (I have cast all my cares upon God). The text is not heard, mind you, only the melody, which would, however, have been immediately familiar to a churchgoer of Bach's time, and the words would sound in his mind, producing a moving counterpoint of melody, of text, and of religious ideas. Similarly, in the following duet, the bass sings, "Today shalt thou be with me in Paradise," and at the word "Paradise," the altos enter with the chorale *Mit Fried' und Freud' ich fahr' dahin* (*In peace and joy I now depart*), again in counterpoint to the bass melody, which continues underneath.

● *Wachet auf!* (*Sleepers Awake*, BWV 140). I have mentioned this cantata in connection with the chorale-prelude of the same name. Besides its fourth movement, which is the vocal setting from which the chorale-prelude was drawn, the cantata offers the same melody in two other settings: the opening chorus and the closing chorale. The three are totally dissimilar, except for the connecting melody, and together form an object lesson in the imaginative use of basic material.

● *Phoebus and Pan* (BWV 201). This is, of course, a secular cantata, one in which Bach, in the manner of Wagner in *Die Meistersinger*, got back at one of his critics. It employs (for Bach) a huge orchestra, including flutes, oboes, oboe d'amore, strings, continuo, three trumpets, and timpani, and its opening Chorus of the Winds is exhilarating music.

● *Weichet nur, betrübte Schatten* (*Vanish now, ye winter shadows*, BWV 202). Here we have a secular cantata of another sort, meant for the domestic celebration of a wedding. The cantata is scored for solo soprano and small chamber group, and the sensuousness of its melodies for soprano and oboe sets it apart from most of Bach's other work. Lucky couple, to have begun married life to the accompaniment of such music!

But suppose one wishes the initial exposure to Bach not to teach, but to astonish. Such an introduction might easily come through one of the cantatas—say, *Gott der Herr ist Sonn' und Schild*, BWV 79. It is a piece that I have heard referred to as “Bach’s Ninth Symphony.” It unquestionably captures the listener right from the beginning, with its festive and tumultuous opening *sinfonia*, featuring two horns obbligato, continually climbing into the high register to sound the glory of the Reformation. And the entry of the chorus signals a moment of grandeur on a level with similar moments in Haydn, Beethoven, and Mahler—incredible, the excitement Bach could stir up with no more than a chorus and a small orchestra of flutes, oboes, horns, strings, timpani, and continuo! The work is a superb introduction not only to Bach but to Bach’s cantatas.

It would probably not be an overstatement to say that almost everything of Bach can be found in the cantatas: nearly every musical form and style he had at his disposal, nearly every instrument or combination of instruments, every sort of vocal writing, every type of expression. And what is a cantata? A cantata is a work, usually in several movements, for one or more voices with instrumental accompaniment. Cantatas may be sacred or secular. Bach’s sacred cantatas formed part of the Lutheran church service, and their texts were based on the gospel, or lessons, for the day. Cantatas may have movements of operatic-like recitative and aria, or they may be varied, but strictly controlled, settings of a single hymn. They may employ multiple soloists, a full chorus, and an orchestra with trumpets and timpani, or one solo voice and continuo—or anything in between. They may have extended, purely instrumental opening *sinfonias*, or they may get immediately into the matter at hand. Bach’s sacred cantatas invariably ended with

a simple chorale in which the congregation joined. Cantatas may be great or tiny.

We don’t know how many cantatas Bach wrote. Some estimate the number at about five hundred, about 225 of which have survived. Though one may mourn what is missing, those that exist form an almost matchless treasure to explore, and those that are as yet not on records constitute the largest collection of unrecorded great music currently known. (That fact might be good to remember the next time someone comments that all the worthwhile music has already been recorded and there is nothing left to do.) Bach’s cantatas may have a certain variability in immediate interest, if not in quality, but there is probably not one of them that cannot offer a satisfying repast to a musically hungry man.

Beyond the cantatas lie the great, large-scale works, the Mass in B Minor, the *St. Matthew* and *St. John* Passions, the Christmas Oratorio (actually a cycle of six individual cantatas), and the smaller-scaled Easter Oratorio and *Magnificat*. The last is an easily approached work, tremendously exciting in its rhythmic vigor, the high, screaming trumpets, and the thundering timpani of its choruses. The Easter Oratorio is somewhat similar. The large works, however, though indispensable to any real collection of the music of Johann Sebastian Bach, are things to be worked up to and savored when one has the experience necessary to appreciate their subtleties and their concentration of material over the longer time span.

BACH’s organ works can be divided, like his cantatas, into sacred and secular. A primary difference, again, is that of text: the secular works, of course, have none, but are abstract pieces of purely musical significance; the sacred works are invariably based on some chorale tune, and have reference to the



Bach’s first appointment as organist was at Arnstadt in 1703, and the original keyboard (above) of the organ he played is still in existence. Later, in 1723, he became cantor of the Thomaskirche in Leipzig (right). E. Power Biggs has recently recorded works by Bach on the Thomaskirche organ for Columbia.



words of that chorale, either just in the overall mood of the piece, or sometimes in the specific musical illustration or symbolization of an element of the text. Therefore, though the name Toccata and Fugue tells us only the form and style of the work that bears it, the name *Nun komm', der Heiden Heiland* (*Now come, Saviour of the Gentiles*) tells us something about the emotional content of the work as well.

The forms of the secular works are the standard ones of the day: prelude, fantasy, toccata, fugue, passacaglia, trio or trio sonata, canzona, etc. There is also a set of six concertos transcribed for organ solo by Bach from the orchestral concertos of various composers, including Vivaldi. The listener should be aware that the terms fantasy and toccata, particularly the latter, are indications of virtuoso fireworks rather than forms *per se*.

Apart from the Trio Sonata No. 5 mentioned earlier, a good sampling of the secular organ works would include the massive Passacaglia and Fugue in C Minor (BWV 582), the Toccata, Adagio, and Fugue in C Major (BWV 564), the Toccata and Fugue in D Minor (BWV 565), and the Fantasy and Fugue (one of Bach's most satisfying fugues) in G Minor (BWV 542). It cannot be emphasized too strongly, however, that the only way to really hear these works is as played on a Baroque organ, not in a transcription for piano or symphony orchestra or on a nineteenth-century organ.

The forms of the sacred organ works are all tied to the chorale, and they include the chorale-prelude proper, the chorale fantasy (in which the chorale theme is frequently broken up and subjected to virtuoso treatment almost in the manner of a secular toccata), the chorale fugue (in which the first phrase of the chorale is made to serve as a fugue subject, after which the entire melody is either presented as a counterpoint to the fugue itself or presented phrase by phrase in a series of short fugues), and the chorale variations or chorale partitas (in which the chorale becomes the theme of a set of variations, which may be purely musical reworkings or may involve musical-religious commentary). As examples of these four forms one may cite, for the first, any piece from the *Orgelbüchlein* (BWV 599-644); for the chorale fantasy, the *Fantasia super Komm, heiliger Geist* (BWV 651), in which the chorale tune is presented in the pedal (bass) under the rapidly moving upper voices; for the fugue, *Vom Himmel hoch* (BWV 700), a four-voice fugue with the full chorale melody presented in the pedal part; and for the variations, the *Canonic Variations on Vom Himmel Hoch* (BWV 769), an extraordinarily beautiful and elegantly complex work of Bach's maturity.

As *basic* works in a Bach library, the following

sacred organ works should be included: the *Orgelbüchlein* (BWV 599-644), a collection of forty-six chorale preludes of greatly varying character, almost all of which, however, present the chorale tune in the uppermost voice where it can be easily distinguished by the ear; and the Schübler Chorales (BWV 645-650), six chorale preludes based on cantata movements.

THAT part of Bach's output that is called clavier music was written for the harpsichord, the clavier, the pedal harpsichord, and, to a certain extent, the piano. Which instrument Bach had in mind for which work, however, is frequently not clear, and it is also frequently not to the point. The majority of the works would have been played on whatever keyboard instrument (the word "clavier" encompasses all of them except the organ) was available, the performer getting out of the music whatever he could, considering the strengths and weaknesses of the instrument chosen. All the clavier music is secular, and there is a great deal of it: suites, preludes and fugues, variations, fantasies, toccatas, inventions, solo concertos, etc. It is also exceedingly probable that *The Art of Fugue*, despite the fact that it was published in open score (each voice on a separate staff with no instrumental indications) is a keyboard work, and that the three- and six-part *ricercari* from *The Musical Offering* are also keyboard works possibly composed with the piano in mind.

An exploration of the clavier works might well begin with the *Italian Concerto* (BWV 971), a straightforward and attractive adaptation of the concerto grosso idea to the solo harpsichord, continue with the most dramatic of all the keyboard works, the *Chromatic Fantasy and Fugue* (BWV 903), and go on from there, perhaps, to the *Partitas* (BWV 825-830), suites of dance movements, each suite begun by a prelude in a different style. The *Inventions* are better to play oneself than merely to listen to, and the "Goldberg" Variations, though certainly one of Bach's crowning achievements and not just a work for connoisseurs, is music to listen to when one already knows something about eighteenth-century clavier music. *The Well-Tempered Clavier* is, of course, basic to any Bach collection, but one should investigate it gradually, one prelude and fugue at a time (the "Goldberg" Variations, interestingly, were also probably listened to, in Bach's lifetime, one or two variations at a sitting, and not the entire work together).

Bach's orchestral works include the six Brandenburg Concertos (BWV 1046-1051), the four Suites for Orchestra (BWV 1066-1069), concertos for one and two violins, and those for one, two, three, or

four harpsichords and orchestra. It is not a very large output compared with, say, Vivaldi's, or even with Bach's own output of cantatas, but that fact is simply a reflection of Bach's circumstances: he was, for most of his life, a composer in the employ of a church, and the demand for purely orchestral music from his pen was minimal. Even these works are not completely independent of one another. All three of the violin concertos (A Minor, BWV 1041; E Major, BWV 1042; and D Minor, for Two Violins, BWV 1043) were later reworked into harpsichord concertos (No. 7, No. 3, and the C Minor Concerto for Two Harpsichords, respectively). The sixth of the harpsichord concertos is also a rewrite of the Fourth Brandenburg Concerto, and so on. There are even exchanges between the concertos and the church cantatas. Nevertheless, Bach's orchestral works are still among the greatest such works of his time.

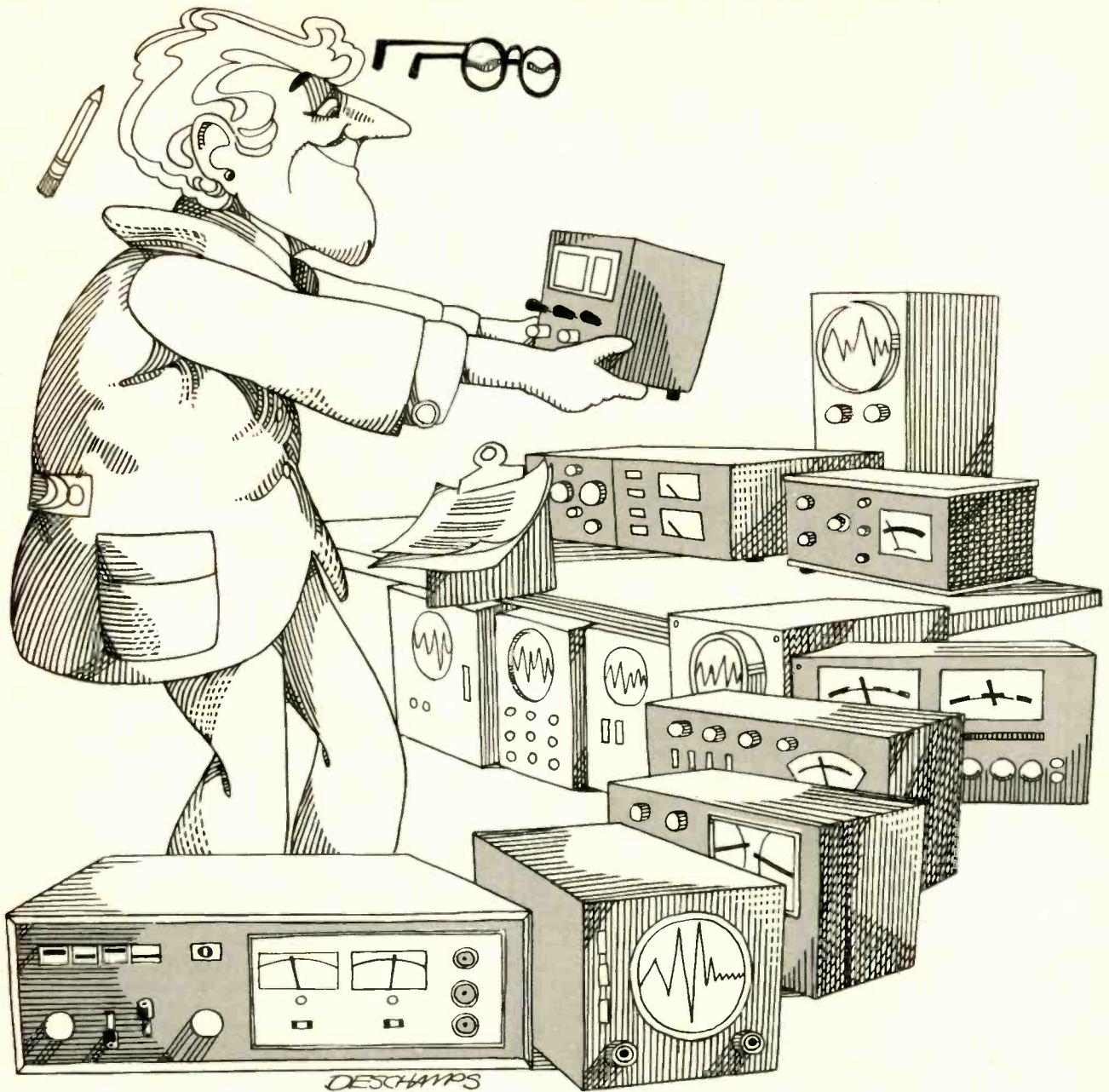
Assuming that one really knows the Brandenburg Concertos, one should first explore the Concerto in E Major for Violin (BWV 1042) and the Concerto for Two Violins (BWV 1043). After that, the Suites, preferably No. 2 (BWV 1067) for solo flute and orchestra, and No. 3 (BWV 1068), with its exciting large-orchestral sounds and the famous *Air* (later known in transcription as the "Air on the G String," which it originally was not). The first of the harpsichord concertos in D Minor (BWV 1052) is the most important, and of the multiple harpsichord concertos, the one in C Major for three harpsichords (BWV 1064) is easily the most immediately attractive, a noble and joyous work.

ONE uses the term "chamber music" in a broad sense with Bach to include not only works for two or more instruments, but pieces for solo violin, cello, or lute as well. There is even a sonata for unaccompanied flute (BWV 1013), and quite a marvelous little work it is, too, considering the limitations of the medium. Bach's important chamber music, though, consists of the six Sonatas for Violin and Clavier (BWV 1014-1019), the Sonatas for Flute and Clavier (BWV 1020, 1030-1035), of which several are no longer believed to be by Bach, the six Sonatas and Partitas for Unaccompanied Violin (BWV 1001-1006), and, perhaps, the six Suites for Unaccompanied Cello (BWV 1007-1012). Of these, the works involving clavier are easily approachable, the Cello Suites less so, and the Violin Sonatas and Partitas least of all. This may seem in almost inverse order to their fame, but there is a reason. Polyphony is the constant fabric of Bach's music, and when the polyphony is explicit it is usually easy enough to hear and assimilate. But polyphony is something that must be *forced* on a solo violin or cello. Neither instrument is constructed for

the presentation of two or three simultaneous melodies, and the idea of writing such music for such an instrument is a very Baroque one indeed. Bach, needless to say, succeeds superbly, but the movement of voices is suggested or implied rather than explicitly stated, and the music relies on the listener to make the connections that the instrument itself cannot. The violin pieces especially are often listened to as backbreaking tests of virtuosity, but that is not really what Bach intended them to be.

In approaching Bach's chamber music, then, one might well begin with one of the Sonatas for Violin and Clavier—No. 3 in E Major (BWV 1016) is a particularly satisfying one, with a marvelous dancing fugue as its second movement. Of the Flute Sonatas, the one in B Minor (BWV 1030) is a hauntingly beautiful work, and it is assuredly by Bach. Then try one of the Cello Suites, and finally the works for unaccompanied violin. The First Sonata (BWV 1001) contains a fugue as the second movement, and the Second Partita (BWV 1004) concludes with the famous *Chaconne*, which needs near-sorcery to bring off successfully. Beyond these four sets of pieces there are many chamber works worth exploring. I mention especially three Sonatas for Viola da gamba and Clavier (BWV 1027-1029), the Suite in E Minor for Lute (BWV 996), and an earlier version of one of the viola da gamba sonatas, the Sonata in G Major for Two Flutes and Clavier (BWV 1039). There is one other very great chamber work of Bach, and that is the Trio Sonata in C Minor that appears as No. 8 of *The Musical Offering*.

The two works of Bach's last years that are often separated from all the rest of his works are *The Musical Offering* and *The Art of Fugue*. Both works were prepared for publication by Bach himself and both were published in open score, *The Art of Fugue* with no indication of instrumentation, *The Musical Offering* indicating flute, violin, and continuo for the Trio Sonata, and only a rare mention of flute, or violin, or two violins elsewhere. They have both been performed in many different ways; string orchestra, string quartet, organ, chamber ensemble, and piano solo have been used either for the whole works or parts of them. But neither work is for beginners in Bach; they should rather be considered ultimate centers of musical gravitation. For, when one has heard, for example, the Six-Part *Ricercare* from *The Musical Offering*, one has heard what is probably the greatest fugue Bach ever wrote, and one of the greatest products of an entire era and style of music. It might not be too much to call it the culmination of the polyphonic era. Bach died three years after it was written, and music after him became quite a different thing.



HIRSCH-HOUCK LABS TESTS

THE NEW NOISE-REDUCTION UNITS

By Julian Hirsch

ALTHOUGH noise-reduction devices have been around almost as long as high-fidelity components (the H. H. Scott three-tube dynamic noise suppressor was available in the early Fifties), they faded from the home audio scene as the improved noise levels of program material made them less and less necessary. However, a number of factors—particularly the need in recording studios to keep noise down through the several tape transfers involved in most recording—have recently brought about a resurgence of interest in the elimination of noise. Things began happening when Ray Dolby developed a sophisticated noise-reduction system for studio recording that was demonstrably better than

anything else available. Henry Kloss, then the "K" in KLH and now the president of Advent, convinced Dolby that his approach should be modified as soon as practicable for use with home recording equipment, thus enabling recordists to use slower tape speeds even for their most critical recordings.

It was not until the cassette explosion, however, that the modified Dolby "B" noise-elimination circuit really came into its own. Suddenly, because of the inherent hiss problem of the slow-speed, narrow-track cassette, noise reduction was big business and

everyone wanted to get into the act. The Dolby products discussed and tested below are the forerunners of the Dolby deluge. The separate Dolby units will probably disappear from the marketplace in four or five years as their facilities are built into stereo receivers and a host of other equipment.

But what about the other noise-reduction devices? For reasons that Larry Klein goes into on page 67 of this report, they also have their place, and we have therefore tested several samples of non-Dolby noise reducers.

The Dolby Noise-Reduction Units

THE Dolby noise-reduction system, in the form of add-on units for use with tape recorders in home music systems, has been on the audio scene over a year now. We have already reported on the first two models to appear: the Advent 100 (October 1970) and the Advocate 101 (March 1971). Since then, other Dolby units have reached the market, and we have tested them for this report. For reference, a current production unit of the Advent 100 was also included in the test program.

The basic principles of the Dolby noise-reduction system have been well publicized. Since all consumer Dolby circuits are built under license from Dolby Laboratories, their operating levels and frequency-response characteristics are closely controlled. As a part of our test procedures, we verified the compatibility and interchangeability of all Dolbyized recordings by measuring the overall record-playback frequency response with the Advent 100 in combination with each of the other units, alternating their recording and playback functions.

If all Dolby units are so much alike in performance, then what differences can one expect to find among the various brands and models already available and others shortly to appear? The main differences are in their operating flexibility, their ease of calibration, ability to handle microphone inputs and mix them with line sources, provision for monitoring from the tape while recording, physical packaging and styling, and, to a slight degree, their internal noise and distortion.

A basic stereo Dolby unit has a pair of identical signal-processing circuits in each of the two channels. The two circuits can be switched to either the record or playback mode, providing high-frequency boost at low levels in rec-

ord and a complementary high-frequency cut during playback. This system of switching the same two circuits from record to playback is perfectly adequate in the case of cassette recorders—and two-head reel-to-reel recorders as well—which lack the ability to record and play back simultaneously for off-the-tape monitoring. Included in this "basic Dolby" category are the Advocate 101 previously mentioned, the Concord DBA-10, and the Teac AN-80, which was not included in this test series.

The more elaborate ("non-basic") Dolby units are the Advent 100 and the Teac AN-180, and they are almost identical in their operating features. (By the time this report appears the Advent 100 will have been superseded by a new model, the 100A, which differs from it in some details.) Both of these units have four separate Dolby circuits and can simultaneously record and play back both channels with Dolby processing. This permits input/output signal comparison by monitoring from the tape with a three-head stereo machine. The units also have tape-monitor switches and microphone preamplifiers with mixing facilities for microphone and line inputs.

With the untested Advocate 101 and Teac AN-80, the two channels can be independently switched to recording or playback modes. This permits simultaneous operation of both functions, and therefore off-the-tape monitoring is possible for mono recordings made on a three-head recorder. These units also have a recording-check switch for off-the-tape stereo monitoring with three-head stereo machines, but the monitor signal does not pass through the Dolby playback circuits and therefore sounds rather "bright." The Concord DBA-10 is similar to these two, but it does not have independent control of the two chan-

Comparative Test Data for Dolby B Units

Make and model	Dolby-level output (millivolts)	Line input for Dolby-level (millivolts)	Maximum playback output* (volts)	Clipping output (volts)	S/N ratio* (dB)	Rec.-play distortion* (per cent)	Rec.-play frequency response** (dB)	Playback level adjust.	Dimensions (inches) w x h x d	Price
Advent 100	425	60 (mike 0.5)	0.87	2.78	67	0.15	±0.5	yes	12 $\frac{1}{2}$ x 5 x 7 $\frac{1}{2}$	\$250.00
Concord DBA-10	560	30	0.55	1.75	60	0.32†	+0.5, -2.5†	yes	13 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 7 $\frac{1}{2}$	\$129.95
Teac AN-50	105	67	0.525	2.10	69	0.15†	+0, -2†	no	5 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 8 $\frac{1}{2}$	\$ 49.50
Teac AN-180	500	82 (mike 0.19)	1.28	2.50	68	0.14	±1	yes	16 $\frac{1}{2}$ x 5 $\frac{1}{2}$ x 11 $\frac{1}{2}$	\$289.50

* Referred to Dolby level (0 dB).

** 20 to 15,000 Hz over a range of 0 to -40 dB, referred to the 400-Hz level.

† Playback only. Unit cannot operate in stereo record and playback simultaneously.

nels' operating modes or recording-check switch facilities.

All of these units have controls and meters for recording and playback-level calibration. Before using a Dolby system, a standard Dolby-level tape or cassette supplied with the unit is played on the recorder with which it is to be used, and the calibration adjustment for each channel is set for a reference meter reading. A standard recording test tone, generated by an oscillator in the Dolby unit, is next recorded on the tape to be used for the final recording, and then it is played back. The object is to get the oscillator-generated test tone that has just been recorded to match the playback level on the test tape. This is done by adjusting the recording-level controls of the tape machine. It is just this standardization that not only makes it possible for the Dolby devices to operate so effectively, but also permits tapes recorded on one Dolby-adapted unit to be played back on any other.

Once the calibration adjustments have been made, they need not be disturbed unless a tape with very different characteristics is used.

The Advent unit has two small meters for calibrating the two channels. The Concord DBA-10 and Teac AN-180 have two much larger meters, similar to those used on many cassette recorders. The Teac AN-80 and Advocate 101 use a single meter with a switch to connect it to either channel.

WHEN recording stereo-FM broadcasts, the presence of the 19-kHz multiplex pilot signal in the tape output of the receiver or tuner presents a potential problem with Dolby units. Although some FM units have this signal filtered out, many do not. Since it is well above the audible range for most people, the 19-kHz signal is usually not noticed, but its presence could inhibit Dolby processing on low-level program material. All consumer Dolby units therefore incorporate very sharply tuned rejection filters to remove the 19-kHz frequency without affecting frequencies below 15,000 Hz. On the Teac AN-50 and AN-80 models, the filter is always in the circuit, but the Advent, Concord, and Teac AN-180 units have switches to disable it. Either arrangement is satisfactory, since in no case do the filters have any audible effect on the signal.

Teac's lowest-cost unit, the AN-50, is generally much like the AN-80 and DBA-10 already described. It is very low in price, and is intended only for use with the Teac A-23 and A-24 cassette decks. It has no metering facilities, no playback-calibration adjustments, and does not come with test tapes. Its input sensitivity is matched to the output levels of the two Teac recorders for which it was designed. Although someone with a few instruments and reasonable technical facility could match it to some other recorders (not all, however, because of signal-level matching problems), Teac emphasizes that its specifications apply only when used with their machines. The recorder's level meters are used to set recording calibration with a test tone which the AN-50 provides. In all other respects, it performs like the other units.

All the Dolby units have bypass switches for recording or playing tapes without Dolby processing. All of them interconnect with the associated amplifier and recorder in the same manner, with two pairs of jacks for connection to the amplifier's tape outputs and inputs, and two more pairs for the recorder's inputs and outputs.

The numerical data from our laboratory tests is presented in the accompanying table for ready comparison. The minor differences between the units' REC CAL voltage out-

puts and PLAY input sensitivities are not significant, since all (except the Teac AN-50) have a wide range of calibration-level adjustments. The low REC CAL output of the AN-50 is presumably compatible with the input requirements of its recommended cassette recorders. All the units had low (and inaudible) noise levels. Our unweighted wide-band measurements gave the worst possible figures. (Practically, the noise levels are better than the figures indicate because of the Fletcher-Munson effect plus the fact that our instruments respond to noise frequencies beyond the range of hearing.) Whenever possible, we measured the frequency response of the Dolby devices by putting a test signal through their RECORD circuits, feeding their outputs to their PLAY inputs, then reading the signal at their PLAY outputs. The calibration adjustments were set for the correct 0-dB meter readings, thus simulating a unity-gain, perfect tape recorder inserted in the signal path. (This is a legitimate technique, since we were interested in the performance of the Dolby units independent of the associated equipment.) In the cases of the Concord DBA-10 and the Teac AN-50, we had to measure record and playback response separately and combine them to derive a composite overall response curve. (None of the curves are shown since the deviations from flat response were not significant in any case.) Distortion measurements were made at the 0-dB level, through both recording and playback circuits, except for the two units mentioned above, on which we measured the playback distortion only.



● IN our tests, the Advent 100 had a frequency response of 20 to 15,000 Hz ± 0.5 dB and 0.15 per cent harmonic distortion at the standard Dolby level (0 dB). The record-playback signal-to-noise ratio was 67 dB for the line inputs. Noise contributed by the Model 100's microphone-input circuits depended to a great extent on the settings of the record-gain controls. At low settings the noise added was negligible. At high settings the signal-to-noise ratio degradation approached 10 dB. Obviously, microphones with a fairly high output would be advantageous for anyone planning to use the Model 100 for live recording.

Though our test was made on the Model 100, it will soon be replaced by the Model 100A. According to Advent, the two are quite similar electrically and physically. The 100A will have a somewhat better input signal-to-noise ratio, lower distortion, less crosstalk, a higher output level, and increased input sensitivity. The most significant change, however, is in the addition of a MODE switch; this will permit Dolbyized FM broadcasts (if and when they become common) to be recorded directly on tape in equalized form at the same time as they are being listened to with normal response. In other words, a Dolbyized signal can be recorded off the air and then be de-Dolbyized in subsequent playbacks, thus virtually wiping out, in one step, not only whatever noise there is in the FM broadcast, but the noise of the home tape recorder as well.

The Model 100A will not have built-in microphone preamplifiers, but will have two line inputs with mixing capabilities. An accessory stereo microphone preamplifier, the MPR-1, intended to plug into one of the line inputs, will be available for another \$20. This is designed to take balanced mike-cable configurations and to be powered by an 18-volt output jack on the Model 100A. We were able to obtain an early sample of the MPR-1 for test, and found that it provided a 6-dB improvement in signal-to-noise ratio over the preamplifiers built into the Model 100.



● THE Concord DBA-10 is a compact device, fitted with walnut end pieces that give it a more finished appearance than the other units, all of which have simple metal dust covers. When its circuits were coupled with those of the

Advent 100, the combined record-playback frequency response had a total variation of less than 3 dB from 20 to 20,000 Hz, effectively demonstrating the compatibility of different Dolby units. The harmonic distortion of the Concord, though slightly higher than that of the others, was negligible. The signal-to-noise ratio was 60 dB.



● WHEN we plotted the record and playback frequency responses of the Teac AN-50 separately, the composite response curve was within +0, -2 dB from 20 to 16,000 Hz (its fixed 19-kHz FM filter cut off sharply above that frequency). In combination with the Advent 100, the response was better than +1, -2 dB over that range, in either mode of operation. Obviously, the low price of the AN-50 was achieved by limiting its flexibility, but not its

Other Noise-Reduction Devices

THE Dolby system is intended to be used both *before and after* the recording (or broadcast) process; it was not designed to remove noise already in the program material. There are other units, however, that were. Kenwood has developed a dynamic filter system which is offered in two models—the KF-6011 and the KF-8011—to attenuate noise from *any* source by as much as 15 dB. Unlike the Dolby system, special processing is not required at the point of recording or broadcast. The Kenwood De-Noisers use a broad “notch” filter (or several of them) whose attenuation (depth of notch) is varied by the level of the incoming signal in the frequency range covered by the notch. At normal program levels, the Kenwoods provide a flat frequency response. At a lower level (which is adjustable but is usually 40 to 50 dB below normal listening volume for best results), the filter begins to attenuate the high frequencies. The attenuation action becomes greater as the average signal level falls. During pauses in the program, when the background noise may normally be 50 to 60 dB below full volume, the de-noisers reduce noise by 10 dB or more.

INTERESTING as the actual measurements on these units were (see the detailed reports that follow), the real proof of their effectiveness was in their audible performance. They did a superb job of totally eliminating barely audible hiss with absolutely no effect on the audible frequency response of the program—with one exception: a solo voice or instrument against a quiet background that had a normally audible hiss level produced a noise “swish” as it came on and turned off the filters. When the program had considerable hiss (a weak stereo FM signal or a bad prerecorded tape, for example), the “swish” or modulation of the noise background became more noticeable. The Kenwood de-noisers are at their best with signals that are reasonably quiet to start with. They can make a good signal

into a superb one (from the standpoint of noise) and a fair one into a pretty good one, but they cannot do much for a really noisy signal without some sacrifice of the high-frequency sounds in the program.

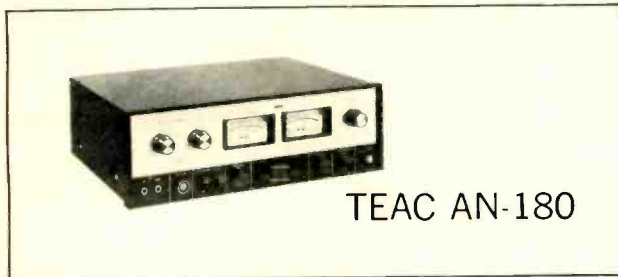
In any event, I would say that for the vast majority of the programs passed through the Kenwood de-noisers in the lab over a period of a couple of months, there was absolutely no hint of the units' action except for a truly total elimination of audible noise. After a period of use, a silent background begins to be accepted as the normal condition—but pressing the DEFEAT button on the de-noiser quickly brings one back to reality!

From a listening standpoint, the KF-6011 and the KF-8011 were about equally effective. The additional flexibility of the KF-8011 gives it a clear advantage in a well-equipped system, particularly if tape recording is to be a part of its duties. Also, by careful adjustment of the various controls of the KF-8011, we were sometimes able to get better quieting of noisy programs with less loss of highs than we experienced with the simpler KF-6011. However, under most conditions, the two Kenwood units sounded exactly alike.



● THE Kenwood KF-6011 has a single rejection filter centered at 7,000 Hz, but it is broad enough to reduce noise

performance. The distortion was close to that of the Advent, and the signal-to-noise ratio was 69 dB.



● THE record-playback response of the AN-180 varied less than 2 dB overall from 20 to 20,000 Hz. Its multiplex filter, when switched in, cut off sharply above 15,000 Hz, with no effect on the lower frequencies. The AN-180, when used with the Advent 100, had less than 2 dB overall variation in response from 20 to 20,000 Hz in either mode of operation. Its distortion was a very low 0.14 per cent at the 0-dB level, through both the recording and the playback electronics, and its signal-to-noise ratio was 68 dB for the line inputs. The AN-180's microphone preamplifiers, like those of the Advent Model 100, varied in their noise contribution with the settings of the recording controls.

substantially in the 4,000 to 15,000-Hz range. A NOISE LEVEL control adjusts the threshold level at which the circuits become operative. When set so that program peaks reach 0 dB on the 6011's meter, the notch action begins between -40 and -50 dB. By moving the slider control, the de-noising threshold can be moved up all the way to normal program levels if desired.

A single switch turns on the power, and in its fully clockwise position bypasses the filter circuits. This provides a most dramatic way to demonstrate the unit's effectiveness. Since the KF-6011, like the Dolby units, goes into the tape-in/tape-out path of an amplifier or receiver, it has four jacks for the regular tape-recorder input and output connections. The KF-6011 input can be switched to the tape-recorder output by a front-panel monitor switch, for "de-noising" the tape playback. If a second tape recorder playback is passed through the amplifier's AUX inputs, programs can be dubbed from it through the KF-6011 to reduce the noise of the final recording. There is also an input-level control, a two-position switch in the rear of the unit. The Kenwood KF-6011 measures 5½ inches wide, 5½ inches high, and 12¾ inches deep; it weighs 6 pounds, 10 ounces. Price: \$79.95.

In our tests, the frequency response of the KF-6011 was almost perfectly flat (± 0.5 dB) from 20 to 20,000 Hz at levels down to -20 dB. It began to show small irregularities at -30 and -40 dB, but was still within ± 2 dB over the full range. At -50 dB the noise-rejection notch suddenly appeared, about 15 dB deep at 7,300 Hz. The same response curve was plotted at -60 dB, but at -70 dB the bottom of the notch was in the background noise level (about -79 dB). The KF-6011 had a gain of 1.0 (a switch in the rear inserts a 10-dB attenuation for use with high-level input sources). The output noise was 76 dB below 1 volt, and distortion was a negligible 0.19 per cent at 1 volt and only 0.28 per cent at the rated 2-volt output.

The Technical Editor comments on

Compatibility and Redundancy

AS is evident from the accompanying reports, all the tested noise-reduction devices perform their assigned tasks with competence. However, it is also evident that the Dolby noise-reduction technique has the jump on its competitors. At present there is a host of "outboard" add-on units available, and we are shortly going to see not only dozens of new Dolbyized tape machines but also Dolbyized receivers (and perhaps tuners and amplifiers) as well.

In light of the above, is there a place for the other noise-reduction systems? Without question, yes! The majority of the other systems are neither competitive with the Dolby system nor made redundant by it. This is true because of the differences in operating principles between the Dolby units and almost all the others. The Dolby system's intended task is to prevent hiss from being added to the program material by the tape-recording, duplication, or broadcast processes. It is *not* designed to eliminate hiss that is already part of the program. On the other hand, some of the other systems will do a great job of removing hiss from noisy tapes or old discs with minimum effect on program frequency-range—something the Dolby system's circuits were not designed to do.

IF the situation seems confused, perhaps a practical example will help clarify matters. Suppose you own some old 78-rpm discs you wish to transfer to cassettes. Assuming you have the equipment available, the purist's way to go about it would be as follows: First feed the noisy signal from the discs to a de-noiser. This would serve to remove most of the disc's surface noise. The output of the de-noiser would then be fed via the Dolby circuit to the cassette recorder to make a Dolbyized tape. The de-noiser at the input would prevent the surface noise of the disc from being recorded, and the Dolby circuits would prevent the cassette machine from adding its own hiss component.

But couldn't the de-noiser be connected to the output of the cassette machine to simultaneously eliminate the disc noise *and* the cassette hiss? Yes, but the Dolby circuits are needed anyway to play commercially prerecorded Dolbyized cassettes, and they will prove superior to any de-noiser system in providing hiss-free recordings of clean wide-range material that does not require de-noising at the outset. It is very difficult, for example, to remove hiss from music recordings when the harmonics of the musical instruments and the hiss are in exactly the same frequency range. The secret of the Dolby's success is its ability to do this by "pretreating" the music before the hiss intrudes. As Julian Hirsch states elsewhere in this article, the Dolby noise-reduction system is the only one that *never* has any detectable deleterious effect on the program. —Larry Klein

KENWOOD KF-8011



● Kenwood's KF-8011 is a much more versatile unit than the 6011, although operating on identical principles. It has four separate switchable notch filters (3,000 to 4,500 Hz, 4,500 to 6,500 Hz, 6,500 to 10,000 Hz, and 10,000 to 15,000 Hz) in each channel. The attenuation action of each filter is separately controlled by the program level in its frequency range. This assures that there will be a minimum loss of high-frequency response in any frequency range carrying program material while noise is being reduced in other high-frequency ranges. Each filter can be switched in or out of the circuit by a pushbutton, and a DEFEAT button eliminates all the filters for an A-B comparison check.

The KF-8011 has an input-level control similar to that of the KF-6011, plus a separate adjustment for the sensitivity of the circuits controlling the filter response. The program levels in the two channels are monitored on large meters. Additional switching on the Kenwood KF-8011 gives it exceptional versatility. Any of four input sources can be selected. A switch puts the de-noiser circuits into the playback path of a tape recorder connected to its rear jacks. Another switch connects the KF-8011 to serve as a recording de-noiser between the amplifier tape outputs and the recorder inputs. This permits reducing the noise in the incoming signal by 6 to 15 dB *before* it is recorded (the actual improvement is an unpredictable function of signal level and frequency content), and then applying a similar additional noise reduction to the playback.

The Kenwood KF-8011 is 16 $\frac{3}{8}$ inches wide x 5 $\frac{1}{8}$ inches high x 11 inches deep (including its walnut end panels), and weighs 13 $\frac{1}{2}$ pounds. Its styling and size match those of the de luxe Kenwood tuners and amplifiers. Price: \$199.95.

The KF-8011, tested with all filters in use, had a very slight ripple in frequency response (which nevertheless remained within ± 1 dB from 20 to 20,000 Hz down to a -30 dB level). At -40 dB the output began to drop between 2,500 Hz and 15,000 Hz. At -50 dB and below the shape of the rejection band could be seen—a broad region from 2,500 to nearly 20,000 Hz and almost 18 dB deep. The KF-8011 operated at any input level from 0.1 volt to 8 volts (it clipped at 8.5 volts). The noise level was 78 dB below 1 volt, with only 0.15 per cent distortion. Distortion remained below 0.24 per cent up to 2 volts output.

WHEN used for noise reduction in a recording or broadcast application, a compressor/expander operates somewhat like the Dolby system, except that it affects all audio frequencies equally. During recording, the compressor is adjusted so that it has unity gain at the maximum recording level, at which point it has no effect on the operation of the system. As the program level drops, the compressor's gain increases automatically, so that low-level signals are recorded at higher-than-normal levels (ideally, always above the recorder's internal noise level).

In playback, the unit is switched to *expand* operation, and placed at the recorder's output circuits. Its gain is adjusted to unity with a 0-dB output from the recorder, so that a full-level signal will have been recorded and played back as though the compressor/expander were not in use. As the program level drops, the expander gain *decreases* in a manner complementary to the compression characteristic. In this way all levels of the playback signal are in their correct relationship, while any noise introduced in the recorder will be reduced by the amount of low-level gain reduction in the expander.



DBX MODEL 117

● THE Model 117 de-noiser unit developed by dbx, Inc., of Harvard, Massachusetts, operates essentially as a "classical" compressor/expander. It is a self-powered unit, and small—5 $\frac{3}{4}$ inches wide, 3 $\frac{3}{4}$ inches high, and 9 inches deep, weighing just over 3 pounds. It is designed to be inserted between preamplifier and power amplifier or in the tape-out/tape-in signal path of an amplifier or receiver. Tape playback from the unit must go through the AUX amplifier inputs, so that off-the-tape monitoring is not possible when using the model 117.

The dbx 117 has input/output characteristics with slopes that can be varied continuously from 0.5 to 2 by means of a single knob marked EXPRESSION. There are calibration marks at 0.5, 0.7, 1.0, 1.4, 1.7, and 2. A setting of 1.0 corresponds to normal operation (no compression or expansion). Values of less than 1.0 are for compression, and between 1.0 and 2 the unit is an expander. A GAIN control adjusts the dbx 117 for unity gain at any signal level from 0.1 to 1 volt. Its dynamic range, over which the calibrated slopes are obtained, is rated at 100 dB.

The only other control on the Model 117 is a response-time switch (NORMAL and SLOW settings). Normally, one wishes rapid response to level changes, but when using the unit for playback expansion or compression (not noise reduction *per se*), some types of program material are reproduced more realistically with a slower response time. The dbx 117 has no power switch, but it draws only 2 watts and can therefore be left on continuously. Price: \$145.

The manufacturer recommends a setting of 0.7 for recording compression. A 10-dB change of input level then results in only a 7-dB change at the output, so that a program with a 50-dB dynamic range can be recorded with a dynamic range of only 35 dB on the tape. In playback, the setting is 1.4, so the 35-dB recorded dynamic range is restored to its original 50 dB. In the process, however, noise originating within the recorder is attenuated by 15 dB during playback.

In our laboratory measurements, the input/output slopes were approximately correct at all calibrated points. The output clipped at 10 volts. Frequency response, which was not affected by the degree of expansion or compression, was down 0.5 dB at 20 Hz and 2 dB at 20,000 Hz. The 1,000-Hz harmonic distortion was under 0.05 per

cent at a 1-volt output for all settings of the EXPRESSION control. For a 20-Hz test signal at various settings of the control, harmonic distortion was 0.05 per cent at 1, 0.6 per cent at 1.4, and 1 per cent at 0.7. The output noise, as would be expected, varied widely with control settings. At 0.7, it was 56 dB below 1 volt, improving to -69 dB at the 1.0 setting. In any expanded condition, the noise was unmeasurably low—better than -80 dB. The response time at 0.7 compression was about 10 milliseconds from the start of a tone burst until its level had been reduced by half. At a 1.4 expansion, the response time was roughly the same.

Operating as a compressor/expander, the dbx 117 provided the claimed noise reduction, which is typically 15 to 20 dB. When the recording and playback slopes complemented each other exactly, the action of the unit was undetectable to the ear. However, there is some amount of uncertainty in setting the EXPRESSION control, and when the expansion slope is not the exact reciprocal of the compression slope, it is occasionally possible to hear a slight "breathing" of the background noise level. Furthermore, it should be noted that the dbx 117 has no meters for the proper calibration and matching of input levels to tape-playback levels. The best results, in our use tests, were obtained by precisely adjusting the expansion setting by

ear for minimum audible effect. It was frequently possible to achieve completely undetectable compression/expansion in this manner, with an impressive noise reduction.

It was somewhat inconvenient, when using the Model 117, to lose the off-the-tape monitoring facilities of the tape recorder, and to have to switch to the AUX input in order to listen to tapes. Of course, with cassette recorders this is no problem since they have no monitoring capability and can just as conveniently be connected to the AUX input of the amplifier for playback.

The Model 117 is equally useful as an adjunct to most listening, to compress the dynamic range for background music, or to expand it for adding a little "punch" to broadcast and recorded programs, which are usually somewhat compressed to begin with. As the EXPRESSION control is rotated in the direction of expansion, the background noise drops out impressively (expansion is the equivalent of turning down the volume control during pauses or low-level passages). This must be done in moderation to avoid an unnatural "surging" as the program dynamics vary. We found control settings between 1.0 and 1.4 to be very satisfactory with most music. No difference was detected when using the SLOW mode of operation, but this may have been due to limitations in the program material.

Summary of Tests

THE music lover today has a considerable range of choice in noise-reducing "add-on" units. None is perfect or even ideal for all applications, but all those tested for this report proved to be very effective within their basic design limitations.

For tape-recording noise reduction, the Dolby systems are (in our view) the most satisfactory. They are the only ones whose noise-reducing action *never* affects the program dynamics of frequency response in any audible way. Furthermore, the Dolby system has the most universal acceptance. Many commercially recorded cassettes are now being Dolby processed, and FM broadcasts may soon follow suit.

The microphone preamplifiers of the Advent 100 and Teac AN-180 added a measurable (and sometimes audible) amount of noise when operated at high gain. Since the noise originates before the Dolby circuits, it is not diminished by their action. At maximum microphone gain, the Advent noise level increased by about 10 dB; the noise of the Teac AN-180 rose 21 dB under the same conditions. However, the microphone gain of the Teac unit is about 2.5 times higher than that of the Advent, and when they are set for approximately equal gain, the Teac's noise increase was only about 8 dB.

For reducing noise on programs that have not been Dolby processed, the Kenwood de-noisers are highly effective. When properly adjusted, their action can seldom be detected, and then only by listening critically. Their ability to reduce noise on programs before they reach the tape recorder, as well as

afterward during playback, is especially worthwhile.

Since their operating characteristics—frequency response vs. level—resemble in a general way the action of a Dolby playback circuit, we tried the Kenwood units with some Dolbyized cassettes. To our pleased surprise, they could be adjusted so that an A-B switching comparison against a Dolby playback gave very good results. This required that the Kenwood unit be operated with its filter threshold just below normal listening levels, instead of its normal operation at -40 to -50 dB, since the Dolby system has an appreciable effect on frequency response at -20 dB. The de-noiser control range is adequate for this, and the final results were, to our ears, highly satisfactory. Although the overall frequency response of the Dolby-Kenwood combination, at low levels, was by no means flat (it *is* flat at normal listening levels), the 5 to 8 dB of variation at high frequencies occurred at such low levels that it could not readily be detected by ear. Thus, the Kenwood will do a very good but not precise job as a playback equalizer for Dolbyized tapes.

The dbx 117, although it is a highly effective noise reducer (unlike the others, it removes hum and rumble as well as hiss), is less convenient to use than the other systems. It is also, of course, not at all compatible with Dolby "stretched" programs as a playback device. On the other hand, its compression and expansion provide a degree of control over program dynamics not otherwise available to the music listener, and at reasonable cost.

Gwendolyn Killebrew

*"I'm a clean liver...
and do put that in!"*

By ROBERT CONNOLLY

WHEN the program for the fall season of the New York City Opera Company was announced, the roster included for the first time the name of Gwendolyn Killebrew. Although it may call to mind the heroine of an Oscar Wilde comedy, it is also suitably euphonious for a rising young opera and concert singer, which is what Miss Killebrew, a mezzo-soprano, happens to be. Since 1967 she has sung small roles at the Metropolitan in such operas as *Die Walküre*, *Parisfal*, and *Elektra*, but in the last year or so she has appeared more prominently and with increasing frequency elsewhere. Her operatic performances, especially in *Carmen*, have been acclaimed throughout Germany, Austria, and the United States, as have her recitals and engagements with symphony orchestras. This spring she sang the role of Ursula in scenes from Berlioz's rarely heard *Béatrice et Bénédicte* at Philharmonic Hall, with the New York Philharmonic under Pierre Boulez, winning praise for her bright, forward sound and her excellent French. It is records, however, that most quickly bring an artist fame these days, and Miss Killebrew made her recording debut this year in the title role of Handel's opera *Tamerlano* in the complete version issued by Cambridge Records. In this magazine's review of the discs, Bernard Jacobson spoke of her "force and authority of expression" and said, "... the bite of her diction and the clarity of her articulation suggest that she has outgrown the prodigy stage and is now in the process of becoming an artist of real substance."

Miss Killebrew lives in New York in a well-kept apartment building overlooking Central Park, and prior to her debut with the New York City Opera she agreed to be interviewed at home. Wearing a modified miniskirt, high white boots, and no makeup, she answered the door, smiling and displaying no diva mannerisms, and ushered me



into her small living room, which was crammed full of books, records, and scores. Her roommate, Janet Wagner, also a rising young mezzo-soprano and a friend from student days at the Juilliard School, was banished from the living room for the duration of the interview.

Sitting at the dining table, Miss Killebrew offered me a cup of excellent tea and health-food chocolate-chip cookies. "There are no carbohydrates in them, but these bits of chocolate *do* taste real, not like soybean chocolate. I might be able to find a shot of scotch to put in your tea, but that's all the liquor I have." She said that she had only recently been converted to health foods, explaining that they contribute to physical stamina, which is absolutely essential to a singer. "I haven't drunk since I started this health kick, and I don't smoke. I'm really a clean liver, and do put that in—my mother will love it."

Her speaking voice is warm and seductive, and as she talks of her student years and early career she uses her beautifully formed hands as expressively as Pearl Bailey or Magda Olivero. Hers is not one of the commonplace tales of long years of struggle, sacrifice, and heartbreak that young singers endure before the big break comes. Everything seems to have fallen into place quickly for her and without any particular struggle. Born in Philadelphia into a musical family, she began to study piano at the age of five and continued for seventeen years, adding, as she went, the organ, the French horn, and the violin. What was her first exposure to singing? "Church. My mother took me to church from the time I could walk. I joined the choir and sang every Sunday, and it wasn't long before I was singing solos."

At the age of eighteen she enrolled at Temple University. Its famous choir and its opera theater, of which she quickly became a leading member, gave her ample oppor-

tunity to develop her talents. She then went for further study to the Juilliard School in New York. In 1966 she was awarded the gold medal at the International Singing Contest of Belgium and the Metropolitan Opera National Council's Virginia M. Stoughton Award, and a year later she was a winner in the International Music Competition in Montreal. In all this time she has had only three voice teachers: James Bostwick, in Philadelphia; Else Fink, at Temple; and Hans Heinz, of the Juilliard School, with whom she still studies. "I am one of the fortunate few whose teachers' methods did not contradict each other," she says. "Does it sound as if it's all come easy? That's because you've just met me. It's really been a long, slow process, with people always telling me to be patient."

Not a great deal of patience can have been required, for her student showcase performances at Juilliard (Mahler's *Kindertotenlieder*, Haydn's *Paukenmesse*, and leading roles in *The Magic Flute*, *Albert Herring*, *Madama Butterfly*, and Stravinsky's *Mavra*) were an easy transition to fully professional engagements. She has sung opera in such cities as Hartford, Conn. (*Die Walküre*), Boston (*The Marriage of Figaro*), Providence, R. I. (*Carmen*), and St. Paul, Minn. (*The Rape of Lucretia*), and has appeared with symphony orchestras from coast to coast, most frequently in the Verdi Requiem, Mahler's Second Symphony, and Beethoven's Ninth. She speaks enthusiastically of first-rate American orchestras and feels that more recognition should be given to a number of them which are of surprisingly high quality but are not sufficiently appreciated. "I would single out in particular the Erie, Pa., orchestra under John Gosling, the Youngstown, Ohio, orchestra under Franz Biebo, and, in larger cities, the orchestras of St. Louis under Walter Susskind, Milwaukee under Kenneth Schermerhorn, and Seattle under Milton Katims."

Miss Killebrew is an intelligent, well-balanced, self-assured young lady, articulate and opinionated, with a lifetime of study to back up her self-confidence. It surprised her when Brussels music critics, after a concert, mentioned her excellent French. "I mean, why shouldn't it be excellent? It had never occurred to me that it was anything else." She is unflappable where critics are concerned. Some reviewers were less impressed with her work in *Tamerlano* than this magazine's critic, and glancing over an unfavorable review she commented, unruffled, "That's his opinion and he's entitled to it. Who is this reviewer? Oh, yes, he wanted to be technical adviser on the recording, and they chose someone else!"

She is a partisan of contemporary opera and hopes that Goeran Gentelø will program more of it at the Metropolitan. "If the works are well-staged and well-sung, I'm sure there are three thousand people in this city who will turn out to see an opera by Henze or Blacher. You may have to change the Met audience a bit—get some young faces in there instead of all those old tired types." Her enthusiasm for Pierre Boulez, the new conductor of the N. Y. Philharmonic, is boundless. "I hope New York reacts positively to him, because we're ready for a man of his caliber. I've been impressed by the works he programs, by his performance as a conductor, and the level of playing he commands from the musicians. He is a great performer without being at all a show-off. And his help to singers! He shapes the phrase, and still thinks about giving you time to breathe."

She has no favorite composers and says, "My favorite role is the one I'm working on, but one day I would like to sing Rosina in *The Barber of Seville*. This would mean that the public would have to accept cadenzas which don't

venture into the range of the coloratura soprano but into the high range of the contralto." Since the current roster of the Metropolitan Opera lists two dozen mezzo-sopranos, but not one contralto, is the true contralto extinct? "Not at all. It's a matter of economics. If you call yourself a contralto, you get fewer engagements. So you call yourself a mezzo and get more parts."

Asked if her European engagements had been arranged by her American managers, she said, "No, in 1970 I just went over and sang auditions, and I was hired." She sang *Carmen*, Amneris in *Aida*, and Ulrica in *Ballo in Maschera* in Detmold, throughout Westphalia, and in Klagenfurt, Austria, totalling more than twenty-five performances of *Carmen* in Germany alone.

She was impressed by German opera houses, particularly by the high level of orchestral playing, even in small provincial houses, and the ample rehearsal time. She attributes the popularity of opera in Germany to the fact that everything is performed in German. "Such opera singers as Anneliese Rothenberger and Hermann Prey are beloved by the German public. They appear regularly on television, issue an enormous number of records, and are mobbed on the streets. But Mario Lanza was the last classical singer whose name meant anything to the mass public in the United States."

She points out, however, that American audiences are generally responsive to opera. "But I believe its popularity here would be greatly enhanced by the use of good modern translations into English. After all, the man in the street wants to know what's going on and what the character is singing about." She also thinks that interest in opera would be increased by greater use of good young American singers and fewer second-string European imports.

MISS Killebrew absolutely denies that a European singer, being born into a particular tradition, can give a more convincing operatic performance than an American. "Not at all! That is simply not true. My *Carmen* was a great success in Germany, and nobody seemed to mind my not being French. American singers are better than German singers. We have better schools and better teachers. Even they admit it."

Any doubts about Miss Killebrew's ability to deliver a convincing performance would have been dispelled by hearing her as Ulrica at the New York City Opera. She made a star turn out of a role that is often drab even in the hands of more experienced singers. The *New York Times* described her conception of the part as "taut and genuinely compelling." Her voice had a more luscious sound than in the Handel recording, with rich low notes, clear high ones, and power to spare. She revealed superior acting ability, and an electric current of excitement surged through everything she sang.

After the last of her fall performances of *Ballo*, there was no time for her to relish the audience's bravos, for she had to leave the theater immediately and rush to the airport to fly to Germany and begin rehearsals for her most important European engagement to date, her debut in Munich at the Theater am Gärtnerplatz in *Carmen*. She will return for the spring season of the New York City Opera and then go back to Germany for performances in Lübeck. "Please don't call me a jet-age prima donna," she said. "An international singer perhaps. I hate this kind of split-second scheduling, and I will stop it as soon as I can, but at this point in a career . . . well, the contracts are offered, and you have to take the opportunities as they come."



Seen by night from the entrance driveway, the white marble bulk of the Kennedy Center achieves a certain monumentality.

Music Editor James Goodfriend reports on the **OPENING OF THE KENNEDY CENTER**

ONE NEED NOT be a professionally qualified critic of architecture to see that the new John F. Kennedy Center for the Performing Arts in Washington, D.C., is an ugly building. It sits on the banks of the Potomac looking, in all its externals, like a white marble apotheosis of the American warehouse, huge and boring. Internally, its two transverse corridors, hung with flags, provide the ambience of a commercial world's fair, and its "grand foyer," stretching the full length of the building, is more notable for the quantity of humanity it can hold than for any elegance of decor. The huge bronze head of John Kennedy, placed off center in the foyer, resembles the late president only from certain specific angles. And though there are elevators that will take one to the roof (where the restaurants are situated), those who hold tickets for the second tier are invited to climb three flights of stairs. There are enough things wrong, in short, that a number of them are easily visible even to the untrained eye.

But one does not have to be a professional music critic, either, to understand that Washington badly

needed a performing arts center, and that this one, despite its homely appearance, will most likely suffice. The Eisenhower Theatre has not yet been opened, nor has the film theatre that will sit on top of it (all four halls are contained in the one building). But the opera house seems, at the least, adequate in terms of facilities, seating, and acoustics, and the concert hall, more pleasing in appearance than any other part of the center thus far seen, is both comfortable and undeniably satisfying in its acoustics. In terms of intended function, then, if not form, the center must be declared a success. The architect was Edward Durell Stone.

The opera house, whose shape is somewhat like that of a partially opened fan, seats about 2,300 people, considerably fewer than the larger American opera houses (New York, Chicago, San Francisco), but more than most European houses (Vienna, Berlin, Bayreuth, Paris). Its walls are covered with red fabric (which has already started to look soiled in places), punctuated with rows of gold-colored buttons. The effect is something like a candy box, or a

hat box, or a jewelry box . . . I can't quite place it, but it is essentially box-like. Overhead, the central chandelier, a gift, as was the Metropolitan Opera's, of the government of Austria, is a free form of crystal and brass, attractive in its way but by no means as elegant as the Metropolitan's. The seats of the house are comfortable, and access, once the public learns the location of all the doors, should be relatively easy.

Both because of the special nature of the music heard and the location of the seats supplied to me (once in the first tier, once in the orchestra close to the stage and well over to one side), I found the acoustics difficult to judge. One thing is certain: whatever is on the stage projects strongly into the hall. The questions I have concern the orchestra in the pit, whose projection may be more upward than outward. If true, this would mean a house in which the singers overbalance the orchestra, something of a novelty in opera houses and perhaps not entirely undesirable for much of the repertoire.

The concert hall's decor is cream-color and gold, its ceiling a plane of recessed hexagons, its lighting largely from chandeliers designed as hexagonal masses of single, cylinder-shaped units. It is quite different in styling from the rest of the center. The hall is rectangular, longer by about half than it is wide. It seats nearly 2,800 people, almost two thirds of them in the orchestra, since the boxes and first and second tiers are only narrow projections along both sides of the house, deepening to a maximum of six rows at the rear. The rather attractive pipes of an organ (not yet completely installed) form the backdrop of the stage, which itself seems to be very much *in* the hall rather than opening off it. In acoustic ambiance the hall is on the dry side, but not unpleasantly so. The sound is exceedingly and unusually clear and open, and tends slightly toward the brilliant. There is ample bass to be heard, and the balances among different instrumental and vocal groupings seem exceedingly just. Perhaps the brasses and percussion predominate a trifle, but taking them off the risers they were on for the opening concert may well remedy that. In all, it is acoustically a very fine hall, certainly one of the best in the United States, and worthy of comparison with the best I have heard anywhere.

THE official opening night of the Kennedy Center was September 8, the location the opera house, and the work the world premiere performance of Leonard Bernstein's *Mass*, "a Theatre Piece for Singers, Players and Dancers," written for the occasion at the request of President Kennedy's widow. Maurice Peress was the conductor, the choreography was by Alvin Ailey (featuring his American Dance Theatre),

and the production was directed by Gordon Davidson. Mr. Bernstein took his text from the Latin Mass but mixed with it additional texts written by himself and the young lyricist Stephen Schwartz. The performing forces (besides the dancers) included full symphony orchestra, mixed chorus, boys' choir, a brass and reed band, a rock combo, a blues combo, a principal soloist (Alan Titus) in the role of the Celebrant of the Mass, numerous other vocal soloists, and prerecorded tape material involving both instruments and additional vocalists. One might say of the production that it was semi-staged: there were costumes and some action, but no scenery except a single white stairway-like platform rising toward the rear and ending in space.

It is difficult to give a précis of the work, particularly since neither scores nor librettos were available and the familiar Latin text alternated with unfamiliar English and, at moments, Hebrew. Roughly, the "plot" is as follows: after an opening *Kyrie*, prerecorded and multiple-channel both in material and in medium, the baritone soloist appears as a simple folk singer with (electrified) guitar. He sings a hymn (*A Simple Song*), after which he dons a pale blue unadorned robe (denoting priesthood) and becomes the actual celebrant of the Mass. The work then passes through all the sections of the Latin Mass, in a wide variety of settings, with the addition of numerous commentaries. There is, for example, an *I Don't Know* following the *Confiteor*, a purely orchestral *Meditation No. 1*, a *Non Credo* that follows immediately upon the *Credo*. The Celebrant is not merely celebrating Mass, he is acting as an evangelist, preaching to the multitudes, arguing with them, attempting to convert them. As the work progresses, his once simple robe is adorned with more and more religious ornaments.

The turning point is reached with the *Agnus Dei*, which is sung not by the Celebrant, but by the throng, stamping their feet, attacking the Celebrant with the words *Dona nobis pacem* (Give us peace). It is probably the only accusatory setting of the *Agnus Dei* in all of music, and even if its reference is obvious, its effect is powerful. The meaning of what happens at this point is somewhat open to question and, since Mr. Bernstein canceled his press conference after the premiere, it could not be verified (the program included no discussion of the work and no text). As it appeared to this viewer, the exhortation of the crowd is for the Celebrant himself to become the "Lamb of God," the sacrificial lamb, that is, as the means to peace. The Celebrant's muttered reply expresses unwilling acquiescence, and he picks up the vessels of Communion and begins to ascend the stairs (which by now have taken on the meaning of a



Bo Parker © Esto

Both internally and externally the Kennedy Center impresses one most with its sheer size. Here, left to right, are one of the transverse halls, one of the two street entrances, and the grand foyer with the sculpture of the late President at the lower left.

sacrificial altar). As he nears the top of the stairs, he suddenly drops or throws the holy vessels to the ground, breaking them. His explanation of this as an accident (*Things Get Broken*) is not accepted, and he strips off his robe and dances madly on the altar. But whatever he says or does, he is not able to restore to the crowd the aura and excitement of belief he had so painstakingly built up previously.

He exits (the futility of conventional religious belief, perhaps?). There is silence, a feeling of shock and desolation, while all assembled lie prostrate on the ground. Then a child ("and a little child shall lead them"?) runs to an elderly man, embraces him, and lifts him to his feet. He in turn embraces his neighbor, and soon all on the stage are awake and singing, and the boys' choir troops into the audience to continue the embracing with the admonition "pass it on." The singing comes to an end, and a recorded voice announces: "The Mass is ended; Go in peace."

If it is difficult to relate the story, to enumerate the musical means used to present the story is even more difficult. Certainly one can say that, apart from Mr. Bernstein's own previous works, the musical antecedents of this *Mass* are far less the *Mass in B Minor* and the *Missa Solemnis* than *Hair* and *Jesus Christ—Superstar*. That is not to say that *Mass* is a rock piece, although it has what seemed to this listener to be some rather arthritic rock in it. But rather *Mass* is (as the composer says) a "theatre piece," and, even in the context of Mr. Bernstein's own creativity, it is more in the line of *West Side Story* than of *The Age of Anxiety*. The vocal styles employed are classical operatic, crooning, rock belting, and blues, but primarily (and touching nearly everything) the peculiar and specific idiom of the Broadway musical, with its emphasis upon projecting even the most intimate phrases to the last row of the balcony, subtlety of expression be damned. The instrumental styles have a little of everything—Boulez, Orff, Copland, Mah-

ler, jazz, Forties swing, rock, folk, even one-finger piano playing—but overall, again, the feeling of the pit orchestra in a Broadway theater.

One can find specific reminiscences. The finger-snapping number from *West Side Story* makes an appearance, as does the vocal group from *Trouble in Tahiti*. The *Sanctus*, with its boys' choir, has a saccharinity that immediately calls to mind *The Sound of Music* (not, thank God, by Mr. Bernstein). Visually, textually, and musically, virtually every cliché of the last ten years is in there somewhere (black power salutes, hand slapping instead of shaking, references to the extinction of animal species, rock triplet rhythms). It is one big *tzimmis*, as up to the minute in its use of a multiplicity of idioms as the Berio *Symphony* and Eric Salzman's *Nude Paper Sermon*.

But it doesn't work. Yes, there are marvelous moments; few people were not moved at some point in the work. There are occasional beautiful themes (but not as many as in *Candide*), inventive counterpoints, rhythmic interest aplenty. At moments when the whole performing ensemble is whipped up the excitement is very real and very contagious. The performers could not be faulted, and Alan Titus (who, interestingly, was also soloist in Salzman's *Nude Paper Sermon*) emerged from the experience a star. But, overall, *Mass* doesn't work, and the question is why.

One reason may be the sheer extensiveness of the resources. After one has been screamed at through a mass of loudspeakers (many things going on on the stage are individually microphoned and fed through the amplification and speaker system) a mere *fortissimo* from the orchestra is a pale effect. The gimmicks tend to play down the music itself; the sheer number of performers and stylistic possibilities tends to make their use superficial and elementary. Second, so many of the clichés are embarrassing in themselves. The rock combo doesn't get off the ground, nor does

the blues combo opposed to it, and one is reminded of Marc Blitzstein's dismal failure to write a viable jazz at one critical moment in his otherwise effective *Regina*. Third, and I think most important, the idioms are not played off against one another, but smeared over with the same brush. A voice begins a straightforward lyrical line and ends the phrase with a flatted third to the tonic, a cliché of the blues. A vocal group begins a jazzy passage and goes off into rhythmically square contrapuntal complexities. And almost everywhere the neon brush of Broadway paints the lily. Mr. Bernstein's Broadway style is admirable in itself—his shows may be his best music—but it is not here *by itself*. It is in mixed company and feeling very uncomfortable about it.

Unquestionably Mr. Bernstein is one of the greatest musical talents this country has yet produced, but as a serious composer he has never found his way. All composers are experimental for a while, but they fuse the results of their experiments and ultimately find a style. It is the most unfortunate of contradictions that in light music Mr. Bernstein has long ago found his style, and in his more serious efforts he has searched and found only fashions. *Mass* is a fashionable piece. What will it be when the fashions change?

The second gala night of the Kennedy Center took place in the Concert Hall (while *Mass* was repeated in the Opera House). A concert by the National Symphony Orchestra, it was a much more conventional sort of evening, unusual mostly in the number of high government officials present. The program was, if not musically inspired, shrewdly devised: Beethoven's *Consecration of the House Overture*, Stravinsky's *Le Sacre du printemps*, the Mozart Violin Concerto No. 3 in G, and William Schuman's *A Free Song*, which involved full orchestra, baritone soloist (Simon Estes), and mixed chorus.

The Beethoven is just about *pro forma* for such occasions (would it receive a tenth as many performances were its title merely "Overture, Op. 124"?),

Baritone Alan Titus, as the Celebrant, kneels in the midst of the swirling Alvin Ailey Dancers in Leonard Bernstein's Mass.

but *Le Sacre* was an excellent choice to show off the capacities of the orchestra and the acoustics of the house, and its placement on the program forced a great many people to sit through it who would not have done so otherwise. Perhaps official Washington will become musically cultured in spite of itself. The Mozart offered a different test for the hall (and for Isaac Stern, the soloist), and the Schuman gave one ample opportunity to judge vocal and instrumental balance.

The star of the evening was unquestionably the hall. I would be willing to swap Philharmonic Hall for its Washington equivalent any day. The National Symphony sounded much improved from the last time I had heard it years ago. It is not yet first-rate, but it has competence. I hope it will continue to improve at the same pace.

ON the third evening we returned to the opera house for the world premiere performance of Alberto Ginastera's *Beatriz Cenci*, commissioned by the Washington Opera Society. The libretto of *Beatriz Cenci* was written by William Shand and Alberto Girri and the opera was given in Spanish. Justino Diaz sang Count Francesco Cenci, Arlene Saunders sang Beatriz, Carol Smith sang Lucrecia, Beatriz's stepmother, Anthony McLean was Bernardo, brother of Beatriz, and Grayson Hirst was Orsino, a prelate and former lover of Beatriz. The director was Gerald Freedman, Ronald Chase supplied films and projections, and the performance was conducted by Julius Rudel.

There is a certain contradictoriness about *Beatriz Cenci* that comes to light in simply comparing the synopsis of the opera with the actual libretto, before one has even heard a note of the music. The story is an especially bloody one (a young Roman noblewoman is raped by her father, arranges his murder by hired assassins, and then, in turn, is tortured and condemned to execution), but it reads, in synopsis,

Antal Dorati, conductor of the National Symphony Orchestra, and Simon Estes, who was soloist in William Schuman's A Free Song.



Fletcher Drake for Kennedy Center



much like that of many a nineteenth-century historically based opera, with a banquet, a masked ball, the heroine praying before a statue of the virgin, messengers, servants, and a weakling lover. But in the libretto the characters are only occasionally people, only occasionally engage in true dialogue or announce their intentions or feelings, the standard literary material from which most operas are made. Cenci, for example, sings: "Mental disorder and normality/enlarge that which separates them/when the sufferer accentuates/his firmness,/his obsession with illusions,/ whilst he who is normal/surrounds the brain with questions,/recedes from the soul,/and in his Tao Te Ching,/his book of the Road/and its virtue,/persists in underlining/the same phrase:/Keep your heart empty/and fortify your bones." This is not exactly your usual operatic monologue. Similarly, Beatrix's younger brother (about twelve, from all appearances) sings, "Mirrors reflect,/they do not retain,/it is impossible to get into the body of a mirror . . .," when one, ascertaining the situation, would expect him to be singing something like, "Mother, I'm frightened." In brief, then, Messrs. Shand and Girri (and, presumably, Ginastera) seem to have been less interested in characters and confrontations than in philosophical ideas (rather murky ones, at that), and that is a very hard way to write an opera.

The contradiction continues on into the music, for what the composer and his librettists have set up for themselves are the stock musical situations of grand opera: a soliloquy for the Count, a soprano-and-alto duet with chorus, a solo for the soprano, a love duet, a dance scene. But with the exception of the last, which mixes modal courtly dances with aleatory comments from another portion of the orchestra, Mr. Ginastera has not met the challenges in the expected way. There is little in the opera that could be called aria-like, despite its format. The voices rarely interact with each other and each proceeds on its own way of tuneless recitative accompanied by rather laconic commentary from the orchestra (it may be that I simply could not *hear* enough of the orchestra, but what I did hear was exceedingly short-breathed). In a strange way, then, there really doesn't seem to be very much *music* in the opera. The orchestra does a good deal of Mickey Mousing, rather unsubtly accentuating the physical action on stage. The musical saws, representing the baying of the Count's dogs, are almost too much in evidence, and the continual references to the dogs, either verbally or musically, reminds one of the reiterated and, today, embarrassing references to "Old Debil Sea" in Eugene O'Neill's now sadly dated *Anna Christie*. It protests just too much.

On the other hand, no one fell asleep during *Bea-*

trix Cenci, and it was not noise that kept them awake, but visual and aural excitement. The entire opera is performed between double projections, a screen at the back and a scrim covering the front of the stage, an unfortunate result being that one seems to be watching wide-screen television. But apart from the annoyance of that scrim, the action of the opera (I had almost written "of the play") keeps one's attention firmly and completely. The stage itself is a turntable set on an angle slanting upwards from the front of the stage, and the angle, interestingly, enhances whatever is going on (whatever ill effects the continual uphill-downhill climb might have on the singers). Most of the scenes were dark and gloomy but quite effective, and the projections (when they did not distract) gave a constant and effective reminder, through the use of rapidly panning shots of Renaissance walls and buildings and stone faces, their mouths open in perpetual silent screams, that this was Rome in the sixteenth century, a very different and in some ways even more brutal world than ours.

ONE scene and one comment deserve particularly to be recorded here. Count Cenci lies in a drunken stupor on his bed, while Beatrix urges the hired assassins to kill him, pushing them to the deed in spite of their fright. They stab him and as he lies in his own blood she goes to look at him. In a dying gesture he reaches up and tears at her gown while the orchestra screams with the agony of the scene. He then falls back dead as Beatrix and her brother, frozen into immobility, stare at him (and the audience, in the sudden and effective silence, begins to recover from the shock). At that moment, a middle-aged, pleasant-faced lady seated next to me leaned over and whispered, "Now *that's* why I like the Lawrence Welk show!"

All the principals did exceedingly well with the music, and there was none of the foot-stamping, cheer-leading school of acting, once so prevalent on the operatic stage, to mar the drama. The pacing was just, the orchestra and chorus rendered whatever was asked of them (as much as one could tell without a score) nobly, and, as an evening in the theater, *Beatrix Cenci* is a powerful experience. But the question remains: is it enough? Can an opera survive that depends so much upon the visual and the literary, that so often seems to be using music as a mere stage prop? In a sense, the problem of Ginastera's *Beatrix Cenci* is related to the problem of Bernstein's *Mass*. The one is an exhortation to love, the other a protracted scream of agony. But neither the exhortation nor the scream is intrinsically musical, and music is what it's all really about. Isn't it?

STEREO REVIEW'S SELECTION OF RECORDINGS OF SPECIAL MERIT BEST OF THE MONTH



CLASSICAL

ANTON WEBERN: THE ORIGINS OF A MUSICAL STYLE

The Quartetto Italiano presents sensitive interpretations of two early works for Philips

THE discovery a few years ago of a large collection of unpublished, previously unknown manuscripts of works by the Austrian composer Anton Webern has made it possible for the first time to retrace step by step the long road the composer traveled on the way from his beginnings as a late Romantic to his becoming one of the prime musical radicals of our time. To my knowledge, the Quartetto Italiano's just-released recording for Philips of two of these manuscript works—the *Langsamer Satz* (Slow Movement) and the String Quartet (both dated 1905)—are firsts. Webern was only twenty-two when he composed them, and they precede his published Opus 1 *Passacaglia* by three years.

Both of these works are, to say the least, unusual. Webern met Arnold Schoenberg in 1904, and was his first pupil. It is fair to assume that Schoenberg's teaching and example had some effect on these early compositions, which date from the very next year. Like Schoenberg's own works up until about 1908, the ethos is late-Romantic, and the historical-technical orientation is, in large part, Wagnerian. But it is a very special kind of late Romanticism: harmonic progressions are often surprising; the violin sometimes plays intense, surcharged melodies so high up on the E string that they begin to assume meanings all their own; and finally, the melodic lines are extraordinarily long in the *Slow Movement*, the exact opposite of the tiny, cellular mod-

ules on which Webern was later to concentrate.

In the unpublished String Quartet of 1905, Webern began to move away from these long, flowing melodies and toward motivic structure and severe contrapuntism. I was extremely intrigued by the opening motif of this quartet, a motif from which most of the piece is constructed. Resembling very closely both the *Muss es sein?* figure in Beethoven's Opus 135 String Quartet and the traditional B-A-C-H motive (transposed to a lower pitch level), it seems to possess some mystical *raison d'être* well beyond the fact of its easy structural motility. In addition to this, a later chromatic mordent figure—almost identical with one in Schoenberg's *Verklärte Nacht*—is worked extensively into the texture. Since

the *Verklärte Nacht* figure is in itself so purely Wagnerian, there is of course the distinct possibility that the two composers simply happened on it quite independently of each other—in Wagnerian chromaticism, certain formulations are almost inevitable. On the other hand, considering among other things the intimacy and the mutual respect existing in the personal relationship between the two composers, I wonder if Webern may not have been playing some cryptological game in this early work.

Webern's smoothly gradual transition from his pre-Opus 1 style to his later idiom and, I suppose, "technology" is a fascinating thing to hear. I have myself always felt that real revo-



ANTON WEBERN
After a painting by Oskar Kokoschka

Philips



QUARTETTO ITALIANO
Sensitivity, color, lovely ensemble

lution is a *gradual* phenomenon rather than the sudden explosion of change it is usually considered to be—change does not take place at the exact moment the Bastille is stormed, but rather during all the events-in-time that lead up to such a symbolic event and even go beyond it. In music, at least, Webern's case (and Schoenberg's, Varèse's, Carter's, and Cage's) seems to bear this out.

The Quartetto Italiano plays in this recording with sensitivity, lovely ensemble (they always have that), and a lavish palette of beautiful tone colors. Their playing of the two late-Romantic works is gorgeously songful; delicacy (and sophistication) of interpretation and warmth of sentiment are everywhere in evidence. The Five Movements for String Quartet, Op. 5, and the Six Bagatelles, Op. 9, are also played with great elegance. Only the String Quartet, Op. 28, a more angular, hard-edged work, sounds a bit labored and thus less refined in timbre than it should be. But it is an exceptionally resistant piece, and of the recorded performances I have heard, only that by the Claremont Quartet (on Nonesuch) is any closer to the ideal.

Lester Trimble

WEBERN: *Music for String Quartet. Slow Movement (1905); String Quartet (1905); Five Movements for String Quartet, Op. 5; Six Bagatelles for String Quartet, Op. 9; String Quartet, Op. 28.* Quartetto Italiano. PHILIPS 6500 105 \$5.98.

POSTHUMOUS SZELL: BEST HAYDN ANYWHERE

The late conductor's performance of the Symphony No. 97 is an exuberant, songful revelation

I AM NOT exaggerating when I say that George Szell's performance of Haydn's Symphony No. 97 in a posthumous release from Columbia is probably the finest Classical performance I have heard in a life largely spent in listening to Classical performances. It is not just good, or excellent, or marvelous—it is unbelievable! The depth of Szell's understanding of the music's sturdy elegance, its firmness of line and spirit, and its great, warm heart is simply not comparable with anything I've ever heard or even heard *about*. And, believe it or not, with all the Haydn there is in the catalog, this glorious symphony is not otherwise available except as part of a larger set.

One of the difficulties in interpreting eighteenth-century Classical orchestral music is that everybody "knows it" so well nowadays that it is almost impossible to avoid routine habits of playing or to accord it the respect of believing in its contemporary relevance, thus giving it a sense of immediacy rather than of elegant distance. (At an extreme of bad interpretation, of course, a conductor can use it as a vehicle for the projection of his own personality, as Kara-

GEORGE SZELL

An incomparable depth of understanding in Haydn



Epic Records

jan is wont to do in some of his rather smug Classical performances.) Here, with Szell, there are no problems at all: no nineteenth-century overlay of bathos or other fatty deposits, no uncertainty before such things as the (only apparently) heavy-footed waltz rhythms, which can be so beautiful in Haydn when tempo and ambiance are right and so *lumpen* when they are not. Further, the Menuetto and Trio of old No. 97 are a joy, an exuberance, a song, and a revelation as Szell plays them here.

Such interpretive inspiration comes even to the best of artists but rarely, so it is not too disappointing to find that, in the accompanying Symphony No. 98, Szell is just his own remarkable self, not the archangel he is in No. 97. I have not one negative thing to say about this performance, however; it is clean, perfectly weighted in all its balances and emphases, and tonally handsome. It is as good or better than almost any Haydn performance that comes to mind. But oh, what that ineffable extra something does for the other side!

Lester Trimble

HAYDN: *Symphonies No. 97, in C Major; No. 98, in B-flat Major*. The Cleveland Orchestra, George Szell cond. COLUMBIA M 30646 \$5.98.

ENTERTAINMENT

THE BEACH BOYS HANG TEN IN THEIR NEW "SURF'S UP"

The Brian Wilson-Van Dyke Parks title song is a standout in the latest from a unique group

THE Beach Boys' new "Surf's Up" is a great album. I can't begin to document that claim with chapter and verse (though I could easily pick out several flaws in the album), the reason being that this is one of those infrequent pieces of work that remind us that the viscera are still very much in charge of matters of subjective preference. The intellect can babble and nitpick around the edges all it wants, but the central fact isn't altered one iota—this is a *great* album.

The title song, *Surf's Up*, was written by Brian Wilson and Van Dyke Parks some years ago, but Brian refused until now to release it. It is a mind-bender: its melodic structure is complex for a pop song—and yet, oddly enough, it's hummable—and its lyrics rush in where all but Captain Beefheart fear to tread. They are, in fact, vaguely like the poems of T. S. Eliot—and like those Walt Kelly gives his Pogo characters to recite as well: they evoke fractured images, fragments of thought, one upon the other, pig-

gy-back style. They keep reminding you that they are made out of language ("Canvass the town and brush the backdrop") and out of the imperfections of language as well, just as knotholes, under the right circumstances, become important to an interior wall. The message? It's about aging, about the music's ending, about going home (wherever that is) afterwards ("the laughs come hard in *Auld Lang Syne*"), about the child being father to the man, and more, secondary themes superimposed here and there, the imagery refrangible, each listener left to filter out his own unique message. It is at once challenging and involving for the listener, and easy to listen to as well. It is probably the best song I've heard since *MacArthur Park*—and keep in mind that it probably predates *MacArthur Park*.

I don't mean to imply that the other songs in the album are in any sense fillers. Bruce Johnston's perceptive treatment of nostalgia, for instance—*Disney Girls (1957)*—deserves (though space forbids) a long and careful appraisal of its own. The instrumental arrangements are especially good, pleasing me more than any since "Abbey Road." The Beach Boys' style has had its corners knocked off since the days of *I Get Around*, but there are flashes of the old touch (a brilliant vocal treatment of "Til I Die), and the album leaves the overall impression that the group is still unique. Some of the songs have incom-

THE BEACH BOYS

As they looked before the corners were knocked off



Capitol



THE WHO:
Vital and intelligent dealers
in musical brimstone

Decca

plete melodies, but then again, the album itself seems complete. Some of the lyrics are childish, two of the melodies are borrowed from other songs, a couple of others remain obstinately unmusical. I don't care. It's a great album.

Noel Coppage

THE BEACH BOYS: *Surf's Up*. The Beach Boys (vocals and instrumentals). *Don't Go Near the Water; Long Promised Road; Take a Load Off Your Feet; Disney Girls (1957); Student Demonstration Time; Feel Flows; Lookin' at Tomorrow; A Day in the Life of a Tree; 'Til I Die; Surf's Up*. REPRISE/BROTHER RS 6453 \$4.98, ® B 6453 \$6.95, © M 86453 \$6.95, © M 56453 \$6.95.

THE WHO GO RIGHT ON DANCING

*"Who's Next?," their new album for Decca,
is a splendid collection of songs*

EVEN THOUGH we may not have tried lighting one up for ourselves lately, I think we all know what a lovely light those two-ended candles can cast. Just look, for instance, at the remarkable glow that comes from "Who's Next," the Who's latest release for Decca. It is, among other things, a stunning example of a group of artists who are able, through the force of sheer talent, to prolong a style that has pretty much had its day. Much as Sinatra was able to

breathe some life back into the already moribund ballad form with a string of superior albums in the mid-Sixties, so the Who go right on dancing into the Seventies with that tattered lady known as Rock. No one seems to have told them that her reputation today isn't all it once was—not, I suppose, that the news would make one bit of difference to them.

Nevertheless, this is one splendid album, and if there were more like it—or *had* been more like it—then perhaps Rock might still be with us. The biggest single talent here, as fans will know, is Pete Townshend. He has outdone himself this time, writing a collection of songs that perfectly suit the brimstone performances of the group. *Baba O'Riley* (no relation, I believe, to the present writer) is for me the best song in the album, and although it is not quite as raunchy as the jacket photo, nor quite as amusing as the ads Decca is running for the album in the trade papers (two Amazon hookers with only the album title as copy), it is still a very lively track indeed. But then I couldn't find anything in the album that I didn't like. It is a solid job all the way, and the Who remains an intelligent, tremendously vital group that continues to enjoy my respect and merit my admiration.

Peter Reilly

THE WHO: *Who's Next?* The Who (vocals and instrumentals). *Baba O'Riley; Getting in Tune; Bargain; Song Is Over; Going Mobile; Love Ain't for Keeping; My Wife; Behind Blue Eyes; and Won't Get Fooled Again*. DECCA DL 79182 \$5.98, ® B 79182 \$6.98, © 6 9182 \$6.98, © 73 9182 \$6.98.



The same precision that guides the automatic pilot of a 747 tunes the Pioneer SX-2500.

Just press the tuning bar and the servomechanism takes over. It stops the dial pointer precisely at the zero point of detector. The result is dead center tuning which you can actually see when the tuning needle lights up. And you can tune from twenty three feet away with the convenient remote control unit which also adjusts the volume.

Rated at 340 watts IHF (72-72 RMS at 8 ohms), Pioneer endowed the SX-2500 with extraordinary versatility. It has five inputs and seven outputs, accommodating two pairs of speaker systems. The FM section alone features five IC's and two crystal filters for superb selectivity. Employing three dual gate FET's, sensitivity is a matchless $1.6\mu\text{V}$, to pick up even the weakest stations. Or you can flip

the Local Station Switch and decrease the sensitivity to pick up the strongest local stations only. When you're looking for stereo programs, the Stereo Selector Switch automatically tunes in those stations broadcasting in stereo only.

Whatever refinement you're looking for in an AM-FM stereo

receiver, Pioneer has designed into the SX-2500. There are stepped tone controls... loudness contour control... adjustable muting... center channel output for three dimensional systems. Pre and main amplifier may be used independently with multi-amp stereo systems.

The SX-2500 offers more meaningful features

And in the same way that the 747 offers more conveniences, the Pioneer SX-2500 offers more meaningful features than any comparably priced stereo receiver.

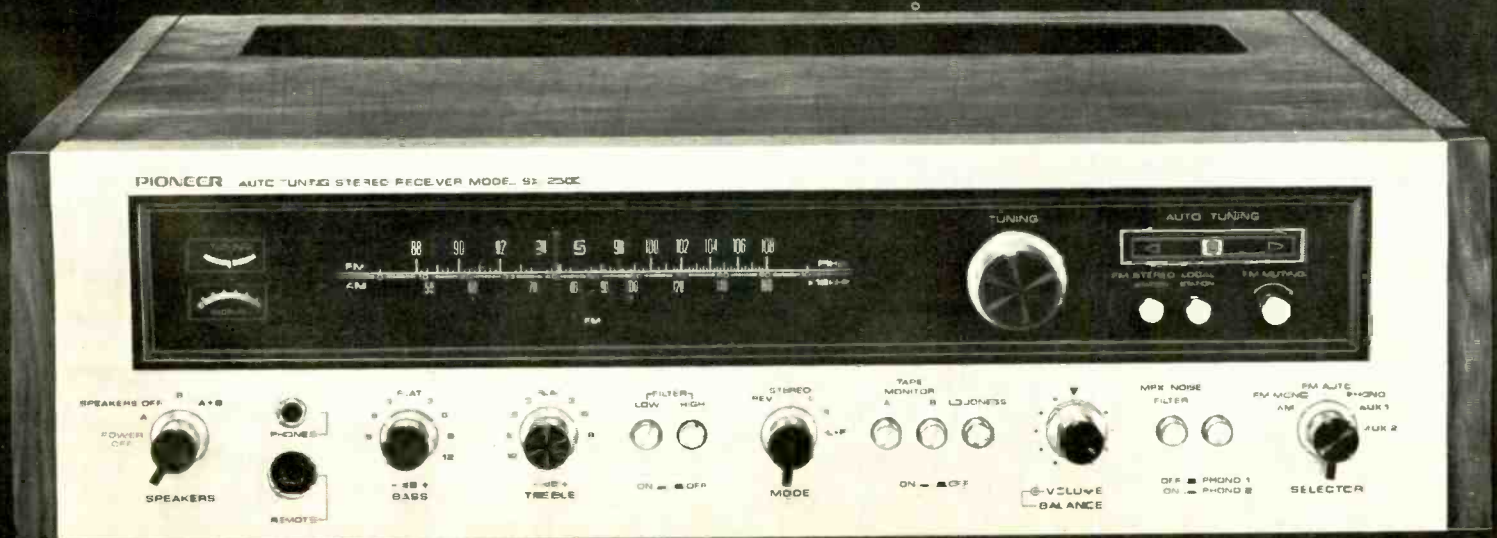
See and hear the SX-2500 at your local Pioneer dealer. Complete with remote control unit, \$549.95.

U.S. Pioneer Electronics Corp.
17E Commerce Road, Carlstadt,
New Jersey 07072.

Remote Control Unit

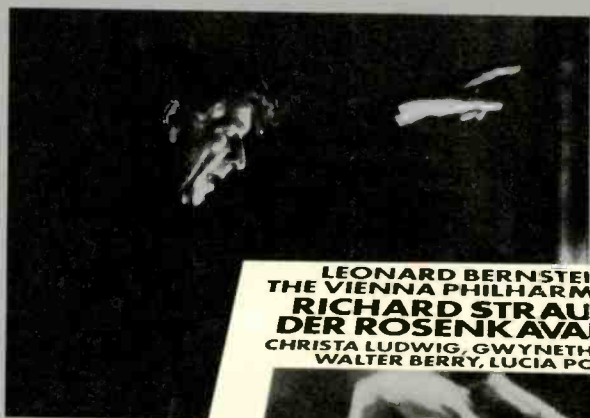


PIONEER
when you want something better



After a 20-minute
standing ovation, 48 curtain
calls, 14 orchestra rehearsals,
6 weeks of stage rehearsals,
8 performances, 13 recording
sessions and 293 takes:

A dazzling new
“Der Rosenkavalier” is ready for
the world.



M4X 30652
A 4-record set,
includes full color
booklet-libretto.



And if that doesn't say it all:
Conductor: Leonard Bernstein
Orchestra: Vienna Philharmonic
Soloists: Christa Ludwig, Gwyneth Jones
Walter Berry, Lucia Popp
Chorus: Vienna State Opera

On Columbia Records 



CLASSICAL

Reviewed by DAVID HALL • BERNARD JACOBSON • GEORGE JELLINEK • IGOR KIPNIS
PAUL KRESH • ERIC SALZMAN • LESTER TRIMBLE

ANDERSON: *Chamber Symphony* (see THORNE)

RECORDING OF SPECIAL MERIT

BACH, J.S.: *Violin Concerto No. 1, in A Minor (BWV 1041)*; *Violin Concerto No. 2, in E Major (BWV 1042)*; *Concerto for Two Violins, in D Minor (BWV 1043)*. Eduard Melkus (violin); Spiros Rantos (violin, in BWV 1043); Capella Academica Wien. DEUTSCHE GRAMMOPHON ARCHIVE 2533 075 \$6.98.

Performance: Eighteenth-century approach
Recording: Excellent

The name of Eduard Melkus as soloist and director here denotes a performance in which stylistic accuracy is paramount. Old instruments or reproductions of them are used, the ensemble is properly small, and phrasing and articulation adhere to eighteenth-century principles. This does not in any way imply, I must hasten to add, that the interpretations are only of musicological interest—far from it! Melkus has some very interesting ideas (notably the very fast middle movement of the A Minor Concerto, an *andante* that strikes me as a little too breathless) and a definite performing personality. A good deal of what one hears here is quite exciting, and much of it (the slow movement of the Double Concerto, for instance) is very sensitive. Melkus' only competition in this type of historical re-creation is the similar coupling by the Vienna Concentus Musicus, a disc issued a year or two ago, and one that I feel never received its due. That performance is a bit more leisurely in tempo and a little less involved with virtuosity per se; it is also extremely sensitive. The big point of difference between the two is the quality of sonic reproduction. In the case of Melkus, the sound is excellent, with exceptional balances; the Concentus Musicus version (Telefunken SAWT 9508), however, is even superior in its ability to capture the tonal colors of the strings. The articulation of the bowing is clearer, and a feeling of zest in the rhythms of the players (particularly the lower strings) emerges most effectively on Telefunken. Despite these factors, the Archive performances are very fine ones; it is a plea-

sure to hear the slow movements of all three concertos played with the proper expression and without the soupy sentimental style that sometimes passes for Bach. I.K.

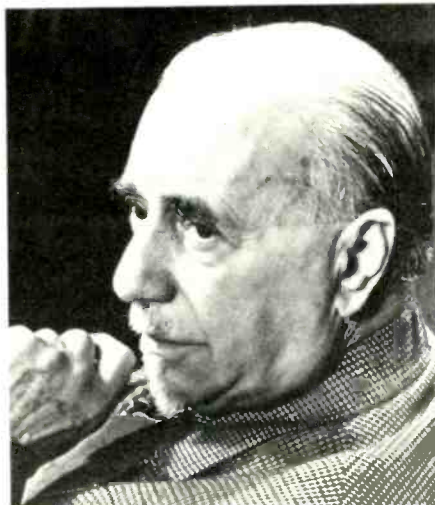
BEETHOVEN; *Quintet in C Major, Op. 29*; *Sextet in E-flat, Op. 81b*. Members of the Vienna Octet. LONDON CS 6674. \$4.98.

Performance: Excellent
Recording: Excellent

These are excellent performances of two chamber works that escaped overexposure even during last year's bicentennial orgy of Beethoven's music. The Opus 29 Quintet for Strings, writ-

they're humans, not machines. Their ambience is that of public performance rather than of the recording studio. In instrumental tone and "ensemble," they are first-rate; their feeling for phrase and structure is infallible. In short, they really speak the language.

But it's a pity that the Sextet was put on this recording. It is a poor piece, of only documentary interest. The horn was a difficult and limited instrument in Beethoven's day, and he couldn't do much of interest with it in this instance. Though the horn players here are not bad, they are certainly no virtuosos. You'll have to stick with the other side. But it's worth hearing. L.T.



SIR THOMAS BEECHAM
A healthy ego in service to music

ten when the composer was only thirty-one, is one of his most charming and sweet-spirited works (there are not so many of that kind!). It is obviously an "audience piece," but a far cry from a potboiler. In not one measure does its songfulness fail to persuade the mind on a "serious" level at the same time it enchants the ear with its charm and youthful tenderness. I grew up with this piece, but it is a long time since I've sat down to it with my fiddle. I confess that I'd forgotten some sassy measures in the final *Presto*, and I burst out laughing when these canny Viennese musicians spelled them out with such elegant and unexpected vulgarity. A good joke is hard to find, and this one is a winner—when it's played right.

I have nothing but good things to say about the playing of these musicians in the Quintet. They have the special gracefulness and ease one always associates with the Viennese: no archness, no self-consciousness, no slickness, a tiny blemish here and there to remind you that

RECORDING OF SPECIAL MERIT

BERLIOZ: *Symphonie fantastique*. French National Radio Orchestra, Sir Thomas Beecham cond. SERAPHIM S 60165 \$2.98.

Performance: Splendid
Recording: Excellent

Here is a beautiful recording which, though it has been available in England for some time, is just being released in this country. The late Sir Thomas Beecham had put two versions of the *Symphonie fantastique* on tape in the late 1950's, one in mono and this one in stereo shortly afterward. Only the mono has previously been available here.

What an extraordinary musician he was! Without doing anything at all eccentric or spectacular, he was able to bring out the essence of a piece we've all heard a thousand times and posit his own fresh views of it in the act. It is difficult to describe the many ways in which Beecham's particular genius shows, simply because they are always so straightforwardly musical. Healthy as his ego was, he let it stand behind the music, not in front. A particular kind of frank attack in big *tutti* chords; almost pedantically worked-out inner parts in a contrapuntal texture; a bit of audacious *timbre* in sections such as the "*Songe d'une nuit du Sabbat*"—these don't sound so remarkable in the telling. And yet, the sum of many such special spots adds up to a fresh experience of a very familiar piece.

The French National Radio Orchestra, which is not the most cooperative group of musicians in the world, played for Beecham on this recording almost as if he had been a Frenchman—except (one senses) they really paid attention! There are no sloppy spots, no places where the conductor accepted what the orchestra did automatically. Everything here has the stamp of control and of Beecham. A fine legacy indeed. L.T.

(Continued on next page)

Explanation of symbols:

- Ⓜ = reel-to-reel tape
- ⓐ = four-track cartridge
- ⓑ = eight-track cartridge
- ⓒ = cassette

Monophonic recordings are indicated by the symbol Ⓜ; all others are stereo.

THE KARAJAN DIE MEISTERSINGER



Adam
Donath
Evans
Kollo
Schreier

SEL-3776
5 discs/libretto

"The performance is profoundly beautiful, a noble, heart-stirring achievement."
— Andrew Porter, *The Gramophone*.

NEW PLEASURES FOR CHRISTMAS GIVING

THE GIULINI DON CARLO



SDL-3774
4 discs/libretto

Domingo
Caballé
Raimondi
Verrett
Milnes

"Make no mistake about it . . . this *Don Carlo* is among the greatest operatic recordings ever made."

— Thomas Heintz, *Records and Recording*.

CIRCLE NO. 8 ON READER SERVICE CARD

BLOCH: *Baal Shem: Nigun* (see WIENIAWSKI)

BOYCE: *Trio Sonatas: No. 2, in F Major; No. 8, in E-flat Major; No. 9, in C Major; No. 12, in G Major*. Malcolm Latchem and John Brown (violins); Jay Ryan (cello); David Lumsden (harpsichord). MUSICAL HERITAGE SOCIETY MHS 1140 \$2.99 (plus 60¢ handling charge, available from Musical Heritage Society, Inc., 1991 Broadway, New York, N.Y. 10023).

Performance: Excellent
Recording: Good

Handel's first visit to England in 1710 coincided, curiously enough, with the birth of the only two native composers able to make notable reputations for themselves in the face of his overpowering genius and influence—William Boyce and Thomas Arne.

Best known as a cathedral organist and the composer of sacred music in his own time, Boyce had his name and reputation resurrected in the 1930's through Constant Lambert's edition of his eight charming symphonies. Since then there have been several recordings of the symphonies—two of them are still available on the Turnabout and Bach Guild labels—and Oiseau-Lyre offers a fine disc of the overtures to the King's Birthday and New Year Odes.

In this Musical Heritage Society disc, we get a sampling from the twelve trio sonatas published in 1747. As with Boyce's other instrumental works, their musical language is a felicitous combination of Italianate homophony and a judicious touch of "learned" polyphony. The Sonata No. 9, with its central fugal and canonic movement, provides the most striking instance. Other sonatas, such as No. 8, are more like the Baroque suite of dances. Instead of making a strict distinction between the *sonata da chiesa* and *sonata da camera à la Corelli*, Boyce has chosen to work out a viable combination of both types. The result as exemplified in these recorded performances, issued originally in 1967 on the British Oryx label, is eminently listenable *Hausmusik*, clearly intended to be played and heard in the home rather than in the concert hall. The performances are elegant and vital, and the recorded sound is clear and full-bodied.

D.H.

BRITTEN: *The Rape of Lucretia*. Peter Pears (tenor), Male Chorus; Heather Harper (soprano), Female Chorus; John Shirley-Quirk (bass), Collatinus; Bryan Drake (baritone), Junius; Benjamin Luxon (baritone), Tarquinius; Janet Baker (contralto), Lucretia; Elizabeth Bainbridge (mezzo-soprano), Bianca; Jenny Hill (soprano), Lucia; English Chamber Orchestra, Benjamin Britten cond. LONDON OSA 1288 two discs \$11.96.

Performance: Mostly excellent
Recording: Excellent with reservations

The Rape of Lucretia (1946) is one of Britten's most fascinating and least appealing works. I am not sure exactly how to explain this paradox, but it probably has something to do with the moral and artistic pretentiousness of the idea, which is, nevertheless, realized in a very simple, sincere, and even inspired manner.

The model is clearly the Stravinskian chamber-opera form. Like Stravinsky, Britten and his librettist Ronald Duncan chose a known subject full of literary resonance; in fact, this is an Englished version of the old Roman story. As in the Stravinskian form, we are looking in from the outside, specifically through the agen-

cy of a male and female "chorus." These choruses—individuals both—set the scene, narrate, comment, and draw the moral (somewhat surprisingly, an ultra-Christian one). Indeed, these are the main characters and, to a degree, the only ones. The principal actors of the actual story play out their fated roles without much conviction. All the women of Rome are whores except Lucretia, so, naturally, Tarquinius, the Etruscan tyrant, must do her in. The perfect love between Lucretia and her husband Collatinus is therefore soiled, Lucretia must kill herself, Rome revolts ("Down with the Etruscans," "Rome for the Romans!"), and only Christ can redeem our very original sins. Well, I don't think too many people are going to buy all this nowadays—indeed, the Sicilian morality of all this could be described (if one could take it seriously) as decidedly male-chauvinist sexist!

Since great stretches of *The Rape of Lucretia* are taken up with recitation of its rather mediocre poetry and still more dubious morality, one might imagine that the positive values here are rather limited. In fact, the work contains a great deal of Britten's most inspired and attractive music—such passages as Junius' invocation of Lucretia, the chorale-like interlude after the rape, the baroque *arioso* music for Lucretia's mourning, and others. Nowhere in Britten's work are the simplest of means employed with more telling effect. Indeed, on grounds of purity, musical unity, and coherence, the work compares very favorably with, say, the Stravinsky-Cocteau *Oedipus*. But it lacks entirely the latter's larger-than-life stature, the magnificent abstraction, inevitability, and quality of summation that make *Oedipus* a landmark.

The performance report must be, in spite of some roughness, very strongly on the positive side. Peter Pears' voice has acquired a bit of a wobble when it is pushed—and unfortunately this is at its worst at the very opening. But there is still a good bit of remarkable and even beautiful singing left in the voice—and, of course, he created the part. John Shirley-Quirk and Janet Baker are especially persuasive in an outstanding cast, and the instrumental playing is on a par. The direction is, of course, the composer's own, and the recording, aside from some too muffled off-stage vocal effects, is very good.

E.S.

BRITTEN: *Young Person's Guide to the Orchestra* (see ELGAR)

BROZEN: *In Memoriam* (see THORNE)

RECORDINGS OF SPECIAL MERIT

CHOPIN: *Sonata No. 3, in B Minor, Op. 58; Etude in a A-flat Major, Op. 10, No. 10; Polonaise in F-sharp Minor, Op. 44; Scherzo in E Major, Op. 54*. Garrick Ohlsson (piano). CONNOISSEUR SOCIETY CS 2029 \$5.98.

CHOPIN: *Piano Concerto No. 1, in E Minor, Op. 11; Nocturne in E-flat Major, Op. 55, No. 2; Mazurkas in C-sharp Minor, E Minor, and A-flat Major, Op. 41, Nos. 1, 2, and 4*. Garrick Ohlsson (piano); Warsaw National Philharmonic Orchestra, Witold Rowicki cond. (in Concerto). CONNOISSEUR SOCIETY CS 2030 \$5.98.

Performance: 1970 Chopin Competition prizewinner
Recording: Very good

(Continued on page 86)

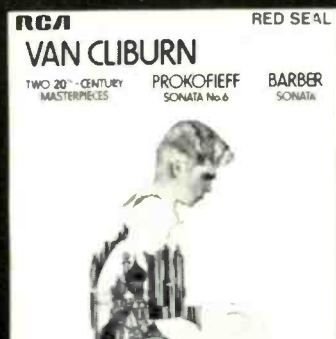
STEREO REVIEW

Announcing six new Van Cliburns.

Six releases. All in one month. All new. Van Cliburn interprets the works of modern masters and past giants. With great names like Ormandy and the Philadelphia. Enjoy all six... all together.



LSC-3179, R8S-1199, RK-1199



LSC-3229



LSC-3238, R8S-1216



LSC-3240, R8S-1215



LSC-4013, R8S-1200, RK-1200



LSC-4014, R8S-1201, RK-1201

RCA Records and Tapes

Twenty-three-year-old Garrick Ohlsson, a student of Sascha Gorodnitski at Juilliard, was the first American to win first prize at the International Chopin Competition in Warsaw (October 1970). Thus he joins a distinguished list of names who have won in past years, including Martha Argerich, Maurizio Pollini, and (a second-prize winner in 1955) Vladimir Ashkenazy. The finals of the competition, which is held every five years, are always recorded, and that is what we hear here. It is not difficult to sense the excitement of the event; the audience is wildly enthusiastic (the applause is well captured!), and one can understand why. The performances are not note-perfect; what counts is the spirit of the moment, and the feeling of "liveness."

Ohlsson is extremely impressive in the Sonata. It is obvious he has the temperament for

Chopin, and he also projects well. The last movement finds him a little fatigued and breathless, and the control he had exhibited earlier is no longer with him. In the big F-sharp Minor Polonaise, he sounds a little as though he were striving for the grandiose effects of Horowitz in his performances of that work, a larger-than-life rendition, but it emerges instead somewhat clattery. This is partly the fault of a too close-up microphone placement; otherwise the piano reproduction is remarkably good. The Scherzo No. 4, which completes the first of these two discs, is first-class.

The second disc features the Chopin E Minor Concerto; it is not as breathtaking a performance as Martha Argerich's of five years earlier (the prize-winning one, recorded in Warsaw, not the equally exciting later studio

version with Abbado). Yet, in spite of a perfunctory and weak accompaniment, an ill-sounding start, and a tendency to stress filigree over line, Ohlsson is impressive. The finale, for instance, has great immediacy, and one feels at the conclusion like joining in the ovation. In the late Nocturne, which along with three Mazurkas fills out the second disc, the pianist again displays an exciting, passionate, emotional style of playing. In this respect, Ohlsson represents a return to an older manner of interpreting Chopin, one that stresses the advantages of personality, dynamic variety, and color. *I.K.*

RECORDING OF SPECIAL MERIT

ELGAR: *Enigma Variations, Op. 36*. BRITTEN: *The Young Person's Guide to the Orchestra, Op. 34*. Philharmonia Orchestra (in Elgar); BBC Symphony Orchestra, Sir Malcolm Sargent cond. SERAPHIM S 60173 \$2.98.

Performance: Vital
Recording: Good 1958-1960 stereo

This budget-price coupling of two British orchestral classics in variation form is most welcome, especially for its finely styled, beautifully controlled performances by the late Malcolm Sargent. Sargent's conducting was never the last word in passionate romantic expression, but he brings this kind of expression in ample measure, and fine pacing as well, to his reading of the Elgar. Originally recorded in 1960, it is a performance to stand alongside those of Colin Davis and Arturo Toscanini as one of the best currently available.

It was Sargent who made the first recording of the popular Britten *Young Person's Guide* just after World War II, with the Liverpool Philharmonic Orchestra. His 1958 recorded performance with the BBC Symphony has the same splendid zest and effective pacing.

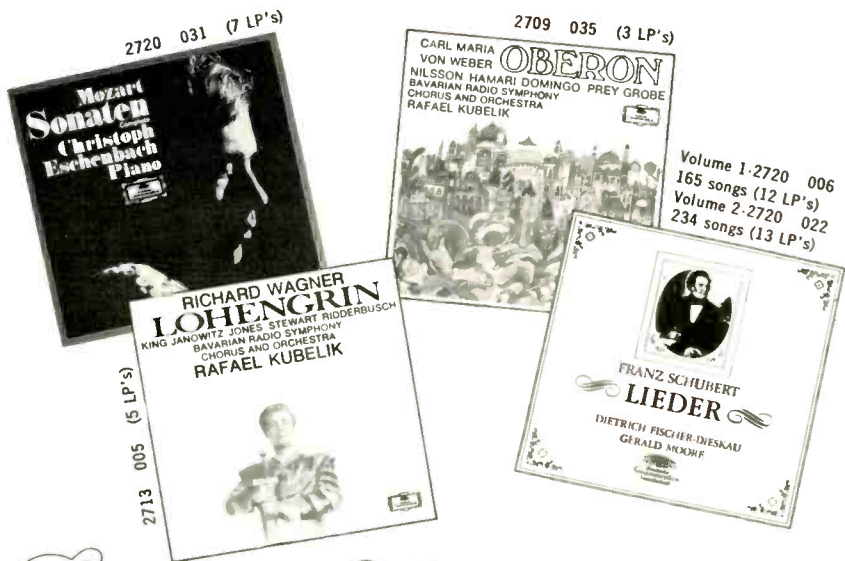
Despite the dates of recording, neither of these performances has been issued in this country before. Though the recordings are more than a decade old and lack the immediacy of impact of the best of today's, the sonic ambiance as such is remarkably honest. The clarity of texture in the fugal finale of the Britten is especially noteworthy. All told, this disc is a top-value item. *D.H.*

RECORDING OF SPECIAL MERIT

GRANADOS: *Goyescas*. Aldo Ciccolini (piano). SERAPHIM S 60178 \$2.98.

Performance: Excellent
Recording: Excellent

Enrique Granados went down with the Essex in 1915 on his way home to Spain from the premiere of his opera *Goyescas* at the Metropolitan Opera in New York. That work has long since disappeared but the piano suite or cycle of the same name (and inspiration) has shown a surprising vitality. Granados, essentially a superior salon musician with a Spanish flair, produced a great volume of keyboard music of the species one encounters nowadays in old volumes of "Music All the World Loves." Most of it is no more authentically Spanish than the similar efforts of composers like Moszkowski or Chabrier and scarcely more durable than dozens of forgotten Habaneras and Spanish Dances. Therefore, it comes as something of a surprise to me to discover that, without any great pretensions, *Goyescas* contains music of great dignity and scope. *(Continued on page 88)*



Deutsche Grammophon makes the giving great.



Deutsche Grammophon Records, MusiCassettes and 8-Track Stereo

Cartridges are distributed in the USA by Polydor Incorporated; in Canada by Polydor Records Canada Ltd.

CIRCLE NO. 23 ON READER SERVICE CARD

NEW for Christmas 1971



Treasures for every music lover
from

LONDON
RECORDS



RENATA TEBALDI

CHRISTMAS FESTIVAL

Adeste Fideles,
Bach-Gounod Ave Maria,
Wiegenlied, What Child Is This?
O Holy Night, Silent Night, etc.
The New Philharmonia Orchestra
—Anton Guadagno
OS-26241



HERBERT VON KARAJAN
conducts

BORIS GODUNOV

starring
NICOLAI GHIAUROV
with Galina Vishnevskaya,
Ludovic Spiess, Martti Talvela,
Aleksi Maslennikov
THE VIENNA PHILHARMONIC
ORCHESTRA
OSA-1439



JOAN SUTHERLAND
and
LUCIANO PAVAROTTI

in
L'ELISIR D'AMORE
with Spiro Malas, Dominic Cossa
RICHARD BONYNGE
conducting
The English Chamber Orchestra
OSA-13101



REGINE CRESPIN

PRIMA DONNA FROM PARIS


A gala two record set including music
from Iphigénie en Tauride,
La Damnation de Faust, Sapho, Ascanio,
Werther, Carmen, La Grande
Duchesse de Gérolstein, La Belle Hélène,
La Périchole, Les Trois Valses, etc.
OSA-1292



The thrilling TV opera original
cast recording

BENJAMIN BRITTEN'S
OWEN WINGRAVE

with Janet Baker, Peter Pears,
Benjamin Luxon, Heather Harper
conducted by the composer
OSA-1291



The most-loved masterpiece of
German song literature

SCHUBERT
DIE SCHÖNE MÜLLERIN
HERMANN PREY

with
Karl Engel (piano)
OS-26251



Highlight LP's from THREE BRITTEN OPERAS

**A MIDSUMMER NIGHT'S
DREAM**

with Peter Pears, Alfred Deller
Heather Harper, Helen Watts,
Josephine Veasey
OS-26097

ALBERT HERRING

with Peter Pears, Sylvia Fisher,
Owen Brannigan
OS-26165

BILLY BUDD

with Peter Glassap,
Peter Pears, Michael Langdan,
John Shirley-Quirk
OS-26164

LONDON—leader in quality—the sound—the repertoire—the artists

after all this time
Bonnie Koloc



ovation RECORDS
 OVQD/1421

Available in COMPATIBLE
 STEREO/QUADRAPHONIC RECORDING
 a division of OVATION INCORPORATED
 1249 Waukegan Road, Glenview, Illinois 60025

CIRCLE NO. 55 ON READER SERVICE CARD

Just \$1.00 brings you...

A WONDERFUL 12" STEREO LP RECORD THAT INTRODUCES YOU TO ... the largest recording project of its kind ever completed!

the musical heritage society

... is pleased to announce that it has released on 49 records all 107 of Haydn's Symphonies. These 107 symphonies were recorded under the baton of the famous Haydn specialist ERNST MAERZENDORFER, permanent conductor of the VIENNA STATE OPERA ORCHESTRA. Performance was by the world renowned Vienna Chamber Orchestra which recently toured the U.S.A.

MAY WE SEND YOU THIS AUDITION RECORD?

JOSEPH HAYDN (1732-1809)

SYMPHONY No. 50 (Side 1)
 SYMPHONY No. 51 (Side 2)

in STEREO only ... OR H-221

GET THE SOCIETY'S CATALOG FREE!

Musical Heritage Society has released over 900 fine records. May we send you our catalog?

ORDER FORM

The Musical Heritage Society, Inc.
 1991 Broadway, New York, N. Y. 10023

Gentlemen:

Enclosed is \$1.00. Please send the introductory record to Haydn's Symphonies, OR H-221 with Symphonies 50 and 51. It is understood there is no obligation whatsoever.

Please send your latest catalog of over 900 STEREO records.

Name

Address

City & State

Zip Code

CIRCLE NO. 52 ON READER SERVICE CARD

**Build this pipelike
 Schober Recital Organ**

for only
 *\$1850!



*Includes finished walnut console. (Only \$1445 if you build your own console.) Amplifier, speaker system, optional accessories extra.

You couldn't touch an organ like this in a store for less than \$4,000—and there never has been an electronic instrument with this vast variety of genuine pipe-organ voices that you can add to and change any time you like! If you've dreamed of the sound of a large pipe organ in your own home, if you're looking for an organ for your church, you'll be more thrilled and happy with a Schober Recital Organ than you could possibly imagine—kit or no kit.

You can learn to play it—and a full-size, full-facility instrument is easier to learn on than any cut-down "home" model. And you can build it, from Schober Kits, world famous for ease of assembly without the slightest knowledge of electronics or music, for design and parts quality from the ground up, and—above all—for the highest praise from musicians everywhere.

Send right now for the full-color Schober catalog, containing specifications of all five Schober Organ models, beginning at \$499.50. No charge, no obligation. If you like music, you owe yourself a Schober Organ!

The Schober Organ Corp., Dept. HR 39
 43 West 61st Street, New York, N.Y. 10023

Please send me Schober Organ Catalog and free 7-inch "sample" record.
 Enclosed please find \$1.00 for 12-inch L.P. record of Schober Organ music.

NAME

ADDRESS

CITY STATE ZIP

CIRCLE NO. 64 ON READER SERVICE CARD

nados scarcely ever rises "above" his status as a salon composer but, like Tchaikovsky, he elevates the genre. Out of apparently trivial materials he manages to create frescoes of vast scale—especially in the amazing fifth piece of the set as recorded here. Perhaps "Goyaesque" is not too much of a claim for this music.

Aldo Ciccolini is a brilliant and persuasive advocate. He rightly avoids northern Romantic style in favor of the much simpler *sol y sombra* approach characteristic of Latin sentiment. A very attractive recording. E.S.

GRIEG: *Sonata No. 3, in C Minor, for Violin and Piano* (see RAVEL: *Sonata*)

HANDEL: *Ariodante*. Sofia Steffan (mezzo-soprano), Ariodante; Graziella Sciutti (soprano), Ginevra; Ian Partridge (tenor), Lurcario; Carole Bogard (soprano), Dalinda; Bernadette Greevy (contralto), Polinesso; Marius Rintzler (bass), King of Scotland; Walter Eder (tenor), Odoardo. Martin Isepp (harpsichord continuo); Vienna Academy Chorus and Vienna Volksoper Orchestra, Stephen Simon cond. RCA LSC 6200 three discs \$17.94.

Performance: Pallid

Recording: Good

At the time that he wrote *Ariodante* in 1734, Handel was in the midst of difficulties with his once-favored Italian opera. There were financial problems (the King helped out with a thousand pounds annually), and there was the additional irritation of a rival opera company. Handel's newest opera was first performed the following January and was heard eleven times (another two performances were given in 1736). It was not very successful, although the score contains some gorgeous things and there was the opportunity, through the auspices of the new Covent Garden theater, for the inclusion of choruses (an innovation in the opera of that time) and ballet. The plot, of the type of *Much Ado About Nothing*, is set in Scotland, *Ariodante* being betrothed to Ginevra, the daughter of the King of Scotland (Handel's music has nothing particularly Scottish about it). Polinesso, the Duke of Albany and an Iago-like villain, tricks *Ariodante* by making him think Ginevra is unfaithful, in the hope that he can marry her himself and thereby gain the throne. Toward the end, in a Lohengrin-like episode, Polinesso is slain in a duel by Lurcario, *Ariodante's* brother, and all ends happily.

The work was not revived until the last decade, but it is very much in the limelight now because it was, of course, mounted at the new Kennedy Center in Washington in the fall. It is a fine work, and, except for the overture and a couple of arias, has not been previously recorded. One may be thankful for the opportunity of hearing it, but, I am sorry to report, the performance is very far from being definitive. First of all, from the textual standpoint, there were some important additions made by Handel which were not included (these are mentioned in the excellent notes by Winton Dean); there is, for example, the ballet sequence and the final recitative following Ginevra's mad scene at the end of Act Two. Also missing is *Ariodante's* spectacular final aria.

Just as serious is the quality of the performance itself. It is not *bad*, but it just is not very good. The soloists are all perfectly capable, but seldom does one feel that anyone has taken the dramatic moments to heart. Much of the blame, I suppose, has to rest on the conduc-

(Continued on page 90)

How we saved our new \$139 speaker from medium-priced boredom and conformity.

Ordinarily, there's nothing more boring than a medium-priced speaker system.

Low-priced speakers can be exciting because a few exceptions sound better than they have the right to. And high-priced speakers are, of course, endlessly fascinating because each expresses a different designer's concept of the "state of the art."

But bookshelf speakers in the \$110 to \$150 range? When you've heard one, you've heard them all.

That's why, having already created some of the world's finest low-priced and high-priced speakers, we decided that something distinctly new and different should be done for the music lover with a middle-sized stereo budget. The result was the **Rectilinear XII**.

First of all, we did something about efficiency. Unlike the conformist acoustic-suspension speakers in this price range, the **Rectilinear XII** is a high-efficiency tube-vented bass reflex system. All you need is 10 clean walls to drive it to ear-shattering levels. So you won't need a high-priced amplifier or receiver to enjoy your medium-priced speaker, even if you like to feel those bottom notes right in your stomach.

Then we did something about *time delay distortion*. The **Rectilinear XII** reacts faster to an input signal (it "speaks" sooner, with less time delay between electrical input and acoustical output, and with less lag between drivers) than any other cone-type speaker system except our own higher-priced

models. Rectilinear seems to be the only speaker manufacturer to be concerned about this type of distortion, but the difference it makes is easily audible to any critical listener.

A nonconformist approach to crossover design is largely responsible for the superior time delay characteristics of the **Rectilinear XII**. The 10-inch high-exursion woofer is crossed over to the "fast," low-inertia 5-inch midrange driver at 350 Hz, a much lower frequency than is conventional in three-way bookshelf systems; the 3-inch tweeter takes over at 4000 Hz. To compound the unorthodoxy, we abandoned

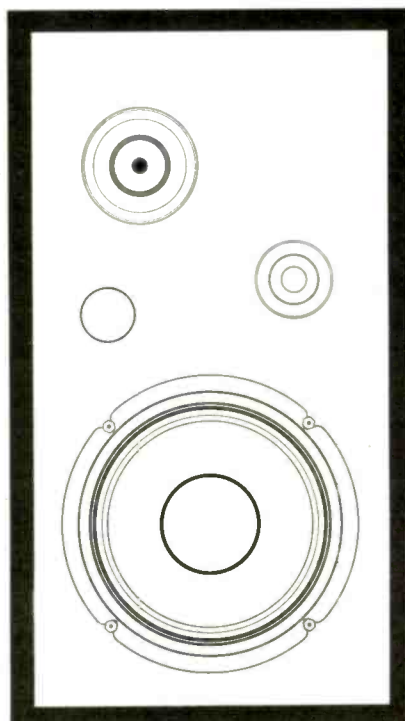
the customary parallel-type crossover network in favor of a very elegant series configuration, which gave us vastly improved phase response.

Finally, as our ultimate defiance of tradition, we listened objectively to our own speaker. Did it really sound as different as we had set out to make it? To our ears (which, after all, have a good track record), it did. The **Rectilinear XII** seems to reproduce music with a clarity and authority that few speakers, at any price, can even approximate. And certainly none at \$139.

But this is something that each prospective buyer must decide for himself. So, if you're shopping in this price range, listen carefully to the **Rectilinear XII**. And, please, be cynical, jaded and hard to please.

For your \$139, you're entitled not to be bored.

Stop in at your local high fidelity dealer for a demonstration of the **Rectilinear XII** or any of our other speaker systems, priced from \$79.00 to \$299.00. For more information, including detailed literature, write to Rectilinear Research Corp., 107 Bruckner Blvd., Bronx, N.Y. 10454. Canada: H. Roy Gray Co. Ltd., Markham, Ont. Overseas: Royal Sound Co., 409 N. Main St., Freeport, N.Y. 11520.



**Rectilinear
Research
Corporation**



Josef Hofmann and Leopold Godowsky at Camp Wigwam, Maine, in 1933.

JOSEF HOFMANN:

The Camp Wigwam Concert

By ALFRED SIMON

IT is not very well known even to piano devotees that during the Thirties and Forties the great Josef Hofmann spent many summers at, of all places, a camp for boys near the small village of South Waterford in Maine. The reason for these unlikely rustications is that Hofmann, who was enormously shy and retiring, welcomed the beautifully situated spot as an ideal retreat both from the city and from professional pressures. His host was his close friend "Mandy" (who could also be called Abraham Mandelstam, but only if you barely knew him). Mandy, co-director of the excellently run Camp Wigwam, was a genial, complex, and above all marvelously generous character: his greatest joy was playing host, both in Maine and at his New York City apartment, to such widely diversified celebrities as Albert Einstein, Edward G. Robinson, Frank Loesser, and Carol Channing. But nothing gave Mandy more pride than telling his friends that Josef Hofmann was an almost annual visitor at Wigwam ("and for the whole summer, too!").

Having myself been first a camper and then music counsellor at the camp in other years, I was often invited by Mandy to spend vacations there from my work at New York radio station WQXR. Though many of the campers, counsellors, and other staff members found Hofmann perhaps a rather diffident and remote personality, I was fortunate enough, over the course of several summers, to gain his friendship. We would go swimming in the lake in front of his cabin, take short walks, or simply sit on the porch talking. Hofmann, being an avid WQXR listener, and knowing that I was a program executive there, inevitably directed the conversation into pertinent but good-natured quizzes about station policy: "Why don't you play more Mozart?" "Who picks out the music for 'Symphony Hall'?" "Is it really necessary to have all

those commercials?" . . . and so on.

Flattering as it was to have this regular personal contact with an artist who was quite literally a legend in his own time, the most unforgettable experience of those summers for me was the unique recital Hofmann gave—at the age of seventy-two—in the main hall of the camp lodge on Sunday evening, August 22, 1948. Mandy had made it known to the campers that they were going to be present at a very important event, that one of the greatest pianists in the world was going to play just for them. Had Hofmann been an outsider deigning to play what was then called "long-hair" music for them during a single visit, they would probably have been most reluctant to attend, as well as being restless when they did. No such thing. Somehow, Hofmann's quietly droll presence in camp all those weeks had made the youngsters aware that he was, indeed, someone very much out of the ordinary. In addition to the campers (about 150 of them, ranging in age from seven to fifteen and seated on benches, folding chairs, and the floor), the audience consisted of forty or fifty counsellors strategically stationed to shush possible noisemakers, plus other staff members, a few townspeople, and a reporter or two from the Portland newspapers.

SHORTLY after eight o'clock, in walked Josef Hofmann, sporting a gray flannel shirt open at the collar, slacks, a topcoat slung over his forearm, and carrying a large flashlight—a necessity, since the path between his cabin and the lodge was unlighted. After depositing the topcoat and flashlight on a nearby shelf, he sat down at the concert grand (Wigwam was well-appointed!) while taking a few wide, quick swipes at the moths and other insects attracted by the ceiling lights. Not in the least flustered by what might have turned out to be a major nuisance, he immediately launched into a program surprisingly adult for his audience. First was Schumann's *Faschingschwank aus Wien*; next, a Chopin group, including the Impromptu in A-flat Major, a Nocturne in F-sharp Major (Op. 15, No. 2), and the A-flat Waltz (Op. 42); then the *Melody in F* (probably much more familiar to youngsters of those days as *Welcome, Sweet Springtime*) by Hofmann's teacher, Anton Rubinstein; and finally Liszt's *Mephisto Waltz*. Finally? The Liszt showpiece, so brilliantly performed, brought down the house with thunderous applause, cheers, piercing whistles, and cries of "More! More!" The encore was Moszkowski's *Caprice Espagnole*—but one wasn't enough, so then, in turn, came the Chopin *Minute Waltz, Alt Wien* (by Leopold Godowsky—not only Hofmann's very cherished friend, but himself a frequent visitor at Camp Wigwam), Chopin's *Military Polonaise*, and Moszkowski's *Guitarre*. By this time it was past nine o'clock, the usual hour for the camp bugle to sound "taps."

Altogether, quite an extraordinary event for many reasons: the delightfully informal atmosphere, Hofmann's easygoing entrance and casual garb, his choice of music, the amazingly rapt attention of all those normally active boys, and, above all, their great enthusiasm. Even the moths loved it; they behaved beautifully.

tor's shoulders; the orchestra plays with reasonable precision but not often with real fire, enthusiasm, refinement of phrasing, or rhythmic buoyancy (compare Richard Bonyng's recording of the overture, especially the gavotte-like last section, on London CS 6586). Stylistically, the same faults are heard here as in the previous recordings of the Handel Society of New York, under whose auspices this recording was made. Some *da capo* sections are embellished, but the additions are generally unventurous and pass almost unnoticed (Carole Bogard's first aria is an exception, but there the tempo is too fast for the mood). Cadential trills, the type the singers would have added conventionally as a matter of course, are invariably missing. The harpsichord continuo is inventive, but sometimes a little distracting, with its predictable scale passages. In general, however, it is the overall pacing which distresses one the most, the inelasticity of the beat, the absence of characterization, and, sometimes, the inappropriate choice of tempo ("Cieca notte," near the beginning of Act III, seems to portray Ariodante in anything but an angry mood). The recording, except for moments when some voices are too close-up, is good, and a libretto with translation is provided. *I.K.*

RECORDING OF SPECIAL MERIT

HAYDN: *Six Sonatas for Violin and Viola* (Hob. VI: 1-6). MOZART: *Two Duos for Violin and Viola* (K. 423 & 424). DÉNES KOVÁCS (violin); GÉZA NÉMETH (viola). QUALITON LPX 11426/7 two discs \$11.96.

Performance: Excellent
Recording: Excellent

Three sides of this album are taken up by what is in all likelihood the first complete recording of the six sonatas for violin and viola by Haydn. These are three-movement pieces, all concluding with *menuets* (sometimes with variations on them), which are presumed to date from the late 1760's. In style, they are partly late Baroque, yet they often appear to foreshadow a much later Haydn. Their intrinsic worth, I feel, is certainly on the level of the best of the earlier symphonies, and there are moments when one is reminded of the Haydn of the greatest symphonies.

The idea of duets for this combination, of course, is rather unusual; there was precious little literature for viola in any case at that time. It wasn't until 1783, when Mozart acted as ghost writer for his friend Michael Haydn, Josef's younger brother, that the most famous duos were composed. The "other" Haydn was faced with a deadline for a commission but couldn't meet it because of illness; Mozart obligingly filled in for him and created two towering masterpieces. Perhaps because of the unusual combination of instruments they are not heard in concert as often as his other chamber works, but there have been a number of excellent recordings of them in the past. This is the first time, I think, that both the Mozart works have been put onto one side of a disc, although the performances are not over-hasty, nor have any important repeats been omitted. In general the interpretations are exemplary, both Hungarians displaying admirable technique, precise ensemble, and an excellent sense of the music's form. Of the two, Kovács perhaps has the more striking personality, but Németh, the violist, is a fine partner and has a clean attack. The players sometimes seem unaware of such stylistic matters as the correct length of *appoggiaturas* (most here are treated

as short grace notes, not always a correct interpretation), but overall the renditions are so skillful, virtuosic, and expressive that the recording can be most enthusiastically recommended. The sonic reproduction is likewise of the highest quality. I.K.

HAYDN: *Symphonies Nos. 97, in C Major, and 98, in B-flat Major* (see Best of the Month, page 78)

HINDEMITH: *Symphony—Mathis der Maler* (see LUTOSLAWSKI)

RECORDING OF SPECIAL MERIT

HUSA: *String Quartets Nos. 2 & 3.* The Fine Arts Quartet. EVEREST 3290 \$4.98.

Performance: Excellent
Recording: Excellent

Karel Husa was born in Prague in 1921 and educated in Paris. For many years he has taught and conducted at Cornell University, but, by and large, his work has remained little known in his adopted country. The surprise award to him of the 1969 Pulitzer Prize for his Third String Quartet did little to dispel this obscurity, probably because these prizes have long since lost credibility. However, I am happy to report that, in spite of its award-winning status, the quartet is a strong, attractive work. Like the Second Quartet on the overside, this is vigorous, energetic, eclectic music, very much in the Bartókian tradition.

Fifteen years separate the two works and, in theory at least, the later piece, written in 1969, contains serial elements. Empirically, however, the two pieces belong to the same category: good, old-fashioned modern music, made well and full of ginger. Both pieces are exceptionally well performed by the Fine Arts Quartet, and the really excellent recording has striking presence. E.S.

KABALEVSKY: *Violin Concerto* (see WIENIAWSKI)

LISZT: *Mass for Four-Part Male Chorus and Organ, "Szekszard Mass"; Four Sacred Male Choruses.* József Réti and Sándor Falcsó (tenors); György Melis (baritone); József Gregor (bass); Gábor Lehotka (organ); Male Chorus of the Hungarian People's Army; István Kis cond. HUNGAROTON LPX 11447 \$5.98.

Performance: Good
Recording: Spacious

This is the second in a series of recordings of the choral works of Franz Liszt made and issued in his native Hungary. Liszt's extraordinary output includes no fewer than five Masses, of which this is both the first and the last! Originally written in 1848, it was revised in 1869 for the dedication of a church in Szekszard, Hungary. The planned performance did not come off, and, along with most of Liszt's other religious choral music, this Mass has remained obscure. In truth, it is a hybrid work with beautiful and characteristic things, and with stretches of utter boredom (notably the *Credo*, of which, one imagines, Liszt did not believe a word). The sound of the male chorus palls after a while, and matters are not helped much by the composer's timid use of the organ or by the generally careful, dull (I almost said listless) performance.

Liszt achieved a simple, religious form of expression more easily in the short hymns, of which four are recorded here, notably the

ON November 29, 1887, Josef Hofmann, a boy of eleven, made his American debut as a pianist at the Metropolitan Opera House. Fifty years later, on November 28, 1937, in the same auditorium, he played his Golden Jubilee Concert. By all accounts the first occasion must have been an extraordinary one, but we can only read that, in spite of his age, the child was already an accomplished artist. With his fiftieth anniversary concert, we are more fortunate, for through the auspices of the International Piano Library we can now hear, on four long-playing sides, that historic celebration complete—Hofmann at the height of his powers.

The album includes a facsimile of the 1937 program, and it makes fascinating reading. First of all, everybody who was anybody was there—not only the cream of the musical world but of society as well. Then there was the orchestra, billed rather over-simplly as the Curtis Student Orchestra (Hofmann was then the director of the Curtis Institute), which accompanied the pianist in Anton Rubinstein's D Minor Concerto and his own astringent *Chromaticon* (part Prokofiev, part Rachmaninoff), and led off with the Brahms *Academic Festival Overture*. The "student orchestra" on this occasion also included members of the Philadelphia Orchestra and reads almost like a who's who of orchestral players (Hilsberg, Druian, Rose, Mayes, Kincaid, Tabuteau, Bloom, et al.). The conductor was Fritz Reiner. On the record itself, after the Brahms, a crackling performance, Walter Damrosch comes out to deliver a dignified yet warm introduction, and then we finally hear Hofmann in the Rubinstein Concerto, an interpretation that might cause some who do not rank this work with the best of the late-Romantic piano literature to reflect that it has just lacked the right interpreter to make its proper effect.

The solos to come, though, are what everyone has been waiting for—the moment when the magic of Hofmann's style really can be heard to clearest advantage. First there is a Chopin group: the first Ballade, an early Nocturne, a stunning rendition—Hofmann at his greatest—of the Op. 42 Waltz, and the *Andante Spianato and Grande Polonaise*, followed by four Chopin encores. Hofmann's Chopin today may not be to everyone's taste. It is individualistic in the way that Rachmaninoff's was, full of tempo changes, thunderous passages intermixed with those of the utmost delicacy, and underlinings of inner voices such as the bell-like low-note reiterations at the conclusion of the *Berceuse*. Good Chopin? Perhaps not always, but it is exciting, and it displays the kind of performing personality that regrettably seems to have become, for the most part, a thing of the past. Not least, it demonstrates Hofmann's incredible technical skills—fingering, pedaling, chord balancing, dynamics, rhythmic devices, color, shading, and articulation. Following the *Chromaticon*, we are treated to four typical Hofmann encores, of which Beethoven's "Turkish March" (arranged by Rubinstein, one of Hofmann's teachers) and the concluding *Caprice espagnole* by Moszkowski (another teacher) are glittering testimony to the reasons many keyboard experts considered this pianist the king of them all.



JOSEF HOFMANN:

The 1937 Golden Jubilee Concert

By IGOR KIPNIS

In the mid-Fifties, Columbia Records issued most of the solo portion of this historic concert; those who still own this much-sought-after cutout (I have heard rumors of a twenty-five dollar asking price for the single disc) will of course not rest until they have the present album, not only because of the concert works but because Columbia did not include two Chopin items, the Op. 42 Waltz, and the Nocturne, Op. 15, No. 2. The International Piano Library issues this album as its first commercial release, its previous issues having been available only to subscribers. The company could not have made a more auspicious choice, and they have matched its artistic quality with the packaging and the reproduction. Sonically it is in every way superior to the Columbia issue, far less dull-sounding and much less constricted and distorted. This is an historic document of the highest musical importance.

JOSEF HOFMANN: *The Complete 1937 Golden Jubilee Concert.* Brahms: *Academic Festival Overture.* Speech by Dr. Walter Damrosch. Rubinstein: *Piano Concerto No. 4, in D Minor.* Chopin: *Ballade No. 1, in G Minor, Op. 23; Nocturne No. 2, in E-flat Major, Op. 9, No. 2; Waltz No. 5, in A-flat Major, Op. 42; Andante Spianato and Grand Polonaise brillante, in E-flat Major, Op. 22; Nocturne No. 5, in F-sharp Major, Op. 15, No. 2; Waltz No. 6, in D-flat Major, Op. 64, No. 1 ("Minute"); Etude No. 9, in G-flat Major, Op. 25 ("Butterfly"); Berceuse in D-flat Major, Op. 57.* Hofmann: *Chromaticon for Piano and Orchestra (1916).* Mendelssohn: *Spinning Song, Op. 67, No. 4.* Rachmaninoff: *Prekude in G Minor, Op. 23, No. 5.* Beethoven (arr. Rubinstein): *Turkish March from "The Ruins of Athens."* Moszkowski: *Caprice espagnole, Op. 37.* Josef Hofmann (piano); Curtis Student Orchestra, Fritz Reiner cond. (in Brahms, Rubinstein, and Hofmann). INTERNATIONAL PIANO LIBRARY IPL M 5001/2 two discs \$15.00 (available at selected stores and from the International Piano Library, 215 W. 91st Street, New York, N. Y. 10024).

Gifts of peace



Relief Grain
\$9.95

Prime Grain
Contour Stem
\$12.95

Collector's
\$35.00

Kaywoodie—for a friend, a son, a father, a husband, a lover—or just to let someone know you're still there. The thought is great and so is the smoke. The special briar, the handwork, the detail all add up to a good, rich taste—with lots of flavor. And if you've never smoked a Kaywoodie you really ought to try one.

Send 50¢ for complete catalogue. Tells how to smoke a pipe; shows pipes and sets from \$350 to \$6.95; other products. Write: Kaywoodie, N.Y. 10022, Dept. 1S10

KAYWOODIE®
The hand-made pipe

sweet "Ave maris stella" and the highly original "Ossa arida, audite verbum Domini" (roughly, "Oh dem dry bones, now hear the word of the Lord"). The recording has spacious sound, but I would have preferred more presence and more punch all the way around.

E.S.

RECORDING OF SPECIAL MERIT

LUTOSLAWSKI: *Concerto for Orchestra*.
HINDEMITH: *Symphony—Mathis der Maler*. L'Orchestre de la Suisse Romande, Paul Kletzki cond. LONDON CS 6665 \$5.98.

Performance: Excellent
Recording: Excellent

Lutoslawski's *Concerto for Orchestra* is a remarkable work in many ways. It was one of the first pieces out of post-war Poland to attract international attention, and it stands out as a particularly attractive example of a genre that must, one supposes, be referred back to the Bartók *Concerto*. There is, however, no sense of imitation or, except in the vaguest general sense, of Bartókiana; indeed, one is hard put to pinpoint influences—Hindemith? Janáček?—at all. This is apparently the only work to survive a generally disastrous period of "socialist realism" and second-rate neo-Classicism in post-war Poland, and, in fact, its composition shortly precedes the wholesale conversion of modern Polish music to ultra-avant-gardism—a change-of-life led by Lutoslawski himself!

This *Concerto* is, quite simply, one of those pieces that comes from nowhere (well, almost) and leads nowhere, but creates its own coherence and inner message. It is, briefly stated, an extraordinarily attractive and imaginative work which finds a perfect form to express its own qualities of invention.

Part of its success here is, no doubt, because of the excellent performance and recording. I have always liked the balance between clarity and tonal quality that London engineers so often achieve in their orchestral recording, and this is a particularly felicitous example.

The Hindemith *Mathis der Maler* is a not inappropriate oversight—it is, surprisingly, side two in this pairing—and the performance is only a trifle less impressive.

E.S.

RECORDING OF SPECIAL MERIT

MAHLER: *Symphony No. 1, in D Major*. Chicago Symphony Orchestra, Carlo Maria Giulini cond. ANGEL S 36047 \$5.98.

Performance: First-rate
Recording: Excellent

The Chicago Symphony has been and remains right at the top among world-class symphony orchestras. The Mahler First and Giulini both seem good choices to bring out the orchestra's solid virtues. This is strong, rich playing in a good tradition: Romanticism without tears. And the strength and brilliance of the playing and orchestral sound is marvelously captured by the Angel engineers. The musical qualities of this record are excellent enough, but its sonic virtues put it right up there with the finest of orchestral recordings—a model of how it should be done! Alas, perfection is apparently not to be permitted to us mortals without difficulties: the quality of the pressing sent for review was mediocre. I hope the general run will be better.

E.S.

MOZART: *Two Duos for Violin and Viola* (see HAYDN: *Sonatas*)

RECORDING OF SPECIAL MERIT

MOZART: *Sonata in A Major (K. 331); Sonata in F Major (K. 332)*. Rosana Maria Martins (piano). CONNOISSEUR SOCIETY CS 2018 \$5.98.

Performance: Superb
Recording: Excellent

Rosana Maria Martins is a young Brazilian pianist who has made some reputation in South America and Europe. If the album cover and contents are not a snare and a delusion, she is a pretty nifty-looking girl and an even niftier Mozart pianist. The playing is delicate, sensitive, expressive, and, save for a rushed *appoggiatura* or two, full of style and spirit. The recording, although apparently not Dolbized, is in every other respect a model of what keyboard recording should be.

E.S.

MOZART: *Symphonies: No. 35, in D Major (K. 385 "Haffner"); No. 36, in C Major (K. 425 "Linz"); No. 38, in D Major (K. 504 "Prague"); No. 39, in E-flat Major (K. 543); No. 40, in G Minor (K. 550); No. 41, in C Major (K. 551 "Jupiter")*. Berlin Philharmonic Orchestra, Herbert von Karajan cond. ANGEL S 36770/1/2 three discs \$5.98 each.

Performance: Technically splendid
Recording: Good

Herbert von Karajan's new recordings with the Berlin Philharmonic of the last six Mozart Symphonies are a severe disappointment. A few of these he had already recorded with the Vienna Philharmonic and the Philharmonia Orchestra, and I wish I had them in my library for comparison. Speaking of the present set, however, I can only wonder that a conductor of his stature, and one with so much technical mastery, could veer off in some of the interpretive directions he has taken.

Hearing this recorded set of symphonies, I'm forced to one of two general conclusions: (1) Karajan is so steeped in the sound of opera that he cannot free himself from the theatrical ambiance even when he wants to, or (2) he considers that Mozart's operas were really the matrix of his musical style and substance, and that his absolute music, in performance, should be patterned after them. If the first conclusion is correct, he deserves condolences for his occupational deformation; if the second, I disagree.

There are a great many examples scattered through these performances of the operatic ambiance pushing its way (inappropriately) to the fore. The second movement of the "Jupiter" Symphony, as just one instance, sounds as if it were coming from the pit of an opera house, either presaging or accompanying an actual, acted drama on stage. The moods are suffused with implications which could be appropriate only if a curtain were about to rise, or had risen. One can't rationalize their presence by saying that Karajan discovered something "new" in Mozart. Whether wittingly or not, he has forced an alien and indigestible bit of "atmosphere" into the music.

There are other peculiarities even more difficult to reconcile. As everyone, and certainly Karajan, knows, Mozart was a middle-period *Classic* master, not a Beethoven, a Brahms, a Mendelssohn, or a Schubert. Why, then, in performances of these symphonies, should one be made to feel so often that one is listening to a kaleidoscope of these later composers' moods and sentiments? All four owed a great deal to

(Continued on page 94)

ONLY \$120 MORE FOR 4-DIMENSIONAL SOUND



Add the new low-cost Dynaco Speakers and Quadaptor™

Converting your present stereo system to 4-dimensional sound need not be expensive at all. The inexpensive Dynaco Quadaptor™ (\$19.95 kit, \$29.95 assembled) is inserted between your present receiver or amplifier and the four speakers. Your present two speakers remain in front. Add two matched, 8-ohm speakers in back. That's it. No second stereo amplifier is needed. Now you can enjoy 4-dimensional stereo from today's FM stereo broadcasts and tapes as well as discs.

The most satisfying results are derived when high quality, full-range speakers are used in back as well as front, since it is faithful reproduction of all audio frequencies that provides the greatest sense of spatiality and directionality.

The new Dynaco A-10 aperiodic speaker system has been designed to provide this desired reproduction—yet they cost only \$99.95 per pair. They use the same tweeter as the highly rated A-25 and the A-10's 6½" woofer incorporates the same magnet structure as that of the 10" A-25 woofer. Their compactness (8½" x 14¾" x 7¾" deep) and light weight (12 lbs.) make them ideal for unobtrusive mounting on a back wall. And this mounting is simplified by

the hanging brackets built into the rear surface of each A-10.

The sonic and efficiency similarities between the A-10 and other Dynaco speakers permits them to be intermixed in the same 4-dimensional system. Since they also have about the same efficiency as conventional acoustic-suspension speaker systems, they can be intermixed with them as well.

The new A-10 and Quadaptor™ permit you to realize the full potential of your present equipment and library—at minimal extra cost.

SPECIAL DIRECT OFFER ON 4-DIMENSIONAL DEMO RECORD

DYNACO INC.
3060 Jefferson Street, Philadelphia, Pa. 19121

Enclosed is my check or money order for \$2.95. Please send me the new Dynaco/Vanguard 4-D demo record post-paid. Limited to USA residents only. Offer expires January 31, 1972

Name _____

Address _____

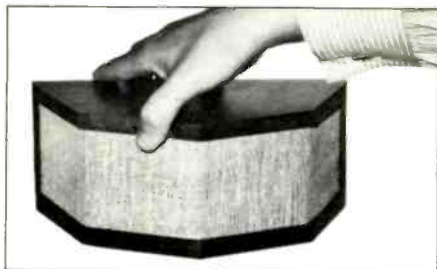
City _____ State _____ Zip _____

3

dynaco inc.

3060 JEFFERSON ST., PHILA., PA. 19121

This is not a speaker.



It's the missing part of your speaker.

What's missing from your speaker, no matter how much you paid for it, is a high-frequency response that remains genuinely flat off axis. (The 15-kHz output of a top-rated \$250 speaker, for example, is down 12 dB at 60° off center.)

The new Microstatic high-frequency speaker system is designed to give you this missing response when you connect it to any medium or low-efficiency speaker of any size or design. And we mean ± 2 dB from 3.5 kHz to 18 kHz over a 180° angle!

Microstatic won't change the sound quality of a top-rated speaker on axis, but it will make a dramatic improvement in the stereo image and overall transparency from any listening position in the room.

Don't just take our word for it. Read the Hirsch-Houck report in Stereo Review. Or Ivan Berger in Saturday Review.

For copies of these rave reviews plus detailed literature, write us directly. Microstatic is priced at \$116 a pair (slightly higher in the West).

MICROSTATIC™*
a product of

MICRO/ACOUSTICS® CORP.
8 Westchester Plaza
Elmsford, N.Y. 10523

* Patent Pending

Mozart, but he was dead before most of them were born. Only a conductor who has made an immense interpretive mistake could veer between the shades of Brahms, Schubert, and Beethoven in playing the slow movement of the "Prague" Symphony (for a second, even Wagner shows up). Some of this is a result of Karajan's constant, gliding, ice-skating legato, demanded especially of the strings and woodwinds, and in dotted (non-legato) passages as well as undotted ones. Such constant, nonmetrical syncopation (sliding into the beat and clinging past it) makes surfaces very smooth. It also thickens lines and erases textural contrast, while adding unneeded weight and a special brand of enrichment to everything. That special richness belongs to music of the nineteenth century sometimes, but *never* to that of the eighteenth. In the latter, it shows up simply as a self-indulgent conductor's personal mannerism. In these performances, it calls up a very precise and accurate word: *Kitsch*. L.T.

RECORDING OF SPECIAL MERIT

PAGANINI: *Violin Concerto No. 3, in E Major*. Henryk Szeryng (violin); London Symphony Orchestra, Alexander Gibson cond. PHILIPS 6500 175 \$5.98.

Performance: Crystalline
Recording: Good

Though the standard music encyclopedias appear to insist on the existence of only two Paganini violin concertos—the familiar First in E-flat (1817-18) usually played as D Major and the Second in B Minor with the famous "*La Campanella*" finale—the record catalogs indicate otherwise. The Fourth in D Minor (1829) was recorded by Arthur Grumiaux shortly after its publication was made possible through the re-uniting of the long-lost solo part with the existing one for orchestra (Columbia has recently issued a new recording of it by Ruggero Ricci). Number 5 in A Minor (1836) found its way onto records (Decca and Musical Heritage Society) after Federico Monpiello, in 1959, devised an orchestral part to go with the surviving solo part. Now we have, for the first time on records, the Third Concerto in E Major (1826) to complete the series.

The music has less dramatic substance than that of the Fourth Concerto, but it is full of fantastic violinistic fireworks, not to mention good tunes—many of a decidedly Rossinian cut. The first movement's opening *ritornello* sounds like an amalgam of Rossini overtures, complete to the pizzicato beginning of *Italiana in Algeri*! The slow movement is languorously lyrical, and the finale is a sparkling polonaise with super stuntwork for the soloist and a razzle-dazzle finish.

Though Henryk Szeryng's violin tone is leaner than Ricci's, he is a marksman second to none in handling the intonation problems posed by Paganini's satanic passage work and harmonics. The orchestral back-up work is ably taken care of by Alexander Gibson and the London Symphony, and the recorded sound is fine. D.H.

RAVEL: *Sonata for Violin and Piano (1923-1927); Pièce en forme de habanera (1907).*
GRIEG: *Sonata No. 3, in C Minor, for Violin and Piano, Op. 45.* Wanda Wilkomirska (violin); Antonio Barbosa (piano). CONNOISSEUR SOCIETY CS 2038 \$5.98.

Performance: Mostly very good
Recording: Somewhat over-reverberant

Not since Ginette Neveu, whose career was cut short by a plane crash in 1949, have I heard a woman violinist of such blazing temperament as Wanda Wilkomirska. The Grieg C Minor Sonata, that most effective of the Norwegian master's major chamber works, has had no recording in the American catalog since André Gertler's deleted Westminster disc. In it, Miss Wilkomirska allows herself full rein. The young Brazilian-born pianist Antonio Barbosa, whose previously issued Connoisseur Society recording of the two big Chopin piano sonatas has won well-deserved praise, is an ideal match for Mme. Wilkomirska in both the Grieg and Ravel works.

The Ravel pieces fare just a shade less well than the Grieg here. I must say that I was delighted with the slinky sensuousity Wilkomirska brought to the *Habanera* (originally a vocalise rather than a violin piece, by the way), but the sonata performance seemed to me a bit "hot" for such an essentially cool and sardonic piece. And there are intonation problems at the end of the first movement.

I must take issue with the over-reverberant acoustic that persists through both sides (were these sessions held in the not very tractable Manhattan Towers ballroom in New York?). Not only is the musical texture muddied in climaxes, but proper balance of the two instruments also becomes impossible at times, most especially in the slow movement of the Grieg, when the all-important violin pizzicato is overpowered by the sheer reverberance of the piano. A great shame, this, in view of the admirable musical qualities of the performance. D.H.

SAINT-SAËNS: *Symphony No. 3, in C Minor, Op. 78.* Anita Priest (organ); Los Angeles Philharmonic Orchestra, Zubin Mehta cond. LONDON CS 6680 \$5.98.

Performance: Mostly very good
Recording: Full-bodied

As a fun piece for hi-fi buffs, Saint-Saëns' "Organ" Symphony remains a vastly entertaining and effective work. But I find that the composer did the same thing with more vital results eleven years before (1874) in his Fourth Piano Concerto, also in the same key of C Minor. Indeed, the "Organ" Symphony seems structurally at times almost a scissors-and-paste version of the earlier piece.

After the super-spectacular *Also sprach Zarathustra* that Zubin Mehta did for London with the Los Angeles Philharmonic, one can hardly be blamed for expecting the same with the Saint-Saëns Symphony. For the first three movements, all goes beautifully, with well-balanced, full-bodied sound and ample presence in both solo and full-orchestral episodes. The full solo organ chords that proclaim the finale come off with splendid effect, as does the bass figuration that links the succeeding organ chords. But when the violins enter with the main theme they seem to be in deep left field. Then the pacing grows curiously listless, and continues so for the rest of the movement, which never seems to get off the ground, even the final chord sounding anti-climactic.

This impression was intensified by a side-for-side comparison with Charles Munch's 1959 Boston Symphony recording, which is still the razzle-dazzler of them all for this score. My guess is that the tighter acoustic ambience of the Los Angeles Music Pavilion created problems in organ-orchestra balance that were more easily handled in the open spaces of Boston's Symphony Hall. In any event, I prefer
(Continued on page 96)

NEW DYNACO AMPLIFIER



BUILT-IN 4-D CIRCUIT ...AT NO EXTRA COST

The most logical choice for a compact, powerful control amplifier is the new Dynaco SCA-80Q. The SCA-80Q not only is a one-piece stereo preamplifier and power amplifier, but it includes built-in Quadaptor™ circuitry for 4-dimensional stereo. No decoder is required.

The SCA-80Q is the same price as the SCA-80 which already has established a reputation for unexcelled value. The SCA-80Q has all the features as its predecessor and exactly the same performance. And you can connect either two speakers to it for conventional stereo, or four speakers for 4-D sound now (or later).

The best results are obtained when the SCA-80Q is used with speakers that have small impedance variations. The most accurate front-to-back separation is achieved when the impedance of the back speakers remains as close as possible to 8 ohms.

All of the different Dynaco speakers have been designed for uniform impedance. They are a most sensible choice for 4-D playback with the SCA-80Q. Their similar efficiency and sonic characteristics permit them to be used together in the same 4-D system. The larger A-50 (\$179.95 each) as well as

the compact bookshelf types A-25 (\$79.95 each) and the new A-10 (\$99.95 the pair) are appropriate for the front. The compactness and light weight of the bookshelf models, particularly the A-10, render them ideal for unobtrusive mounting on a back wall.

A 4-D system including the SCA-80Q and four full-range Dynaco speakers is the most economical and compact way to realize the full potential of your existing stereo library and FM stereo broadcasts. And as recordings made specifically in the 4-D format become more available, your enjoyment will be greatly increased.

SPECIAL DIRECT OFFER ON 4-DIMENSIONAL DEMO RECORD

DYNACO INC.

3060 Jefferson Street, Philadelphia, Pa. 19121

Enclosed is my check or money order for \$2.95. Please send me the new Dynaco/Vanguard 4-D demo record post-paid. Limited to USA residents only. Offer expires January 31, 1972

Name _____

Address _____

City _____ State _____ Zip _____

3

DYNACO INC. 3060 JEFFERSON ST., PHILADELPHIA, PA. 19121



magnificent
possession

the best
pick-up arm
in the world

SHURE
SME

SHURE BROTHERS INC.
222 Hartrey Avenue
Evanston, Illinois 60204

Munch's pacing of the finale, which has just the right combination of *sostenuto* and momentum to keep the excitement going to the end. *D.H.*

SCHUBERT: *Symphony No. 4, in C Minor* ("Tragic"); *Symphony No. 5, in B-flat Major*. Vienna Philharmonic Orchestra, István Kertész cond. LONDON CS 6682 \$5.98.

Performance: Big-scale
Recording: Solid

These are heavy, authoritarian—not authoritative!—performances. We get the worst of both worlds: bulky big-orchestra sound along with chug-chug express-train "neo-classicism." The playing and the recording are good, and the whole thing is a kind of *tour de force*, but a *tour de finesse* would be somewhat more appropriate. This one's a no-no. *E.S.*

SCRIABIN: *Piano Sonatas: No. 4, in F-sharp Major, Op. 30; No. 5, in F-sharp Major, Op. 53; No. 6, in G Major, Op. 62; No. 7, in F-sharp Major, Op. 64. "White Mass"; No. 8, in A Major, Op. 66; No. 9 in F Major, Op. 68, "Black Mass"; No. 10, in C Major, Op. 70.* Roberto Szidon (piano). DEUTSCHE GRAMMOPHON 2530 131/132 two discs \$13.96.

Performance: Excellent
Recording: Fair

Perhaps, in the interest of true objectivity, critics ought to state the circumstances under which their reviews were written. You can imagine the sort of thing I mean: "Weather: hot and muggy; outrageous bill from the plumber; Gertrude left for her mother's this morning; slight case of indigestion after supper; didn't much care for Schnabel's Beethoven. . . ."

Well, these Scriabin sonatas were listened to, and this review written, on a stormy country day: darkness at noon, thunderstorms rolling up the bay, the music punctuated by flashes and crashes, buckets of rain on the roof and time out for power failures. "Boy," volunteered a young beached swimmer after the fourth soggy hour of enforced Scriabin, "isn't the weather creepy enough without all that creepy music?"

Good weather or bad, Scriabin's music is sort of creepy, and the larger the dose, the creepier it gets. These seven sonatas, written in the decade between 1903 and the composer's death in 1913, constitute major landmarks of early modern music, as original and revolutionary in their way as anything by Stravinsky or the Viennese. Indeed, except for Debussy, Scriabin was probably the most original composer in Europe in the first years of the century; the Fifth Sonata, written in 1907, easily tops anything that Schoenberg had attempted in its tonal and rhythmic freedom and expressionist intensity. With each succeeding piece the vision becomes still more intense, more unbearable: "tumultuous, exalted, vertiginously, with luminosity, ecstatic, mysterious, strangely, caressing wave, the dream takes form, terror surges up, a mysterious call, joyous, triumphant, with exalted joy, delirious dance, with celestial voluptuousness, with a vibrantly luminous spirit"—Scriabin's own performing directions suggest the intended character of his music far better than any poor adjectives a critic might summon up.

Each of these sonatas is a striking, ingenious, and evocative work, but six or seven of them in a row produce a bad case of progressive musical and spiritual indigestion—the "Scriabin

creeps," my young friend might call it. Too many augmented and diminished chords, too much pedal, too many spiritual orgasms. All the pieces are alike: heaving fragments sliced out of the great Cosmic Sonata of which Scriabin was privileged to have been able to overhear a few bars.

Taken in small doses—i.e., one sonata at a time—the extraordinary character of this music can perhaps get through. Even so, a basic problem remains. Many really intense, inward experiences—especially those designated "mystical"—require a certain prior quality of sympathetic belief or acceptance. I suspect that even to the current mystical/religious-minded generation, Scriabin's turn-of-the-century, post-Wagnerian, Russian-mystical, chromatic-neurasthenic throbbing is not likely to produce much in the way of sympathetic vibration.

Still, this is remarkable music, and it is strikingly performed by Roberto Szidon. The young Hungarian-Brazilian pianist realizes the wave-like motion and intense dynamic of this music brilliantly. On the other hand, a bit more clarity in the playing and recording might have helped counteract a bit that vague, sinking-into-the-morass feeling that Scriabin's music tends to produce after a while. *E.S.*

RECORDING OF SPECIAL MERIT

SIBELIUS: *Kullervo—Symphonic Poem for Soprano, Baritone, Male Chorus, and Orchestra, Op. 7; Kuolema—Incidental Music, Op. 44: Nos. 3 and 4, Scene with Cranes; Swanwhite—Incidental Music, Op. 54: No. 2, The Harp; No. 3, The Maidens with the Roses; No. 4, Listen, the Robin Sings; No. 5, Swanwhite and the Prince.* Raili Kostia (soprano); Usko Vitonen (baritone); Helsinki University Male Voice Choir; Bournemouth Symphony Orchestra, Paavo Berglund cond. ANGEL SB 3778 two discs \$11.96.

Performance: Thrilling
Recording: Superior

SIBELIUS: *Kullervo—Symphonic Poem for Soprano, Baritone, Male Chorus, and Orchestra, Op. 7.* Liisa Linko (soprano); Matti Lehtinen (baritone); Helsinki City Symphony Orchestra and Male Chorus, Jussi Jalas cond. SATURNIAN ® SJ-101 two discs \$12.00 postpaid. (Private recording, available from Saturnian Records, P.O. Box 493, Planetarium Station, New York, N.Y. 10024.)

Performance: Authentic
Recording: 1958 off-the-air mono

April 29, 1892, was a day of destiny in the musical life of what at that time was the Russian grand duchy of Finland. It was the date of the premiere in Helsinki of the epic *Kullervo* by the twenty-seven-year-old Jean Sibelius, who directed the performance himself. From that day the career of the then unknown but promising composer was virtually predetermined, at least in terms of his becoming a national culture-hero, eventually to be recognized as such throughout the world.

For all the furor that this tragic work inspired by the *Kalevala* aroused among its first hearers, Sibelius never allowed the score to be heard again in its entirety, though in his last years he spoke of making revisions. Until the concerts preceding Paavo Berglund's recording under review here, *Kullervo* had never been performed outside Finland, though a tiny and powerful bit of it, *Kullervo's Lament*, was recorded by Tom Krause (London OS 26030).

(Continued on page 104)

STEREO REVIEW

NEW DYNACO FM-5

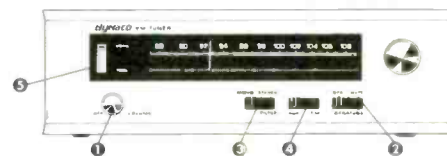


kit \$149.95
assembled \$249.95

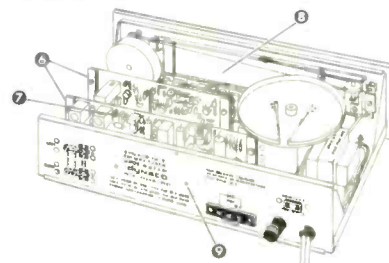
SOLID STATE TUNER

More than 6 years of engineering development have culminated in the stereo FM tuner you'd expect from Dynaco. The traditional value is coupled with consummate operating ease where it really matters—receiving the best broadcast signal. Unique DYNATUNE logic circuit automatically zeros in on the **precise** center of channel faster and more accurately than any other tuner made, with the smoothest, quietest, most sophisticated muting circuit ever.

The specifications of the FM-5 meet or exceed those of tuners costing far more. But performance, not published specs, is what counts. High sensitivity (1.75 uv), combined with exceptional phase integrity and lowest distortion in all signal modes, provides superior 4-Dimensional stereo reception. 65 db selectivity, 1.5 db capture ratio, 40 db separation. See and hear it at your Dynaco dealer.



1. Front panel level control and power switch
2. Switch for Dynatune plus Muting; Muting only; neither one
3. Switch for Stereo (automatic mono/stereo switching); Stereo Filter (reduces noise and treble separation); Mono
4. Switch for alternative high level AUXILIARY input
5. Signal strength meter



6. Kit supplies front end and 2 fiberglass circuit boards (all active circuitry) preassembled and wholly aligned
7. 3 FETs, 7 integrated circuits, 7 ceramic filters maintain alignment indefinitely
8. Massive flywheel, long uniformly spaced dial, simple dial stringing
9. Provision for accessory phono preamp on AUX input

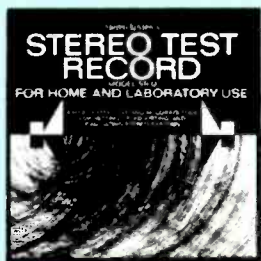
DYNACO INC. 3060 JEFFERSON ST., PHILADELPHIA, PA. 19121

a Sound Experience

FOR READERS OF *Stereo Review*

SEE FREE OFFER BELOW

**NEW STANDARD
in
Stereo Testing!**



**Model SR12
STEREO TEST RECORD**

The most complete . . . most sophisticated . . . most versatile Test Disc available today. Whether you're an avid audiophile who'll settle for nothing but peak performance from his stereo components . . . a casual listener who'd like more insight into the challenging world of stereo reproduction . . . or a professional technician who needs precise standards for lab testing . . . the SR12 is a must for your record collection.

Make these important stereo checks **BY EAR** . . . Frequency response • Separation • Cartridge tracking • Channel balance • Hum and rumble • Flutter • Cartridge and speaker phasing • Anti-skating adjustment • "Gun shot test" for stereo spread • Multi-purpose musician's "A." Equal-tempered Chromatic octave • Guitar-tuning tones.

7 critical **TEST EQUIPMENT** checks . . . Attention professionals: SR12 is also designed to be used as a highly efficient design and measurement tool. In the following tests, recorded levels, frequencies, etc. have been controlled to laboratory tolerances—affording accurate numerical evaluation when used with oscilloscope, chart recorder, output meter, intermodulation-distortion meter and flutter meter.

- 1,000-Hz square waves to test transient and high-frequency response of phono pickups.
- 500 to 20,000 Hz frequency-response sweep.
- Sine-wave tone-bursts to test transient response of pickup.
- Intermodulation test using simultaneous 400-Hz and 4,000-Hz signals.
- Intermodulation sweep to show distortion caused by excessive resonances in tone arm and cartridge.
- 1,000-Hz reference tones to determine groove velocity.
- 3,000-Hz tone for flutter and speed tests.

Sample waveforms—illustrating both accurate and faulty responses are provided in the Instruction Manual for comparison with the patterns appearing on your own oscilloscope screen.

**The Most Spectacular Sound
Exhibition of Stereo Fidelity
Ever Available on One Disc.**



**NOW AVAILABLE ON
STEREO CASSETTE**
THESE EXCITING SOUNDS ARE NOW
AVAILABLE ON STEREO CASSETTE!

**STEREO REVIEW
STEREO DEMONSTRATION RECORD**

The result of two years of intensive research in the sound libraries of Deutsche Grammophon Gesellschaft, Connoisseur Society, Westminster and Cambridge. The Editors of Stereo Review have selected those excerpts that best demonstrate the many aspects of the stereo reproduction of music. The record offers you a greater variety of sound than has ever before been included on a single disc.

ELECTRIFYING EXPERIENCE IN LISTENING
The Record is a series of independent demonstrations designed to show off one or more aspects of musical sound and its reproduction. Entirely music, the Record has been edited to provide self-sufficient capsule presentations of an enormous variety of music arranged in a contrasting and pleasing order. It includes all the basic musical and acoustical sounds that you hear when you listen to records. Isolated and pointed up to give you a basis for future critical listening.

WIDE RANGE OF DEMONSTRATIONS
• Techniques of separation and multiple sound sources • Acoustic depth • The ambience of a concert hall • Sharp contrasts of dynamics • Crescendo and diminuendo • Very high and very low pitched musical sounds • Polyphony (two or more melodies going on at once) with both similar and contrasting instruments • Tonal qualities of wind, string and percussion instruments • Sounds of ancient instruments • Sounds of oriental instruments • Sound of the singing voice, both classically trained and untrained • Plus a large sampling of finger snapping, hand clapping, foot stamping and other musical and percussive sounds.

13 SUPERB SELECTIONS:
STRAUSS: Festive Prelude, Op. 61 (excerpt) DGG • **DEBUSSY:** Jeux d'artifice (excerpt) Connoisseur Society • **BEETHOVEN:** Wellington's Victory (Battle Symphony) (excerpt from the first movement) Westminster • **MASSAINGO:** Conzona XXXV à 16 (complete) DGG Archive • **CORRETTE:** Concerto Comique Op. 8, No. 6, "Le Plaisir des Dames" (third movement) Connoisseur Society • **KHAN:** Raga Chandranandan (excerpt) Connoisseur Society • **RODRIGO:** Concert—Serenade for Harp and Orchestra (excerpt from the first movement) DGG • **MANITAS DE PLATA:** Gypsy Rhumba (complete) Connoisseur Society • **MARCELLO:** (arr. King): Psalm XVII "The Heavens are Telling" (complete) Connoisseur Society • **PRÆTORIUS:** Terpsichore: La Bourée XXXII (complete) DGG Archive • **BERG:** Wozzeck (excerpt from Act III) DGG • **BARTOK:** Sonata for two pianos and Percussion (excerpt from the first movement) Cambridge • **BEETHOVEN:** Wellington's Victory (Battle Victory) (excerpt from the last movement) Westminster.

**Created specifically
for playback through
stereo headphones.**



**BINAURAL DEMONSTRATION
RECORD**

**This unique record
presents sound of
unsurpassed realism.**

Binaural recording re-creates the directions, distances, and even the elevations of sounds better than any other recording method. The super-realism of binaural recording is accomplished by recording the acoustical input for each ear separately, and then playing it back through stereo headphones. Thus the sound intended for the left ear cannot mix with the sound for the right ear, and vice versa.

Binaural recording offers the listener the identical acoustical perspective and instrument spread of the original. The sound reaching each ear is exactly the same as would have been heard at the live scene.

"MAX"—GENIE OF BINAURAL RECORDING. "Max," a specially constructed dummy head, cast in silicone rubber, duplicates the role of the human head as an acoustical absorber and reflector of sound. Super-precision capacitor microphones were installed in Max's ears so that each microphone would pick up exactly what each human ear would hear. The result is a demonstration of phenomenal recorded sound.

STARTLING REALITY. The Binaural Demonstration Record offers 45 minutes of sound and music of startling reality. You'll marvel at the eerie accuracy with which direction and elevation are re-created as you embark on a street tour in binaural sound—Sounds Of The City . . . Trains, Planes & Ships . . . a Basketball Game, a Street Parade, a Street Fabrication Plant, The Bird House at the Zoo—all demonstrating the incredible realism of binaural sound reproduction.

MUSIC IN BINAURAL. The musical performances presented on the Binaural Demonstration Record transport you to the concert hall for a demonstration of a wide variety of music. Selections total 23 minutes, and include examples of jazz, organ, and chamber music. The Stereo Review Binaural Demonstration Record is the ultimate in sound reproduction. It has been made without compromise.

Although headphones are necessary to appreciate the near-total realism of binaural recording, the record can also be played and enjoyed on conventional stereo systems.

The Stereo Demonstration Record ONLY is available in your choice of 33-1/3 or 45 RPM.

BOOKLET WITH EACH ALBUM

SR12: Informative manual includes charts, tables, diagrams.
Demonstration Record and Cassette: Discussion of the selections plus description of each selection performed.



FREE WHEN YOU ENCLOSE PAYMENT WITH YOUR ORDER. For orders totaling \$20 and over . . . THE SOUND OF CHILDREN—a 12" LP record by Tony Schwartz, the famed authority on sound.

Regular price \$4.98—FREE if your order totals \$20 or over—PLUS—YOU SAVE ALL SHIPPING & HANDLING CHARGES ON CASSETTE AND CARTRIDGE CASES.

SAVE POSTAGE—For orders totaling under \$20 you still can save by DEDUCTING ALL SHIPPING & HANDLING CHARGES for Cassette and Cartridge Cases provided you enclose payment with your order.

Hold It!

Stereo Review has the answer to your storage problems...

DELUXE CASSETTE & 8-TRACK CARTRIDGE CASES



Decorative and sturdily constructed, Stereo Review Cassette Storage Cases are just what you've been looking for — the ideal solution to keeping your cassettes neatly stored for easy use.

- **LARGE CAPACITY:**
Individual storage slots for 60 (5 dozen) cassettes.
- **SIZED FOR THE COLLECTOR:**
13½ inches high, 12¾ inches deep, 5½ inches wide... designed to fit easily on the same bookshelf as your disc collection.
- **SPILL-PROOF:**
Storage slots are tilted back slightly to prevent cartridges from falling out during handling.
- **DECORATIVE:**
Handsome outer case elegantly embossed in gold in your choice of three popular decorator colors—black, brown and green.
- **EASY-TO-IDENTIFY:**
Pressure sensitive labels included *free* of charge to identify your own blank tape dubbings as well as the occasionally unmarked pre-recorded tape.

This *all new* Stereo Review Cassette Storage Case with its handsome leatherette covering is truly the answer to the cassette storage problem. It lends itself readily to the decor of any room and serves to store an unusually large number of cassettes (60) compactly, so that they take up very little room on your bookshelf.

If you prefer or require a smaller unit, a Storage Case holding 30 cassettes is also available. It measures 13½ inches high, 6½ inches deep, 5½ inches wide and is available in the same choice of decorator colors.

60-unit Cassette Storage Cases are \$13.95 each—2 units for \$25.
30-unit Cassette Storage Cases are \$7.95 each—2 units for \$15.
8-track Cartridge Storage Cases are \$4.95 each; 3 for \$13; 6 for \$25.

Add 50c *per unit* ordered for postage and handling (except orders for 6—8-track Cartridge Cases—add \$1.50 total).

8-TRACK CARTRIDGE CASE



For those of you faced with similar storage problems for your 8 track cartridges, this attractive unit is your solution. It measures 13¾ inches high, 6½ inches deep, 4½ inches wide, has individual storage slots for 12 cartridges and is of the same sturdy construction and decorative appearance as the Cassette Case.

Records—Dept. 23, Ziff-Davis Publishing Co.,
1 Park Avenue, New York, N.Y. 10016

- O.K. Please bill me
- Payment enclosed for order under \$20 — I save shipping and handling charges.
- Payment enclosed for order over \$20 — I save shipping and handling charges and receive, **FREE OF CHARGE**, The Sound of Children Record.

Quantity

- _____ SR 12 TEST RECORDS @ \$5.98 each, postpaid
- _____ STEREO DEMONSTRATION RECORDS @ \$5.98 each, postpaid
CHECK ONE: 33½ RPM 45 RPM
- _____ STEREO DEMONSTRATION CASSETTES @ \$6.98 each, postpaid
- _____ BINAURAL DEMONSTRATION RECORDS @ \$5.98 each, postpaid
- _____ 60-Unit CASSETTE STORAGE CASES @ \$13.95 each; 2 for \$25.00
- _____ 30-Unit CASSETTE STORAGE CASES @ \$7.95 each; 2 for \$15.00
- _____ 12-Unit CARTRIDGE STORAGE CASES @ \$4.95 each; 3 for \$13; 6 for \$25

Check color choice for back of CASES (sides in black only):

- Brown Green Black

CHARGE ORDERS ONLY: YOU WILL BE BILLED 50c per CASE ordered for shipping and handling (except orders for 6-8 Track Cartridge Cases—\$1.50 total).

OUTSIDE U.S.A.: Records and Cassette are \$8.00 each, postpaid. For all cases add \$1.00 per unit ordered. Payment must be enclosed with orders outside U.S.A. only.

print name _____

address _____

city _____ SR-1271

state _____ zip _____

New

DISCRETE

The 2nd



NEW LAFAYETTE LR-440

FEATURES...

- 170 Watts \pm 1db (42.5 W/Ch) at 4 Ohms
- Automatic FM Stereo Indicator
- "ACRITUNE" Indicator Lamp for Precise FM Tuning
- 4-Channel Tape Input and Output Jacks
- Derived 4-Channel Tape Output Jacks

Only **369**⁹⁵
with
case

Now With SQ Decoder Circuitry.

LAFAYETTE®

170-Watt Compatible 4-Channel FM/AM Stereo Receiver...

Plays Discrete 4-Channel Stereo Program Material, Derives and Plays 4-Channel Stereo From Your Present Stereo Records, Tapes, and FM Broadcasts.

**4 Separate Amplifiers
for Discrete 4-Channel**

**Exclusive "Composer"
Circuitry For Deriving
4-Channel Sound**

**Can Be Used As Two Separate
2-Channel Amplifiers
Simultaneously**

**Main And Remote
Speaker Outputs
For All Four Channels**

4-CHANNEL STEREO

Hi-Fi Revolution...



NEW
LAFAYETTE
RK-48

LAFAYETTE RK-48 COMPATIBLE 2 and 4-CHANNEL STEREO 8-TRACK CARTRIDGE TAPE DECK

- Plays 4-Channel Stereo 8-Track Cartridges thru a 4-Channel Stereo Amplifier
- Plays 2-Channel Stereo 8-Track Cartridges thru either a 2-Channel or 4-Channel Stereo Amplifier
- 4 Solid-State Stereo Playback Pre-Amplifiers

Only **79⁹⁵**



4-CHANNEL 8-TRACK AM/FM BROADCAST STEREO MUSIC SYSTEM

Consists of Model LR-440 Compatible 4-Channel AM/FM stereo receiver, 4 Lafayette Criterion "50A" speaker systems in oiled walnut, and the Lafayette RK-48 compatible 2 and 4-channel stereo 8-track cartridge tape deck.

Only

521⁹⁵

Save 60.32

From Individual Catalog Prices

4-CHANNEL 8-TRACK AM/FM STEREO PHONO MUSIC SYSTEM

Same as above, but includes Garrard Model 40B Automatic Turntable, matching base, and Lafayette/Pickering Phase 44 Elliptical Stereo Cartridge with diamond stylus.

Only

586⁹⁵

Save 90.27

From Individual Catalog Prices



New!

FREE!

1972 Catalog
468 Pages

Your Guide to
"Everything in
Electronics"

Lafayette Radio Electronics, Dept. 11121, Box 10, Syosset, New York 11791

Please send my FREE 1972 Catalog #720 to:

11121

Name _____

Address _____

City _____

State _____

Zip _____

The score stems from a somber *Kalevala* tale of a blood-feud, in which the orphaned and enslaved lad Kullervo makes good his escape, eventually finding his supposedly slain mother and father. The dark and fateful aspects of Kullervo's background and early days are evoked in the orchestral *Introduction and Kullervo's Youth*. Both are full-scale symphonic movements, rather sprawling but strong in thematic substance and thoroughly competent in developmental technique. But it is in the third movement, *Kullervo and His Sister*, for soprano, baritone, and chorus, that we come face-to-face with genius. From the first bars, depicting Kullervo setting forth in his sleigh, the Sibelius touch is unmistakable, and with the entry of the chorus and then the soloists we understand the essence of the Sibelius idiom in its special aspect of turning Finnish-language speech-rhythm to the most powerful dramatic effect. The tragic ending of the Kullervo tale is set forth by Sibelius with elemental power, with the main theme of the introduction returning as symphonic capstone to the whole.

The first complete performance of *Kullervo* since the 1892-1893 Helsinki season was that conducted by the composer's son-in-law, Jussi Jalas, at the 1958 Sibelius Festival (the composer had died the previous September at the age of ninety-one), and it is this performance which is preserved on the privately issued Saturnian discs.

The Helsinki City Symphony Orchestra as of 1958 was no major ensemble, to judge from the occasional bits of unsteady string and wind intonation that crop up in the recording of the festival broadcast, but there is no mistaking the vocal eloquence of Matti Lehtinen and of Liisa Linko, not to mention the power and precision of the fine male chorus. Conductor Jalas is endowed with a powerful dramatic and architectural sense, which he brings into full play throughout the performance. Unhappily, the recording itself leaves much to be desired by contemporary standards. Much orchestral detail is missing as a consequence of "on location" miking, and there is an obtrusive hum.

Thanks to the imagination of someone at EMI in London, the 1970 visit of the Helsinki University Male Voice Choir to Bournemouth and London for the first performances of *Kullervo* outside of Finland was seized upon as the perfect occasion for getting the score properly recorded under the direction of Paavo Berglund, chief conductor of the Finnish Radio and, in my opinion (based on "live" concert hearings), the best of Finland's younger maestros.

Everything that one sensed buried in the sonic murk of the broadcast recording springs to pulsating life under Mr. Berglund's baton. The Bournemouth Symphony musicians play their hearts out, the Finnish soloists are, if anything, even more eloquent than their colleagues of the 1958 performance, and the work of the Helsinki University Male Voice Choir can be described in just one word—*smashing!*

The recording locale in the Southampton Guildhall has provided an absolutely ideal ambience for the huge tonal vistas of Sibelius' epic score, and the EMI recording team has come through with results wholly comparable to the best of its major British, German, and Dutch competition.

The fourth side of this *Kullervo* recording offers some charming chips from the Sibelian work bench in the form of beautifully played theater-music excerpts—in the one instance from Strindberg's fairy-tale play *Swanwhite*, and in the other from *Kuolema* (Death). a

1903 drama by Arvid Järnefelt, Sibelius' brother-in-law. The first number from the latter incidental score was one that made Sibelius a household name throughout the world—*Valse triste*. D.H.

RECORDING OF SPECIAL MERIT

SMETANA: *Má Vlast (My Fatherland)*—*Symphonic Cycle*: 1. *Vyšehrad*; 2. *The Moldau*; 3. *Šárka*; 4. *From Bohemia's Meadows and Forests*; 5. *Tábor*; 6. *Blaník*. Boston Symphony Orchestra, Rafael Kubelik cond. DEUTSCHE GRAMMOPHON 2561 074/5 two discs \$13.96.

Performance: Brilliant
Recording: Powerful

As a young man of twenty-four, Rafael Kubelik, in 1938, made his commercial recording debut conducting the Czech Philharmonic Orchestra in *The Moldau* and *From Bohemia's*



RAFAEL KUBELIK

Fiery and volatile reading of Má Vlast

Meadows and Forests, performances subsequently issued on RCA Victor 78's in this country and greeted with critical acclaim. A decade—and a World War—later I met Kubelik during the course of a Czech Philharmonic rehearsal in Prague, and five years subsequently had the good fortune to produce Kubelik's first recording of the full Smetana tone poem cycle for Mercury with the Chicago Symphony Orchestra.

A second Kubelik reading of the cycle came from the Vienna Philharmonic on the London label in 1959, in stereo, and now we find Maestro Kubelik back in the States for his third crack at it and with the best orchestra of the lot, the redoubtable Boston Symphony.

Beginning with the Vaclav Talich-Czech Philharmonic 78's of the early 1930's, I would guess that I have heard every complete recording ever done of Smetana's fascinating—and from the point of view of recording—challenging cycle. The major challenge for the recording producer lies not only in having the most knowledgeable conductor possible and the best possible orchestra for the work at hand, but getting them into a hall that will enhance the best (Mozartian) aspects of Smetana's scoring and minimize the worst (Lisztian) aspects, which arise from *tutti fff* scoring in which the mid-range overbalances the bass, resulting in

an effect of shrillness rather than brilliance and power. The somewhat excessive brightness of Chicago's Orchestra Hall was responsible for the less than complete success of the 1953 Mercury recording in this respect, though some of that performance had extraordinarily thrilling moments that still come through with amazing vividness—for example, *Šárka* in all her demonic fury.

For my taste, the most successful matching of recording locale to Smetana's scoring is to be found in London's Leipzig Gewandhaus Orchestra performance with Kubelik's somewhat younger compatriot (now also exiled) Vaclav Neumann, but the Leipzig players are no match for the Bostonians. The nub of the competition between the two very distinguished performances of *Má Vlast* currently offered by DGG and London boils down to fine points of interpretation.

As was the case with his Chicago performance, Kubelik's reading of the cycle as a whole is fiery and volatile; and there is no question but that he has all the best of it in *Vyšehrad* and *The Moldau*. The harps have never sounded so truly bardic as in Kubelik's opening page, nor have I ever heard such clear detailing of inner voices in the more complex passages of *The Moldau*—especially in the "hunt" episode just before the polka. I would have liked more cymbal presence in *Vyšehrad* and in the two succeeding pieces—*Šárka* and *From Bohemia's Meadows and Forests*—less timpani in those passages where they merely reinforce the rhythm.

To accommodate the two final pieces—*Tábor* and *Blaník*—on the same record side is just right dramatically, since they have in common the tune of the great Hussite battle hymn *Ye Who Are Warriors of God*, together with the elemental rhythmic figure devised by Smetana as a basic binding element. Fortunately, this is the case with the DGG set, which Kubelik and the Bostonians wind up in a blaze of glory as the opening bardic theme combines with the Hussite hymn *con tutta forza*.

Returning to the rival Neumann reading on London, his orchestra is not the equal of the Boston Symphony, and his readings of the first four pieces seem tame and easygoing next to Kubelik's, but as I noted in my original review and confirmed on rehearing, the recording is blessed with extraordinary richness of string tone and a solidity of bass line that minimizes the occasional shrillness of Smetana's *tutti* scoring. The major interpretive parting of the ways between Kubelik and Neumann comes in the *Tábor-Blaník* sequence, which Neumann takes at a somewhat more measured pace (he also gets his best orchestral playing here) and by some alchemy achieves a sense of overwhelming climax and finality that even Kubelik's brilliance can't surpass.

Nevertheless, all points considered, it is the superior orchestral playing—the best ever accorded *Má Vlast* on records—that tips the balance for me in Kubelik's favor. D.H.

STRAVINSKY: *Serenade in A*; *Duo Concertant*; *Capriccio for Piano and Orchestra*; *Piano Rag Music*. Igor Stravinsky (piano); Samuel Dushkin (violin in duo); Orchestre des Concerts Straram, Ernest Ansermet cond. SERAPHIM 60183 \$2.98.

Performance: Authentic
Recording: Acceptably good

How touching to have this record of Stravinsky's own piano performances now that he has
(Continued on page 106)

SONY SUPER REVERSABILITY

Lets you play on and on.

ESP Continuous Automatic Tape Reverse. Special Electronic Sensory Perception circuitry indicates the absence of a recorded signal at the end of a tape and automatically reverses tape direction within ten seconds. Perfect for hours of continuous background music but also equipped to play both sides of the tape just once and then automatically shut off.

Three-speed ServoControl Motor. Automatically corrects for speed variations and maintains precise timing accuracy. Plus two outer-rotor torque motors for precise tape handling.

Scrape Flutter Filter. Special precision idler mechanism located between record and playback heads reduces tape modulation distortion.

Electro Bi-Lateral Six Head Function with Central Capstan Drive. Electro bi-lateral heads significantly reduce head alignment problems while still allowing six head versatility. Central capstan drive assures precise tape motion in either direction.

Relay and Solenoid Operation. Electronic relays and positive action solenoids activate the operating mechanisms with precision and ease.

Other Features: Four-track stereophonic recording and playback—in both directions. Three speeds. Two large illuminated VU meters. Stereo headphone jack.



Sony Model 580—\$449.95. Also Available: The Sony Model 440 tape system with foil activated auto-reverse, roto bi-lateral heads with six head function and three speeds for only \$369.95.

See either of these outstanding automatic reversing reel-to-reel decks at your Sony/Superscope dealer or write for full details to Mr. Richard Linda, Sony/Superscope, Inc., 8144 Vineland Ave., Sun Valley, Calif. 91352.

SONY SUPERSCOPE

You never heard it so good.®

gone to his rest in Venice. Since I'm reviewing from an advance copy of this Seraphim disc, I have no information on the date of the original releases. I would guess, though, based on the rather antique sonics and on the warm amplexness of Stravinsky's interpretations, that the recordings date from quite far back (the Thirties). There is none of the astringency that came to be associated with Stravinsky's music over the years, thanks in part to his verbal insistence on music-as-notes, rather than music-as-expression. Here, in the *Serenade in A*, the tempos are easygoing and graceful, the little manneristic flutters and reversals of rhythmic direction are accomplished with charm and amiability rather than the icy determination one sometimes hears from other performers. The composer and violinist Samuel Dushkin, in the *Duo Concertant*, gives an utterly moving, emotionally sensitive exposition of this miraculous work's elegant formal designs and humane musical content. Again, this is far from an acerbic performance. Dushkin plays with immense sweetness and subtlety, and the problems of acoustical mating between the two disparate instruments, which originally intrigued Stravinsky, are solved not only in the music itself, but in the performance as well. Everyone who has not heard this recording before should have it in his library now.

The *Capriccio* for piano and orchestra is less fortunate in its treatment, for the sonics are murky indeed, and the orchestra Ansermet conducted was not particularly adept. There is not much sensuous pleasure to be had in listening to this side. But, again, priceless stylistic revelations are furnished by Stravinsky's playing. The record ends with his somewhat studious performance of the *Piano Rag Music*. This recording is a dated charmer, but a charmer nonetheless. L.T.

THORNE: *Liebesrock*. ANDERSON: *Chamber Symphony*. BROZEN: *In memoriam*. Royal Philharmonic Orchestra, James Dixon cond. COMPOSERS RECORDINGS, INC. CRI SD 258 \$5.95.

Performance: Good
Recording: Good

Liebesrock, which begins this record, is an unusual piece by a very unusual composer. To say that he is "marching to a different drummer" would be an understatement. In a period of post-Webern-like astringency, he aims here for textural bulk and opaque (though resonant) sonorities. In an era when quotations *à la* Ives have ceased to be fashionable, he uses them with deliberation and evocativeness. In a decade when jazz has become past-tense to rock, he incorporates jazz, or the spirit of jazz, into his music and spices it up with, of all things, electric guitars! "Surrealist" probably comes closest to describing this programmatic piece. It is a kind of loose-structured psychological orgasm, a brief twentieth-century sequel to Wagner's *Liebestod*. I find it impressive for its originality of viewpoint and its intensity.

T. J. Anderson's *Chamber Symphony* is also a rather intense work, though much of the tension is a matter of surfaces rather than interior meanings. The melodic gestures are angular and spasmodic, capturing attention from moment to moment rather than forming a continuity. Despite the fact that events do occur and recur, giving audible evidence of structuring, I don't discern a strong sense of organization binding the brilliant surfaces together. Nevertheless, the piece is handsome.

Michael Brozen's *In Memoriam*, on the

poem by Tennyson, is less concerned with modernity of surface. In fact, the composer seems almost entirely preoccupied with the projection of emotions and sentiments, giving little attention to anything else. His idiom is extremely simple. To call it conservative would not be accurate, for even within that frame of reference, *In Memoriam* is a singularly unadventurous piece. There are a few moments of strength and starkness, in which the music takes on a slightly Prokofievian cast, but overbalancing these are long stretches of very ordinary vocal writing and disappointing orchestration. The composer's desire to communicate is clear. For this reason, one wishes he would strengthen his techniques a bit, and dig a lot deeper into his own individuality. L.T.

RECORDING OF SPECIAL MERIT

VERDI: *Don Carlo*. Plácido Domingo (tenor), Don Carlo; Montserrat Caballé (soprano),

RCA



SHIRLEY VERRETT
Vital and convincing as Eboli

Elisabetta di Valois; Sherrill Milnes (baritone), Rodrigo; Shirley Verrett (mezzo-soprano), Eboli; Ruggero Raimondi (bass), Filippo II; Giovanni Foiani (bass), Grand Inquisitor; Simon Estes (bass), a Friar; Delia Wallis (soprano), Tebaldo; Ryland Davies (tenor), Lerma; other soloists; Ambrosian Opera Chorus; Orchestra of the Royal Opera House, Covent Garden, Carlo Maria Giulini cond. ANGEL SDL 3774 four discs \$23.92.

Performance: Good
Recording: Very good

Few operatic performances anywhere have evoked the kind of popular and critical rejoicing that greeted Covent Garden's 1958 production of Verdi's *Don Carlo*, staged by Luchino Visconti and conducted by Carlo Maria Giulini. And now that Giulini's much admired view of this spectacular opera is at last perpetuated on records with vocal soloists drawn from among the most celebrated performers of the day, every indication would seem to point to a new recording landmark.

Well, this much-anticipated *Don Carlo* is decidedly a conscientious and praiseworthy effort, with episodes of decided brilliance. But it is not the towering achievement suggested by its bright auspices. For one thing, its brilliant theatricality is understated, as if the "theatrical"

side of Giulini's conducting personality had been subdued by its "symphonic" side. The ensemble work is fine and the orchestral tone is sumptuous, but the vitality of the score is not sustained on a consistently high level. There are high points, to be sure: the *auto-da-fé* scene exudes a grandeur other conductors on records have not been able to match, the conclusion of the Carlo-Elisabetta encounter in the second act is excitingly managed, and so is Eboli's *grand scena* ("*O don fatale*"). But elsewhere, there is often a want of crispness in rhythm, a preference for tempos that seem just a shade overdeliberate, and a pervading sense of calculation rather than inspiration. In the final analysis, I do not find Giulini's conducting less effective than that of his recorded counterparts, Georg Solti (London) and Gabriele Santini (DGG), but I expected more, and therefore feel a sense of disappointment.

The same disappointment carries into the evaluation of the singers as well, all of whom are first-rate artists who, in this instance, operate somewhat below their best form. Elegant and musicianly as always, Plácido Domingo offers singing that is bright and appealing in tone but rather bland in expression. Shirley Verrett is the opposite: not the ultimate in vocal polish, and occasionally overmatched by the torrential demands of her role, she nonetheless offers a vital, vibrant, and convincing Eboli. In the role of King Philip, Ruggero Raimondi displays a solid, well-schooled voice that is a shade weak in the lower range. He acquires himself impressively by dint of his vocal skills, except in the *auto-da-fé* scene, where a more commandingly regal characterization is called for.

Montserrat Caballé sings her long aria in the final act beautifully, floats some breathtaking pianissimos elsewhere, and displays a range that is admirably equalized to include well-supported tones at the low end. Her singing, however, is rather uneven, given to considerable tonal unsteadiness (particularly in the *Romanza* of the second act) and to occasionally indifferent phrasing. The Rodrigo of Sherrill Milnes deserves praise for sonority and for some nice *mezza-voce* phrasing, but there is some tightness in the upper range and occasional lapses in intonation. Giovanni Foiani is a competent bass; unfortunately, the role of the Grand Inquisitor calls for a great deal more than that. Among the supporting singers, Ryland Davies rates special praise.

Technically, the production is impressive, with a clear delineation of the score's complexities. I am surprised, though, that Giulini approved the recorded balance in the trio "*Oh, destin spietato*" (Act Three), in which the mezzo and baritone are given equal prominence with the tenor, whereas their roles are those of textual counterpoint and harmonic support. And, having cracked on a note, why was the Grand Inquisitor not allowed a simple retake on the phrase "*esaltar la fé*"? These are surprising lapses in what is otherwise a good technical production.

There are three stereo recordings of *Don Carlo* now, all containing the crucial Fontainebleau episode (Act I), omitted in virtually all staged productions. None is perfect, but all three are more than satisfactory and all three can be recommended. Angel's new version may lack individual contributions of outstanding caliber, but it is not handicapped by such inadequate elements as the Elisabetta of Antonietta Stella (DGG) or the Rodrigo of Dietrich Fischer-Dieskau (London). G.J.

(Continued on page 108)

As new and brawny as the Mark IV. As different as the 280SL. Isn't that what you'd like to get in a 399⁹⁵ stereo receiver?



Front Access "Flip-Top." You can connect, disconnect and reconnect all audio cables without moving the receiver. The most difficult hook-ups now made easy. Only Realistic has it!



Power/Program Pushswitches. Five of them turn on the receiver. And select a function, and light-up to very visibly identify it. The 6th turns off the receiver—no need to keep resetting volume. Very handy. Only Realistic has them!



Independent AM Front End and Dial. Because you need it for true wideband AM sound. It approaches FM quality. And you don't have to detune one band to tune the other. This is the way it should be in the top-of-the-line.



Independent FM Front End and Dial. Because Realistic does not believe in sacrificing FM quality to "throw in" AM for the sake of advertising claims. Engineered "from the start" for the ultimate in stereo, not a modified design!



The most innovations in a decade—everything for the serious music lover. A midrange tone control for emphasizing or de-emphasizing vocalists. Tape facilities so complete you can dub from two tape decks in either direction. Variable FM muting. An FM dial pointer that glows "white" on stereo, "red" on mono. Realistic-invented "FM Stereo Select" for automatic stereo-only tuning, "Glide-path" sliding volume controls with "Perfect Loudness" for correct tone compensation at all listening levels, "Flip-Lever" switches for visible indication of a non-normal position. 200-watt power. The Realistic STA-180, with \$29.95 value walnut case included—underpriced (because we sell factory-direct!) at our store near you.*



**FREE
Hi-Fi Catalog!**

At our over
1200 stores
nationwide!

Supermarket of Sound!

ALLIED RADIO SHACK

A TANDY CORPORATION COMPANY

2725 W. 7th St. Fort Worth, Texas 76107

*We'll ship postpaid in USA if you can't find us in the Yellow Pages. Add your state, local taxes; address above.

HEAR HERE

FOR THE UTMOST IN

DISCOUNTS

ON NATIONALLY
ADVERTISED

HI-FI STEREO COMPONENTS

WRITE FOR OUR QUOTE

All Merchandise Shipped
Promptly Fully Insured From
Our Warehouse.

DOWNTOWN AUDIO, INC.

17 WARREN ST.
NEW YORK, N.Y. 10007
267-3670-1-2
DEPT. S.R.

CIRCLE NO. 26 ON READER SERVICE CARD

DISCOUNTS HI-FI SYSTEMS COMPONENTS

KITS • COMPACTS

TUNERS • AMPLIFIERS

RECEIVERS • TURNTABLES

SPEAKERS • TAPE RECORDERS

- Franchised Distributors for over 70 mtrs.
- Largest selection in the country
- Full manufacturers warranty protection
- Only brand new, factory sealed components
- Fast, fully insured shipments
- Double-boxed cartons where possible
- Same day reply to your inquiry
- Extra savings on complete systems
- Lowest possible prices

WRITE FOR OUR QUOTE AND SPECIALS BULLETIN
VISIT OUR NEW MODERN SHOWROOM/WAREHOUSE
FREE AMPLE PARKING AT PREMISES

ARSTON *Stores*

146 OLD BROOKFIELD RD. (NORTH)
DANBURY, CT. 06810
DANBURY, CT. (203) 744-6421
N. Y. CITY (212) 369-6212

CIRCLE NO. 18 ON READER SERVICE CARD

RECORDING OF SPECIAL MERIT

WAGNER: *Lohengrin*. Ludwig Hoffman (bass), King Henry; Franz Völker (tenor), Lohengrin; Maria Müller (soprano), Elsa; Jaro Prohaska (baritone), Telramund; Margarete Klose (contralto), Ortrud; Walther Grossmann (baritone), Herald. Chorus and Orchestra of Berlin State Opera, Robert Heger cond. PREISER Ⓜ LOH four discs \$29.95.

Performance: Excellent
Recording: Dated sound

Though I have great admiration for the Austrian Preiser label (producer of many historical reissues of outstanding quality which are available here through a number of specialty shops), I approached this *Lohengrin* with some apprehension: can *anything* accomplished or perpetrated in the Berlin of 1943 be worth preserving? Well, this may be one of the exceptions. There are no explanatory notes with the set, but it is apparent that it is a radio broadcast of a "live" performance. (Stage movements and audience noises are noticeable, though the applause has been edited out.) The orchestral sound betrays its age, all choral climaxes are distorted, and the "presence" of the singers is variable according to their changing relationship to the microphone. But listeners tolerant of such shortcomings will be rewarded with a *Lohengrin* that no modern recording has equaled.

The cast consists of eminent Wagnerians who were the Bayreuth idols of that distasteful era. Even if they were all past their prime by 1943, individually and collectively they are a formidable group. Franz Völker (forty-four at the time) is an ideal Lohengrin: manly yet tender, a singer of intelligence and poetic imagination. The Elsa of Maria Müller (forty-five) is more womanly than the character we are likely to encounter in most portrayals. But her interpretation is believable in its totality, and attractively vocalized, with a particularly affecting "*Euch Lüften*." I have never heard a more commanding Ortrud than the sumptuous-sounding, thoroughly evil realization of Margarete Klose (forty-one) in this performance, and although the tones of Jaro Prohaska (fifty-two) reveal some fraying, there is depth and authority in his Telramund. Ludwig Hofmann (fifty-eight) is also less than perfect vocally, but he is in admirable command of King Henry's wide-ranging music, and the natural flow of his declamation is a model. In general, the clarity of pronunciation and a really impressive attentiveness to textual nuances are among the many outstanding qualities offered by this exceptional cast.

It is not fair to judge conductor Robert Heger (then fifty-seven and now the only survivor among the principal artists) on the basis of an orchestral sound that is far below the current standard, but he maintains a fine ensemble throughout, never allows the music to drag, and, as a matter of fact, provides constant forward momentum by pointing up such dramatic turns as the score affords. There are some choral imprecisions, and the brasses of the stage band are not the best imaginable, but such things must be expected in a "live" performance. High-fidelity champions should not touch this set with a ten-foot pole; connoisseurs of topnotch Wagnerian singing will find it cherishable in spite of its badly outdated sonics. G.J.

WAGNER: *Parsifal*. Thomas Stewart (baritone), Amfortas; Karl Ridderbusch (bass), Ti-

turel; Franz Crass (bass), Gurnemanz; James King (tenor), Parsifal; Donald McIntyre (baritone), Klingsor; Gwyneth Jones (soprano), Kundry; Hermin Esser (tenor), First Knight; Bengt Rundgren (bass), Second Knight; others. Chorus and Orchestra of the Bayreuth Festival, Pierre Boulez cond. DEUTSCHE GRAMMOPHON DGG 2173 004 five discs \$34.90.

Performance: Individual and not fully convincing
Recording: Very good

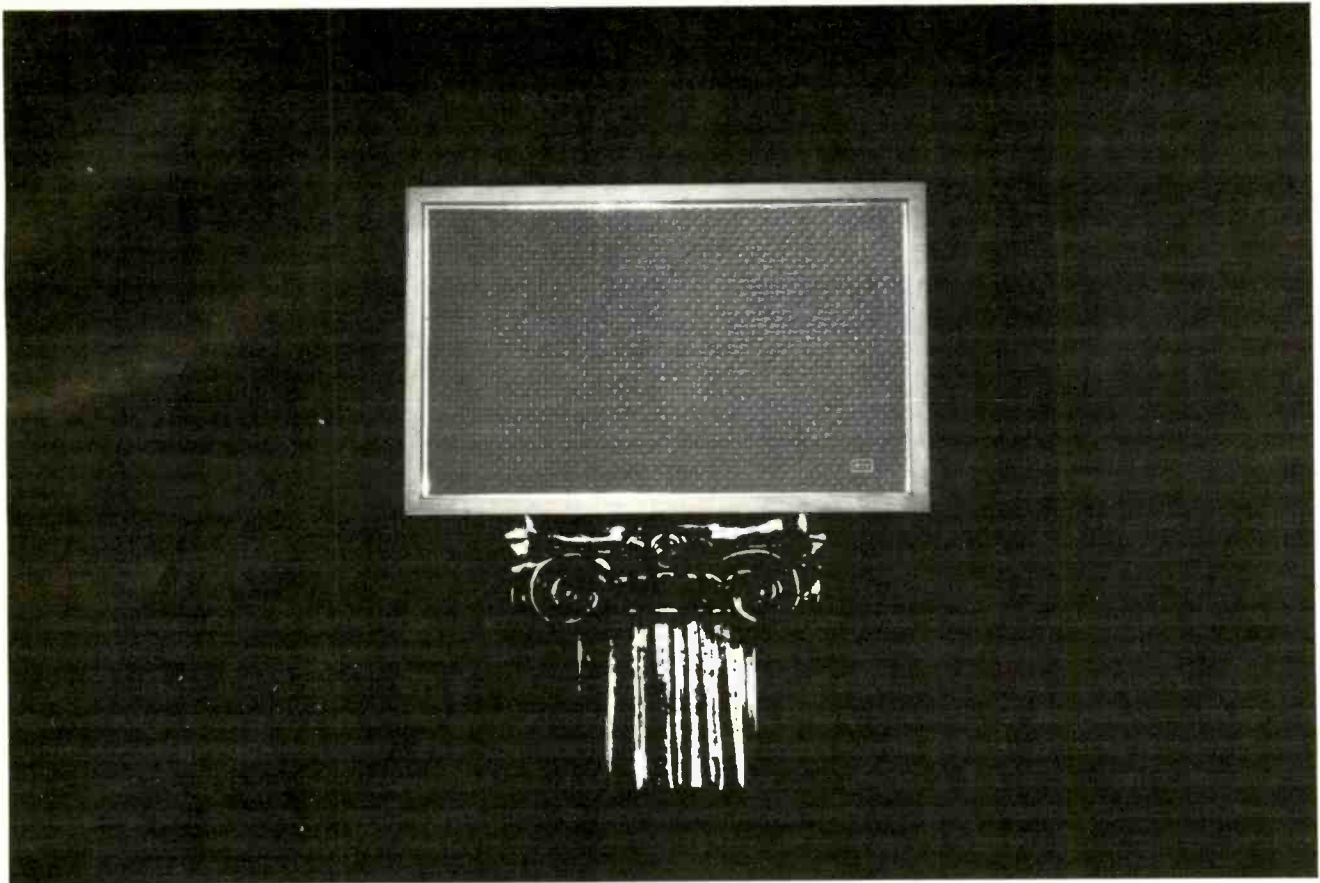
For totally committed Wagnerites, *Parsifal* is the cumulative summation of the Master's artistic principles and a music drama expressive of the sanctity of religious rituals. It is fair to establish at the outset of this review that my commitment to Wagner falls several degrees short of total. I turn to his music with an enthusiasm that *knows* its bounds, and rarely are these bounds reached more quickly than they are during the four hours of *Parsifal*. But even Wagnerian nonbelievers will not deny that *Parsifal* contains vast stretches of noble, beautiful, and eloquent music that displays a supreme mastery of vocal and orchestral writing. So, though unmoved by the work's complicated and insincere religiosity, wary of its symbolism, tortured by its poetry, and regretful of its excessive length, I address myself in this review to the work's inextinguishable musical values.

Bayreuth was the scene of DGG's new recording, just as it had been in 1951 and 1962 when previous *Parsifals* were recorded at the Festival for London and Philips, respectively, under the leadership of Hans Knappertsbusch. In the present recording, taped in 1970, the conductor is the brilliant and almost always controversial Pierre Boulez. His way with the score has the value of transparency, an almost delicate quality one seldom associates with Wagner. But, to gain his clear textures, Boulez must sacrifice the lushness of sound we have learned to admire in the Wagnerian readings of a Knappertsbusch or a Solti. There is an unquestionable inner logic in Boulez's reading, and he knows how to build impressive climaxes. What his interpretation lacks, for my taste, is sustained grandeur and noble lyricism. And though he is always considerate of his singers in matters of dynamics, his frequently matter-of-fact and even hurried pacing inhibits their expressiveness.

In particular, James King would have benefited from a conductor who could have coaxed more expressive nuance from him, though his Parsifal is sung with taste and firmness of tone, except for a rather strained "*Nur eine Waffe taugt*." By contrast, Thomas Stewart sings Amfortas with dignity and eloquence, but sustains tonal strength by not pressing for volume. Franz Crass as Gurnemanz is not the most sonorous interpreter imaginable, but his singing never loses its agreeable *cantante* quality, and he rises to impressive heights in the Good Friday Scene. In the smaller role of Titurel, Karl Ridderbusch is excellent.

Her good dramatic instincts notwithstanding, Gwyneth Jones is a disappointing Kundry, displaying a frequently shrill tone and a pronounced waver in the crucial E-flat-F area of her upper midrange. These failings, alas, make her a vocally rather unalluring temptress in Act Two. As Klingsor Donald McIntyre has the required malevolence but not the steady "singing" quality imparted to this fascinating role by its previous recorded interpreters, Hermann Uhde (1951) and Gustav Neidlinger

(Continued on page 112)



No need to Compromise

Bozak Quality Costs Very Little More

Of course you can always trade-in for a TEMPO 1, later. — But why?

When you buy a first-rate stereo system, you expect first-rate sound — rich, vibrant bass, smooth crystal-clear strings and voices, the open flow of all the music without tonal coloration.

For very little more you can have it to start with — in a Bozak TEMPO 1.

TEMPO 1 inherits the superior qualities of its larger ancestors. It is a true Bozak in every way. Every part that could make the slightest tonal difference is made only at the Bozak factory. Bozak, for example, is one of the very few manufacturers who make all of their own loudspeaker cones rather than settling for commercially-available units.

This fine three-way bookshelf loudspeaker has the same costly drivers found in the most luxurious Bozaks. The variable-density bass cone, developed by Bozak, is made from a unique highly-damped material processed into a lightweight but structurally-rigid piston that is free of coloration. In the midrange

speaker there is a critically-damped aluminum cone with excellent transient response. The entire diaphragm of the treble speaker, of thin spun aluminum, rests on a bed of soft resonance-damping foam. All cones, together with their generous ceramic magnets and precision-machined pole structures, are assembled on solid cast frames — not sheet-metal stampings.

Bozak's traditional excellence in craftsmanship is further apparent in the smart enclosure, where the warm beauty of select wood grain is brought out by careful hand finishing.

Quality tells. TEMPO 1 gives you rich big-Bozak sound from a superbly engineered bookshelf system. The longer you live with this fine speaker the more you will appreciate what a difference true quality makes.

Not every dealer is permitted to sell TEMPO 1. If you can't locate your authorized Bozak Dealer, write for our list of the fine audio showrooms in your area. The R. T. Bozak Manufacturing Company, Darien, Conn. 06820, USA. Overseas Export by Elpa Marketing Industries Inc., New Hyde Park, New York 11040, USA.



Technically, our new SQ four-channel system has 4 basic advantages.

Sony SQ.

A new stereo/quadrasonic system, delivers four distinct sound channels from a compatible SQ record.

It also offers four distinct advantages over all the other four-channel "matrix" systems.

Advantage #1:

Greatest stereo separation, front and rear.

Your present stereo system probably can maintain 40 db or so of separation between left and right channels. Maintaining this full left-to-right separation, in both the front *and* rear pairs of channels, is one of the major achievements of the SQ system.

Advantage #2:

Simple logic that lets soloists stay soloists.

When a single instrument is playing, all you want to hear is that instrument, even in four-channel. A pure matrix decoder—even the matrix at the heart of SQ—can't reproduce a solo instrument without a softer, phantom soloist in other channels. But by adding a logic circuit, these phantom signals can be diminished or eliminated, sharpening your sense of the soloist's position.

So far, though, only Sony's SQD-1000 and SQA-200 decoders have this logic enhancement. Because SQ's unique encoding (which shows up on records as a double-helical modulation of the groove) makes simple logic circuits practical.

Advantage #3:

Total omnidirectional fidelity.

A musician plays no softer when he's behind you or to one side. With SQ he doesn't sound as if he did. No matter where in the 360° quadrasonic circle the musician sits, he will be heard at exactly the same volume as if he were sitting in front of you. And that's true whether you're listening to the SQ record in four-channel or just playing it on a stereo system without an SQ decoder.



Advantage #4: Equipment by Sony.

Sony offers you a choice of two SQ adapters. For the more demanding, there's a new SQD-1000 decoder. Its logic circuit enhances front-back separation by up to 6 db, so that front-center soloists (or rear ones, for that matter), stand out more clearly. The SQD-1000 lets you listen to four-channel sound from SQ records, or to discrete four-channel tapes on auxiliary players. It also lets you listen to normal stereo, or to stereo broadcasts and recordings enhanced with SQ ambience. Just plug the SQD-1000 into your tape monitor jacks (the SQD-1000 has its own), and add your choice of rear-channel amplifier and speakers.

If you want to get into SQ with a more modest investment, add Sony's new SQA-200 SQ decoder/amplifier to your system. It has all the SQD-1000's features (except the four-channel master volume control). But because the SQA-200 has a stereo amplifier built in, it saves you the expense of an extra amplifier for your rear channels.

Hear SQ at your Sony dealer. Or write Sony Corporation of America, 47-47 Van Dam Street, Long Island City, N.Y. 11101.

New SONY® SQ

Musically, it's starting out with 52.



Columbia Records

Popular

Lynn Anderson, *Rose Garden*
Blood, Sweat and Tears II
 Johnny Cash at San Quentin
Chase
 Ray Conniff, *Love Story*
 Al Cooper, Mike Bloomfield &
 Steve Stills, *Supersession*
 Miles Davis, *Bitches Brew*
 Bob Dylan, *Nashville Skyline*
 Percy Faith, *Romeo and Juliet*
Funny Girl, Original Sound Track
 Janis Joplin, *Pearl*
 Kris Kristofferson, *Silver-Tongued Devil and I*
 Johnny Mathis, *You've Got a Friend*
 Jim Nabors, *Help Me Make It Through The Night*
No, No, Nanette, Original Cast
 Poco, *Deliverin'*
 Ray Price, *For the Good Times*
 Raiders, *Indian Reservation*
 Santana, *Abraxas*
 Sly and the Family Stone, *Greatest Hits*
 Ray Stevens, *Greatest Hits*
 Barbara Streisand, *Stoney End*
 Ten Years After, *A Space in Time*
 Andy Williams, *Love Story*
 Tammy Wynette, *We Sure Can Love Each Other*

Classical

Bach, *Switched-On Bach* (Carlos)
 Bernstein, *Mass* (Bernstein, Original Kennedy
 Center Cast)
 R. Strauss, *Also Sprach Zarathustra*
 (Bernstein, N.Y. Philharmonic)
 Morton Subotnick, *Touch*
 Verdi, *Requiem* (Bernstein, Arroyo, Veasey, Domingo,
 Raimondi, London Symphony)

Vanguard Records

Popular

Joan Baez, *Blessed are...*
 Larry Coryell, *At the Village Gate*
 Country Joe and the Fish,
From Haight-Ashbury
to Woodstock (2 LP)
 Buffy Sainte-Marie, *Moonshot*

Classical

"P.D.Q. Bach,"
The Stoned Guest (Schickele)
 Berlioz, *Requiem* (Abravanel, Utah)
 Handel's *Messiah* (Price, Minton, Young, Diaz,
 Somary, English Chamber Orch.)
 Handel, *Messiah highlights*
 Mahler, *Symphony No. 3* (Abravanel, Utah)
 Mozart, *Divertimenti K287/138*
 (Blum, English Chamber Orch.)
 Tchaikovsky *Symphony No. 4*
 (Stokowski, American Symphony)
 Tchaikovsky, *Serenade Op. 48*;
 Prokofiev, *Classical Symphony*;
 Arensky, *Variations* (Somary,
 English Chamber Orch.)
The Virtuoso Trumpet of Martin Berinbaum
 (Somary, English Chamber Orch.)

Ampex Records

Popular

Anita Kerr Singers *Grow to Know Me*
 Anita Kerr Singers with Royal Philharmonic,
A Christmas Story
 Bob Hinkle, *Ollie Moggus*
 Melting Pot, *Fire Burn and Cauldron Bubble*
 Mason Profit, *Last Night I had the Strangest Dream*
Purlie, Original Cast
 Cris Williamson
 Rome Philharmonic, *Classical Movie Themes*

four-channel record system

BIG DISCOUNTS

STEREO COMPONENTS

Largest selection of top name brands... try us and see...

It's worth a call
(301) 288-1710



2031 Merritt Blvd.
Baltimore, Md. 21222

All mail answered within 24 hours

Phone (301) 288-1710 ■ Daily 9AM to 10PM
Sat. 9AM to 6PM
Saturday Pick Up 9AM to 6PM

CIRCLE NO. 38 ON READER SERVICE CARD

GET

LOWEST PRICES
FAST, FAST SERVICE
FACTORY SEALED CARTONS
FULLY INSURED SHIPMENTS
EXTRA SAVINGS ON PACKAGE DEALS

AUDIO UNLIMITED

Serving Audio Enthusiasts
Since 1955
GIVES YOU
MORE FOR YOUR MONEY
Write For FREE Listing Today
SEND US YOUR LIST FOR
OUR AIR MAIL QUOTE TODAY
Visit Our Store Warehouse
CLOSED MONDAYS

IT WILL PAY YOU
TO WRITE US FIRST

AUDIO UNLIMITED, INC.

396 Third Ave. (Nr. 28), N. Y.,
N. Y. 10016 • (212) MU 2-3836-7-8

CIRCLE NO. 11 ON READER SERVICE CARD

(1962). I found the contributions of the Knights, Esquires, and Flower Maidens adequate or slightly less. DGG's technical production is very good, and the audience is remarkably silent for an "on-the-scene" recording.

Boulez presents an uncut score and reaches the finish line a full thirty minutes faster than Knappertsbusch in the Philips set! But if I am ever to be made into that "totally committed Wagnerite" I alluded to in the first paragraph, I would rather entrust Knappertsbusch with my conversion and would not begrudge him (and me) those thirty minutes. *G.J.*

WEBERN: *Music for String Quartet* (see Best of the Month, page 77)

RECORDING OF SPECIAL MERIT

WIENIAWSKI: *Violin Concerto No. 2, in D Minor*. KABALEVSKY: *Violin Concerto*. BLOCH: *Baal Shem; Nigun*. Pinchas Zukerman (violin); Royal Philharmonic Orchestra, Lawrence Foster cond. COLUMBIA M 30644 \$5.98.

Performance: Excellent
Recording: Very good

"That's the piece you had to play to show that you were ready for Carnegie Hall," my father remarked the other day when he overheard Pinchas Zukerman playing the Bloch *Nigun*. I doubt that this music is familiar to very many people any more. I never studied it, but that probably proves nothing except that I wasn't ready for Carnegie Hall (I *did* play the Wieniawski, though, but the less said about it the better). The frivolous Kabalevsky is, of course, a late entry in the Eastern-European fiddle-fat (or violin *schmalz*) repertoire. Only the Bloch can be taken seriously, but the Wieniawski is amusing and the Kabalevsky tolerable.

Zukerman is, really, the last violinist on earth who can make this music absolutely convincing in the old way. This is not a put-down but an open-mouthed reaction of wonderment. The man is either a throwback or a superb actor; either way, the results are awesome. He gets excellent collaboration from the Royal Philharmonic under the young American conductor Lawrence Foster, and, except for the total focus on the violin, the recorded sound is outstanding. *E.S.*

COLLECTIONS

MONTSERRAT CABALLÉ AND BERNABÉ MARTÍ: *Great Opera Duets*. Giordano: *Andrea Chénier: Vicino a te*. Puccini: *Manon Lescaut: Tu, tu, amore?* Donizetti: *Poliuto: Ah! Fuggi da morte*. Verdi: *Un Ballo in Maschera: Teco io sto*. Meyerbeer: *Les Huguenots: Oh ciel! où courez-vous?* Montserrat Caballé (soprano); Bernabé Martí (tenor); London Symphony Orchestra, Charles Mackerras cond. ANGEL S 36787 \$5.98.

Performance: Some good, some less so
Recording: Very good

The expectations aroused by this promising program are not fully realized. Only the *Manon Lescaut* scene can be termed successful; the others have their moments, but do not impress me *in toto*. Montserrat Caballé can, of course, always be depended upon for a considerable share of exquisite vocalization, and she comes through, some intonation lapses and instances of shrillness aside. Her husband is short on vocal elegance, but unstinting in his projection of strong and well-focused tones.

The duet from the final act of *Poliuto*, recorded here for the first time, does not come off with much conviction. Vocally, the long duet from Act IV of *Les Huguenots*—one of the most impressive pages of Meyerbeer's writing—far outstrips the travesty perpetrated on this music in London's recent complete recording of the opera. Señor Martí's French pronunciation is hard to take, but the music is worth hearing. (Too bad that Nicolai Gedda's attractive wife is not a singer, but perhaps he can be persuaded to record this duet with Régine Crespin or Beverly Sills.)

Since Charles Mackerras has a reputation for fastidiousness, the occasionally uncomfortable tempos and instances of imprecision must be attributed to insufficient rehearsal. *G.J.*

CLASSIC AND CONTEMPORARY TWENTIETH-CENTURY PIANO MUSIC: Wolpe: *Pastorale; Presto Agitato; Form*. Rovic: *Three Studies for Piano*. Pleskow: *Piece for Piano*. Schoenberg: *Sechs Klavierstücke, Op. 19; Drei Klavierstücke, Op. 11; Klavierstücke, Op. 33a*. Anne Chamberlain (piano). ARS NOVA/ARS ANTIQUA AN 1007 \$4.98.

Performance: Excellent
Recording: Good

There is a little history of keyboard expressionism on this record. The Op. 11 Piano Pieces constitute Schoenberg's first large-scale "atonal" work and his Op. 19 Piano Pieces refine these principles down to their aphoristic minimum. Opus 33a is a major example of Schoenberg's first twelve-tone period and one of the last pieces he wrote in Europe. Stefan Wolpe was born in Berlin in 1902, and, after a Palestinian sojourn, came to this country in 1938, where he has been a potent influence in new musical circles although not well known to the general public. The *Presto Agitato*, written in 1929, shows an early and quite striking Central-European form of Expressionism. The *Pastorale* of ten years later suggests the simplifying, popularizing trends of the Thirties, but *Form* (1959) represents Wolpe's more recent and original style: the musical equivalent of Abstract Expressionism in painting.

Wolpe, like the painter Hans Hofmann, is a good example of an important and original European who developed an individual and very contemporary form of expressionism in this country and helped to form a widespread American "Expressionist" school. Both Howard Rovic and Raoul Pleskow show the strong influence of Wolpe, not only in technical matters, but in the strong fervor, intensity, and conviction that pervade their music.

Anne Chamberlain is a very good pianist, and it is highly desirable that as much of this music get recorded as possible before performers decide—as they will soon—that it is no longer worth the infinite pains required. The recording is good, although it has to compete with noisy surfaces. *E.S.*

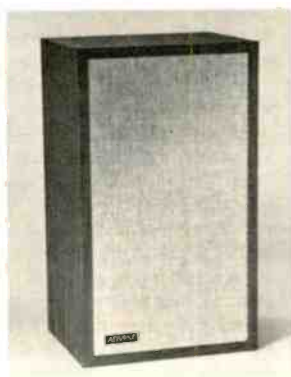
COMPOSERS STRING QUARTET: *First Annual Composers String Quartet Contest Winners*. Peter Griffith: *One String Quartet*. George Edwards: *String Quartet (1967)*. Robert Pollack: *Movement and Variations*. Leslie Thimmig: *Seven Profiles*. Composers String Quartet. COMPOSERS RECORDINGS, INC. CRI SD 265 \$5.95.

Performance: Excellent
Recording: Very good

(Continued on page 114)

STEREO REVIEW

Some Pertinent Information on the Smaller Advent Loudspeaker



The original Advent Loudspeaker was designed to equal or surpass the audible performance of any speaker system used in the home, regardless of price. Its reviews, reprints of which we will be happy to send for the asking, indicate how well that objective was met.

The Smaller Advent Loudspeaker has the same audible performance, except that it will not play as loud. Since the original system was and is an unusual bargain at \$116*, the newer and smaller system, at \$70*, obviously deserves a full description to the prospective buyer. Accordingly, the following questions and answers:

What Is It For, and Just How Good Is It?

The Smaller Advent Loudspeaker is meant to make it possible to buy a complete stereo system in the \$400 range, for use in an average living room under the usual listening conditions, that will provide the kind of sound quality associated with the most expensive stereo systems. Specifically, it exceeds the frequency bandpass and freedom from distortion of most far more expensive speakers, and provides the final, lowest octave of bass offered by only a handful of the most expensive speakers—and by none in or near its own price class. It is intended for use with any of the several sufficiently powerful present receivers in the \$200-\$250 price range (from Kenwood, Marantz, Pioneer, Sansui, Scott, Sherwood, Sony and others) that will deliver 18-25 watts per channel of continuous power into 4 ohms.

How Does It Do What It Does?

The overall sound quality of the original Advent Loudspeaker was achieved in a smaller and less expensive speaker through careful, unmythical design that gives up some of the efficiency and maximum total loudness of the original, and through the choice of a 4-ohm voice coil impedance that draws about one-third more effective power (from present solid-state equipment) than an 8-ohm design.

A further reason for its lower cost was the selection of a walnut-finish vinyl cabinet of simple design.

Who Should Be Interested In It?

Anyone, we believe, who has a living room of average size (about 2000-3000 cubic feet) and no reason to play music at thunderingly loud levels under normal conditions. The speaker's maximum sound level is con-

siderable (and well beyond what would be considered tolerable in most homes), but not as great as our larger and more expensive system's.

It's worth making clear that there is no real advantage in buying an expensive super-high-powered receiver or amplifier to drive the system, since the speaker is so exactly tailored to the power capabilities of moderately-priced equipment—with which it will sound as expensive as you please. But it's also worth stressing that the moderately-priced equipment for which the speaker was designed may *not* do the trick in the usual store (big, sound-absorbent, and full of people) where it's demonstrated. If a good receiver in the \$200-\$250 range sounds strained trying to drive the speaker in a showroom, it is still likely to be more than ample at home. Higher-priced equipment probably will have an audible advantage only in the showroom.

Any Special Limitations?

Because it is a 4-ohm design, the Smaller Advent Loudspeaker isn't ideal for use in multiples at the same time except with 4-channel systems. Specifically, we don't suggest running two main speakers and two extension speakers at high volume at the same time. For quieter, background music applications, two simultaneous pairs should be fine, and, of course, there is no problem in alternating two pairs in different household locations. You just can't play four systems loudly at the same time.

Where Can I Hear It?

If you don't know where to find the nearest Advent dealer, please write us at the address below. And let us know if you would like more information before going to look and listen.

Thank you.

Advent Corporation, 195 Albany Street, Cambridge, Massachusetts 02139.

** Slightly higher in some parts of the country.*

THE SHORTEST DISTANCE TO PERFECT SOUND IS A STRAIGHT LINE

There is only
one way to achieve
distortion free music.

With the SL-8E
hear the
difference

A servo controlled
straight line tone arm.



RABCO 11937 TECH ROAD, SILVER SPRING, MARYLAND 20904

CIRCLE NO. 60 ON READER SERVICE CARD

FREE McIntosh CATALOG and FM DIRECTORY

Get all the newest and latest information on the new McIntosh Solid State equipment in the McIntosh catalog. In addition you will receive an FM station directory that covers all of North America.



MX112
FM STEREO/AM TUNER PREAMPLIFIER
— ALL SOLID STATE

**SEND
TODAY!**

McIntosh Laboratory Inc.
1 Chambers St., Dept. SD7
Binghamton, N.Y. 13903

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

CIRCLE NO. 86 ON READER SERVICE CARD

The Composers String Quartet is, as its name implies, a performing organization largely (although not exclusively) dedicated to performing new and contemporary works. In collaboration with the New England Conservatory (where they are "in residence"), they recently sponsored a contest for new string quartets. This competition had several unusual aspects; for one thing, the music submitted (or at least a major portion of it) was actually performed for the aural edification of the judges. Surprising as it may seem, this almost never happens in such competitions; usually the lack of time, the unavailability of the proper performing forces, and the presumed ability of the jury to judge from the score rule it out. But the truth is that, because of the complexity of the music, the complexity or newness of the notation, and (yes) the actual lack of ability on the part of the judges, such contests are really decided by chance, neatness of the manuscript, recognition of the names of the composers (or their teachers), or some other equally irrelevant criteria.

At any rate, one can assume that this was not the case here, and the jury has selected—from over one hundred entries—four strong pieces. Only one of them is, in my view, exceptional: Peter Griffith's *One String Quartet*. Griffith, like the other composers here, is still in his twenties (Pollack was born in 1946, the others in 1943). Like the others, his work shows the strong influences of Elliott Carter and the serialists. And it is in some respects less surely realized than the others: it loses its way about three-quarters through and only finds it again near the end. On the other hand, it tries to do more; it is less dependent on its models, and the composer understands that music is a play of energies as well as of abstract planes and volumes. Pollack's work is probably the most accessible of the four (which isn't saying much), and it has character. George Edwards' work, the most complex of the four and the most assured technically, depends a good deal on the quartets of Carter for its assurance. Leslie Thimmig's *Profiles* are a series of short studies realized with varying success.

The performances are astounding (about normal for this group), and the recordings make it all quite clear. This music is certainly not for casual listening; indeed, it is rather a surprise to find young composers still trying to solve the intellectual problems posed (and certainly not always solved) by their elders. E.S.

GIUSEPPE DANISE: *The Aristocrat of Baritones*. Verdi: *Ernani*; *O de' verdi anni miei*. *Rigoletto*: *Pari siamo*; *Cortigiani, vil razza dannata*. *La Traviata*: *Di Provenza il mar, il suol*. *La Forza del destino*: *Urna fatale*. *Otello*: *Credo in un Dio crudel*. *Giordano*: *Andrea Chénier*: *Nemico della patria*. *Rossini*: *Il Barbiere di Siviglia*: *Largo al factotum*. *Stradella*: *Pietà Signore*. *Pergolesi*: *Stabat Mater*: *Quae Morebat*. Giuseppe Danise (baritone); orchestral accompaniment. OPERATIC ARCHIVES OPA 1040 \$5.00 (plus 75¢ for postage and handling, available by mail from Operatic Archives, 23 Bleecker Street, New York, N.Y. 10012).

Performance: Good to outstanding
Recording: Vintage—good transfers

Giuseppe Danise (1883-1963) was an admired baritone star in the age of the giants: Titta Ruf-fo, Giuseppe de Luca, Pasquale Amato, and Riccardo Stracciari. He was of their caliber, but his career as a recording artist suffered as a result of his association with the long defunct

(Continued on page 116)

STEREO REVIEW

Each of these stubborn Norwegian engineers thinks he designed the world's best tape recorder.

Will you help settle the argument?

Leif insists that the *only* tape deck to own is the Tandberg 6000X. And we can't quarrel with that. For \$499.80, it does more things better than decks that cost twice as much. And both *High Fidelity* and *Stereo Review* ranked the 6000X in a class by itself.

But when Per makes his case for the Tandberg 3000X, we can't dispute him, either. After all, if a home recordist doesn't need professional features like a limiter, stereo echo effects, and peak reading meters that show playback levels, why should he pay for them? Per swears that if he blindfolded Leif, he couldn't tell the sound of the 3000X from the 6000X. And it only costs \$349.90.

Then Gunnar starts a whole new fight. *He* says the most practical way to enjoy Tandberg sound is with the 4000X recorder. That way, you get all the quality of a Tandberg deck *plus* a built-in Tandberg amplifier and two Tandberg speakers. All for just \$459. And it's portable.

We say they're *all* right. Every Tandberg is the best Tandberg. And all the arguments in the world won't settle a thing.

Because the only person who can decide which Tandberg is the best for *you* is you. Settle the question with your Tandberg dealer.

Soon.



TANDBERG

TANDBERG OF AMERICA, INC., 8 THIRD AVENUE, PELHAM, NEW YORK 10803

In Canada Tandberg distributed by Engineered Sound Systems, Toronto, and Clifco Electronics, Vancouver.

FREE! '72 Edition

NEW Radio Shack Electronic Accessories and Parts Catalog



1000's of Items 100's of Exclusives

THE buying guide for kit builders, Hams, CB'ers, installers, experimenters, fix-it men, hobbyists, electricians, anyone in electronics in any way. It lists 1000's of things most stores don't stock. Things that keep equipment working, or make it work even better, or do even more. Use this catalog to find what you need, then go to our store near you and get it. Or you may order by mail.

ELECTRONICS FROM A to Z AND MUCH MORE!

ANTENNAS	NEEDLES
BATTERIES	OSCILLATORS
CAPACITORS	P-BOXES
DIODES	QUADRACS
EDUCATIONAL KITS	RESISTORS
FIBER OPTICS	SEMICONDUCTORS
GRILLE CLOTH	TELEPHONES
HI-FI SPEAKERS	ULTRASONIC ALARMS
IC'S	VHF ANTENNAS
JACKS	WIRE
KNOBS	XENON STROBE
L-PADS	"Y" ADAPTERS
MIKES	ZENER DIODES

INCLUDING OUR SCIENCE FAIR AND KNIGHT-KIT LINES

Get a copy at your nearby store—or send in coupon today!

ALLIED RADIO SHACK Dept. SR-9
A TANDY CORPORATION COMPANY
2725 W. 7th St., Fort Worth, Texas 76107

Send Free 1972 Accessories & Parts Catalog #215

Please PRINT Clearly

Name _____ Apt. # _____

Street or Rte. & Box _____

City _____

State _____ Zip _____

CIRCLE NO. 5 ON READER SERVICE CARD

Brunswick label. Danise retired from the Metropolitan in 1932 and embarked on a successful teaching and coaching career. He had many pupils, and none more distinguished than his devoted wife, Bidú Sayão.

For those previously unfamiliar with the art of Danise this Operatic Archives release, assembled largely from original Brunswicks and a few accoustical Voce del Padrone items, will be a revelation. The voice was darkly hued, with a remarkable evenness of timbre from top to bottom, and strong at both extremes. He must have been an ideal Iago and Gérard (he sang the role at *Andrea Chénier's* Metropolitan premiere in 1920), but the more lyrical *Ernani* aria reveals equal skill, and the *Rigoletto* excerpts are in the grand tradition. Although a realistic singing actor in the Chaliapin-Ruffo mold, Danise was steeped in the tradition of *bel canto*, as evidenced by his aristocratic sense of phrasing. Completing the impressive operatic display here is an emotion-filled, powerfully projected *Pietà Signore* and a home recording of the madrigal *Guarda la luna*, in which Bidú Sayão and basso Virgilio Lazzari keep the artist company. The technical quality in the latter is below par, but this is the only known example of Sayão and Danise appearing on the same disc.

There is also an extended narration of reminiscences. Among other things, Danise reveals that before breaking into the big time in 1912, at the age of twenty-nine, he had accumulated a record of more than six hundred appearances as a repertoire baritone with a touring company. The results of such schooling and experience are clearly audible in this sequence. The disc is warmly recommended to the specialized collector.

G.J.

EASTMAN WIND ENSEMBLE: Recital. Penderecki: *Pittsburgh Overture*. Mayuzumi: *Music with Sculpture*. John T. Williams: *Sinfonietto for Wind Ensemble*. Eastman Wind Ensemble, Donald Hunsberger cond. DEUTSCHE GRAMMOPHON 2530 063 \$6.98.

Performance: Excellent
Recording: Excellent

Deutsche Grammophon, not satisfied with the Boston Symphony and Boston Chamber Players, the La Salle String Quartet, and sundry other Americana, has now invaded the Eastman School to record that great American institution, the wind band! Remarkable! Actually, this record is a very mixed bag of winds. The Williams *Sinfonietto* (sic) is a big chunk of the kind of portentousness and bluster that used to pass for modern music. The Penderecki, presumably written for Pittsburgh, is a typical and rather clever example of that composer's intense cluster-density style, also pompous and portentous in its way, but cleaner and managed with a good deal of style and thrust. Toshiro Mayuzumi's *Music with Sculpture*—here necessarily presented as Music without Sculpture—is a refined, expressionist, and quite unsculptural piece in a quiet post-Bergian mode. Everything is very well played and well recorded.

E.S.

RECORDING OF SPECIAL MERIT

HELIOTROPE BOUQUET—Piano Rags 1900-1970. Tom Turpin: *A Rag-time Nightmare*. Scott Joplin: *The Easy Winners; Wall Street Rag*. Joplin-Chauvin: *Heliotrope Bouquet*. Joseph F. Lamb: *Ethiopia Rag*. James Scott: *Pegasus*. Charles Luckeyeth Roberts: *Pork and Beans*. William Bolcom: *Graceful*

Ghost; Seabiscuits. William Albright-William Bolcom: *Brass Knuckles*. William Bolcom (piano). NONESUCH H 71257 \$2.98.

Performance: Great
Recording: Great

This is a zany, delightful recording, bringing together a combination of fine, indigenous American talents. William Albright and William Bolcom are two promising young composers of "serious" music; Nonesuch is one of our finest "classical" labels. But neither the people at Nonesuch nor the young pianist-composers care to go about the world with a "serious-classical" air. "Heliotrope's" liner notes read: "The programming and recording of ragtime on classical labels signals its acceptance at last as a serious (but not solemn!) music." I'm rather surprised to learn that it's necessary to call ragtime "serious" music in order to enjoy it. Personally, I've always found its special, old-fashioned, swinging-trotting syncopations quite enchanting enough as "popular" music from granddaddy's day. At this point, however, "serious" or not, it qualifies as first-rate Americana, and I'm pleased to have it back.

Seven of the ten ragtime pieces on this recording are revivals from the first decade of this century. Scott Joplin (1868-1917) is represented by three fine numbers (his famous *Maple Leaf Rag* is on an earlier Nonesuch recording) while Tom Turpin, Joseph F. Lamb, James Scott, and Charles Luckeyeth Roberts are represented by one each. The biggest surprises of all, however, are *Seabiscuits*, *Graceful Ghost*, and *Brass Knuckles*, written by—guess who—Bolcom and Albright! Not only does Bolcom play the old-time rag music with great aplomb, and only an occasional hint of over-civility, but his own ragtime pieces are excellent. *Brass Knuckles*, written jointly by Bolcom and Albright, contains probably the loudest thumps in rag history, although not being a ragtime historian, I can't swear to that.

L.T.

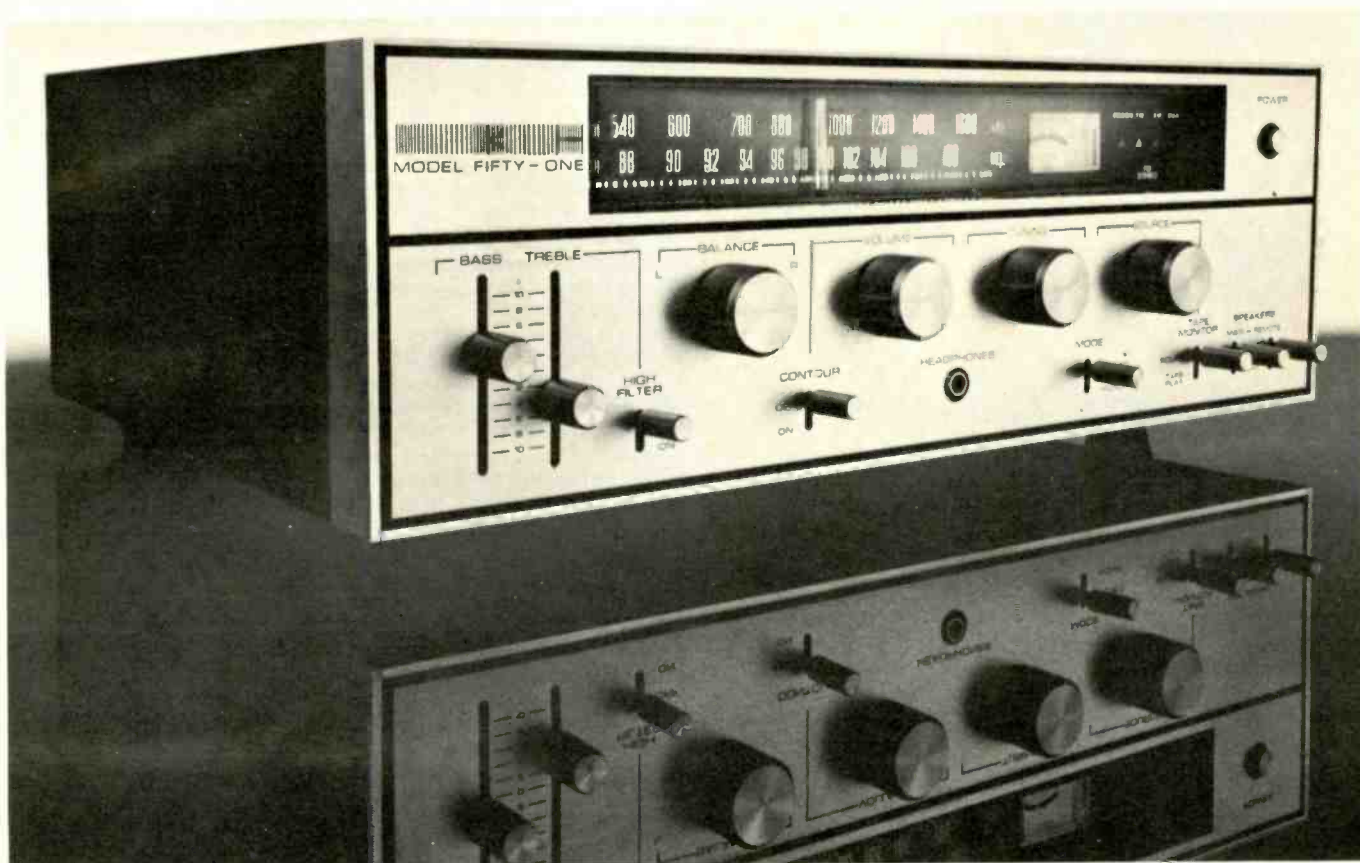
THE HISTORIC ORGAN—AUSTRIA. Speth: *Toccata quarta in E Minor*. Froberger: *Capriccio in C Major*. Krieger, J.: *Fantasia in D Minor*. Pachelbel: *Chorale Partita*, "Alle Menschen müssen sterben." Fischer, J.C.F.: *Prelude and Fugue in D Minor*. Herbert Tachezi (Organ in the Herzogenburg Monastery of the Augustinian Canons). Krieger, J.: *Toccata in D Major; Prelude and Ricercar in A Minor*. Froberger: *Canzona in F Major*. Kerll: *Canzona in G Minor*. Krieger, J.P.: *Toccata and Fugue in A Minor*. Pachelbel: *Choral Prelude*, "Ein feste Burg ist unser Gott." Herbert Tachezi (Organ of the Franciscan Church, Vienna.) TELEFUNKEN SAWT 9527 B Ex \$5.95.

Performance: Fascinating organs, dull playing
Recording: Excellent

This is another in Telefunken's fascinating series devoted to historic European organs. The first side splendidly reveals the capabilities of a fairly large instrument (forty-one stops, three manuals with pedals) built in the mid-eighteenth century and located in the church of the Augustinian Canons' Monastery in Herzogenburg, Austria. The second side features the oldest organ in Vienna, one built in 1642, which has only twenty stops, including two manuals and pedals; it is located behind the high altar in the Franciscan Church. The Viennese performer Herbert Tachezi (he is the reg-

(Continued on page 118)

For \$239.95* we think you deserve something more than just another stereo receiver. KLH introduces something more.



Most stereo receivers that cost between \$200 and \$250 don't sound half bad. Some even look kind of nice, if not exactly sexy. And they usually work more times than not. Perhaps they can best be described as predictably adequate.

To us, that doesn't sound too thrilling.

We figure a couple of hundred dollars or so entitles you to something more. Something like our new Model Fifty-One AM/FM Stereo Receiver. For one thing, it has big de-

pendable power; it'll drive loudspeakers that leave lesser instruments gasping. It looks more expensive than similarly priced stereo receivers. And it *feels* more expensive too. Each knob, switch and sliding control gives you a real sense of authority. Stations literally lock in when you turn the dial. The controls are crisp and flawless. No mushiness here. Also, *both* the AM and FM sections will pull in stations you didn't even know were on the dial. But most important, the Fifty-

One has the overall quality that most people expect from KLH. And you get it all for just \$239.95† (including walnut-grain enclosure).

Make sure you see and hear the Fifty-One soon. It's at your KLH dealer now. You'll recognize it immediately; it's the sexy one that sounds great.

For more information on the Model Fifty-One, write to KLH Research and Development, 30 Cross St., Cambridge, Mass. 02139. Or visit your KLH dealer.



†Suggested east coast retail price; suggested retail price in the south and in the west \$249.95
*A trademark of The Singer Company

WRITE FOR QUOTATION

FACTORY SEALED CARTONS
FRANCHISED DISTRIBUTOR
QUICK SHIPMENT

WE GIVE DISCOUNTS ON HI-FI COMPONENTS

SOUND REPRODUCTION, INC.

460 CENTRAL AVENUE
East Orange, New Jersey 07018
(201) 673-0600

CIRCLE NO. 71 ON READER SERVICE CARD

 FISHER	 KOSS
 SONY	 GARRARD
 SHURE	 DYNACO

KLH
FAMOUS BRAND HEADQUARTERS

SAVE MORE BY MAIL FROM DIXIE!

ON NATIONALLY ADVERTISED BRANDS • HI-FI COMPONENTS!

Today! Send for our Wholesale Price List!

Wholesale Prices!! *Dixie, one of the largest Stereo Wholesalers will fill all your mail orders promptly — at prices actually LOWER than "Discounters". See our 16-page Wholesale Price Brochure for yourself! Recognize Famous Brand Names AND choose the stereo equipment and accessories you desire. Everything shipped factory-sealed!

*Dixie guarantees satisfaction or your money back!



HIGH-FIDELITY WHOLESALE
10530 Detrick Ave.
Kensington, Md.
20795 Dept. SR-10
Phone:
301-933-7600

CIRCLE NO. 25 ON READER SERVICE CARD

ular harpsichordist of the Vienna Concentus Musicus) has an excellent technique, as well as an understanding of what works will show off each instrument to its best advantage. The repertoire, which is mainly German, is also well chosen, and, with the exception of the Pachelbel chorale partita, is not overly familiar. Unfortunately, though, his playing seldom catches fire; it is stylish, solid playing, but it is not very interesting. The sound of the instruments has been very effectively captured (the smaller organ, however, seems to have had some tuning difficulties among its reeds), and the jacket includes organ specifications and the registrations used for each piece. I.K.

HANS KANN: *Salon Music*. Sinding: *Rustle of Spring*. Godard: *Mazurka in B-flat Major*. Rubinstein: *Romance in E-flat Major*. Chaminade: *The Flatterer*. Lefebure-Wély: *The Bells of the Monastery*. Bohm: *Murmuring Fountain-head*. Lange: *Edelweiss Idille, in E-flat Major*. Moszkowski: *Sparks*. Schutt: *To the Dearly Beloved*. Grunfeld: *Kleine Serenade in E Major*. Badarzewska: *A Virgin's Prayer*. Durand: *Valse in E-flat Major*. Paderewski: *Menuet in G Major*. Liadov: *A Music Box*. Hans Kann (pianist). MUSICAL HERITAGE SOCIETY MHS 1139 \$2.99 (plus 60¢ handling charge from the Musical Heritage Society, Inc., 1991 Broadway, New York, N.Y. 10023).

Performance: Beyond nostalgia
Recording: Good

Once upon a time, in genteel society, it was considered suitable to adjourn to the salon after dinner for a concert of agreeable music, just titillating enough but never so turbulent as to disturb the listener's digestion. On this disc, sagely subtitled "Musical Décor for the Fashionable 19th-Century Home," we find out what they listened to. (One can still hear the stuff today on those radio broadcasts that favor the "light classics" between restaurant commercials.) Here is Sinding's *Rustle of Spring*. Here is *The Flatterer*, a real live example of a piece by Cécile Chaminade, the lady composer who wrote more than two-hundred "works" for the piano, few of them distinguishable from the others, and whose once ubiquitous *Scarf Dance* became the song hit of the Thirties, *Stars Fell on Alabama*. Here too is a mazurka by her teacher, Benjamin Godard; a tinnabular little exhibition piece called *Les cloches du Monastère*; Tekla Badarzewska's *A Virgin's Prayer*, which brought tears to the world's eyes through eighty editions; the literal-minded *A Music Box* that Liadov set tinkling across Europe, and any number of waltzes, serenades, sentimental studies, and minuets, including the indestructible one in G Major by Paderewski to which they used to subject my generation in music appreciation classes. None of this material is far beyond the range of your talented Cousin Selma—the one who dropped out of Juilliard—and certainly well within the capacities of Hans Kann, who plays them all straightfacedly on a Bösendorfer piano—leaving any behind-the-fan tittering that may be called for entirely up to you. P.K.

RECORDING OF SPECIAL MERIT

WERNER KRENN: *Schubert and Schumann Songs*. Schubert: *Trauer der Liebe*; *Sehnsucht*; *Das Bild*; *Die Liebe hat gelogen*; *Abendbilder*; *Der Entfernten*; *Schwanengesang*; *Erinnerung*; *Stimme der Liebe*. Schumann: *Anfangs wollt' ich fast verzagen*; *Es*

treibt mich hin; *Dein Angesicht*; *Du bist wie eine Blume*; *Lehn deine Wang an meine Wang*; *Die Lotosblume*; *Was will die einsame Träne*; *Entflieh mit mir*; *Es fiel ein Reif*; *Mit Myrten und Rosen*. Werner Krenn (tenor); Erik Werba (piano). LONDON OS 26216 \$5.98.

Performance: Excellent
Recording: Excellent

The nine Schubert songs supplement this gifted Viennese tenor's recital debut (London OS 26063) of unfamiliar Schubert; the Schumann entries may seem more familiar at first glance, but they are hard to find on records. The choice of repertoire, then, is praiseworthy, and the execution deserves more than such a lukewarm adjective: it is delightful. The program highlights the singer's considerable gifts: a voice of ingratiating timbre, a style of unmanly directness and grace, a flowing *legato* coupled with the agility needed for effortless decoration. Although the primary source of my enjoyment here is the singer's fine vocalism, Krenn is also a successful interpreter within a restrained dramatic frame. An intelligent judge of his virtues and limitations, he avoids venturing into perilous zones in terms of range and dynamics. The near-operatic climax of *Stimme der Liebe* may call for stronger resources, and the compact drama of *Die Liebe hat gelogen* is rendered with more knowing theatricality by Dietrich Fischer-Dieskau, but Krenn's more modest solutions are never less than fully artistic.

Of the Schumann songs, all to Heine poems, three come from the *Liederkreis*, Op. 24, three from *Myrthen*, Op. 25, and two from the *Tragödie*, Op. 64. For the most part, they are in a tender, contemplative mood, and Krenn performs them masterfully, *Die Lotosblume* with its lovely *mezza-voce* conclusion providing special delights. Erik Werba's accompaniments create a worthy frame for Krenn's beautiful singing. I hope this attractive disc will stay in the catalog longer than lieder collections usually do. G.J.

THE SERAPHIM GUIDE TO GERMAN LIEDER. Schubert: *Gretchen am Spinnrade*; *Erlkönig*; *An die Musik*; *Geheimes*; others. Schumann: *Widmung*; *Die beiden Grenadiere*; *Mondnacht*; others. Loewe: *Erlkönig*; *Edward*. Brahms: *Sapphische Ode*; *Die Mairacht*; *Ständchen*; *Dein blaues Auge*; others. Wolf: *Nun wandre, Maria*; *Anakreons Grab*; *Auch kleine Dinge*; others. Mahler: *Des Antonius von Padua Fischpredigt*; *Ich atmet' einen Lindenduft*; *Um Mitternacht*. Strauss: *Die Nacht*; *Heimliche Aufforderung*; *Morgen!*; *Zueignung*; others. Other songs by Haydn, Mozart, and Beethoven. Sung by Dietrich Fischer-Dieskau, Anneliese Rothenberger, Elisabeth Schwarzkopf, Hermann Prey, Nicolai Gedda, Grace Bumbry, Hans Hotter, Victoria de los Angeles, Christa Ludwig, and Janet Baker. SERAPHIM SIC 6072 three discs \$8.94.

Performance: Mostly very good
Recording: Adequate to good

There are things I like very much about this album, most of them having little to do with its apparent purpose. As a *Liederkranz*, a garland of performances of some of the best German songs, it is superior. But it is called a "guide"—and that's the rub. It is principally intended to be a Baedeker for those unfamiliar with this musical territory, but it is the sort of Baedeker that, if it were for the city of (Continued on page 120)

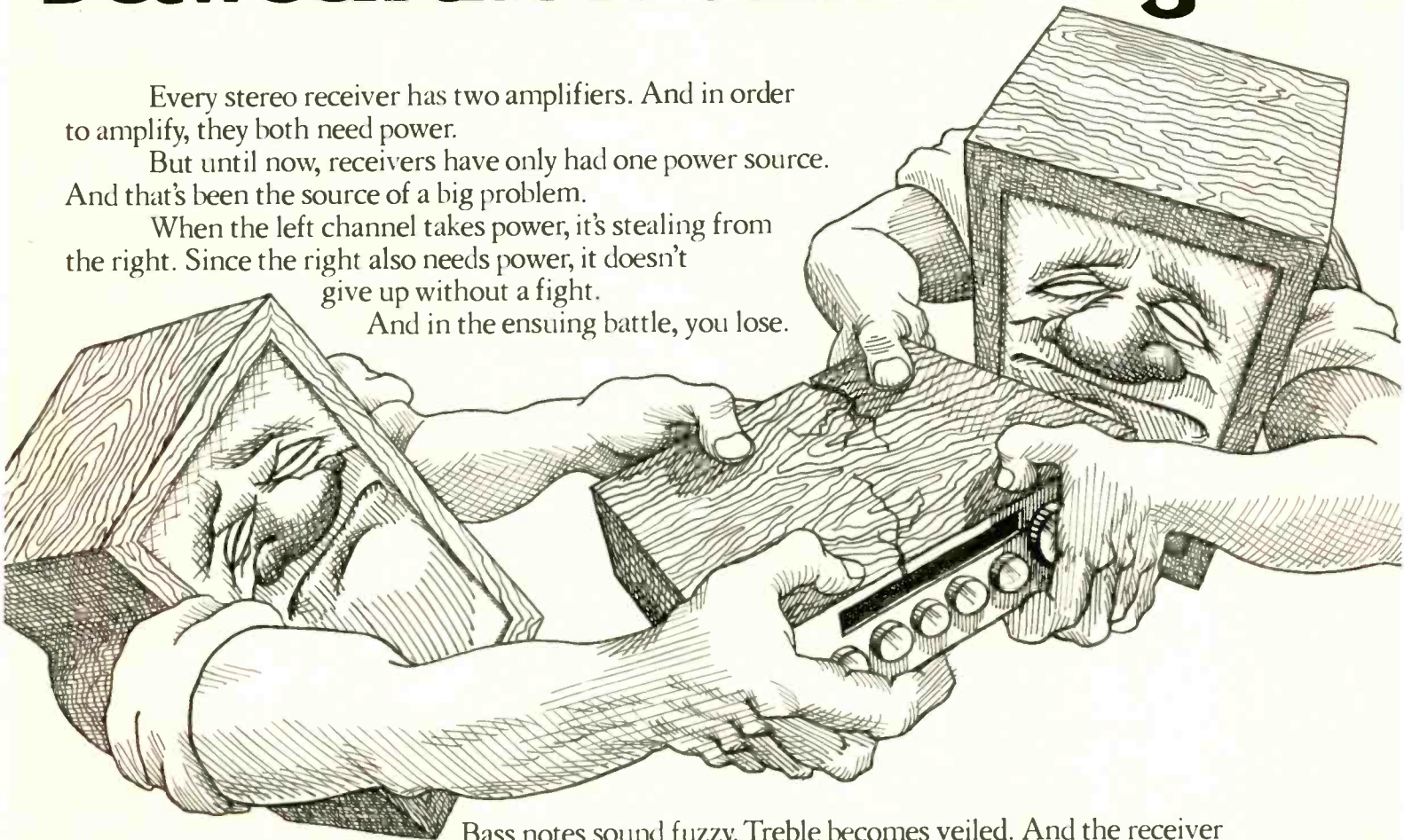
Announcing an end to the age-old power struggle between the left and the right.

Every stereo receiver has two amplifiers. And in order to amplify, they both need power.

But until now, receivers have only had one power source. And that's been the source of a big problem.

When the left channel takes power, it's stealing from the right. Since the right also needs power, it doesn't give up without a fight.

And in the ensuing battle, you lose.



Bass notes sound fuzzy. Treble becomes veiled. And the receiver tends to "break up" when you need it most — at high volume.

To put an end to the struggle, Harman-Kardon designed a new kind of receiver: the 930.

The 930 is the first receiver with twin power. It has two entirely separate power supplies: one for the left channel and one for the right. That way, they peacefully coexist.

When one channel needs power it simply takes what it needs — *without affecting the other*.

As a result, the 930 can handle enormous tone bursts at full volume without straining.

In fact, its distortion curve isn't even a curve. You can draw it with a straight edge.

(Total harmonic distortion remains below 0.5% from 20 Hz to 20,000 Hz — at full rated output, 45/45 watts RMS, both channels driven simultaneously into 8 ohms.)

The 930 costs \$369.95. Which is about what you'd pay for a good receiver without twin power.

So, the only question is which you'd rather have:

War or peace.

For complete information, write:

Harman-Kardon, Inc., 55 Ames Court,
Plainview, New York 11803.

harman kardon
A subsidiary of Jervis Corporation

**The Harman-Kardon 930.
The first receiver with twin power.**



London, for example, would direct the user to Westminster Abbey, the Houses of Parliament, and Buckingham Palace, but not to St. Mary-le-Bow, the Temple, and Hampton Court. To change the metaphor abruptly, a mountain range is not all peaks, and the lied as a genre is not merely the sum total of the works of the great masters from Haydn to Strauss. But perhaps I am being captious: Karl Loewe, a lesser master, *is* included—a nice touch—and even with the archives of EMI, by far the richest anywhere in lieder recordings, to draw upon, there could have been no more than an isolated example or two of the works of Zelter, Mendelssohn, Marx, Franz, and Pfitzner, to pick a few at random. So what we get are the peaks.

But having disposed of this gripe, another crops up quickly. Does the album supply a rounded view of the peaks? With the best will in the world, it is hard to render a favorable verdict. Things start well with decent though scanty samples of Haydn, Mozart, and Beethoven. But then Schubert looms, and the trouble starts. "Selection of only ten songs to represent the wealth of Schubert's lieder is a frustrating problem," writes George Sponhaltz, the producer, compiler, and annotator of the album, and any sane and charitable person will sympathize with him. But Schubert's range *can* be better suggested than it is here. Fully half these songs show him as a pleasantly lyrical but decidedly small-scale composer. There is no example of the heroic Schubert of—to cite three songs to be heard on other EMI discs—*Auflösung*, *Gruppe aus dem Tartarus*, and *Aufenthalt*, and the lone representation of the two Müller cycles is (guess what?) *Wohin?*

from *Die schöne Müllerin*. Worst of all, the significance of the *Schwanengesang* songs is distorted by the selection from it of the hit-parade standard *Serenade* rather than one of the Heine settings—*Die Stadt*, *Der Doppelgänger*, *Ihr Bild*—that display the composer's powers at their zenith.

For the remainder, the choices are somewhat better. Schumann and Mahler are limned in well by the selection—six of the first and three of the second. Brahms and Strauss get an entire disc side each—ten songs and nine, respectively—and it is difficult not to conclude that here Mr. Sponhaltz's judgment just caved in to his affections. In the Brahms group are *Da unten in Tale*, *Mein Mädel hat einen Rosenmund*, and *Vergebliches Ständchen*—all attractive songs, but so alike in style and structure that the three together don't tell us anything more about Brahms than any one of them would have. There's a similar overdose of Strauss, and yet the story of Hugo Wolf's scope as a song writer is barely begun by the five samples he is accorded.

But if you close your eyes and pretend the album is called "The Seraphim Lieder Sampler," there are goodies aplenty for a musical sweet tooth. The quality of the performances being obviously a secondary consideration here, it is sufficient to say that the general level is high enough that the uninitiated listener's attention will be held. And many of the performances do leap the gap that separates a mere attractive rendering of the music from a memorable communication of something unique: Janet Baker in Wolf's *Herr, was trägt der Boden hier*, Hans Hotter in Schumann's *Erstes Grün*, Dietrich Fischer-Dieskau in

Wolf's *Anakreons Grab*, and Christa Ludwig in Brahms' *Sapphische Ode* are a few, and there are more.

The album is intelligently planned: to avoid the disconcerting effect of switching from voice to voice with each band, the songs are grouped in twos and threes by singer, and the sonic equalizing of recordings done in different places and different eras (including a couple of monos) is quite successful. The handsome booklet contains the texts and good translations by Mr. Sponhaltz, and is illustrated with Biedermeier line drawings that nicely mirror the contents. Mr. Sponhaltz's notes on the composers and each of the songs are adequate and sometimes more, but his introductory remarks are disfigured by two bad errors: Peter Cornelius, who died when Strauss was ten years old, is cited as a composer who has carried on the tradition "since Strauss," and in a list of pre-war singers Igor Kipnis' name is substituted for his father Alexander's.

All in all, even with its shortcomings, I hope the album will find its way into many a record library—those of the converted, because several of the best performances here have never before been released on a domestic label, and those of the unconverted, because it provides an erratic but useful map of the magic-lantern world of the lied.

This release, incidentally, marks the fifth anniversary of the Seraphim label, to my mind the most distinguished of the major record firms' "budget" lines. Its service to the collector has been immeasurable, and I am confident that it will continue to be so through many another anniversary.

Robert S. Clark

It's anything but standard.

Look at its features. Listen to its sound. You'll know it's a top quality stereo receiver. Then check its budget price and you'll know it's a top buy, too.

Standard's SR-500U receiver has IC for all audio amplifier stages, FET'd front end, 12/12 watts RMS (8 ohms) with both channels driven, a THD of less than 0.9% at rated output, and an FM sensitivity of 2.5 uV. Plus dual speaker system selector, Hi filter, FM muting, tape monitor controls, large tuning meter, stepped bass and treble controls, and black-out dial face. All in a handsome, walnut-finished wood cabinet that is included in the remarkable budget price.

The difference between standard and Standard? Come in and hear us out.

 **STANDARD**®



STANDARD RADIO CORP., 60-09 39th AVENUE, WOODSIDE, N.Y. 11377; 13518 SOUTH NORMANDIE AVENUE, GARDENA, CALIF. 90249.

CIRCLE NO. 72 ON READER SERVICE CARD

Stanton quality is a very special quality... in headphones too.

The headphone is, after all, a speaker system for the head.

And the new Stanton Dynaphase Sixty is an advanced two-way speaker system designed for heads instead of shelves. Its unique, extremely wide-range two-way dynamic reproduction system is acoustically mounted with a separate woofer and tweeter. A special crossover network precisely channels the highs and lows into each ear, creating a truly breathtaking feeling of presence.

In keeping with the high quality approach to the design of the Stanton Dynaphase Sixty headphone, the fully adjustable headband and softly cushioned earpieces are stitched (not heat-sealed). Stanton even improves convenience in amplifier connection and disconnection by providing a

larger and specially designed plug. A simple blue-black and chrome color scheme adds the quality finished touch. \$59.95.

Stanton Dynaphase Forty, a high-performance economy version of the Dynaphase Sixty with wide range single speaker system is also available. \$39.95.

ACCESSORIES

Stanton Model 5741 control unit—The most convenient in-

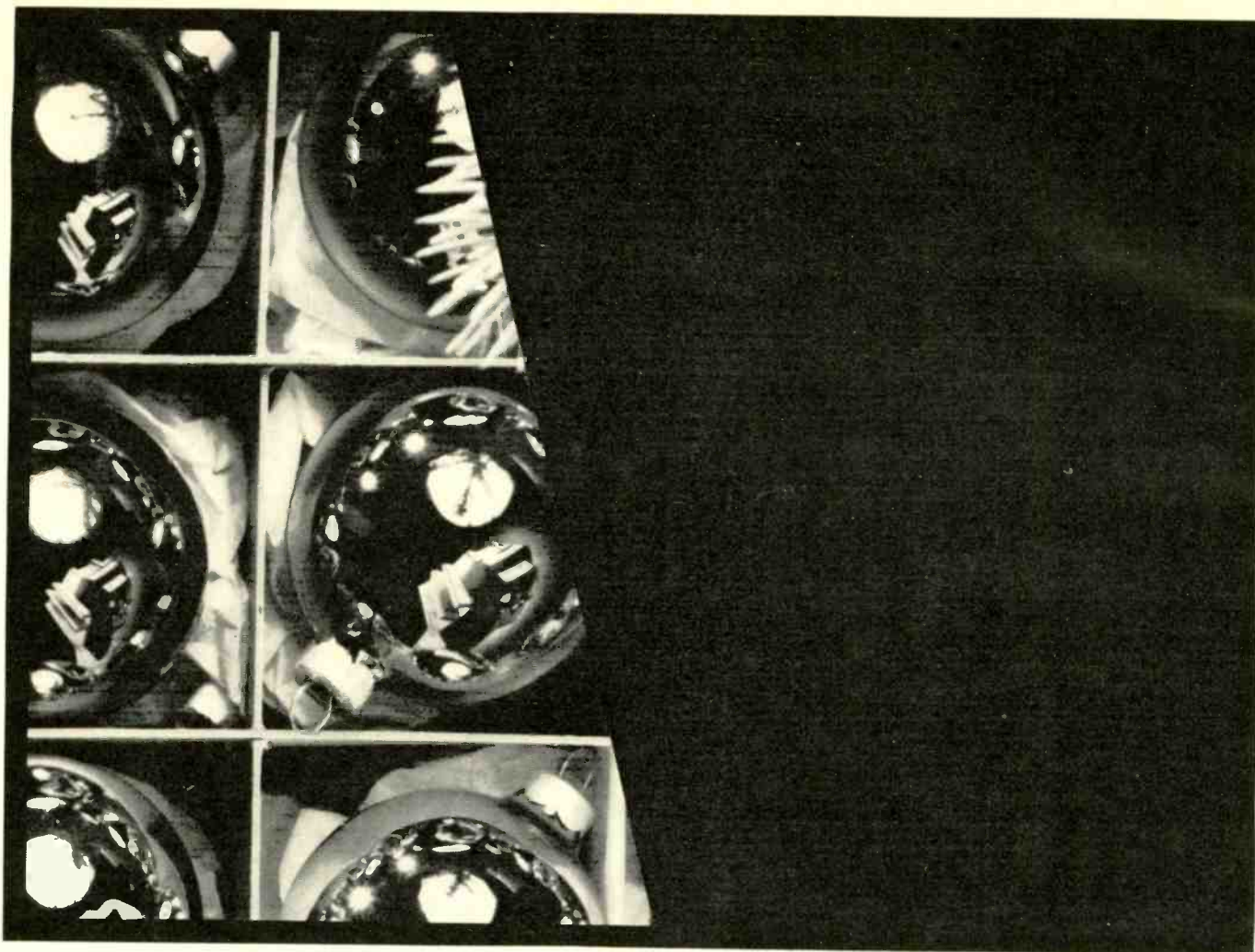
line control unit ever developed for headphone listening. Works with Stanton Dynaphase headphone systems as well as with other headphones. Lets you control listening at your location by providing separate volume and tone controls and a stereo-mono switch. Complete with 17-foot coiled cord, it acts as a perfect extension accessory. \$19.95.

Model 5742—Separate 25-foot coiled extension cord works with all headphones. \$7.95.

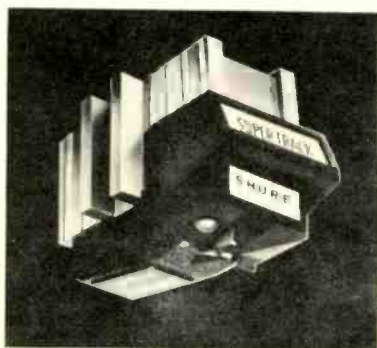
For complete technical data write Stanton Magnetics, Inc., Terminal Drive, Plainview, N.Y. 11803



Manufacturers of the world famous Stanton Calibration Cartridges and the renowned Isophase Electrostatic Headset Systems.



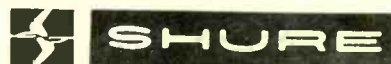
A cartridge in a pear tree.



A gift of the *Shure V-15 Type II Improved* stereo phono cartridge will earn you the eternal endearment of the discriminating audiophile who receives it. What makes the V-15 such a predictable Yuletide success, of course, is its ability to extract the real sound of pipers piping, drummers drumming, rings ringing, et cetera, et cetera. Stereo Review, in a test report that expressed more superlatives than a Christmas dinner, described the performance of the V-15 Type II Improved as ". . . . Unstrained, effortless, and a delight to listen to." All of which means that if you're the giver, you can make a hi-fi enthusiast deliriously happy. (If you'd like to receive it yourself, keep your fingers crossed!)

Shure Brothers Inc.,
222 Hartrey Ave., Evanston, Ill. 60204.

CIRCLE NO. 68 ON READER SERVICE CARD



STEREO REVIEW



ENTERTAINMENT

POPS • JAZZ • FILMS • THEATER • FOLK • SPOKEN WORD

Reviewed by NOEL COPPAGE • DON HECKMAN • PAUL KRESH
 REX REED • PETER REILLY

BEACH BOYS: *Surf's Up* (see Best of the Month, page 79)

THE BYRDS: *Byrmaniax*. The Byrds (vocals and instrumentals). *Glory, Glory; Pale Blue; My Destiny; I Trust; Citizen Kane; Tunnel of Love*; and five others. COLUMBIA KC 30640 \$5.98, © CA 30640 \$6.98, © CT 30640 \$6.98.

Performance: Byrds and why
 Recording: Glossy

A lumpy outing, surrounded with sumptuous production, that starts off in one place (clumsy satire like *I Wanna Grow Up to Be a Politician*) and then meanders around to pretty, empty songs such as *I Trust* and *Tunnel of Love*. At times I had a sneaky *aperçu* that the Byrds had been listening to some old Three Suns recordings, so thick was the choral blend and so innocuous the content. If any mileage is indeed left in the Byrds, I doubt that sweetness and light is the key to their revival. The production is Hollywood super-de-luxe and as booming and meaningless as that implies. *P.R.*

CHÉR. Chér (vocals); orchestra. *The Way of Love; Fire & Rain; Touch and Go; One Honest Man; I Hate to Sleep Alone*; and five others. KAPP KS 3649 \$4.98, © K8 3649 \$6.98, © K7 3649 \$6.98.

Performance: Not in focus
 Recording: Fussed over

Sonny & Chér, or at least Chér, have the TV executives at CBS jumping up and down in their Gucci loafers. Their summer replacement series was the hit of the season, and you can expect them soon on the permanent prime-time schedule. As TV performers, they deserve their success. Their act, with a few mod embellishments, is in the great vaudeville tradition of, among others, Burns and Allen (with the roles reversed), and they have a hokey but seemingly genuine affectionate-married-couple rapport that transmits itself to the viewers. The act seems to be the almost total creation of Sonny Buono, whose supervision extends even to the choice of Chér's clothes and fussing over her (pulling strands of hair away from her forehead, picking off imaginary bits of lint, etc.)

like any loving husband whose wife is turning into a gold mine under his very eyes.

The latest bit of fussing is the release of this new solo album, "Chér." From the obligatory Avedon cover photos (his work is beginning to look as dated as the photo-portraits on Good Humor lids) to the perfumed arrangements to the clenched-teeth chic of the choice of repertoire to the Strreisand-soul performances, the album abundantly proves that Chér is a lot more interesting to see than to hear. Watching Chér sing can be fun—probably even if she's singing something like *I Hate to Sleep Alone* or *One Honest Man* included here. There's a lot to look at: her odd, expressive and striking

medium of television for a while—at least until Chér gets the glamour image completely together. It was, after all, only a couple of years ago that one seldom saw her in anything but a fur vest and pants, droning *I Got You, Babe* in high hippie style. Dietrich or Baker weren't made in a day—so to speak. *P.R.*

RECORDING OF SPECIAL MERIT

LARRY CORYELL: *Barefoot Boy*. Larry Coryell (guitar); orchestra. *Gypsy Queen; The Great Escape; Call to the Higher Consciousness*. FLYING DUTCHMAN FD 10139 \$5.98, © M810139 \$6.95, © M 510139 \$6.95.

Performance: Virtuoso
 Recording: Good

Larry Coryell is, as they say, a dynamite guitarist. He combines incredible technical ability with strong musicianship and, in this recording, a sharp awareness of the possibilities of the electric guitar in record-making. His handling of textures and patterns is masterly, and his reading of Gabor Szabo's *Gypsy Queen* seems to me to be the best on records. But after more than forty minutes of non-stop electric guitar, my head began to feel like a skillet being hit with a hammer. There are only three tracks on the album, and I suggest that you listen to them separately, at different times. But do listen to them; Coryell is a real artist. *P.R.*



SONNY AND CHÉR
In the great tradition of Burns & Allen

face; her gestures and movements, which are those of an animated fashion mannequin; her fantastic hairstyles, which remind one of Mother Goddam, and her casual projection of a witty intelligence that doesn't take itself too seriously. It is the sort of thing that Gertrude Lawrence is reported to have been able to do on the stage, and is a precious and indispensable talent of all great cabaret stars. Very little of this stylized self-assurance comes through on the recording. Instead, it is closer to those comedy bits on the show in which her putdown exchanges with Sonny (which often make her seem a reincarnation of the famous dead-pan comedienne from those old MGM musicals, Virginia O'Brien) are marred by a slight nervous stiffness and occasional cue-jumping.

Since Chér, and indubitably Sonny, are obviously going to be around for a long, long time, it might be wiser if they concentrated on the

DANDO SHAFT. Dando Shaft (vocals and instrumentals). *Coming Home to Me; Railway; Whispering Ned; Sometimes; River Boat; Kalyope Driver; Waves upon the Ether*; and four others. NEON NE5 \$5.98, © P8 NE5 \$6.95.

Performance: Very good
 Recording: Very good

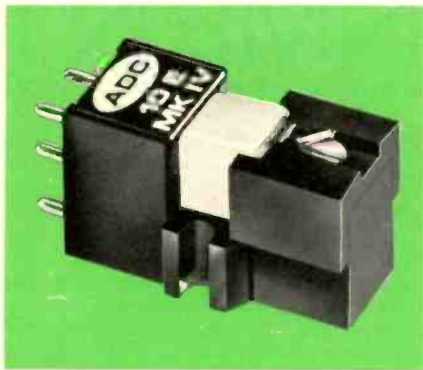
This is an all-acoustic band with very fine potential and a few problems it should be able to solve. The style is in the Pentangle-Fothering-gay vein. *Coming Home to Me, Railway, and Waves Upon the Ether* are strong cuts, *Waves* (although new, as are all the songs) sounding like a Scottish forerunner of Bluegrass. Most of the other songs just aren't that interesting, however. Polly Bolton, the only girl in the group, has an appealing voice; at singing harmony she's erratic, but sounds fine with Martin Jenkins on *Coming Home* and rather lost trying to help Dave Cooper on *Sometimes* and Kev Dempsey on *Till the Morning Comes*. The latter is beautifully arranged, nicely punctuated by Jenkins' flute, and left me feeling they went to more trouble than it was worth. Jenkins plays cello mandolin and eerie violin-fiddle beautifully on *Railway*, in addition to playing the flute. I think the record is badly mixed, for the mandolin sounds much too loud

Explanation of symbols:

- Ⓜ = reel-to-reel tape
- Ⓢ = four-track cartridge
- Ⓣ = eight-track cartridge
- ⓐ = cassette

Monophonic recordings are indicated by the symbol Ⓜ; all others are stereo.

NOW— THE ADC 10E MK IV



The latest version of the famous ADC 10E is better than ever, for it incorporates many of the refinements found in the acclaimed ADC 25 and 26. It takes full advantage of ADC's unique induced magnet system, where the heavy moving magnet found in most other high fidelity cartridges is replaced by a hollow tube weighing at least 60% less.

This arrangement also allows the generating system to be placed close to the stylus tip, thus virtually eliminating losses and resonances introduced by a long cantilever.

Coupled with the economies inherent in Audio Dynamics' latest manufacturing techniques, these features make the new 10E MK IV probably the finest value in high performance cartridges available today.

10E MK IV SPECIFICATIONS

Type . . . Induced Magnet
Sensitivity . . . 4 mv at 5.5 cms./sec.
recorded velocity
Tracking Force . . . 0.7 grams
Frequency
Response . . . 10 Hz to 20 kHz \pm 2 db
Channel
Separation . . . 30 db from 50 Hz to 12 kHz
Compliance . . . 35×10^{-6} cms./dyne
Vertical Tracking
Angle . . . 15 degrees
Recommended Load
Impedance . . . 47,000 ohms (nominal)
Suggested Retail Price . . . \$50.00



AUDIO FOR AUDIOPHILES

CIRCLE NO. 9 ON READER SERVICE CARD

124

relative to the two guitars on some cuts, but maybe that's the way they wanted it. This group isn't as good as Pentangle and Fotheringay, but it's already better than many other groups. N. C.

BOB GIBSON. Bob Gibson (vocals and instrumentals); various accompanists. *Fog Horn; Sam Stone; Leavin' for the Last Time; For Lovin' Me; A Hard Rain's a-Gonna Fall*; and five others. CAPITOL ST 742 \$5.98.

Performance: Country dull
Recording: Very good

Gibson has been around long enough to attract a lot of admirers. His music comfortably mixes folk with country-&-western, and his easy-listening voice is pleasant enough. Unfortunately, he has an excruciatingly accurate ear for cliché, both musical and verbal. His original pieces are simply abysmal (especially those written in collaboration with Shel Silverstein—author of such enlightening pop songs as *A Boy Named Sue*). One Gibson original, *Easy Now*, has both chord changes and melody that seem to have been directly ripped off from Sinatra's hit *My Way*. Other pieces, filled with familiar liberal political sentiments, are easy enough to agree with—does anyone *not* think the war is a horror anymore?—but not particularly relevant to the world of 1971. And maybe that's the problem with the whole album. D.H.

BARRY GORDON: *Pieces of Time.* Barry Gordon (vocals and guitar); orchestra. *Deluge; Movin' Day; For the Children; Wonders Why; Conversation*; and five others. CAPITOL ST 805 \$5.98.

Performance: Professional
Recording: Glossy

Barry Gordon is the former child actor who was a success as the boy in *A Thousand Clowns*. Time has passed, and now Gordon makes his adult debut as a composer-performer. Jimmy Webb hasn't got a thing to worry about. Gordon comes across as a very assured, very professional performer singing big, slick commercial ballads in a big, controlled, and equally slick voice. His songs aren't bad, but they seem contrived in a theatrical way that lessens their emotional tension. This is a thoroughly respectable effort in every way, but it is marred by a glossiness that makes Gordon seem much older than he is. P.R.

HEDGE & DONNA: *Revolution.* Hedge and Donna Capers (vocals); Hedge Capers (guitar); various musicians. *Touch Caste on the Water; She Said She Said; Colorado Exile; Free and Easy; Aragon Ballroom; Heavy Ways of Moving; May 7th; Sail a Schooner*; and four others. POLYDOR 24 4603 \$4.98.

Performance: Missing something
Recording: Very good

The elements of this one somehow add up to less than they should. Hedge Capers is an easy, capable singer, and Donna is one of those soul queens of at least some quality. The arrangements are only *slightly* overblown. The songs are better than average (I'm especially fond of the lyric of lead guitarist Joe Walsh's *Collage*: "Winter time is a razor blade/That the Devil made/And the price we pay for the summertime"). But some catalyst is missing. The thing just hangs there, promising but never delivering excitement. It comes close with *Nickel a Night*, but the arrangement goes sour near the

end, ringing in a tacky ornamental woodwind. Perhaps it's significant that the title "Revolution" on the jacket has the "R" x-ed out—and these performances will grow on me eventually. Meanwhile, I find it much too easy to be detached about this recording. N. C.

HOUSTON. Houston (vocals and instrumentals). *Pretty Millie; Mucho Gusto; Hairy One; Fast Thinkin' Sam; Sally Bumper; Some Day Do; All My Life; Fly; Elizabeth; Doctor.* SSS INTERNATIONAL SSS 19 \$4.98, © SST 19 \$6.95, © SSC 19 \$6.95.

Performance: Awkward and innocent
Recording: Good

Houston is just sufficiently inept to convey a certain kind of charm. Its loose vocal harmonies, a rag-tag version of what the Jefferson Airplane or the Mamas and the Papas might have done, amount almost to originality, or at least style. On the noisemakers, I hear only one real musician, playing inventive bass stemming from the "Abbey Road" period of Paul McCartney. The other strumming and plunking sometimes—not often—has the easy-going funkiness of Fifties rock-and-roll, without the excessive volume of that era. Too often things fall apart, though, with the piano mixed too loud in view of the fact it's only going *ping-ping-ping* most of the time. The caliber of the songs is not high enough to sustain the album, either. But the group's loose, low-keyed approach provides some nice moments when that awful piano shuts up for a minute, and there's a certain lack of ambition about the whole album that I find appealing. N. C.

JEFFERSON AIRPLANE: *Bark.* Jefferson Airplane (vocals and instrumentals). *When the Earth Moves Again; Feel so Good; Crazy Miranda; Pretty as You Feel; Wild Turkey; Law Man; Rock and Roll Island; Third Week in Chelsea; Never Argue with a German if You're Tired or European Song; Thank; War Movie.* GRUNT FTR 1001 \$5.98, © P8FT 1001 \$6.95, © PKFT 1001 \$6.95.

Performance: Losing altitude
Recording: Very good

Last time, you'll remember, (or perhaps won't), your correspondent was saying in a review of the electric Hot Tuna album how glad he was the Jefferson Airplane still had singer Marty Balin and didn't have an electric violin. Well, guess what, fans? Marty Balin has left the Airplane and in his place there's an electric fiddle, the same one heard in the Hot Tuna album, that of Papa John Creach. The Airplane also has a new record label, Grunt, a subsidiary of RCA. "Bark" has some very fine moments, and the electric fiddle, restrained and well programmed into the maze of sound, actually helps, but not as much as the absence of Marty Balin hurts. Gone are those eerie vocal harmonies with Grace Slick and Balin wrestling with the top end while Paul Kantner wove in something of thicker texture down below. Gone are those slow-working but great cuts like *Turn My Life Down* on the "Volunteers" album.

"Bark" is good because of a heroic effort by Grace Slick on the vocals, and bad because too much of it is given to Kantner's Jefferson-Starship-type preaching about revolution, which has by now started to sound dull, repetitive, and childish. *When the Earth Moves Again* by Kantner and *Third Week in Chelsea* by Jorma Kaukonen are fine songs, and so is the jazzy

(Continued on page 126)

This year, only 250 people in the United States will be able to buy this speaker.



It's JVC's 4-way, 5 speaker acoustic suspension speaker system. And up until now the kind of quality, power and sound you get from it was only found in sound studios and concert halls.

Now JVC's put it into a speaker you can use in your home.

Besides the powerful 100 watts (peak power) this speaker is capable of handling, there are a lot of other features that make it the most advanced speaker for home use on the market. To begin with, we've incorporated in its 15" free-edge woofer a substantially larger magnet to achieve rich, heavy bass sounds. And we've added seven conical cones to avoid "divided vibrations" and provide strong reinforcement. A cellular horn unusual in a home speaker provides more crisp sound in the mid-ranges.



This speaker is also perfect for anyone interested in setting up a multi-amplifier stereo system. Its multi-channel input terminals permit you to hook up three separate power amplifiers, one to the woofers, one to the mid-ranges and one to the tweeters. We've also incorporated in it dual controls for both the middle and high frequency ranges. They're conveniently positioned on the front grille so there's no awkward reaching around behind your speaker to make any adjustments you want.

The whole system is enclosed in a walnut case specially constructed so there are no nails or screws to vibrate loose.

Because this speaker is so new and sophisticated we've only been able to produce it in a limited quantity.

There are just 250 pairs available this year. Owning a set means you'll be able to enjoy the most advanced home stereo sound available.

And there are only 249 other people who'll be able to say that.

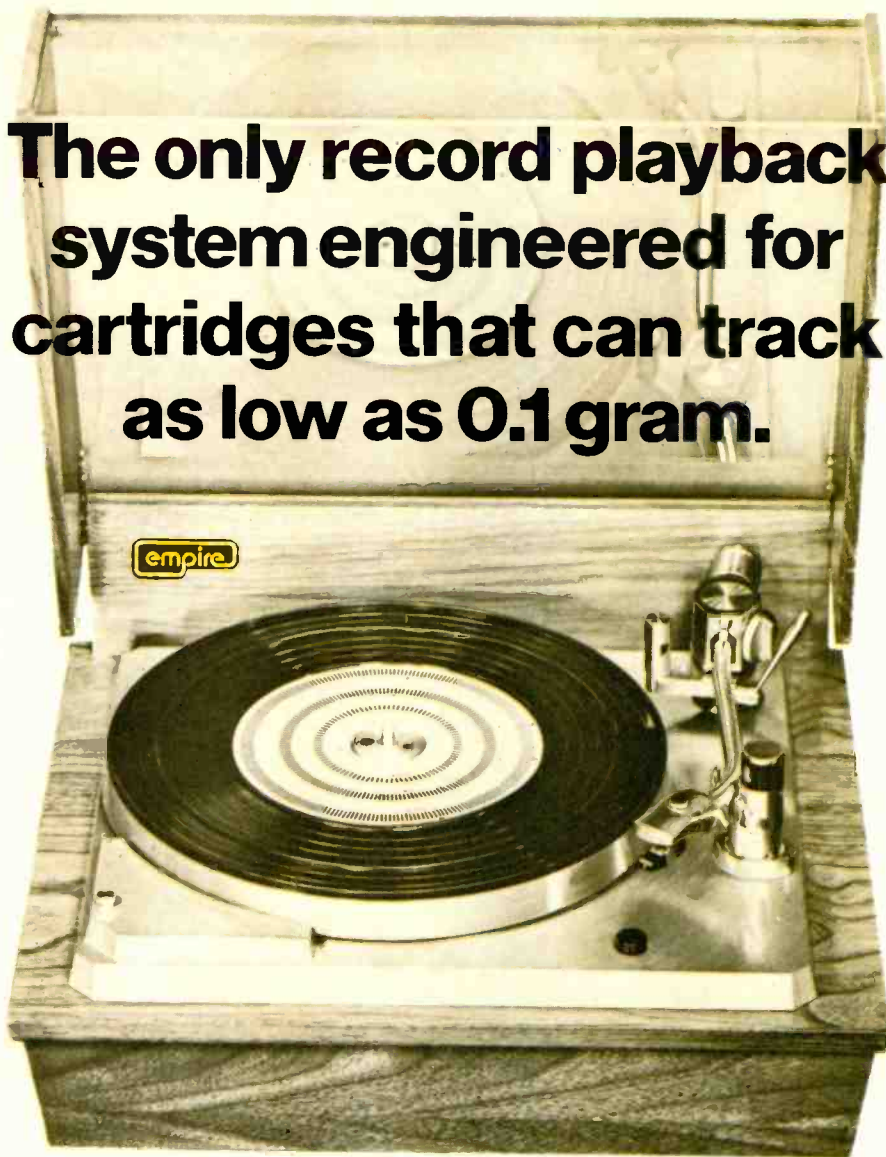
JVC

JVC America, Inc.

50-35 56th Road, Maspeth, New York 11378

CIRCLE NO. 39 ON READER SERVICE CARD

The only record playback system engineered for cartridges that can track as low as 0.1 gram.



World famous Troubador model 598 features:

- Empire 990—world's most perfectly balanced playback arm.
- Sealed instrument ball-bearings for horizontal as well as vertical motion. Arm friction measures a minute 1 milligram.
- Stylus force dialed with a calibrated clock mainspring—more accurate than any commercially available pressure gauge.
- No acoustic feedback when you turn up the gain or bass.
- World's finest turntable motor-hysteresis synchronous type maintains speed accuracy with zero error.
- Precision ground flexible belt drive, 12-inch turntable platter and 4-inch thick balanced drive flywheel.
- Lowest rumble of any turntable tested.
- Exclusive pneumatic suspension. Lets you dance, jump or rock without bouncing the stylus off the record.
- Dead-center cueing control. Tone arm floats down or lifts up from a record surface bathed in light, for exact band selection.

Troubador 598 playback system \$199.95. Walnut finish base and plexiglass cover combination \$34.95. 990 arm also available separately \$74.95.

For a free color catalogue, write: Empire Scientific Corp., 1055 Stewart Ave., Garden City, N.Y. 11530.



Mfd.
U.S.A.



little *Pretty as You Feel* by Kaukonen, Joey Covington, and Jack Casady. Grace's *Crazy Miranda* is fine, but not as good as her *Hey Frederick* on "Volunteers." But *Rock and Roll Island* and *War Movie* have typical Kantner lyrics (paranoid) and typical Kantner melodies (nonexistent), and *Law Man*, *Feel So Good*, *Wild Turkey*, and *Thunk* are nice but clearly minor works. That leaves Grace's *Never Argue with a German if You're Tired or European Song*, which has . . . ah . . . *chutzpah*, but what does it all mean? Grace was carrying the group when they made this record. N. C.

JO MAMA: *J Is for Jump*. Jo Mama (vocals and instrumentals). *Keep On Truckin'*; *Back on the Street Again*; *Smack Water Jack*; *My Long Time*; *Love Is Blind*; *3 A. M. in L. A.*; *Sweet and Slow*; and four others. ATLANTIC SD 8288 \$4.98, © M8 8288 \$6.95, © M5 8288 \$6.95.

Performance: Good
Recording: Good

Jo Mama, whose musicians have backed James Taylor and Carole King, is better at perking along calmly than it is at jumping. The group is a little into jazz and a little into blue-eyed soul, and it's the Motown gibberish that attends the latter that most harms the album. The band is quite facile and the production is tasteful, but the group went into the studio with several songs it should have left outside. *Sweet and Slow* is soft, jazzy, and sexy, simply done, a fine mood piece. *Sho 'Bout to Drive Me Wild* and *When the Lights Are Way Down Low*, both the work of Mac Rebennack (Dr. John the Night Tripper) with collaborators, are worth hearing several times—the band at last jumps properly on *Wild*—and *Have You Ever Been to Pittsburgh* is a fetching, funky blues take-off. Beyond that, the material runs thin, and not even Carole King's help with the vocals gives it body. Her *Smack Water Jack* is typical of the fare—how Buffy Sainte-Marie managed to squeeze some life out of that song is beyond me, for nobody else has been able to. Diligence in selecting material is what the group needs most. N. C.

LABELLE. Patti Labelle (vocals); orchestra. *Heart Be Still*; *Time*; *Wild Horses*; *You've Got a Friend*; *Shades of Difference*; and six others. WARNER BROS. WS 1943 \$5.98, © M 81943 \$6.95, © M 51943 \$6.95.

Performance: Imitative
Recording: Good

Aretha Franklin has recently succeeded Barbra Streisand as the most imitated female singer of the day. Labelle is the latest imitator, and one of the best. She has a big, immensely powerful voice that doesn't go anywhere stylistically because it is such an accurate carbon copy of Aretha. Too bad that performers like this feel so insecure about their own talents (and in this case not inconsiderable ones) that they feel they must Xerox a proven success developed by an established star. In many cases I think it might just be misplaced idealization of their hero. ("If I could only someday sing/act/dance like . . .") All too often they find that they indeed can, which may give them a certain amount of pleasure and satisfaction but generally leaves audiences cold. Imitation may be the sincerest form of flattery, but it is also an almost certain way of stalling a career before it gets off the ground. P.R.

(Continued on page 128)



Turn on whichever turns you on.

Among the "stereo set" it's pretty much a toss-up.

About half the audio enthusiasts to whom we've spoken say they still prefer their components separate.

The other half feel that if you don't sacrifice quality in either the receiver or the changer, why *not* wrap them up in one component package

Bogen, a leader in sound for just about 40 years, agrees. You should turn on whichever turns you on.

If you're a "separatist," we offer you the superb "best-buy" BR360 120 watt (IHF) AM/FM Stereo Receiver. Its many features include slides and push-buttons in place of conventional dials, handsome contemporary styling, and Crescendo Control . . . the exciting and exclusive Bogen feature that restores the dynamic range of music as it was *originally performed*. No other receiver has it!

For the compact lovers of togetherness, Bogen presents the BC360. Atop the exciting

BR360 we've mounted a deluxe BSR 4-speed automatic turntable . . . with anti-skating, cueing, automatic system shut-off, Pickering mag cartridge with diamond stylus, and the many other features you look for in a precision automatic table.

Suggested list prices: only \$299.95 for the receiver (walnut enclosure optional); \$379.95 for the compact, finished in handsome walnut.

To round out your stereo system, Bogen offers a choice of superb "Row 10" speaker systems, cassette and 8-track tape decks, precision turntable and headphones. For details, specs, and "where-to-buy" information, write us today.

BOGEN

LEAR SIEGLER, INC.



BOGEN DIVISION

PARAMUS, NEW JERSEY 07652

RABCO

Gives you a
choice —

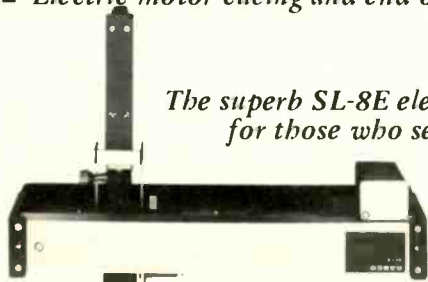
**TWO straight line
servo - driven
phono arms.**

*The moderately priced
ST-4 turntable and mechanical
servo arm*

- Synchronous motor at the turntable for constant speed
- Electric-motor cueing and end-of-record arm lift



*The superb SL-8E electric servo arm
for those who seek the ultimate*



ST-4 Combination \$159.00
Optional Two-Piece Cover \$15.00
SL-8E arm \$169.00

MAKERS OF THE ONLY SERVO DRIVEN STRAIGHT LINE ARM

RABCO 11937 TECH ROAD
SILVER SPRING, MARYLAND 20904

CIRCLE NO. 57 ON READER SERVICE CARD

New Honeywell Pentax Spotmatic II does things no other camera in the world can do.

Start with the world's best-selling 35mm SLR and the world's best metering system.

Now cap it off with a unique new lens that lets you take sharp, flare-free pictures in tough lighting situations you wouldn't even attempt to shoot with any other camera, no matter how expensive.

Fantastic? Fantastic! Visit your Honeywell dealer and see for yourself. Not all dealers are authorized to handle Honeywell products. If the dealer you visit does not have the product you want, shop elsewhere.



Honeywell

CIRCLE NO. 36 ON READER SERVICE CARD

JAMES LATE: *Fulton Fish Market.* James Late (vocals, guitar, harmonica); various musicians. *Fulton Fish Market; Very Good Man; Man on the Corner; Hard Hard Life; Baby Please Come Home; We Work Together; Lazy River; Make it on My Name;* and five others. METROMEDIA MD 1043 \$4.98.

Performance: Wholly mackerel
Recording: Good

You're not going to believe this: James Late is a frail young man who by day works in the Fulton Fish Market, scooting heavy crates of fish around, and by night writes songs about working at the Fulton Fish Market and scooting heavy crates of fish around. Possibly he's regarded as the house poet; at any rate, he has assumed the role of chronicler of the nonadventures of the big, strong men who work with him. The implication is that inside each big, inarticulate fish-handler, there's a frail, inarticulate poet crying to get out. Well, Woody Guthrie had to start somewhere, right? Right. And if Woody had started out writing songs as terrible as these, we could be more hopeful about the future of James Late. He introduces each song with an earnest monologue, which always turns out to be more exciting and more musical—and closer to poetry—than the songs.

Late sounds like a pretty good guitar player, and the arrangements are exemplary in their cleanliness and simplicity. But the banality of the songs and the thin impotency of Late's vocals make this just another gimmick record. I'm having my copy analyzed to find out if it's got mercury deposits. N. C.

MADRIGAL. Madrigal (vocals and instrumentals). *I Believe in Sunshine; Picture Frame; Boog; Television Nightmare; Lady;* and five others. SSS INTERNATIONAL 18 \$4.98, © SST 18 \$6.95, © SSC 18 \$6.95.

Performance: Bright
Recording: Good

Tie-dyed music with an upbeat outlook is the stock in trade of this latest young group. They sing a lot about sunshine ("She's a sunshine girl" . . . "I believe in sunshine"), but every once in a while a cloud steals over the proceedings as these four twangy fellows with identical mops of varying hues take sideswipes at the Establishment in scornful references to "plastic underwear," green stamps, and other sacred American institutions. And sometimes they just go "di, di, di, di" or "bop, bop, bop," which may or may not indicate the grinding of some axe or other between the lines. It's as up-to-date as the latest copy of *Variety*, and possibly just as ephemeral. I cry for madder music and for wilder hair! P.K.

NEW RIDERS OF THE PURPLE SAGE. New Riders of the Purple Sage (vocals and instrumentals). *Henry; Glendale Train; All I Ever Wanted; Dirty Business; Portland Woman;* and five others. COLUMBIA C 30888 \$5.98, © CA 30888 \$6.98.

Performance: Side-saddle
Recording: Good

My enthusiasm for things Western waned shortly after I learned that Roy Rogers, upon Trigger's demise, had him stuffed and set up as a permanent exhibit. I do hope that it didn't give Dale Evans any ideas for the future. But it might not be a bad idea for the perpetrators of this album. NROPS are someone's brain storm that rock and the sort of "Western" music that Autry and Rogers used to "sing" in their hey-

days be combined. The results would be enough to make Trigger turn over in his grave—if he had one. P.R.

THE PARTRIDGE FAMILY: *The Partridge Family Sound Magazine*. The Partridge Family (vocals); various musicians. *One Night Stand*; *Brown Eyes*; *Echo Valley 2-6809*; *You Don't Have to Tell Me*; *Rainmaker*; *Summer Days*; and four others. BELL 6064 \$4.98, © M8 6064 \$6.95, © M5 6064 \$6.95.

Performance: For zombies
Recording: Very good

This is what you call marketing, baby, so pay attention. The Partridge Family isn't quite as synthetic as the Archies, but like the Archies and the Monkees, the family was fabricated for television because a "rock-music family" was needed for another dumb, happy-go-lucky series. There is, of course, a rock-music family in real life, the Cowsills. You didn't think television producers thought up ideas for shows all by themselves, did you? I like to think the Cowsills turn down such parts, but it's more likely the producers never considered them—more marketing possibilities in creating a star (David Cassidy) from the ground up, for the kids, and bringing in Shirley Jones to hook the parents who remember her as the sweet simpleton in the film version of *Oklahoma!*

David is a mediocre singer, but hell, they sold Fabian, didn't they? Shirley no doubt does sing with the group, although I defy anyone to pick her voice out of the others on this record. Most of the singing is done by "background voices," and most of the instruments are played by sidemen who aren't privileged (or condemned) to be nominal members of the Partridge Family. The group now and then records a catchy tune—indeed, so did Fabian—and maybe one of these appears on each album. Here it's *I Woke Up in Love This Morning*, which wasn't catchy enough to deserve all the AM radio play it got a few weeks back, but that's marketing too, baby. N.C.

RASMUSSEN. Flemming Rasmussen (vocals, guitar); various musicians. *Thousand Miles*; *Love Song*; *Sunday She's Leaving*; *A Song to the Children*; *Johnny Got His Gun*; *Sometimes*; and four others. REPRISE RS 6449 \$4.98, © M 86449 \$6.95, © M 56449 \$6.95.

Performance: Mild-mannered
Recording: Good

Flemming Rasmussen, born in Copenhagen, has put together a listenable but not quite satisfying album. His songs are well-constructed and pleasant, with mild rock instrumentation, but not very distinguished. Rasmussen's voice, on the other hand, is closer to being distinguished than well-constructed. It sounds weak, as if he is not using his real voice, or as if he is too carefully shaping each sound.

His style both as singer and as songwriter seems to show Paul McCartney's influence. He seldom makes a clearly unpleasant sound, in either role. He's a good record producer—he's done an excellent job here with the arrangements. *Lady Sunshine*, with woodwinds, is a good example of what I mean. If the melodies were a little more original and if there were a jolt in the lyrics now and then, I could put his vocal limitations in perspective. Even so, I think he should definitely stay in the business. N. C.

HELEN REDDY: *I Don't Know How to Love Him*. Helen Reddy (vocals); orchestra, DECEMBER 1971



WE NEVER HAVE TO GO TOO FAR to get our Christmas tree. The woods around Jack Daniel's Hollow are filled with them. We hope that you won't have to go to too much trouble getting ready for the holidays either. So you can sit back and truly enjoy this happiest of all seasons.



CHARCOAL
MELLOWED



DROP



BY DROP

TENNESSEE WHISKEY • 90 PROOF BY CHOICE

© 1971, Jack Daniel Distillery, Lem Motlow, Prop., Inc.
DISTILLED AND BOTTLED BY JACK DANIEL DISTILLERY • LYNCHBURG (POP. 361), TENN.

RECEIVERS
TUNERS
AMPLIFIERS

TAPE
RECORDERS
DECKS

**LOW
PRICES**

ON FAMOUS BRAND
NATIONALLY ADVERTISED

**STEREO
COMPONENTS**

FAST DELIVERY
FACTORY SEALED CARTONS
WRITE TODAY FOR OUR QUOTE

**A. D. R.
AUDIO**

200 CHILLUM PLACE N.W.
WASH., D.C. 20011
(202)
291-3000

SPEAKERS
CARTRIDGES
COMPACTS

ALL
STEREO
SYSTEMS

CIRCLE NO. 1 ON READER SERVICE CARD

THIS

OVER 66 YEARS
OF RELIABILITY

IS WHY STEREO & HI-FI
BUYERS CAN BE SURE OF
SAVINGS
AT RABSONS

At Rabsons Competitive Prices, Reliability and Personal Service have been bywords for over 66 years. It's so EASY and SAFE to deal with Rabsons. As close as your telephone — as near as your mailbox • Fast Air Mail Response on Quotation Requests • Franchised Distributor for Hi Fi Lines • All merchandise brand new in factory sealed cartons, shipped double-packed, fully insured promptly from our warehouse • Greater savings on complete systems • Export packing • 220 Volts, 50 Cycle merchandising a specialty • Free list of monthly specials.

BEFORE YOU BUY GET A RABSONS QUOTE... YOU'LL BE GLAD YOU DID!

RABSONS 57 ST. INC.
119 West 57th Street, New York, N. Y. 10019
Tel. Area Code 212-247-0070

CIRCLE NO. 58 ON READER SERVICE CARD

Nick DeCaro, Jimmy Haskell, and Bob Thompson, arrs. *Crazy Love; How Can I Be Sure?; Our House; I Am Woman; L.A. Breakdown; A Song for You; Don't Make Promises*; and three others. CAPITOL ST 762 \$5.98.

Performance: Misguided
Recording: Good

Helen Reddy is another of those poor souls swimming upstream all the way in a musical world that does not deserve her. She's wailing Van Morrison, but smoke gets in her eyes. At times her voice is cloyingly sweet, and there are all the icky mannerisms from Tammy Wynette to Pet Clark. But there's some musical know-how here, she sings in tune, and self-confidence is not a thing she lacks. There's nothing wrong with Helen Reddy some decent backing and a set of reliable tunes couldn't cure. But Nick DeCaro, who has performed admirably as an arranger for Streisand, lets her down on *I Don't Know How to Love Him*; Helen's own song *I Am Woman*, a sort of rock tribute to Women's Lib, screeches while it preaches; and the best song on the album, *L.A. Breakdown*, really breaks down. When I think of the sensitive treatment Jack Jones gave to this song, I wonder why anyone would want to murder it. There are tunes by Leon Russell, Tim Hardin, and Van Morrison in this batch, but all of them have been sung better by others. Nowhere is there any indication that Miss Reddy has established her own style, her own attitude toward this music, or her own distinctive way of dealing with it. She needs some talismans to live by. The swim is still uphill, and the strokes are getting harder. R.R.

SPIRIT IN FLESH. Spirit in Flesh (vocals and instrumentals). *Fine Line; Flesh & Gut; Deny to Me; Clear the Way; Hear My Plea*; and five others. METROMEDIA MD 1041 \$4.98.

Performance: Cheerful
Recording: Excellent

Here is a youthful-sounding, beautifully produced, and at times almost joyous album. Spirit in Flesh has a cheerful and energetic attack, some fine drum playing by Johnny America, and a propelling rhythmic beat. As with so many new groups, however, they seem so delighted with their own found sound that they repeat it on every track. *Clear the Way*, the last song here, is as good a song, and as well-performed, as *Weight of the World*, the first one. But by the time you get to it you can anticipate most of what's going to happen. Right now Spirit in Flesh should be able to make it big on the singles market, but I suggest their next album be delayed to allow time for a little more variety to develop in their work. P.R.

MARK SPOELSTRA: *This House.* Mark Spoelstra (vocals and guitar); Doug Clifford (drums); Duck Dunn (bass); Stu Cook (guitar); Steve Miller (keyboards); the Stovall Sisters (vocals). *Dirty Movie Show; Better But-ter; Amazon Song; Pretty Bird; Let Your Fingers Do the Talkin'; This House*; and five others. FANTASY 8412 \$4.98.

Performance: Folkies revisited
Recording: Fine

Spoelstra's music sounds like a remnant from the early-Sixties folk revival. All those simple, familiar chord patterns and reminiscent melodies that weren't new even when Dylan and Ochs discovered them are dragged out again. All the familiar socially-conscious topics and personal reminiscences are here. It's certainly

not offensive music; it just isn't particularly interesting. Spoelstra sings pleasantly, and plays fairly well; he's backed by Creedence's Doug Clifford and Stu Cook, by Nashville's Duck Dunn, and by the fine keyboardist Steve Miller. On one track the Stovall Sisters fill in the backgrounds. To me it sounds dull, but if you insist upon recalling those dear, dim days of a decade ago, maybe Spoelstra's your man. D.H.

DAKOTA STATON: *I've Been There.* Dakota Staton (vocals); orchestra, Melba Liston and Dave Blumberg arr. *One Less Bell; I Can't Quit You Baby; Young Generation; Buy Myself a Man; Blues for Dakota; More Today than Yesterday*; and four others. VERVE V6 8799 \$4.98.

Performance: Wasted on trashy material
Recording: Good

It's good to have Dakota Staton, the "Late, Late Show" jazz singer from the Late, Late Fif-



HELEN REDDY
Musical know-how

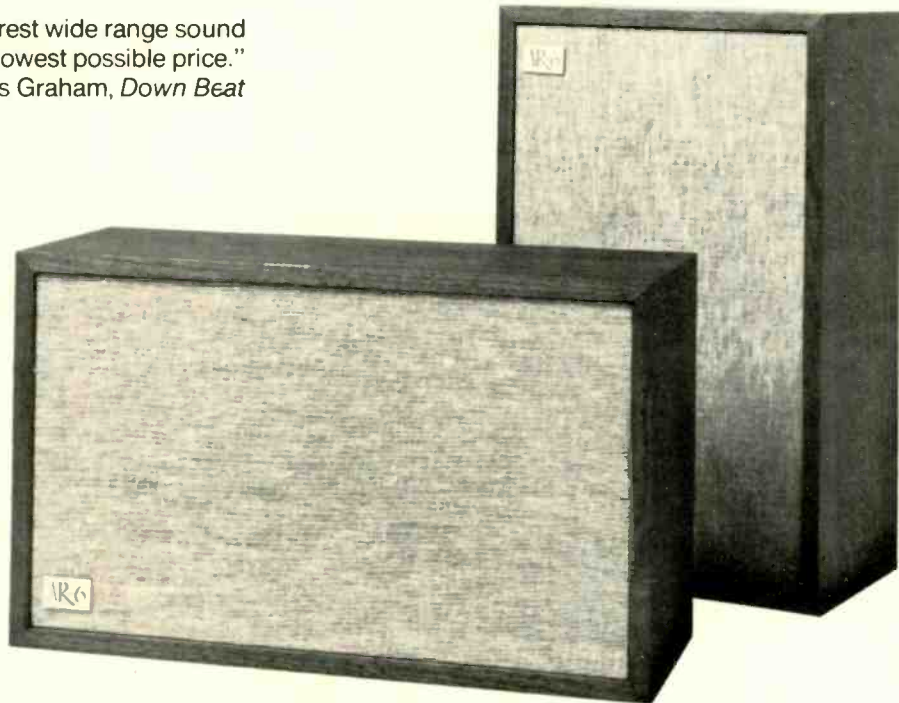
ties, back again on the record racks, but although the title of her new collection announces she's "been there" (who ever doubted it?), I only wonder where she's going now. That sweet little-girl jazz-bop voice seems sadly overused and misused and just plain thrown away on all this pushy, hysterical mock-rock pseudo-roll. Still adept at taking songs at the wrong tempos, she treats Bacharach's *One Less Bell to Answer* as if she were in church. And although she works up quite a genteel sweat on a sudsy gospel-blues called *I Can't Quit You Baby*, the song is so genuinely awful I could only regret the waste of all that energy. Right down to the cob, the songs on this album are so corny, so naive, and so just worthless it hardly seems worth the effort. A chorus of black Munchkins screeching away atonally in the background only hinders the proceedings. The voices are headed by Kim Weston, another talented singer who should be investing her talents in better stock. If I quoted the lyrics to these songs, you wouldn't believe me. Strings and a creeping beat made me think something was going to happen for the best on a thing called *What's Gonna Happen to Me*, but then Dakota came in with (I'll risk the quotation): "Went into the bathroom to wash my face, made you some muffins, then every piece of

(Continued on page 132)

"AR has done it again . . .

the best quality and purest wide range sound available today, at the lowest possible price."

Charles Graham, *Down Beat*



"... a really terrific performer. The AR-6 has a clean, uncolored, well-balanced response that delivers some of the most natural musical sound yet heard from anything in its size/price class, and which indeed rivals that heard from some speakers costing significantly more."

High Fidelity

"... out-performed a number of considerably larger and far more expensive systems that we have tested in the same way . . . We don't know of many speakers with as good a balance in overall response, and nothing in its size or price class has as good a bass end."

Hirsch-Houck Laboratories, *Stereo Review*

"I am unable to get over the sheer quality represented by the AR-6. To put my wonderment in perspective, perhaps the most telling thing I could add is that I never expected to be saying of any speaker in this price range that it deserves only the finest possible associated components. The AR-6 *does*, and that says a great deal about this product."

Larry Zide, *The American Record Guide*

The price of the AR-6 is \$81 in oiled walnut, \$72 in unfinished pine. Five percent higher in West and Deep South.



Acoustic Research, Inc.

24 Thorndike Street
Cambridge, Massachusetts 02141, Dept. SR-12

Please send complete specifications on the AR-6 to

Name _____

Address _____

BALTIMORE

STEREO WHOLESALE

Now, from the comfort of your home you can buy almost any Stereo Component at Special Discount Prices, from one of the East Coast's Leading Wholesalers...Your order shipped promptly in factory-sealed cartons. Write for quote today.

118 BALTIMORE-ANNAPOLIS BLVD.
GLEN BURNIE, MD. 21061
(301) 323-6233

CIRCLE NO. 12 ON READER SERVICE CARD

DISCOUNTS

WASH. D.C.
HAS NO FAIR
TRADE
LAWS!

ON STEREO COMPONENTS

PLEASE REQUEST
Prices for your choice of
Changers, Receivers, Tape
Recorders, Speakers, etc.

PROMPT DELIVERY
IN FACTORY
SEALED
CARTONS.

DISTRICT SOUND INC.

2312 Rhode Island Ave. N.E.
Washington, D.C. 20018
202-832-1900

CIRCLE NO. 24 ON READER SERVICE CARD

furniture whispered your name, it was Mr. and Mrs., now all that's changed." Once again I was filled with anger at the realization of what talented singers have to sink to in order to try for a best-seller on the charts. *R.R.*

PAUL STOOKEY: *Paul And*. Paul Stookey (vocals with instrumental accompaniment). *Gabriel's Mother's Hiway #16 Blues; Been on the Road too Long; Hey Sad Sack; Wedding Song; Meanings Will Change; Give a Damn;* and six others. WARNER BROTHERS WS 1912 \$4.98, © M 81912 \$6.95, © M 51912 \$6.95.

Performance: Beyond the folk song
Recording: Excellent

The "Paul and" of the title is no doubt meant to remind us that the Paul in question is our old friend of Peter, Paul and Mary, Paul Stookey. The label on the record says "Paul and Paul Stookey." I didn't know there were two of him, and thought I heard only one, but who knows? There's a lot that's mysterious about this record. Even though every last word Stookey sings is supplied in a run-on liner note. I was at a loss to understand certain passages, especially since one entire piece is in moon-language, or esperanto or something ("Gagarinale xe. Ileon ovlu niketh reeze, rogas candin . . ." or words to that effect).

Other texts, to be sure, are plain enough—memories of country walks and rides on riverboats, quotations from the New Testament, complaints of road-weariness—but what are we to make of lines like "Sebastian arrived in a cardboard suitcase," or "Oh boy, another gig with the tiger"?

And what is the music? Is it folk? Is it rock? Is it folk-rock? It is all of these, with something extra—wistfulness, a hushed gentleness in an idiom that takes us a step further into something rather new. At times, as in *Lucy Went Riding on a River Boat*, a subdued romantic softness is sustained, as though a French art song had been transmuted into a Western ballad by a long sojourn in Montana. At other times, as in a song about the Urban Coalition's slogan "Give a Damn," which ends with a kind of plea for involvement and even for funds, there's an evangelical cast to things. And in *Wedding Song*, which has already achieved some popularity, we have a kind of hymn to Hymen with a curious blend of sensual and religious overtones. Occasionally there seems to be a deliberate reaching for eccentricity (or is it just fashionableness disguised?). Throughout, a big group is involved in the background instrumentation—drums, guitar, bass, recorder, even a cello in the moon tune—but none of these ever obtrudes, and the singing style always is unforced, direct, and pure.

This puzzling album is no doubt worth pondering over and playing many times—a breakthrough, it may be, moving beyond the simplicities of the conventional folk ballad without abandoning its basic honesty. *P.K.*

JEREMY STORCH: *40 Miles Past Woodstock*. Jeremy Storch (vocals, piano); various musicians. *Spend Your Life with Me; I Have a Friend Named Billy; Smooth Southern Born Lady; Perhaps in Concert Hall; Horse; I'll Keep Fading Away;* and four others. RCA LSP 4541 \$5.98.

Performance: Dire
Recording: Excellent

Ever since the critics let Sherwood Anderson get away with the "Bless-my-soul-I-just-discovered-me" sort of story, we've had *artistes* com-

ing down the pike in mournful numbers telling us all about themselves, their identity crises, and their latest flashes of insight. Why, there are places in California where insight is all they ever talk about. Nobody knows anything about baseball strategy, or which car can outrun which, or anything real like that. But I digress. Jeremy Storch, with this album, mostly tells you who he thinks he is. He does it in such bug-eyed, shaky-voiced wonderment that after a while you want to say something like, "Damn it, kid, let me alone so I can concentrate on this racing form." But you'll probably listen long enough to notice that his vocal style owes much to Neil Young. He *does* write melodies, which is more than you can say for some more famous songwriters. *Horse* is a nice hunk of melody, though not a whole one, and since it is blessed with no lyrics at all, it is easily my favorite on the album. As for the rest of

CBS



BARBRA STREISAND
Artistic purity and funky soul

them—well, the linotype operators at *Psychology Today* might have some fun with them. *N.C.*

RECORDING OF SPECIAL MERIT

BARBRA STREISAND: *Barbra Joan Streisand*. Barbra Streisand (vocals); orchestra, Peter Matz, Gene Page, Nick DeCaro, Dick Hazard, Head, and Fanny arr. and cond. *One Less Bell; Since I Fell for You; Space Captain; Theme from Summer of '42; Beautiful; Where You Lead; You've Got a Friend;* and five others. COLUMBIA KC 30792 \$5.98, © CA 30792 \$6.98, © CT 30792 \$6.98.

Performance: Thrilling
Recording: Excellent

You learn new things with each new Streisand album. This time, I learned her middle name is Joan. Also, I learned a bit more about her musical agility: a professional slickness that can ease itself into any kind of musical form, embrace it, get the most out of it, leave it a bit more regal for her interest. Eclectic is the word for the repertoire on this collection. The old Barbra is around often enough, which is good enough for me, but there are new discoveries, too. Her voice can transform a piece of music into something more demanding and more richly rewarding than it seemed possible it could be. Example: a Carole King song called *(Continued on page 134)*

STEREO REVIEW

THORENS manual



TD-125AB

PE automatic



PE-2040

The best of both whirls

For manual play, experts and hi-fi enthusiasts agree the most esteemed name in transcription turntables is Thorens. Among automatic turntables, PE offers unparalleled value. Perfection in performance. At better hi-fi dealers everywhere. Distributed exclusively by: Elpa Marketing Industries, Inc., New Hyde Park, N.Y. 11040/Scottsdale, Ariz. 85253

SEE



The Red Baron

AT YOUR STEREO DEALERS.



David Clark COMPANY
INCORPORATED

360 Franklin St., Worcester, Mass., 01604

West Coast Office: 1696 Centinela, Suite 2, Inglewood, Cal. 90302

CIRCLE NO. 20 ON READER SERVICE CARD

You've Got a Friend. I've heard it before, most recently performed by Miss King herself. But listening to a real actress interpret it, I find the song takes on new emotional shadings. I listened to Streisand sing this particular song five times in a row, and the effect is as close to a rock aria as a song is likely to get.

It's hard to explain exactly what she does with the rock material in this album. A lot of it has to do with acting. But there's more, too. She takes each song, divides it into movements as if it were a symphony, then smoothes the wrinkles—like ironing out a piece of cloth—until the song is dry. It's as though she knows, understands, and cares about each song, as if it were written by a Sondheim or an Arlen. I suppose that's why she transcends fads and fashions, and why she seems equally at home in all kinds of musical forms. The girl is a true musician. She has artistic purity and funky soul at the same time. I can't think of many rock musicians I can say that about.

Of course it is true, as some of Barbra's detractors have unkindly pointed out, that an air of pretentiousness does surround some of the selections on this disc. A piece of trash like *Space Captain* is unmistakably from another bag of sore throats, so I can scarcely blame her for flailing the living daylights out of it. Sometimes she seems to try too hard to convince the kids and the freakouts on the narrow-minded rock scene that she is one of them, that she just does those jazzy items like *His Is the Only Music That Makes Me Dance* so she can still play Vegas. This leads to unwise material selection. *Beautiful* proves Carole King is capable of writing garbage, and *Mother* proves John Lennon has his moments of musical shipwreck. But for every flaw on this album, there are four or five wonderful surprises—good odds these days.

Some of the other things I especially liked are *I Never Meant to Hurt You*, a gorgeous new Laura Nyro song, Billy Preston's positively dirty organ on *Where You Lead*, the sequined arrangement by Kenny Welch on Burt Bacharach's *One Less Bell*, the carnal knowledge of Larry Muhoberac's sensual piano on *You've Got a Friend*. There are enough highlights on the session to make me forgive (almost) the corny seagulls screeching away in the background on the *Theme from Summer of '42*. Barbra just keeps growing as an artist. I wouldn't care if her middle name was Adolph. Musically, she knows where it's at. R.R.

KEITH TEXTOR AND FRIENDS: *Hold Me*. Keith Textor, Lesley Miller, Juli Christman, Jerry Duane, Bill Dean, Gene Steck (vocals); Keith Textor arr. and cond. *I Want to Get to Know You*; *He Has a Way*; *You've Got a Friend*; *Take Me to Tomorrow*; *Hold Me*; and five others. A & R ARL 7100/006 \$4.98.

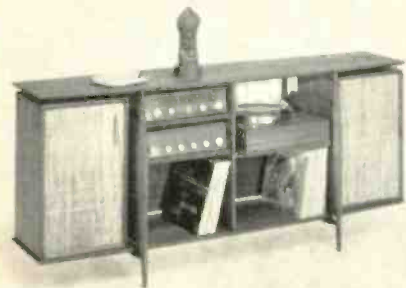
Performance: Pleasant
Recording: Good

This group is composed of six talented vocalists who lean slightly toward gospel and blues, with material ranging from such familiar chestnuts as Carole King's *You've Got a Friend* and the Lennon-McCartney *Fool on the Hill* to more adventurous outings like Gene MacLellan's *Put Your Hand in the Hand*. There is nothing wrong with what they do; the trouble is, it is entirely too predictable. The voices blend, modulate, hum away like a ceiling fan, and rise occasionally to passionate crescendos, but it all has a studio sound to it—it is so slick and so relaxed and so unoriginal that it begins

(Continued on page 136)

STEREO MUSIC CENTER

from "shelf
speakers"



model 303

we can't seem to stop designing new and better cabinets. . . have you seen our brochure lately? it's free. for a fast reply, mail this ad with your return address.

audio originals

546 S. Meridian • Indianapolis, Ind.

CIRCLE NO. 10 ON READER SERVICE CARD

HI-FI COMPONENTS TAPE RECORDERS

TAPES, ACCESSORIES
SLEEP LEARN KITS
MERITAPE

SAVE MONEY

- LOWEST PRICES
- INTEGRITY • SERVICE
- FRANCHISED DISTRIBUTORS

WRITE FOR OUR VERY LOW
PACKAGE QUOTATIONS
Nationally Advertised Brands

Factory Sealed Cartons

Write for **FREE CATALOG**

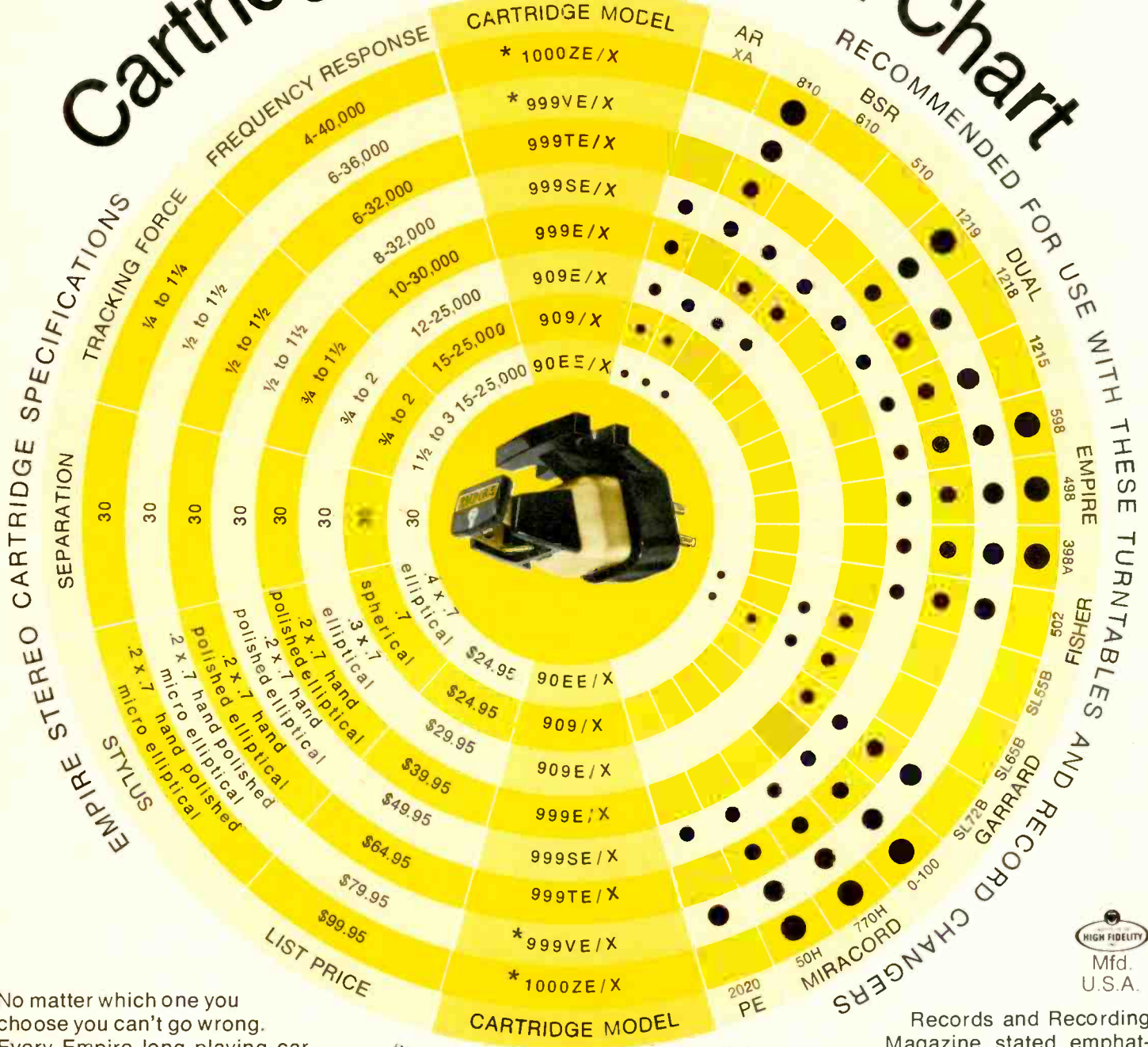
Visit Our Showrooms

DRESSNER

Dept. G,
1523 JERICHO TPKE.
NEW HYDE PARK, N.Y.
11040

Cartridge Identification Chart

* Approved for 4 channel



No matter which one you choose you can't go wrong. Every Empire long playing cartridge is fully shielded, with four poles, four coils, and three magnets (more than any other brand). Perfect magnetic balance, with a signal to noise ratio of 80 dB, they feature a moving magnetic element and stylus lever system .001 inch thick. The performance is phenomenal!

The Experts Agree — For example: Stereo Magazine who tested 13 different cartridges rated the 999VE tops in lightweight tracking ability.

Hi Fi Sound Magazine called the 999VE "a real hi-fi masterpiece... a remarkable cartridge unlikely to wear out discs any more rapidly than a feather held lightly against the spinning groove."

High Fidelity Magazine said of the 1000ZE "The sound is superb. The performance data among the very best."

'X' designates newest improved version.

Records and Recording Magazine stated emphatically that the 999VE stereo cartridge is "a design that encourages a hi-fi purist to clap his hands with joy."

FM Guide wrote "...using the 1000ZE. It works beautifully... giving great results."

Audio Magazine observing a remarkable 35 dB stereo spread between left and right channels in the 999VE said "Outstanding square waves. Tops in separation."

Popular Science Magazine picked the 999VE hands down as the cartridge for "the stereo system I wish I owned" designed by Electronics Editor Ronald M. Benrey.



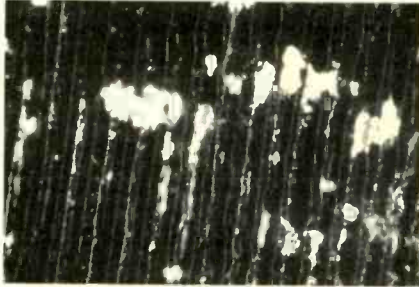
Write for free 1971 Guide to Sound Design: Empire Scientific Corp., 1055 Stewart Ave., Garden City, N. Y. 11530.



Vinyl records and humidity serve as a complete life support system for...

MICROBES?

When you clean your records with Discwasher™ you'll see that it works so well that we don't have to dream up weird problems to solve. Point is...damage caused by the enzymes that microbes produce is real!



UNRETOUCHED 200X PHOTOMICROGRAPHS

Active fungal colony growing on a record. Record surface permanently cratered by enzyme attack.

Microbes such as these are found everywhere. Discwasher protects your record investment. It does a lot of other good things too. Just \$12.95

CIRCLE NO. 82 ON READER SERVICE CARD



discwasher INC.
THIRTEEN SOUTH SIXTH STREET, COLUMBIA, MISSOURI 65201

ABOUT YOUR SUBSCRIPTION

Your subscription to STEREO REVIEW is maintained on one of the world's most modern, efficient computer systems, and if you're like 99% of our subscribers, you'll never have any reason to complain about your subscription service.

We have found that when complaints do arise, the majority of them occur because people have written their names or addresses differently at different times. For example, if your subscription were listed under "William Jones, Cedar Lane, Middletown, Arizona," and you were to renew it as "Bill Jones, Cedar Lane, Middletown, Arizona," our computer would think that two separate subscriptions were involved, and it would

start sending you two copies of STEREO REVIEW each month. Other examples of combinations of names that would confuse the computer would include: John Henry Smith and Henry Smith; and Mrs. Joseph Jones and Mary Jones. Minor differences in addresses can also lead to difficulties. For example, to the computer, 100 Second St. is not the same as 100 2nd St.

So, please, when you write us about your subscription, be sure to enclose the mailing label from the cover of the magazine—or else copy your name and address exactly as they appear on the mailing label. This will greatly reduce any chance of error, and we will be able to service your request much more quickly.

Lowest of the LOW!

Shamelessly Low Prices...

As one of America's largest wholesale distributors, we're guilty of shamelessly low prices. Our buying volume has made our prices the lowest. We seriously doubt you can find one lower... and that we're proud of. What's more, at S.C.A. you can select from hundreds of NEW, Factory Sealed, Full Warrantee, Brand name, Hi-Fi Stereo components. If its in the Hi-Fi, Audio field... we have it!

Write for a lowest of the low quote... we're not ashamed.



STEREO CORPORATION OF AMERICA



2122 UTICA AVENUE, BROOKLYN, NEW YORK 11234 (212) 338-8555

to sound disconcertingly like a hip attempt to send up Anita Kerr.

Yet I have to admit I enjoyed Keith Textor and his singers. They are easy on the ears, all highly trained professional musicians instead of raw rock freaks, and the backing is full of pleasant things. Some of the highlights are the pulsating build on *You've Got a Friend*, with the girls throbbing in the upper register, some nice uncredited piano, a lush blending of flutes and woodwinds at just the right places, and a wistful solo by Juli Christman on *Hold Me* that convinced me she deserves more sophisticated material. The second time I played this disc, I enjoyed it even more. But it is only a pleasant listening experience; it won't win any medals and it doesn't break any new ground. The record market is overcrowded already; this group needs to find something new to say. They've already got the musical know-how; now they need the repertoire that will help their talents to be noticed.

R.R.

BIG MAMA THORNTON: *Saved*. Big Mama Thornton (vocals); various accompanists. *Oh, Happy Day*; *Down by the Riverside*; *Glory, Glory Hallelujah*; *He's Got the Whole World in His Hands*; and four others. PENTAGRAM PE 10 005 \$4.98.

Performance: Big Mama led astray
Recording: Very good

The producers got in Big Mama's way this time. Saddled with a program of—can you believe it?—religious standards, Miss Thornton does the best she can, but it isn't good enough. The production is overweighted with electronic gimmickry, thick backgrounds, and an overall feeling of intrusiveness. I don't question Miss Thornton's ability; at this point in time it would be difficult for anyone to bring life to *Swing Low, Sweet Chariot* and *Go Down Moses*. To her credit, she invests them with more interest than they deserve, but all that production manipulation keeps sabotaging her.

This is the first release since Miss Thornton's new association with Pentagram (on a Warner Brothers distribution deal); let's hope the future has better things in store. D.H.

THE WHO: *Who's Next?* (see Best of the Month, page 80)

THE YOUNGBLOODS: *Ride the Wind*. The Youngbloods (vocals and instrumentals). *Ride the Wind*; *Sugar Babe*; *Sunlight*; *The Dolphin*; *Get Together*; *Beautiful*. RACCOON 2563 \$4.98, © M 8 2563 \$6.95, © M5 2563 \$6.95.

Performance: All Young, no blood
Recording: Excellent for "live"

The Youngbloods had a chance to amount to something, but they blew it. They had the talent to be either a fairly good rock band or a rotten jazz band, and for this recording they wobble toward the latter. They have de-emphasized the one thing—vocal harmonies that had bright, amateurish charm—that made them interesting. The songs here average six minutes in length, so each includes a lot of padding—"cool" pecking on piano, guitar, drums, and bass. Jesse Colin Young's domination of the group is all out of proportion; he has a good voice, marvelous for songs like *Darkness, Darkness*, but it can't do everything—it can't do Fred Neil's *The Dolphin* with any conviction, for example. This is dull stuff. N.C.

JAZZ



HADLEY CALIMAN. Hadley Caliman (tenor sax and flute); Larry Vuckovich (piano); John White, Jr. (guitar); Clarence Becton (drums); Bill Douglas (bass). *Cigar Eddie; Comencio; Little One; Blues for L.L.*; and two others. MAINSTREAM MRL 318 \$4.98.

Performance: Coltrane revisited
Recording: Very good

Caliman has respectable credentials as a middle-period Coltrane-style tenor player and flutist. He's been around for a while, mostly on the West Coast big-band scene, has spent some time at Synanon, and seems to have gotten his music together. Yet what he plays suggests so strongly another man's style that I find difficult to hear Caliman underneath all the Coltrane-isms. I suppose that's an inevitable consequence of the strength and influence of a figure as important as John Coltrane, but it's a shame that players like Caliman can't find a way to function creatively within the bounds of what is, after all, a kind of classical jazz style. In any case, my reaction is to want to pull out my Coltrane originals and listen to them. Too bad, because Caliman seems to have something to say, if only he could work out his own language. *D.H.*

BOBBY HUTCHERSON: *San Francisco/Featuring Harold Land.* Bobby Hutcherson (vibes, marimba, percussion); Harold Land (tenor sax, flute, oboe); Joe Sample (piano, electric piano); John Williams (bass); Mickey Roker (drums). *A Night in Barcelona; Goin' Down South; Procession; Ummh; Jazz; Prints Tie.* BLUE NOTE BST 84362 \$5.98.

Performance: Jazz looking for rock
Recording: Very good

In its still-tentative efforts at revival, jazz is going to have to avoid the temptation of following rock music down the primrose path of simple-mindedness. Hutcherson and Land, musicians with years of creative credentials, come dangerously close to stepping onto that path on this new release.

Almost all the tracks are trapped in the repetitive ostinato patterns that make bad rock such a disaster area. Sure, I know that musicians from Miles Davis to John Coltrane have made much of similar patterns, but the emphasis here seems to be upon simplicity for its own sake, and Hutcherson's superb vibes playing and Land's excellent tenor sax are lost in the process. I'd like to see jazz revived as much as anyone, and I'm sure the process is healthily underway, but efforts like this can't help but wind up in an artistic *cul de sac*. *D.H.*

(Continued on page 138)



The best of the past wasn't good enough for Bang & Olufsen

Most top quality amplifiers and receivers offer you less than 1% harmonic distortion, but when the signal reaches your speakers, there is trouble. Many speakers produce up to 5% distortion. Some popular models run as high as 15%! At Bang & Olufsen, we don't stand for that type of performance. So, the B & O Beovox Model 5700 now available in the United States offers you performance as distortion-free as the rest of your system... less than 1%. Here's how this remarkable accomplishment was achieved.

B & O 5700 Employs World's Largest Dome Speaker

In a joint effort with the famous engineers of Rola Celestion of England, Bang & Olufsen developed the world's largest dome speaker for use as a midrange unit. This 2 1/4" soft dome is employed from 5,000 Hz all the way down to 500 Hz. The unique aspect of such extended response in the midrange allows use of a bass system that need not work over 500 Hz. Since cone break-up can occur in the high

range of woofer response, this distortion is eliminated.

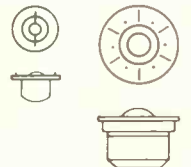
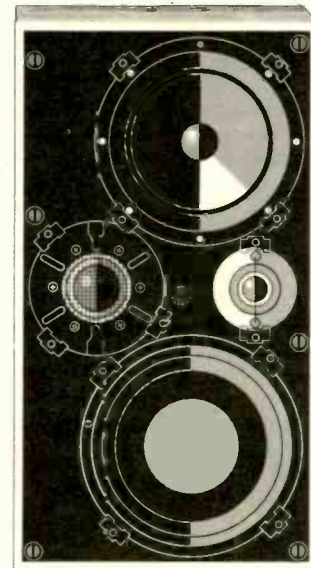
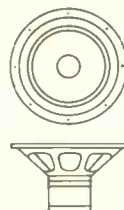
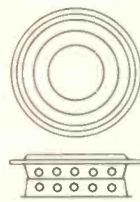
ABR System Provides Bass Fidelity, Compactness

The 5700 contains one active 10" woofer and a passive 10" Auxiliary Bass Radiator that amplify each other for very low distortion and improved transient response. The passive ABR permits tuning of the cabinet to a lower natural resonance in a small space.

The passive unit will continue to oscillate further down the frequency spectrum than the woofer itself. This means that we can reproduce lower frequencies. Distortion, which is normally most pronounced around the bass resonance, is reduced to less than 1% because the woofer is now required to oscillate at only half the amplitude.

The new Beovox 5700 by Bang & Olufsen is a most unusual unit designed for those who appreciate the purity of uncolored sound. It's just one of four new models of B & O speakers. Ask your dealer for a demonstration.

BEVOX 5700 \$285 ea.
Brazilian Rosewood or Burmese Teak



Bang & Olufsen of America, Inc.

525 East Montrose Ave., Wood Dale, Illinois • In Canada: Musimart Ltd.

CIRCLE NO. 13 ON READER SERVICE CARD

It's Make-Believe Ballroom Time again!

RCA's "The Big-Band Era"

BY PAUL KRESH

NOSTALGIA seems to have us by the lump in the throat, for the past is pulling at our sleeve these days on every street corner. Now it's the Big Bands. Whoever thought those tuxedoed and dinner-jacketed slickers would come back into fashion? Having long let the dust gather on ancient Victor "black-label" discs of Bunny Berigan, Benny Goodman, Glenn Miller, and Duke Ellington—and the dubious memories that went with them—I, for one, could no more bring myself to play them again than to drag out all my old Kodachromes of ancient trips to Chicago. Oh, there was going to come that rainy Saturday when I would tape all those breakable 78's to preserve them for my old age, but how many of us ever get around to such things? In countless collections, as in mine, those musical mammoths of yesteryear lie silent in the graves of their envelopes. But RCA has now done our archeology for us, and it's Make-Believe Ballroom Time again. So roll back the rug! The saxes are crooning, the drums are thumping, and the beat that all America once box-stepped and bopped to is swinging out again.

The first thing that catches the ear of the tourist on this expedition into the day before yesterday is the caliber of the men who played in that big-band era, which solemn jazz historians say started in the 1920's and faded out sometime in the mid-Fifties: Harry James and Ziggy Elman on trumpet and Gene Krupa on drums with Benny Goodman; Bunny Berigan playing the trumpet for Tommy Dorsey, then for Goodman, then founding his own suave group; Sonny Greer the drummer for Lionel Hampton, then going to work for Duke Ellington; Johnny Hodges on sax for Ellington; Al Caiola strumming guitar for Larry Clinton . . . headliners all. And the songs! (or rather the arrangements, for there is very little singing here): Benny Goodman's tour de force with *Sing, Sing, Sing*; Lionel Hampton and the *Twelfth Street Rag*; Earl "Fatha" Hines in his famous *Boogie Woogie on the St. Louis Blues*; Artie Shaw's *Frenesi*, which some of us swore would drive us crazy if the neighbors didn't stop playing it on their booming Capehart; Duke Ellington running his "A" train up to Harlem from every juke-box in the land; the smoooth prom music of Glenn Miller's blue, blue *In the Mood* and that opalescent *String of Pearls*; Bunny Berigan turning adolescents into world-weary sophisticates every time the phonograph played *I Can't Get Started*, with that extraordinary trumpet solo. And Count Basie—oh man! And Charlie Barnet—wow! Did you know that

the once-adored swing hit *And the Angels Sing* started out in life as *Fralich in Swing*—inspired by a Yiddish wedding dance? I thought not!

Recently it's become the vogue for today's dinosaur-sized groups such as Enoch Light's Light Brigade to cut new discs imitating the big-band sounds, but the real thing reveals itself in this set as utterly inimitable. Commercial it all was, to the hilt—big box-office, big business—but also genuine in its ways. To be sure, another jazz—a tougher, earthier, freer, more muscular music—existed underground beneath the glitter and the glamour, but never mind. The big bands offered a pulse and a verve, even a spaciousness and splendor, evident from the very first notes of *South* recorded by Bennie Moten's Kansas City Orchestra in 1928 and continuing, without a lemon in the lot, until Larry Clinton and His Orchestra sign off here with *Study in Brown*, taped June 1, 1956.

In his remastering, producer Don Miller has preserved the period sound, eliminating only the surface noise that once seemed part of the music on all records. So why fight it? Bring Gene Krupa and Harry James, Jess Stacy and Tony Pastor, Johnny Hodges and Buddy Rich out of their silent shellac coffins and back to the stage of your own private Paramount. Revel in your reveries. And if you've never heard these big moments from the past before, well then, it's *history*, right?

THIS IS THE BIG-BAND ERA. Original big-band recordings: *South* (Bennie Moten's Kansas City Orchestra); *Song of India* (Tommy Dorsey and his Orchestra); *Sing, Sing, Sing* (Benny Goodman and his Orchestra); *I Can't Get Started* (Bunny Berigan and his Orchestra); *Don't Be That Way* (Benny Goodman and his Orchestra); *Begin the Beguine* (Artie Shaw and his Orchestra); *And the Angels Sing* (Ziggy Elman and his Orchestra); *Twelfth Street Rag* (Lionel Hampton and his Orchestra); *Cherokee* (Charlie Barnet and his Orchestra); *In the Mood* (Glenn Miller and his Orchestra); *Boogie Woogie on St. Louis Blues* (Earl "Fatha" Hines and his Orchestra); *After Hours* (Erskine Hawkins and his Orchestra); *Take the "A" Train* (Duke Ellington and his Orchestra); *A String of Pearls* (Glenn Miller and his Orchestra); *Opus One* (Tommy Dorsey and his Orchestra); *Tippin' In* (Erskine Hawkins and his Orchestra); *Mister Roberts' Roost* (Count Basie and his Orchestra); *Study in Brown* (Larry Clinton and his Orchestra). RCA Ⓜ VPM 6043 two discs \$11.96.

SPOKEN WORD



ON THE EDGE—A Radio Ballad (Ewan MacColl, Peggy Seeger, and Charles Parker). Ewan MacColl, Peggy Seeger, Lorna Campbell, Ray Fisher, Lou Killen, and Gordon McCulloch (vocalists); Peggy Seeger, Alf Edwards, Alfie Kahn, Bryan Daley, Jim Bray, Colin Ross, Tony Martin, and Ronnie Hughes (instrumentalists); Charles Parker (producer). ARGO Ⓜ DA 136 \$5.95.

Performance: Whining youth talks . . . and talks
Recording: Good mono

This latest in the procession of "radio ballads" from the BBC takes up "the tale of the children of the troubled world" through interviews with teenagers, a musical continuity featuring the usual folksy instruments—ocarina, autoharp, mountain dulcimer, Northumbrian pipes and fiddle—and a long narration dark with tendentiousness. Ewan MacColl, Peggy Seeger, and Charles Parker, the producer, set out with their recording equipment in 1962 and chalked up one hundred and fifty hours of conversations with adolescents all over England, from which the material for this recording was selected. This skeptical old listener began to wonder after a while if the interviewees weren't just fed precisely what they wanted to hear: "I don't know why I should feel lonely . . . Maybe it's just a transition period. . . ." "I've got to vibrate. . . ." "I've got that feeling of just being pushed around. . . ." On and on like that, drenched in self-centered self-pity, generation-gap gabble, and a wearying pile-up of contemporary cant, some of it in accents incomprehensible to American ears. The editing, clever juxtaposition of music and dialogue, and use of sophisticated radio techniques are brilliant, as they have been throughout this series, but all the crosscutting—a marvelous segment counterpoints the narcissistic aspiration of one girl to become a movie star with the dreams of another to "give blood" and save society—cannot conceal a basic emptiness in the material that certainly was not there in the previous "ballads" on the plight of other oppressed English groups such as coal-miners and gypsies.

Perhaps the teenagers of England *aren't* an oppressed group—only polite enough to oblige any grown-up bearing a microphone by mouthing the clichés expected of them. And while 1971 isn't 1962, it's difficult to believe that less than a decade ago all the young people in the British Isles went about fretting and whining all day as these kids did. Christopher Morley once called childhood "the most pitiable of earth's slaveries, and perhaps the only one that can never be dissolved." Adolescence in any world, troubled or untroubled, may be simply beset by built-in handicaps which only growing up can remove. The "children" heard on this record, come to think of it, must all be pushing thirty and resenting their juniors instead of their seniors by this time. P.K.

STEREO REVIEW

Playing records with some cartridges is like listening to Isaac Stern play half a violin.



The trouble with some stereo cartridges is that they don't offer even reproduction across the entire musical spectrum.

In the important upper audio frequencies, some cartridges suffer as much as a 50% loss in music power.

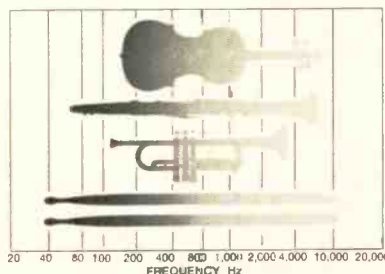
So, there's a lack of definition in the reproduction of violins, as well as clarinets, oboes, pianos, the organ and other instruments which depend on the overtones and harmonics in the upper frequency range for a complete tonal picture.

The Pickering XV-15 cartridge delivers 100% music power 100% of the time. Which is why we call

it "The 100% Music Power Cartridge." At 100% Music Power, all the instruments are distinct and clear, because the XV-15's have no music-robbing output drop anywhere in the entire audio spectrum. It makes an enormous difference!

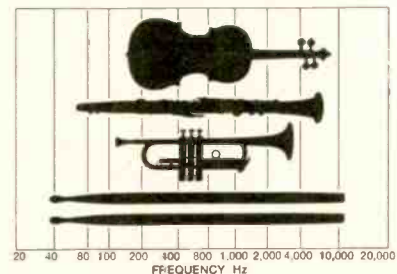
Cartridge power does this to the instruments:

A 50% music power cartridge can mask some musical instruments.



Pickering XV-15 stereo cartridges are priced from \$29.95 to \$65.00, and there's one to fit anything you play records with. For more information write: Pickering & Co., Inc., 101 Sunnyside Blvd., Plainview, Long Island, New York 11803.

The Pickering XV-15 gives you 100% Music Power 100% of the time.



Pickering. The 100% music power cartridge.

"for those who can the difference"

CIRCLE NO. 85 ON READER SERVICE CARD



Which of these two new Wollensak stereo cassette decks is worthy of your sound system?

One is Dolby. One is not.

The one on the left is the Wollensak 4760 cassette deck featuring the new Dolby System® of noise suppression. It reduces the level of background tape hiss by 10 db at 4,000 Hz or above, while greatly increasing dynamic range. To enhance fidelity, bias for both standard and high performance tapes can be selected by a tape selection switch. Frequency response of the Model 4760 is 35-15,000 Hz plus or minus 2 db. This deck is the ultimate in cassette decks; the finest you will ever buy. It is equal

® A TRADEMARK OF DOLBY LABORATORIES, INC.

to the best and most expensive open reel recorders.

For the man who wants many of the same high qualities of the 4760 without the attributes of the Dolby System, we have also invented the Wollensak 4755 cassette deck. Both of these unique decks feature a massive, counter-balanced bi-peripheral drive responsible for one of the lowest wow and flutter characteristics you'll find anywhere. The precise heavy-duty tape transport mechanism is considered the finest by many audio experts. This mechanism includes the only full-size flywheel and capstan available to assure constant tape

speeds. Fast-forward and rewind speeds are about twice as fast as any other. Interlocked controls allow you to go from one function to another without first going through a stop or neutral mode. End-of-tape sensing stops the cassette, disengages the mechanism and prevents unnecessary wear. The "Cassette Guardian" automatically rejects a stalled cassette in play or record position.

Either the Wollensak 4760 or the 4755 can complement your present component system with cassette advantages. Hear them both at your nearby dealer. Then answer the question: Dolby or not Dolby?

Either way...it's worth it **Wollensak 3M**

3M CENTER · SAINT PAUL, MINNESOTA 55101



STEREO TAPE

Reviewed by NOEL COPPAGE • DAVID HALL • IGOR KIPNIS • PAUL KRESH

BACH: *Passacaglia and Fugue in C Minor (BWV 582); Preludes and Fugues in C Major (BWV 547) and G Major ("The Great," BWV 541); Toccata and Fugue in D Minor (BWV 565)*. Organ of the Thomaskirche, Leipzig, E. Power Biggs (organist). COLUMBIA © MT 30648 \$6.98.

Performance: Biggs' best
Recording: Flutter and constriction
Playing Time: 40' 41"

This is an especially interesting program, not so much for the music, which has been recorded so often (and by Biggs himself a number of times), but because of the place of recording, which is Bach's own church in Leipzig. Columbia claims that this is the first recording made there by an American; I don't remember having run into any recorded solo performances from the Thomaskirche before, although they may exist. The interesting point is that the acoustics, with a fairly extensive reverberation time, are excellent. It must be pointed out, however, that Bach's original organ, which had been rebuilt a number of times since Bach's death, was razed in 1889. Whether the one that was built shortly after that time (and augmented to a total of eighty-eight stops in 1907) is the same that is heard here, I cannot say. The sound is that of a large Baroque tracker, but at least in the cassette version (I presume the jacket for the disc gives all the information) there is not one iota of explanation; there are no program notes, and the cassette labels are reversed as well.

The power of Bach's music on the instrument in these authentic surroundings is undeniably impressive. So, too, is Biggs' playing. It has real propulsion, power, and drive, and I am inclined to think that this is the American organist's finest recording of his long career. There are many, many wonderful things about these performances, but I doubt that the cassette medium is the ideal one in which to appreciate them. Aside from the lack of information mentioned, there is some hiss, slight if not annoying constriction, and, above all, rather more flutter than should be permissible for cassettes (I tried it out on two machines for

confirmation). I note also that, according to Dolby Laboratories, this particular cassette is supposed to have been Dolbyized. No such information is contained on the cassette itself, and, in fact, it merely sounds dull in my player's Dolby position. I.K.

RECORDING OF SPECIAL MERIT

BEETHOVEN: *Egmont—Complete Incidental Music, Op. 84: Overture; Die Trommel gerühret; Entr'acte I; Entr'acte II; Freudvoll and Leidvoll; Entr'acte III; En-*



E. POWER BIGGS
Bach with propulsion and power

tr'acte IV; Death of Klärchen; Melodrama; Victory Symphony. Pilar Lorengar (soprano); Klausjuergen Wussow (narrator); Vienna Philharmonic Orchestra, George Szell cond. LONDON © SCS 6675 \$6.95.

Performance: The best
Recording: Likewise
Playing Time: 57'40"

In my Best-of-the-Month review of this recording in the March issue, I observed that the late George Szell could not have reared a more perfect monument to his musical and personal ideals than this complete performance of Beethoven's incidental score for Goethe's *Egmont*. Upon hearing the performance again on London's Dolbyized cassette, I would now go so far as to say that this is the finest recorded performance George Szell ever gave us during his

long and distinguished career. I don't know what magic London has worked in its Dolbyized cassettes, but even heard on non-Dolby equipment, the sound simply leaps out of the speakers—and by the time I had heard Egmont's final speech over the menacing roll of the snaredrums at the place of execution, the hairs on my forearms were standing straight up. Most striking on the London Dolby tapes is the increased volume level—considerably more than on DGG's product, up to now the most consistently high-quality prerecorded cassettes I have heard. Yet the London *Egmont* shows no signs of overload, even at the most strident climaxes at the end of the Overture and in the final pages.

Klausjuergen Wussow does a superb job with both the connecting narration devised by Franz Grillparzer and with Goethe's own lines for Egmont, and Pilar Lorengar brings both youthfulness and passion to her delivery of the two songs of Klärchen, whose love for the hero forms a sub-plot. London's cassette package includes the program notes that came with the original disc release but, regrettably, none of the text or translation for the German narration and songs. D.H.

DEBUSSY: *La Mer*. **RAVEL:** *Daphnis et Chloë: Suite No. 2*. **BERLIOZ:** *La Damnation de Faust: Danse des Sylphes*. London Symphony Orchestra and Chorus, Leopold Stokowski cond. LONDON © M 94059 \$6.95.

Performance: Technicolored
Recording: Bright and detailed
Playing Time: 48'

Debussy's *La Mer* can be interpreted from either of two opposite points of view: symphonic-structural (Toscanini and Boulez) or coloristic, of which the present Stokowski reading is the most vivid example I've heard yet. Stokowski's reading is highly effective and further enhanced (for those who like such touches) by London's detailed microphoning of solo and small-ensemble episodes. More to my personal taste is Stokowski's rhythmically straightforward and gorgeously colorful reading of the Second *Daphnis et Chloë* Suite, complete with the original wordless choral scoring—but why, oh, why did he take it upon himself to extend the final measure of the music with an additional swelling chord for chorus alone not written by Ravel? It is a glaring blemish on an otherwise fine rendition. Stokowski's rather slow and heavy-handed treatment of Berlioz's *Dance of the Sylphs* from *The Damnation of Faust* is a curious choice for a filler.

One noteworthy aspect of this particular recording is the expert balancing of chorus with orchestra in the Ravel, where both the impact

Explanation of symbols:

- Ⓜ = reel-to-reel tape
- Ⓢ = four-track cartridge
- Ⓣ = eight-track cartridge
- ⓐ = cassette

The first listing is the one reviewed; other formats (if available) follow it.

Monophonic recordings are indicated by the symbol Ⓜ; all others are stereo.

and the "offstage" quality (as called for by Ravel) are admirably achieved. However, the climaxes, especially where rolled cymbals are involved, are not as cleanly reproduced on this Ampex-processed cassette as similar material is on London's own Dolbyized product, which seems to have a more solid bass foundation as well. Ampex, by the way, includes no program notes in its package. *D.H.*

RECORDING OF SPECIAL MERIT

SCHUMANN: *Symphony No. 3, in E-flat Major, Op. 97 ("Rhenish"); Symphony No. 4, in D Minor, Op. 120.* Vienna Philharmonic Orchestra, Georg Solti cond. LONDON © 5CS 6582 \$6.95.

Performance: Dynamic
Recording: Good
Playing Time: 62'20"

In reviewing the London set of Schumann symphonies on discs some months ago, I complained about the discrepancy in sound quality between the 1968 recordings—the "Rhenish" and D Minor symphonies—and the later recordings in the album. Low volume level and muddiness at the ends of the two very long record sides seemed to afflict both earlier recordings. In this Dolbyized cassette, London has made handsome amends for the shortcomings of the disc issue: the sound is solid, bright, and clean, and with no inner-diameter deterioration factor to worry about in the tape format the ends of the two symphonies sound beautifully loud and clear. The Solti readings are satisfyingly urgent in their dynamics, phrasing, and rhythmic momentum.

There is no tape competition for this particular coupling, and this is one instance in which I would recommend emphatically the purchase of cassette rather than disc if you want to hear the Solti performances to best advantage. *D.H.*

RECORDING OF SPECIAL MERIT

SIBELIUS: *Violin Concerto in D Minor, Op. 47.* **TCHAIKOVSKY:** *Violin Concerto in D Major, Op. 35.* Kyung-Wha Chung (violinist); London Symphony Orchestra, André Previn cond. LONDON © 5CS 6710 \$6.95.

Performance: Incisive and insightful
Recording: Superb
Playing Time: 65'20"

Two of the richest Romantic works in the repertoire are given searching and sensitive performances in this generous package. Sibelius wrote his violin concerto in 1903 and rewrote it in 1905; the applause of audiences throughout the world must have rung in his ears steadily from that time forward. Tchaikovsky had the usual trouble with *his*. After alerting Madame von Meck to his new project in 1878, he dashed off his Concerto in D in a month, only to hear from Leopold Auer, the teacher and violinist to whom he had dedicated it, that the work was "unplayable." Three years later it was played in Vienna and, like so many of the gloomy Russian's great works, got the cold shoulder. Eventually, however, the concerto became a hit, and, as if in a Hollywood movie, Auer apologized and began teaching the piece to his students. (What an ending!)

The name of Jascha Heifetz is linked, through countless performances and a number of fine recordings, with both these concertos, and I have no wish to put down his virtuoso treatments. It must be said, however, that Kyung-Wha Chung's performances are in a

class by themselves. Her approach to the Sibelius Concerto is a breathtaking blend of fleetness and profundity as she probes, with marvelous collaboration by Mr. Previn and his forces, for fresh meanings beneath this work's smooth melodic surfaces. During the second movement, in particular, she achieves a kind of serenity that mere skill could never evoke. In the Tchaikovsky concerto Miss Chung never forces her tone nor overstates a passage, but never skimps on drama either. In the closing pages, with the orchestra reveling in those alluring Italianate orchestral rhythms, she is singularly glorious, the sound of her violin emerging from the ensemble like the full-throated song of a bird. The Dolbyized sound does excellent justice to these performances, and there are unusually complete musical analyses of both works in the liner notes by Neville Marriner. *P.K.*

TCHAIKOVSKY: *Symphony No. 1, in G Minor, Op. 13 ("Winter Dreams").* Boston Symphony Orchestra, Michael Tilson Thomas

Christian Steiner



KYUNG WHA CHUNG
Breathtaking fleetness and profundity

cond. DEUTSCHE GRAMMOPHON © 3300 107 \$6.98.

Performance: Mostly very good
Recording: Gorgeous
Playing Time: 44'

I have little to add to my earlier review of the disc issue of this Tchaikovsky recording by Michael Tilson Thomas. I regard the First Symphony as a charmer of a piece by the young Tchaikovsky, even though the end movements are a bit garrulous and overloaded with notes. Save for a heavy-handed touch in the second *fugato* episode of the finale, Thomas treats the music lightly and affectionately. The recorded sound is simply gorgeous. There is some overbalancing of horns when they take stage center with the big tune of the slow movement, but except for this and for lowish volume level the cassette matches the quality of the disc remarkably well. *D.H.*

ENTERTAINMENT

BARRY ALLEN. Barry Allen (vocals), unidentified accompaniment. *See the World; A Wednesday in Your Garden; I Need Someone*

(The Painter); Darlin' Be Home Soon; Never Comin' Home; Lifetime; Prophecy; and four others. UNI © 3104 \$6.98, © 73104 \$6.98.

Performance: Anonymous
Recording: Fair
Playing Time: 42'35"

Duane Allman has said that any group that can strike three chords together can get recorded these days. I bring that up not because I regard Barry Allen and his backers as incapable of striking four or more chords together, but because there are a lot of albums that sound like a lot of other albums, and this is one of them. Apparently, the record companies, not having the vaguest idea what might sell, assume the thing to do is to keep hammering away at the same tried and true formula. Allen's voice has possibilities, but these songs don't allow those possibilities to come to much. On a better than average song, John Sebastian's *Darlin' Be Home Soon*, Allen takes a mawkish approach. The arrangements are anonymous rock of the sort you've heard often. *Goin' Home* is by far the most successful cut, involving a song of some promise, but even it fails to set Allen apart from countless others. *N.C.*

THE FRIENDS OF DISTINCTION: *Friends & People.* The Friends of Distinction (vocals); unidentified accompaniment. *People; Faces on the Bus; I Can't Get You out of My Mind; Down I Go; Dying to Live; Let Me Be;* and four others. RCA © PK 1698 \$6.95, © P8S 1698 \$6.95.

Performance: Fluffy
Recording: Excellent
Playing Time: 48'40"

The Friends of Distinction continue to sound as though some television variety show producer and a computer created their sound—which is approximately the same as that of every other act on a typical TV variety show. No matter the impact of a song, they undercut it with their bippity-boppity style—*Faces on the Bus*, for example—and always, in the end, it might as well be Merv Griffin singing Bacharach. If there's one thing I don't need just now, it's another glossy version of *People*, but (as Dick Martin might say) that's the way the fox trots. *N.C.*

THE GREASE BAND. The Grease Band (vocals and instrumentals). *My Baby Left Me; Mistake No Doubt; Let It Be Gone; Willie and the Pig; Laugh at the Judge; All I Wanna Do;* and four others. SHELTER © 4XW 8904 \$6.98.

Performance: Very good
Recording: Good
Playing Time: 44'53"

This recording captures the essence of an underplayed, gloves-on kind of rock that should have broad appeal these days because it emphasizes the song instead of the group's personality. The Grease Band seems to slip every which way to serve the song, yet the group is able to put its own trademark on each piece of work. The old rocker *My Baby Left Me* and the ballad *Mistake No Doubt* are as different as night and day or Laurel and Hardy, and the band gives each a good treatment. Generally the band's identity is established with acoustic guitars, some not-so-fancy slide work, a tight rhythm section, and some of the most tasteful and best disciplined keyboard work you'll hear in this era of rampaging pianos. The songs could be a bit better—the old *Jessie James* nar-

STEREO REVIEW

rative and the spiritual *To the Lord* are weak indeed, compared with many other old songs they could have used between the originals. *Mistake*, *Laugh at the Judge*, and *Down Home Mama* are the strongest songs; most of the others pall after a bit. The arrangements are almost always excellent, however, and I rate this a good tight band. N. C.

HOT TUNA: *Electric Hot Tuna Recorded Live*. Hot Tuna (Jack Casady, bass; Jorma Kaukonen, guitar and vocals; Papa John Creach, violin; Sammy Piazza, drums; Will Scarlett, harmonica). *John's Other*; *Candy Man*; *Been So Long*; *Want You to Know*; *Keep Your Lamps Trimmed*; *Never Happen No More*; *Come Back Baby*. RCA © PK1762 \$6.95.

Performance: Not so hot
Recording: Very good
Playing Time: 44' 25"

Talk about prosaic titles! But, more than that, talk about beastly luck! Hot Tuna got its acoustic album out when most of the audience still liked electric albums, and now gets its electric album out when much of the audience wants acoustic albums. Hot Tuna, of course, is the group-within-a-group formed by Jefferson Airplane members Jorma Kaukonen and Jack Casady. One assumes such groups emerge so the participants can delve further into their peculiar interests than the structure of the mother group permits. This recording demonstrates that mother groups know best sometimes, particularly in the matter of how Jorma Kaukonen should use his electric guitar. It also demonstrates that Jorma isn't much of a singer compared with Marty Balin. And it reminds me how glad I am that the Airplane never took up the electric violin, for Papa John Creach's fiddling on this tape sounds altogether too much like a nerve cell being sawed in two.

It isn't that Jorma doesn't play well, but that the band, as electrified, lacks contrast. There's no Grace Slick voice, no piano, no acoustic guitar to play off against the sound of the electric guitar—just some electric instruments and a harmonica that all sound a little like the electric guitar. Shove a batch of tuneless, mediocre songs into this unbalanced framework and you have a disappointing album. N. C.

THE ROAD HOME: *Peaceful Children*. The Road Home (vocals and instrumentals). *Peaceful Children*; *Somebody Like You*; *Something Special*; *Comin' Back Down*; *Love's Gonna Get You*; *Anyway*; and five others. DUNHILL © M 550104 \$6.95, © M 850104 \$6.95.

Performance: Panthers and pussycats
Recording: Good
Playing Time: 34' 10"

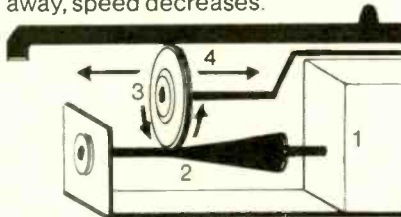
The Road Home, a group that sometimes sounds as militant as the Black Panthers and at other times purrs like pussycats, starts out by promising us a new world ("A new sun's risin' in the east") and invites us to "get on board," but isn't above preaching at us once the doors bang shut and the trip is underway. Although the group issues no appeal to youth more violent than to "tear down the nation with your hair" and to "spread the word" (whatever it may be), their musical sermons occasionally verge on the bitter, as in *One Tin Soldier*. It all ends up cheerfully, however, with the promise that "Hate's gonna finish last." The tone is gossamerly-bluesy-soulsy and the harmonies—even when the sentiments are sullen—are resolutely blithe. P.K.

DECEMBER 1971

The turntables with an infinite choice of speeds.

The variable control Lenco manual turntables offer an infinite selection of speed—a continuous sweep from 30 to 86 rpm. At the standard 16-2/3, 33-1/3, 45 and 78.26 rpm, there are click stops that can be precisely set or adjusted at any time.

Infinitely variable speed control from 30 to 86 rpm is accomplished by a unique motor and drive system. The 4-pole constant velocity motor (1) has conically shaped shaft (2) which contacts a rubber drive wheel (3). The speed control on the deck moves the drive wheel along the tapered shaft. The rim of the wheel makes contact with the underside of the turntable (4). As the wheel moves toward the center of the turntable, speed increases; as the wheel moves away, speed decreases.



With this, you can slow down a complex rush of notes, the better to appreciate the inner voices when you listen next at normal speeds. You can tune a recorded orchestra to match the instrument you play, and join in. Your tuning is not restricted to a paltry fraction of a note, either. You can exercise your urge to conduct, choosing whatever tempo suits you. And you can use it to extend your knowledge of the dance or language, or to accompany slide or movie shows.

And at every one of these speeds, Swiss precision takes over. For example, the Lenco L-75's sleekly polished transcription tonearm shares

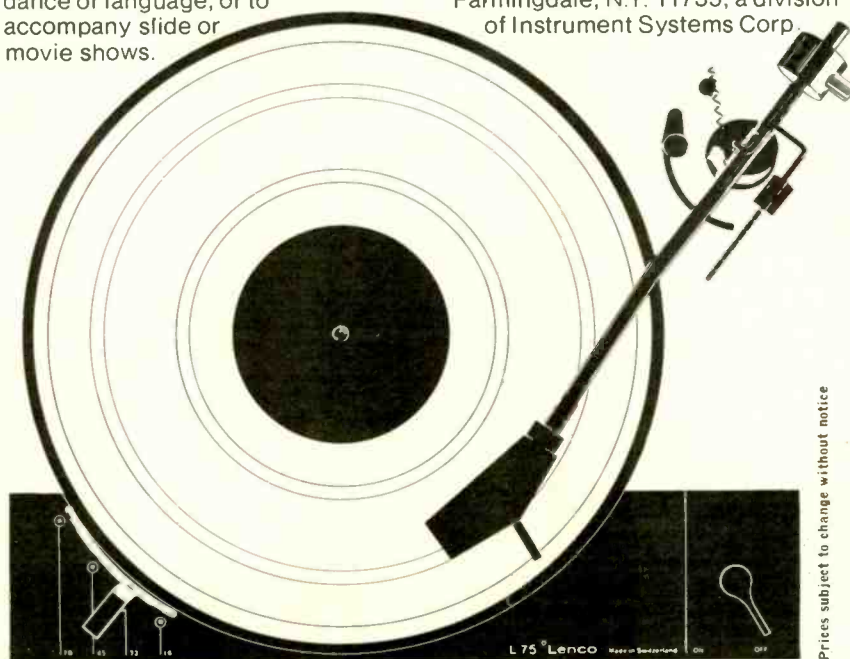


many design concepts (such as gravity-controlled anti-skating, hydraulic cueing, and precision, knife-edge bearings) with arms costing more alone than the entire L-75 arm and turntable unit. And the dynamically balanced 8.8 lb. turntable reduces rumble, wow and flutter to inaudibility.

The L-75 complete with handsome walnut base at \$99.50 offers professional quality and versatility but at



far less than studio-equipment prices. The B55 (lighter platter and an arm of almost equal specification) is only \$85.00 with base. Both are available now at your Benjamin/Lenco dealer. Benjamin Electronic Sound Corp. Farmingdale, N.Y. 11735, a division of Instrument Systems Corp.

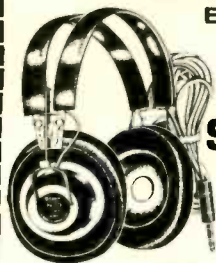


Lenco turntables from Benjamin

CIRCLE NO. 15 ON READER SERVICE CARD

Prices subject to change without notice

**ANOTHER SUPERB
VALUE
from Olson
Electronics**



ONLY
\$25

**DELUXE
STEREOPHONES**

A new sound sensation is yours to enjoy with this extra lightweight headphone that offers superb wide range response, fatigue-free listening, soft air-filled cushions and adjustable headband. Works fine with any music system. 20' cord has standard 1/4" stereo plug attached.

Olson Electronics, Dept. FX
260 S. Forge St., Akron, Ohio 44308

- I enclose \$25 plus \$1 for postage and handling. Send me the PH-173 Stereophones.
 Send me the next seven issues of the Olson Catalog, without cost or obligation. **FREE**

Name _____
Address _____
City _____
State _____ Zip _____

CIRCLE NO. 54 ON READER SERVICE CARD

**NEW FINCO
Greenline**

G-922



300 ohm system,
VHF-UHF-FM,
300 ohm input and
four 300 ohm outputs
using twin lead wire.

List \$43.95

**HOME TV/FM
MULTIPLE SET
SOLID-STATE
AMPLIFIERS**

*Amplifies TV/FM signals
for distribution to
every set in the house!*

- Five different models for every reception requirement.
- For Color... Black & White... FM/FM Stereo.

WRITE DEPT. SR-12
FOR CATALOG NO. 20-594.

THE FINNEY COMPANY
34 W. Interstate Street
Bedford, Ohio 44146

CIRCLE NO. 33 ON READER SERVICE CARD

1971 • STEREO REVIEW

• **AUDIO BASICS (Hodges)**

Evaluating Speakers, Jan. 32
Noise Tests, Feb. 48
Loudspeaker Bass Response, Mar. 30
The Speaker and the Room, Apr. 42
Standing Waves, May 28
Amplifier Power, Jun. 26
Inside the Amplifier, Jul. 22
Amplifier Distortion, Aug. 24
Power Struggle, Sep. 26
Assembling the Music System, Oct. 26
Typical Preamplifier Specifications, Nov. 26
Phono Cartridge, Dec. 30

• **TECHNICAL TALK (Hirsch)**

Are Components Getting Better?, Jan. 37
Audio Equipment Quality-Control Problems, Feb. 31
Tone Controls, Mar. 33
Loudness Compensation, Apr. 25
Amplifier Filters, May 31
Damping Factor and Bandwidth, Jun. 31
Testing Portable FM Radios, Jul. 25
Testing Outdoor Speakers, Aug. 27
Testing Cassette Tapes, Sep. 31
Loudspeaker Efficiency, Oct. 33
MOSFET's, FET's, and IC's, Nov. 31
Noise-Reduction Systems, Dec. 33

• **TAPE HORIZONS (Stark)**

People Play Games, Jan. 108
Hiss: the Villain, Feb. 132
Keeping an Ear on Noise, Mar. 126
How Hiss Happens, Apr. 106
Out of My Mail Bag, May 114
The Club Circuit, Jun. 116
The Importance of Demagnetizing, Jul. 122
What Happened to the Highs?, Aug. 108
Equalization, Low and High, Sep. 128
Equalization: Record and Playback, Oct. 146
Tape Wear and Care, Nov. 156
Tape vs. Disc, Dec. 148

• **EQUIPMENT REVIEWS
(Hirsch-Houck Laboratories)**

Amplifiers and Preamplifiers
Crown IC-150 preamplifier, Nov. 42
Harman-Kardon Citation Eleven preamplifier, Mar. 44
Heath AA-29 amplifier kit, Jul. 34
Marantz Model 1200 amplifier, Aug. 28

Cassette Decks
Advent Model 201 cassette deck, Oct. 40
Cassette Decks Revisited (Harman-Kardon CAD-5 & Teac A-24), Apr. 34
Sony TC-122, TC-127, and TC-160 cassette decks, Nov. 44

Cassette Tapes—see Feature Stories

Noise-Reduction Units

Advent Model 100, Dec. 65
Advocate 101, Mar. 36
Concord DBA 10, Dec. 66
DBX Model 117, Dec. 68
Kenwood KF 6011, Dec. 66
Kenwood KF 8011, Dec. 68
Teac AN 50, Dec. 66
Teac AN 180, Dec. 67

Quadrasonic Equipment

Fisher 701 Four-Channel AM/FM receiver, Jul. 26
Lafayette LA-44 Four-Channel Adapter, Dec. 34

Receivers

Altec Lansing 714A AM/stereo FM, Jan. 40
Bogen BR360 AM/stereo FM, Feb. 40
Concord Mark 20 AM/stereo FM, Jun. 46
Heath AR-1500 AM/stereo FM, Nov. 32
Lafayette LR-1500TA AM/stereo FM, Mar. 46
Pioneer SX-2500 AM/stereo FM, Oct. 36
Scott 387 AM/stereo FM, Aug. 32
Sherwood S-7300 AM/stereo FM, Dec. 44
Sony STR-6055 and STR-6065 AM/stereo FM, May 34

Speaker Systems

Altec 829A outdoor, Aug. 47
Bose 501, Oct. 34
Dynaco A-50, May 32
Electro-Voice Musicaster 11A outdoor, Aug. 48

Electro-Voice Sonocaster I outdoor, Aug. 46
EPI Model 201, Feb. 42
Frazier F8-1K outdoor, Aug. 46
IMF Studio, Dec. 42
Infinity 2000A, Nov. 40
Jensen HF-100A outdoor, Aug. 47
Kenwood KL-5060, Apr. 28
Maximus RSM outdoor, Aug. 45
Poly-Planar outdoor, Aug. 45
Sony SS-9500, Jan. 44
3M A-2000, Jul. 38
University CLC outdoor, Aug. 46
Utah MOD-8 outdoor, Aug. 47
Wharfedale W25, Mar. 40

Tape Recorders and Decks

Ampex AX-300 recorder, Sep. 36
Magnum 2001 deck, Jan. 46
Tandberg 3000X deck, Apr. 30
Tandberg 4000X recorder, Oct. 44
Teac A 7010 deck, Feb. 32

Turntables and Record Players

BSR 610/X automatic turntable, Apr. 26
Dual 1215 automatic turntable, Aug. 30
Empire Troubadour record player, Jan. 38
Garrard S1-72B automatic turntable, Feb. 38
Garrard Zero 100 automatic turntable, Jul. 32
Miracord 770H automatic turntable, Jun. 48
Panasonic SP-10 turntable, Sep. 34
Rabeo ST-4 semi-automatic turntable, May 40

Other Equipment

Acoustic Research stereo FM tuner, Jun. 32
ADC 10E Mk IV cartridge, Dec. 40
Audiotex Test Tapes Series, Sep. 32
Microstatic High-Frequency Adapter, Jun. 34

• **EDITORIALLY SPEAKING (Anderson)**

Slicing It Thin, Jan. 4
The Classical Audience, Feb. 4
Keeping the Future in Its Place, Mar. 4
The New Troubadours, Apr. 4
Clay-Foot Fetishists, May 4
Nostalgia: Going Home to Eden, Jun. 4
Global Villeinage, Jul. 4
The Vespa Quadrasonic Speaker, Aug. 4
The Ethics of Taping, Sep. 4
Four Types of Compatibility, Oct. 4
On Voting with the Feet, Nov. 4
Kennedy Center *Schadenfreude*, Dec. 4

• **GOING ON RECORD (Goodfriend)**

How People Buy Records, Jan. 51
A Humorous Note, Mar. 52
Some Size-Twelve Footnotes (Beethoven), Apr. 88
Volunteers, May 44
I Remember, I Remember, Jun. 28
Limited Talents, Jul. 44
Barbarians and Music, Aug. 38
The Chicken or the Egg?, Oct. 48
Music—with Pictures, Nov. 52

• **BASIC REPERTOIRE (Bookspan)**

Britten's *Young Person's Guide*, Mar. 57
Chopin's Piano Concerto No. 1, Jun. 55
Mozart's *"Eine kleine Nachtmusik,"* Oct. 57
Prokofiev's Third Piano Concerto, Apr. 44
Prokofiev's Violin Concerto No. 2, Aug. 43
Ravel's Piano Concerto in G, Sep. 47
Restatement of Principles, Jul. 53
Strauss' *Death and Transfiguration*, Dec. 53
Strauss' *Don Quixote*, Jan. 55
Stravinsky's *L'Histoire du soldat*, Nov. 57
Tchaikovsky's *1812 Overture*, May 53

• **BEYOND THE BASIC REPERTOIRE (Clark)**

Beethoven's 32 Variations in C Minor, Jan. 92
Hindemith's *Der Schwanendreher*, Jul. 99
Schubert's Mass in G, Mar. 106
Stravinsky's Cantata, Nov. 126

• **BEST OF THE MONTH**

Bach: Concertos for Harpsichord and Orchestra, Oct. 79
Bach: *Musical Offering*, Oct. 80

EDITORIAL INDEX • 1971

Bartók: *Mikrokosmos, Book VI: "Out of Doors"*
Suite: Sonata, May 74
 Beethoven: *Egmont*, Mar. 79
 Beethoven: Piano Trios (complete), Feb. 90
 Berlioz: Requiem, Feb. 88
 Berwald: Sior Septet, Jul. 75
 Boulez: *Pli Selon Pli*, Jun. 78
 Carter: String Quartets, Feb. 89
 Dvořák: Piano Trios, Aug. 65
 Dvořák: Quintet in G Major, Jul. 75
 Haydn: Symphonies Nos. 97 and 98, Dec. 78
 Janáček: *Taras Bulba; Sinfonietta*, Apr. 68
 Kreutzer: Grand Septet, Jul. 75
 Loewe: Songs and Ballads, Apr. 67
 Mahler: Symphony No. 9, Jul. 76
 Massenet: *Manon*, Jun. 77
 Meyerbeer: *Les Huguenots*, Jan. 74
 Mozart: *The Magic Flute*, May 73
 Paganini: Caprices, Aug. 63
 Rachmaninoff: Piano Concerto No. 2, Nov. 97
 Schumann: Complete Piano Works, Vol. 1, Sep. 70
 Schütz: *Resurrection Story*, Nov. 96
 Spohr: Quintet in C Minor, Jul. 75
 Tavener: *The Whale*, Mar. 80
 Vaughan Williams: Symphony No. 4, Sep. 69
 Webern: Music for String Quartet, Dec. 77
 Alicia De Larrocha: Grieg/Mendelssohn Recital;
 Spanish Piano Music Recital, Jan. 76

Aznavour, Charles: *A Man's Life*, Mar. 82
 Beach Boys: *Surf's Up*, Dec. 79
 Bob and Ray: *The Two and Only*, May 75
 Colombier, Michel: *Wings*, Aug. 66
 Davis, Miles: *Jack Johnson*, Jul. 78
 Dylan, Bob: *New Morning*, Mar. 81
 Herrmann, Bernard: *Music from Great film Classics*, Oct. 81
 Horne, Lena: *Nature's Baby*, Sep. 71
 John, Elton, Feb. 91
 Jones, Jack: *Sings Michel Legrand*, Jul. 77
 Miles, Barry, May 76
 Mitchell, Joni: *Blue*, Oct. 82
 Pickett, Wilson: *In Philadelphia*, Jan. 77
 Sebastian, John: *Cheapo-Cheapo Productions Presents*, Sep. 72
 70, *Girls*, 70, Nov. 98
 Sinatra, Frank: *Sinatra and Company*, Aug. 65
 Stevens, Cat: *Tea for the Tillerman*, Apr. 69
 Streisand, Barbra: *Soney End*, Jun. 79
 Tomlin, Lily: *This is a Recording*, Jun. 80
 Turner, Ike and Tina: *What You Hear Is What You Get*, Nov. 97
 Voices of East Harlem: *Right On Be Free*, Jan. 77
 Webb, Jimmy L.: *Words and Music*, Feb. 90
 Who: *Who's Next?*, Dec. 80

• FEATURE STORIES

Acoustic Research Contemporary Music Project (Trimble), May 94
 American Composers Series: Varèse, Jun. 56
 Andy Hardy Syndrome (Freed), Feb. 59
 Armstrong, Louis: Two New Memorial Albums (Goodfriend), Nov. 134
 Bach, J.S., Music of (Goodfriend), Dec. 54
 Bagley, Ben—Mr. Bagley's Musical Time Machine (Reed), Jun. 102
 Ballet Music, On the Subject of (Croce), Oct. 102
 Bel Canto Banquet (Stiles), Apr. 46
 Boston Symphony Meets DGG (Hall), Feb. 100
 Can the Patient Be Saved? (Goodfriend), Feb. 75
 Cassette Malfunction, What Causes (Hodges), Sep. 63
 Cassette Packaging (Kipnis), Sep. 61
 Cassette Tapes, Laboratory Tests of Forty (Hirsch), Sep. 58
 Check, Please (Classical Recording Costs), Feb. 78
 Classical Ballgame, A Whole New (Salzman), Mar. 71
 Classical Music Recording Crisis, Feb. 56
 Concert-Hall Realism Rag (Stark), Nov. 75
 Dart, Thurston (1922-1971) (Kipnis), Sep. 90
 Discovering Classical Music (Povey), Jul. 48
 Distribution: Clogged Pipeline (Goodfriend), Feb. 68
 Fading Signal (Edwards), Feb. 72
 Fiddlers' Convention, 35th Annual (Landau), Jan. 98
 Firesign Theater Strikes Thrice, Jul. 114
 FM Classical Programming—see Fading Signal
 FM Radios—See Portable
 Four-Channel Follies, Act II (Klein), Oct. 58
 Frequency-Response Tests of Listening Rooms (Allison), Aug. 55
 Hofmann, Josef: Camp Wigwam Concert (Simon), Dec. 100
 Hofmann, Josef: the 1937 Golden Jubilee Concert (Kipnis), Dec. 101

Installation of the Month: Desk-o-phil Stereo (Hodges), May 65; Fingertip Stereo (Hodges), Aug. 49; Roll-Top Stereo (Weiss), Sep. 68; Tilt-Top Stereo (Weiss), Nov. 81
 "Jesus Christ—Superstar" (Belz), Feb. 118
 Joplin, Scott—see "Ragtime of the Higher Class"
 Kennedy Center, Opening of (Goodfriend), Dec. 72
 Kershaw, Doug—Bayou Paganini (Jahn), Sep. 66
 Killebrew, Gwendolyn (Connolly), Dec. 70
 Kipnis, Alexander (Hume), Jan. 70
 Kristofferson, Kris (Marks), Apr. 54
 Liberace, Walter (Windeler), May 66
 Loudspeakers, Power Ratings of (Stevens), Aug. 60
 Mehta, Zubin (Windeler), Apr. 52
 Microphones—see Tape Recorder-Microphone Equation
 Military Music—see Rum-Tum-Tum
 Mr. Stark's Dream Machine (Stark), Mar. 59
 Multi-Channel Listening (Hodges), Apr. 62
 Music in the Air (Kresh), Oct. 70
 Musical Comedy, the Future of (Kresh), Jul. 73
 Newman, Randy (Windeler), Oct. 74
 Noise-Reduction Units (Hirsch), Dec. 63
 "No, No, Nanette" (Kresh), May 104
 Outdoor Speakers—Tests of (Hirsch), Aug. 44
 Peter Rabbit, the Royal Ballet's (Kresh), Sep. 118
 Phonograph—see "Wonder of the Age"
 Pianists on Victrola—Hofmann, I. Hévinne, Rachmaninoff (Kipnis), Mar. 102
 Portable FM Radios, Buyers' Guide to (Hirsch), Jul. 56
 Previn, André—"Who Wants Me in May 1978?" (Windeler), Sep. 48
 "Product," The (Freed), Feb. 63
 Quadrasonic—see Four-Channel Follies; Multi-Channel Listening
 Quadrasonic Hardware (Hirsch), Oct. 64
 Quadrasonic Software (Kresh), Oct. 66
 "Ragtime of the Higher Class" (Hitchcock), Apr. 84
 Ramuz, C.F., Stravinsky's Sometime Librettist (Kuttner), Nov. 90
 RCA "Dynaflex" Record—see Skinny Disc
 Receivers Today (Hirsch), Jan. 66
 Record Companies, Words from (Frey, McEwen, Solomon, Sterne, Bourdain, Mampe, McClure, Mowrey, Fischer, Munves, Meggs, Frost), Feb. 80
 Record Defects (Eargle), Jun. 69
 Record of the Year Awards 1970, Feb. 85
 Record Player, Understand Your (Hirsch), May 59
 Rock, A Bad Year for (Coppage), May 54
 Rodrigues on Video (cartoons), Mar. 68
 Rolling Stones: A Promising Group (Heckman), Aug. 98
 Ronstadt, Linda (Windeler), Nov. 82
 Rubinstein, Anton—Night Rubinstein Played Bratislava (Rosenthal), Aug. 50
 Rum-Tum-Tum of the Military Drum (Bakshian), Jul. 66
 Schubert, Fischer-Dieskau, and Moore (Jelinek), Jan. 90
 Schwann Catalog, In and Out of (Freed), Oct. 76
 Seals and Crofts (Landau), Jan. 62
 Simon, Joanna (Livingstone), Oct. 68
 Sinatra, Frank—A Great Vocal Artist Retires (Pleasant), Nov. 59
 Skinny Disc, the New (Klein), Apr. 40
 Smith, Bessie (Pleasant), Apr. 100
 Solti, Georg, Mahler with the Chicago Symphony (Jacobson), Feb. 108
 Sondheim, Stephen—see Musical Comedy
 Sondheim's *Follies* (Croce), Jul. 110
 Speakers—see Outdoor Speakers; Loudspeakers
 Spoken Word Recordings—see What to Do When the Music Stops
 Stravinsky, Igor (1882-1971) (Salzman), Nov. 84
 Tape Recorder—see Mr. Stark's Dream Machine
 Tape Recorder-Microphone Equation, Solving the (Schulein), Mar. 74
 Thomas, Jess (Stiles), Nov. 94
 Tippett's *Midsummer Marriage* (Jacobson), Aug. 84
 Tomlin, Lily (Kresh), Jun. 75
 Travers, Mary, Domestication of (Shevey), Jul. 62
 Varèse, Edgard (Salzman), Jun. 56
 Varèse, Idol of My Youth (Zappa), Jun. 62
 Video—see Rodrigues on Video
 Video Cartridge Player, See One in Your Future? (Field), Mar. 65
 Vocalism, Shorter Vocabulary of (Pleasant), May 68
 Welk, Lawrence (Windeler), Aug. 58
 What to Do When the Music Stops (Kresh), Jan. 57
 Williams, Hank Jr.—His Father's Son (Pleasant), Sep. 40
 "Wonder of the Age: Mr. Edison's Phonograph" (Kresh), Oct. 132
 Young Classical Musicians (Clark), May 48

A BREAKTHROUGH INTO NEW DIMENSIONS — VANGUARD SQ QUADRASONIC SOUND

These Vanguard discs when played on an SQ Quadrasonic system will reveal an incredible breakthrough to full musical realism. Their 4-channel recording and separation provide the full clarity and true ambience of total "Surround Stereo."

These recordings are also suitable for use with any conventional 2-channel stereo playback system.

Popular

JOAN BAEZ: BLESSED ARE . . . VSQ 40,001/2
 BUFFY SAINTE-MARIE: MOONSHOT VSQ 40,003
 COUNTRY JOE AND THE FISH FROM HAIGHT ASHBURY TO WOODSTOCK VSQ 40,004/5
 LARRY CORVELL AT THE VILLAGE GATE VSQ 40,006

Classical

TCHAIKOVSKY: SYMPHONY NO. 4 (Leopold Stokowski conducting the American Symphony Orchestra) VSQ 30,001

HANDEL: HIGHLIGHTS FROM MESSIAH (Great soloists, Johannes Somary conducting the Amor Artis Chorale and English Chamber Orchestra) VSQ 30,002

BERLIOZ: REQUIEM, Op. 5 (Maurice Abravanel conducting Choruses, Soloist, Utah Symphony Orchestra) VSQ 30,006/7

MAHLER: SYMPHONY No. 3 (Maurice Abravanel conducting the Utah Symphony Orchestra, Soloist Choruses) VSQ 30,008/9

MOZART: DIVERTIMENTO IN B FLAT, K. 287 (David Blum and the English Chamber Orchestra) VSQ 30,010

TCHAIKOVSKY, SERENADE, Op. 48—PROKOFIEV: CLASSICAL SYMPHONY—ARENSKY: VARIATIONS ON A THEME OF TCHAIKOVSKY (Johannes Somary conducting the English Chamber Orchestra) VSQ 30,011

INTRODUCING THE GREAT YOUNG AMERICAN TRUMPET VIRTUOSO—MARTIN BERINBAUM—Haydn and Hummel concertos, Torelli, Albinoni VSQ 30,012

In a class by itself

P.D.O. BACH: HALF-ACT OPERA, "THE STONED GUEST" VSQ 40,007

Suggested list price — \$1.00 higher than the normal standard stereo prices in each category

Sampler disc, \$2.98—Contents VSQ 30,000

Classical — Hallelujah Chorus from Messiah, (Handel) — Allegro from Divertimento In F (Mozart) — Tuba Mirum from Requiem (Berlioz) Finale from Symphony No. 4 (Tchaikovsky)

Popular — Flight of the Bumblebee (J. J. Parry on the Moog) — Sound Effect, the Steam Engine — Songs, The Angel with Buffy Sainte-Marie, The Circle Game with Ian and Sylvia, Crystal Blues with Country Joe and the Fish.

VANGUARD RECORDING SOCIETY INC.
71 West 23rd Street, New York, N.Y. 10010

CIRCLE NO. 84 ON READER SERVICE CARD

Cooperate With The
 Zip Code Program
 of The Post Office
 Department.
 Use Zip Code
 In All Addresses

STEREO REVIEW MARKET PLACE

NON-DISPLAY CLASSIFIED: COMMERCIAL RATE: For firms or individuals offering commercial products or services, \$1.25 per word (including name and address). Minimum order \$12.50. Payment must accompany copy except when ads are placed by accredited advertising agencies. Frequency discount: 5% for 6 months; 10% for 12 months paid in advance.
READER RATE: For individuals with a personal item to buy or sell, 80¢ per word (including name and address). No minimum! Payment must accompany copy.
DISPLAY CLASSIFIED: One inch by one column, \$215.00. Two inches by one column, \$430.00. Column width 2 1/4". Advertiser to supply film positives.
GENERAL INFORMATION: First word in all ads set in bold caps at no extra charge. All copy subject to publisher's approval. All advertisers using Post Office Boxes in their addresses MUST supply publisher with permanent address and telephone number before ad can be run. Closing Date: 1st of the 2nd month preceding cover date (for example, March issue closes January 1st). Send order and remittance to: Hal Cymes, STEREO REVIEW, One Park Avenue, New York, New York 10016.

EQUIPMENT

WRITE for quotation on any HI-FI components: Sound Reproduction Inc., 460 Central Avenue, East Orange, N.J. 07018, 201-673-0600.

TAPE recorders. Hi-Fi components. Sleep learning Equipment tapes. Unusual values. Free catalog. Dressner, 1523R Jericho Turnpike, New Hyde Park, N.Y. 11040.

New low prices on all stereo components and tape recorders. Write for our quote. Stereo Corp. of America, 2122 Utica Avenue, Brooklyn, New York 11234.

FREE LP AND SHIPPING to most states. We will not be undersold. Airmail Quotes. Hi-Fi Discount Specialists, Box 2576 PVS, Hialeah, Florida 33012.

ELECTRONIC TUBES, Semiconductors, Equipment and Parts. Lab matched tubes. Finest quality. Serving TV/Hi-Fi Servicemen, Engineers, and Industry for 20 Years. Advise your needs. Write for Catalog. Barry Electronics, 512 Broadway, New York, N.Y. 10012. (212) 925-7000.

No fair trade laws in D.C. Write for discount prices on your choice of components. District Sound, Inc. 2312 R.I. Ave, N.E., Wash., D.C. 20018. (202) 832-1900.

Hi Fi Furniture? See Toujay Designs at SEE-70's Hi Fidelity Exhibit, 443 Park Avenue South, N.Y.C. 10016. Tues. to Fri. 10-6, Sat. 10-4. Full line brochure 25¢.

REVOX and TANDBERG Recorders, **PIONEER, SANSUI,** and **SONY** Receivers and Amplifiers. Specify model. Box 18026, Seattle, Washington 98118.

KLIPSCH, TANNAY, MARANTZ, RABCO, THORENS—No Discounting—Superior Sound, 1801 Brewerton Rd., Syracuse, N.Y. 13211.

DIAMOND NEEDLES and Stereo Cartridges at Discount prices for Shure, Pickering, Stanton, Empire, Grado and ADC. Send for free catalog. All merchandise brand new and factory sealed. **LYLE CARTRIDGES,** Dept S, P.O. Box 69, Kensington Station, Brooklyn, New York 11218.

SPEAKER SYSTEMS wholesaled to public. **BOAT,** Box 18123, Seattle, Washington 98118.

NATIONALLY advertised Audio Equipment. Cost Plus 10% Stereo World, 3250 Duke Street, Alexandria, Virginia 22314.

STEREO HI-FI Sale. Nationally advertised amplifiers, tuners, speakers, tape decks, etc. Discounting to 40% since 1959. Arkay National, 1028-01 Commonwealth, Boston, Mass. 02215.

LOW, LOW, prices, on audio equipment. All factory fresh, 1st quality items. Trained personnel at your disposal for audio consultation. For free catalogs or information write to: Mr. A. Dept. AMS at SMG Distributors, Inc., 46-35 54th Road, Maspeth, New York 11378, or call (212) 786-3337.

MCINTOSH 2505 versus Marantz 32, Citation Twelve, Dynaco Stereo 120. The winner? Send \$1 today for comparative test, refundable with \$7.50 subscription. Hi-Fi Newsletter, Box 593, Hialeah, Fla. 33011.

DISCOUNT PRICES on Stereo Components and Systems. For lowest cost, fastest service, write for our quote and order form. West Coast customers: Save on shipping costs and time. Redwood Stereo Co., P.O. Box 2794, San Rafael, Calif. 94902. (415) 456-3050.

500 WATT Stereo color translator! Translates music to lights! Plans: \$2.00; KIts: \$29.95; Wired: \$44.95. Tasksits, P.O. Box 14225, Dayton, Ohio 45414.

HEGEMAN "Omni-Directional" Speakers \$100. Creighton Audio Labs, Haven Pl., Linden, N.J. 07036.

SPEAKER CONTROL-SWB-2 Multi-Play™ speaker amplifier selector switch-selects either of two stereo input amplifiers and one to three pairs of speakers—protective circuitry permits use of most amplifiers, \$11.95 plus \$1.25 postage. Rousound/FMP, Inc., Dept. S, P.O. Box 204, Stratham, N.H. 03885.

LOWEST quotes Dynaco kits & wired, AR lines. Hi-Fi, Roslyn, Pa. 19001.

FOR SALE

FREE Electronics Parts Flyer. Large catalog \$1.00 deposit. Bigelow Electronics, Bluffton, Ohio 45817.

SENCORE, B & K Test Equipment Unbelievable Prices. Free Catalog and Price Sheet. Fordham Radio, 265 East 149th Street, Bronx, N.Y. 10451.

ELECTRONIC COMPONENTS—Distributor prices, Free Catalogue, Box 2581, El Cajon, California 92021.

NEW SEMICONDUCTOR LIGHT EMITTING DIODES. Bright red lights replace light bulbs. Typical life 100 years. Operate at 1.65 volts, 60 milliamps. Order 2 for \$2.98 NOW. Data sheet and instructions included. Monsanto Company, Hobby Section, 10131 Bubb Road, Cupertino, California 95014.

CONSTRUCTION PLANS: Laser ... \$2.00. Investigation aids—2-FM microphone transmitters ... \$1.00. FM Telephone transmitter ... \$2.00. Sound telescope ... \$2.00. Space monitor-missile tracker ... \$2.00. Free equipment and kit catalog. Howard, 20174 Ward, Detroit, Michigan 48235.

JAPAN HONG KONG Directory. World products information \$1.00 today. Sekai Shogyo Annai, Hillyard, Wash. 99207.

BURGLAR ALARM SYSTEMS. We manufacture intruder-fire detection systems, radar and perimeter types. Accessories available. Free Literature. Inquiries for dealership and wholesale prices must be on letterhead. U.S. and Canada only. Microtech Associates, Inc., Box 10147, St. Petersburg, Florida 33733.

1972 ELECTRONICS Catalog 25¢. McCord Electronics, Box 412, Sylvania, Ohio 43650.

SCHEMATICS: Microphone line amplifier, mixer, burglar alarms. Free information. Millers, 1896 Maywood, Cleveland, Ohio 44121.

AURORA LIGHT PAINTING. Actual 24X30" painting highlighted with miniature lights that will flicker, flash, and dart with your music. Connects to speaker. Hangs on wall. "Christmas" Tree or Golden Gate Bridge paintings. On black velvet \$109.50. On grained wood \$89.50. Free brochures. Ripley Projects, 245 North Point, Suite 402, San Francisco 94133.

OPERA TAPES—comprehensive selection. Free Catalog, Box 74, Peck Slip Station, N.Y.C. 10038.

67KC SCA adapter. Solid state, wired, tested. Operates on 9 to 30 volts. Use between FM tuner and audio amplifier \$15.50. Postpaid USA with instructions, station list. Mark and Alan, P.O. Box 172, Chesterland, Ohio 44026.

COLOR ORGANS and Controls, exclusive design. Free bulletin. **MECHANI-LAB,** Dept. S, Box 284, South Euclid, Ohio 44121.

ADVENT complete product line in stock. Individually checked for proper working order. Available for immediate shipment. Regular walnut speaker—\$116; utility speaker—\$102; smaller speaker—\$69; 100 Dolby noise reduction unit—\$250; 101 Dolby noise reduction unit—\$125; frequency balance control—\$225; new 201 cassette deck with built-in Dolby—\$280. Literature and honest engineering sent on request. **Opus One,** 400 Smithfield, Pittsburgh 15222. (412) 281-3969.

OLD Radio Programs Catalog 50¢. Randall Dunford, 10126 Ferndale, Dallas, Texas 75238.

TAPE AND RECORDERS

RENT stereo tapes \$1.50 week postpaid—NEW catalog 25¢. Tape Library, Box 8126, Washington, D.C. 20024.

RADIO YESTERYEAR! Biggest and best in the industry we created. Over 10,000 of those great old-time radio shows. ANY program you remember, drama, band, serials, comedy, etc. Highest fidelity possible with Ampex duplicators. Send for our Free catalog. **RADIO YESTERYEAR,** Box H, Dept. B, Croton-on-Hudson, N.Y. 10520. Member Better Business Bureau.

OLD Time radio programs—all your old favorites. 50¢ for catalog. Robert Mussehl, R. 1, Brooklyn, Wisc. 53521.

SCOTCH RECORDING TAPE, lowest prices. **TAPE CENTER,** Box 4305, Washington, D.C. 20012.

STEREO TAPE RENTAL for particular people. Free catalog. Gold Coast Tape Library, Box 2262, Palm Village Station, Hialeah, Fla. 33012.

OLD Radio Programs Catalog \$1.00 (refundable). The Radio Vault, Box 9032, Wyoming, Michigan 49509.

BARGAIN MUSIC, Tape, Equipment Catalog, 25¢ Saxitone, 1776 Columbia Road, Washington, D.C. 20009.

RADIO SHOWS on tape. Stamp for catalog. Box 724-SR, Redmond, Wash. 98052.

RENT 4-track open reel tapes—all major labels—3,000 different—free brochure. Stereo-Parti, 55 St. James Drive, Santa Rosa, California 95401.

STEREO TAPE TRANSPORT—7" reel—2 speeds—pause control—made for famous manufacturer—50 to 15,000 Hz with rec/play and erase heads, without case. Send M.O. or check for \$19.50 to Alshemer Audio Electronics, 218 Columbia St., Utica, N.Y. 13502. \$2.50 for prepaid shipping and insurance.

BASF RECORDING TAPE ... Prerecorded Stereo Tapes, Postpaid. Steretone-Tapes, Box 657, Sterling, Illinois 61801.

OPERA tapes—historical performances of past 40 years. Unbelievable treasures and rarities. Free catalog. Ed Rosen, Box 521, Lynbrook, N.Y. 11563.

RECORDING TAPE made by top American manufacturer, guaranteed not "seconds" or "white box;" 2400' mylar, \$2.29; 1800' mylar \$1.69; 1200' acetate \$0.79. Send for information and quantity pricing. Alshemer Audio Electronics, 218 Columbia Street, Utica, New York 13502.

CONSUMERS CASSETTES and Accessories. Blank Cassettes as low as C-30 ... 40¢, C-60 ... 45¢, C-90 ... 80¢, C-120 ... \$1.05. All Cassettes licensed quality control by North American Philips. Lifetime guarantee. **WRITE FOR FREE CATALOG!** CONSUMERS ELECTRONICS CO., 103 Park Avenue, (SR-12), New York, New York 10017.

TAPE—BASF, TDK, Sony, Memorex. C-60's from 52¢. AudioCessories, 320 West Edmonston, Rockville, Maryland 20852.

OLD Radio Programs on cassettes or reels. High quality, low prices, thousands to choose from, professional equipment. catalog 50¢. Remember Radio Inc., Box 2513, Norman, Okla. 73069.

CASSETTES—Unique titles including old time radio, educational, language. Send 10¢ for new 16-page 1972 catalog covering 8-track and cassette blanks plus hard-to-find accessories. Cassettes Unlimited, P.O. Box 13119S, Pittsburgh, Pennsylvania 15243.

MOST amazing show ever produced for Radio; Ken Nordine, narrator, network cast. Introductory notes by show's creator-producer. Complete series, 19 Cassettes. Volume One, \$3.98; subsequent releases, \$3 for \$10.00. Postpaid. Guaranteed. "Incredible, But True!", Sawyer, Michigan 49125.

RECORDING Tape, 2400' Reels, dozen \$15.00, 1800' dozen \$12.00, 1200' dozen \$10.00. Postpaid, guaranteed. Mitchell, Box 444SR, Flushing, New York 11367.

SCOTCH TAPES Cassettes-cartridges-reels. Catalog 10¢. Tower, Lafayette Hill, Pa. 19444.

CASSETTES, over 100,000; 400 artists. Price \$1.95. Box 808, East Norwich, New York 11732.

RECORDING? DUBBING? EDITING? Use the "Dubie" Control. Integrate two or more recorders into your music system. End tangled cables, ruined tapes. Brochure D-1, Dubie Co., 1509 Oklahoma, Norman, Okla. 73069.

BIG BANDS of thirty's and forty's. Cassette 90 minutes \$6.00, postpaid Dale McClees, Box 122C, RR4, Swanton, Ohio 43558.

QUALITY OPERA TAPES. Reduced price sample of your choice. Free information. Anderson, Box 2009, Philadelphia, Pa. 19103.

RECORDING TAPE Blank Cassettes, 8 track, reel. Save \$\$\$\$. Write: NNA, Box 721A, Rye, New York 10580.

FREE CATALOG. Radio Mysteries. Detective House, 218 Orangeview Lane, Lakeland, Fla. 33803.

TAPES, Cassettes. Free list. Far Out, 721 Bourbon Street, New Orleans, La. 70116.

FREE Stereo Tapes brochure. Music Society, Box 27815, Los Angeles, Calif. 90027.

GOLDEN AGE RADIO—Your best source for radio tapes. Box 8404-T, Olivette, Missouri 63132.

YOUR ad in these columns will reach an audience of 300,000 interested buyers monthly.

AUDIO Tape. Most brands available at wholesale prices. Recording Tape Wholesalers, Box 844, Orange, CT. 06477.

RECORDS

FREE 64-PAGE CATALOG offers hundreds of recordings of rare Renaissance, Baroque and Classical music. Some records priced as low as \$1.00 each! All late recordings. In Stereo only. MHS RECORDS, Box 932-HS, New York, New York 10023.

FABULOUS OPERATIC LP RARITIES at reasonable prices. Free list, Box 1012, New York City 10001.

SHOW ALBUMS, Rare, Out-of-Print LP's. Large list. 16C. Broadway/Hollywood Recordings, Georgetown, Conn. 06829.

POPULAR organ albums factory direct. Concert Recording, Lynwood, Calif. 90262.

"HARD To Get" records—all speeds. Record Exchange, 842 Seventh Avenue, New York, N.Y. 10019.

PROTECT your records—Poly sleeves for jackets 5c; Inner sleeves 4c; Poly lined paper 10c; white jackets 25c. Minimum order \$5.00 Record House, Hillburn, N.Y. 10931.

LIKE new LPs and prerecorded tapes. Catalogue 75c. Records, Hillburn, New York 10931.

BIG BANDS—Selections never before on record of any kind! Big Band LPs, 1940-50, of Butterfield, Krupa, Dunham, Herman, James, Shaw, Raeburn, Dorsey, etc. Limited Collector's Edition. Excellent quality. Write for list. RECORDS, P.O. Box 03203, Portland, Oregon 97203.

RARE show-soundtrack LP's. Free list. OCFAA, 9281 Harle, Anaheim, California 92804.

COLLECTOR thinning collection shows, pop. Catalogue 25c. RECORDS, 3973 Glenfeliz, Los Angeles 90039.

FREE CATALOGS—broadcasts. Sound Tracks of Thirties. ARG, 341 Cooper Station, New York City 10003.

SPEAKING, Singing, Self Help for everybody. A 12" voice lesson record \$4.95. Victor Drilea, Box 655, Sarasota, Fla. 33578.

THE Lone Ranger and other complete old radio programs available on L.P. records. Radio, Box 844, Orange, Conn. 06477.

INSTRUCTION

LEARN Electronics Organ Servicing at home. All makes, including transistors. Experimental kit—trouble-shooting. Accredited NHSC. Free Booklet. Niles Bryant School, 3631 Stockton, Dept. A, Sacramento, Calif. 95820.

DEGREE in Electronics Engineering earned mostly by correspondence. Free Brochure Dept. G-9, Grantham School of Engineering, 1505 N. Western Ave., Hollywood, California 90027.

F.C.C. 1st phone license training in 5 weeks. R.E.I.'s intensive training produces outstanding results. For information and free brochure call toll free: 1-800-237-2251, or write home office, Radio Engineering Incorporated Schools, 1336 Main Street, Sarasota, Florida 33577. Florida residents call (813) 955-6922.

FCC "TESTS-ANSWERS"... Original exam manual for F.C.C. First and Second Class License plus "Self-Study Ability Test." Proven! \$9.95. Satisfaction Guaranteed. Command, Box 26348-P, San Francisco 94126.

REPAIRS AND SERVICES

SPEAKERS rebuilt. Hi-Fi foreign instrument amplifier. Speakers, 2409 1/2 W. Colorado Ave., Colorado Springs, 80904.

PERSONALS

MAKE FRIENDS WORLDWIDE through international correspondence. Illustrated brochure free. Hermes, Berlin 11, Germany.

PHOTOGRAPHY—FILM, EQUIPMENT, SERVICES

SCIENCE Bargains—Request Free Giant Catalog "CJ"—148 pages—Astronomical Telescopes, Microscopes, Lenses, Binoculars, Kits, Parts, War surplus bargains. Edmund Scientific Co., 300 Edscorp Bldg., Barrington, New Jersey 08007.

EDUCATIONAL OPPORTUNITIES

LEARN WHILE ASLEEP. Hypnotize! Strange catalog free. Autosuggestion, Box 24-ZD, Olympia, Washington 98501.

DECEMBER 1971

HYPNOTISM

Free Hypnotism, Self-Hypnosis, Sleep Learning Catalog Drawer H400, Ruidoso, New Mexico 88345.

SLEEP LEARNING. Hypnotic Method. 92% effective. Details free. ASR Foundation, Box 7545 EG, Fort Lauderdale, Florida 33304.

MOVIE FILMS

16mm SOUND Features, Shorts, New. Used for Sale. Free Catalog. National Cinema, 333 W. 57 St., N.Y., N.Y. 10019.

GOVERNMENT SURPLUS

JEeps Typically From \$53.90 ... Trucks From \$78.40 ... Boats, Typewriters, Knives, Airplanes, Clothing, Multimeters, Oscilloscopes, Transceivers, Photographic, Electronics Equipment, Wide Variety, Condition. 100,000 Bld Bargains Direct From Government Nationwide. Complete Sales Directory and Surplus Categories Catalog \$1.00 (Deductible on Orders From Separate Included Catalog). Surplus Service, Box 820-L, Holland, Michigan 49423.

PLANS & KITS

KITS—Color Organs, Synchronizer, Strobes, Workshop, Box 3932, Bethpage, New York 11714.

MUSICAL INSTRUMENTS

30% DISCOUNT name brand musical instruments. Free catalog. Freeport Music, 127-Q Sunrise Hwy, Freeport, N.Y. 11520.

RUBBER STAMPS

RUBBER Address Stamps \$2.00. Signature \$3.50. Free catalog. Jackson's, Box 443G, Franklin Park, Ill. 60131.

QUALITY Rubber Stamps any copy 4 lines \$2.00. Engraved name pins \$1.25. Fast service free catalog Smith Enterprises, P.O. Box 3074, Virginia Beach, Va. 23453.

RESORTS AND TRAVEL

GREECE From \$100 two-weeks plus lowest TWA Group rates also Italy, Israel, Yugoslavia. Contact SunnyLand Tours, 166 Main Street, Hackensack, New Jersey 07601. 201-487-2150.

SAILHO! New Cruising Sloops. Instructions, Inexpensive. Box 20773, St. Petersburg, Florida 33742.

EMPLOYMENT OPPORTUNITIES

RECORDISTS. Make records. We train, equip, provide exclusive territory. Modest investment. Director Group, Englewood, Ohio 45322.

EMPLOYMENT INFORMATION

EXCITING Overseas Jobs. Directory \$1.00. Research Associates, Box 942-E, Belmont, California 94002.

EUROPEAN—FOREIGN EMPLOYMENT. Detailed report, currently available jobs, Europe, Australia, Africa. \$3.00. Eurojob Report, Box 52643-Z, Lafayette, Louisiana 70501.

TUBES

RECEIVING & INDUSTRIAL TUBES, TRANSISTORS, All brands—Biggest Discounts. Technicians, Hobbyists, Experimenters—Request FREE Giant Catalog and SAVE! ZALYTRON, 469 Jericho Turnpike, Mineola, N.Y. 11501.

TV and Radio Tubes 36c. Free 48 page color catalog. Cornell, 4215-H University, San Diego, California 92105.

MAGAZINES

JAPAN PUBLICATIONS GUIDE Business, pleasure, education. \$8.00. INTERCONTINENTAL CPO 1717, Tokyo 100-91.

OVER 2,000,000 backdate magazines! Specify needs. Midtown, Box 917-HS, Maywood, N.J. 07607.

WANTED

QUICKSILVER, Platinum, Silver, Gold, Ores Analyzed. Free Circular. Mercury Terminal, Norwood, Mass 02062.

STEREO REVIEW 1958-1961; Records and books; send for list. Bruscolini, 9585 Sierra, Fontana, Calif. 92335.

BUSINESS OPPORTUNITIES

I MADE \$40,000.00 Year by mailorder! Helped others make money! Start with \$10.00—Free Proof. Torrey, Box 318-N, Ypsilanti, Michigan 48197.

FREE BOOK "999 Successful Little-Known Businesses." Work home! Plymouth 445-P, Brooklyn, New York 11218.

\$200.00 Daily In Your Mailbox! Your Opportunity To Do What Mailorder Experts Do. Free Details. Associates, Box 136-SR, Holland, Michigan 49423.

MAILORDER! Make big money working home. Free report reveals millionaire's trade secrets! Executive (1K12), 333 North Michigan, Chicago 60601.

DEALERS Wanted! Citizens Band, AM, SSB Two-way radios & accessories. USA and export models. We ship around the world. Send letterhead to: Baggy's Radio, P.O. Box 778, 6391 Westminster Ave., Westminster, Ca. 92683. 714-894-3301.

START small, highly profitable electronic production in your basement. Investment, knowledge unnecessary. Postpaid brings facts. Barta-Electronics, Box 248, Walnut Creek, Calif. 94597.

MAILORDER! How to prepare your own catalog for pennies! Free Catalog! Obie-MYZ, Brooklyn, New York 11219.

MISCELLANEOUS

WINEMAKERS. Free illustrated catalog of yeasts, equipment. Semplex, Box 12276, Minneapolis, Minn. 55412.

WINE Recipes and catalog. 25c. Country Winemaker, Box 191E, RFD 1, Mattapoisett, Mass. 02739.

CATALOGS! Receive many! Catalog Directory \$1.00. Box 305, Plymouth Meeting, Pa. 19462.

Stereo Review

SUBSCRIBER SERVICE

Please include an address label when writing about your subscription to help us serve you promptly. Write to: P.O. Box 1099, Flushing, N.Y. 11352

CHANGE OF ADDRESS: Please let us know you are moving at least six to eight weeks in advance. Affix magazine address label in space below and print new address in space provided. If you have a question about your subscription, attach address label to your letter.

SPECIFY: Payment enclosed—You get 1 extra issue per year as a BONUS! Bill me later.

TO SUBSCRIBE: Check these boxes: 5 years \$26 3 years \$18 1 year \$7 New Renewal

← AFFIX LABEL →

If you have no label handy, print OLD address here

name	please print	zip code
address		
city		
state		

0707

name	please print	zip code
address		
city		
state		

Add'l postage: \$1 per year outside U.S., its poss. & Can.

TAPE HORIZONS

By CRAIG STARK



TAPE VS. DISC

THIS IS the season when many families will be deciding that the time has come for them to get their first good stereo system. Having selected a pair of speakers, most will probably buy a receiver as well, partly because of its built-in FM facility. However, since the music you want to hear isn't always on the air when you want to hear it, even the newcomer to audio will usually want a second program source. Budgets being what they are, this usually means at least an initial choice between discs and tape.

If tape weren't *my* favorite medium I wouldn't be writing this column to help audiophiles get more out of their recorders. On the other hand, the beginner in high fidelity is likely to view a tape deck less as a means of making his own recordings than as a playback facility for commercially prepared material. From this point of view, I'm sorry to say, tape has not yet lived up to its full potential and is far from making the LP obsolete.

Prerecorded tapes come in three different formats: open-reel, cassette, and the eight-track cartridge. Of these, the last is apparently not aimed primarily at the hi-fi market, so I won't consider it here. The first of the three, the familiar open-reel tape, generally offers the highest fidelity, and its enthusiasts insist that this is *the* way to listen to music in the home. They reason that though catalog selection is less extensive than for discs, tapes preserve their high frequencies over a greater number of playings, have a greater dynamic range, and don't develop the pops and ticks which often mar enjoyment when listening to music on discs. And this may be worth the extra dollar or so which the commercially taped version usually costs.

On the other hand, while the *best* open-reel prerecorded tapes do rival, but seldom exceed, the quality of good discs, on many tapes the hiss level is annoyingly audible, as if an abnormally low recording level had been used in making the copies. Moreover, the treble response on some tapes tends to be shrill, and on others somewhat muted, so that a number of readers have reported that by dubbing their own mint-fresh discs onto tape they often achieve a better result than with the commercially duplicated product!

Undoubtedly, the greatest interest today centers on the cassette. Competitively priced and almost as easy to use as a record, the cassette presents monumental problems in retaining the very high frequencies and in keeping hiss at an inaudible level because of its very slow speed (1 7/8 ips) and extremely narrow track width (0.026 inch). Yet the development of new tape oxides, when combined with Dolby noise-reduction processing, has made for some very impressive demonstrations. On the other hand, available selections in this format are still limited compared to disc. And we must wait to hear whether the newer cassette transports can overcome the wow and flutter problem that frequently imparts a slight but annoying vibrato to music.

In sum, I don't intend to sell you on records instead of tape, for the latter's advantages in *recording* are unquestionable. But if your interest is in playback only, don't sell the disc short, either!

STEREO REVIEW DECEMBER 1971 ADVERTISERS INDEX

READER SERVICE NO.	ADVERTISER	PAGE NUMBER
1	A.D.R. Audio	130
2	Acoustic Research, Inc.	131
	Advent Corporation	113
3	AKAI America, Ltd.	19
4	Allied Radio Shack	107
5	Allied Radio Shack	116
6	Altec Lansing	9
7	Ampex	30
8	Angel	84
9	Audio Dynamics Corporation	124
10	Audio Originals	134
11	Audio Unlimited, Inc.	112
12	Baltimore Wholesalers	132
13	Bang & Olufsen of America, Inc.	137
14	Benjamin Electronic Sound Corp.	28, 29
15	Benjamin Electronic Sound Corp.	143
	Bogen	127
16	Bose	50
17	Bose	51
79	Bozak Manufacturing Company, The R. T.	109
103	British Industries—Garrard	2
18	Carston Studios	108
20	Clark Company Incorporated, David	134
	Columbia Records	82
22	Concord Division of Benjamin Electronics	32
23	Deutsche Grammophon Records	86
82	Discwasher Inc.	136
24	District Sound Inc.	132
25	Dixie High-Fidelity Wholesalers	118
26	Downtown Audio, Inc.	108
	Dressner	134
27	Dual	6, 7
28	Dynaco Inc.	93
29	Dynaco Inc.	95
30	Dynaco Inc.	97
	Early Times Distillery Co.	26
81	Electro-Voice, Inc.	48
19	Electro-Voice, Inc.	4th Cover
80	Elpa Marketing Industries	133
97	Empire Scientific Corp.	35
32	Empire Scientific Corp.	126
99	Empire Scientific Corp.	135
33	Finney Company, The	144
	Fisher Radio	2nd Cover, 1
45	Harman-Kardon, Inc.	119
35	Heath Company	36, 37
36	Honeywell	128
37	Infinity Systems, Inc.	10
38	International Hi-Fi Distributors	112
39	JVC America, Inc.	125
	Jack Daniel Distillery	129
40	James B. Lansing Sound, Inc.	46, 47
41	Jensen Sound Laboratories	24, 25
42	KLH Research and Development	117
	Kaywoodie	92
44	Kenwood	52
34	Koss Corporation	49
46	Lafayette Radio Electronics	102, 103
	Lear Siegler, Inc.	127
47	London	87
86	McIntosh Laboratory Inc.	114
43	Marantz Inc.	41
49	Marantz Inc.	43
50	Momorex Recording Tape	22
51	Micro/Acoustic Corp.	94
52	Musical Heritage Society, Inc., The	88
53	National Union Electric Corp.	31
54	Olson Electronics	144
55	Ovation Records	88
80	P E Turntables	133
56	Panasonic	15
85	Pickering	139
53	Pilot	31
83	RCA Records and Tapes	85
57	Rabco	128
60	Rabco	114
58	Rabsons 57 St. Inc.	130
59	Rectilinear Research Corp.	89
61	Revox Corporation	5
	Rums of Puerto Rico, The	45
62	Sansui Electronics Corp.	39
64	Schober Organ Corp., The	88
100	Scott Inc., H. H.	12, 13
65	Sherwood Audio Division, Scintrex Inc.	23
66	Sherwood Electronic Laboratories	27
67	Shure Brothers Inc.	96
68	Shure Brothers Inc.	122
69	Sony Corp. of America	20, 21
70	Sony Corp. of America	110, 111
63	Sony/Superscope	105
71	Sound Reproduction, Inc.	118
72	Standard Radio Corp.	120
73	Stanton Magnetics Inc.	121
74	Stereo Corporation of America	136
75	Tandberg of America, Inc.	115
76	TEAC Corporation of America	3rd Cover
80	Thorens Turntables	133
	U.S. Pioneer Electronics Corp.	81
27	United Audio Products, Inc.	6, 7
77	V-M Corporation	11
84	Vanguard Recording Society, Inc.	145
78	Wollensak 3M Company	140
	Classified Advertising	146, 147

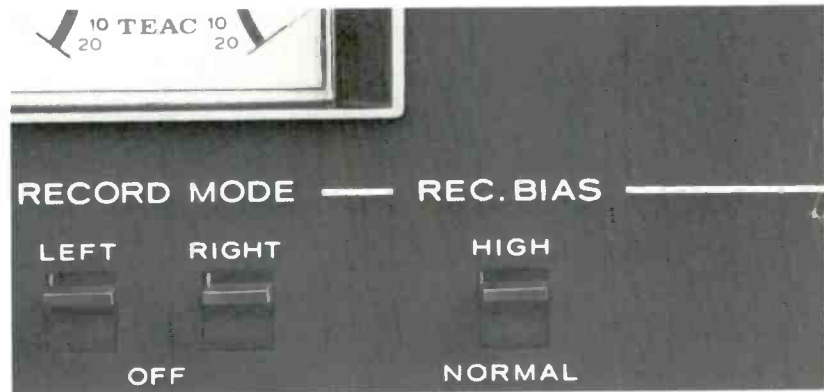
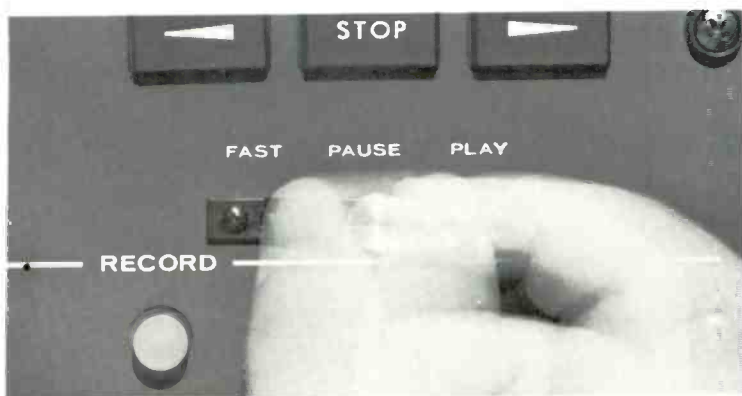
Sure, you can do without Edi-Q and BiaTron.

But think what you can do with them.

In talking about the fine TEAC semi-pro 1230 four-track, two-channel reel-to-reel deck, we may have given you the idea that its Edi-Q and BiaTron features are just the frosting on the cake. That's what happens when you take a classic deck in the consumer best-buy class, and then decide to outdo yourself.

If your name isn't TEAC, you add on the latest kluge and veeblefretzer, and call yourself a pro.

But when you're TEAC, it's *noblesse oblige* all the way. You have to integrate into the design a sophisticated edit/cueing/pause system that would do credit to a recording studio. The kind that lets you edit out unwanted material while you're recording. Smoothly. Instantaneously. With two flicks of a toggle. This is all incorporated in an inconspicuous control lever on the panel, so to call your attention to it, we've named it Edi-Q.



Then to versatilize the 1230 for both standard and low-noise, high-output tapes, we've enhanced it with a bias-current switching capability that lets you choose the correct bias for the tape you're using. But a panel switch is pretty unassuming, so we've given this one the catch-name BiaTron.

Of course, there's still a basic high-powered deck to begin with. Three TEAC precision motors. Constant-contact hyperbolic heads. Hairtrigger solenoid controls. MIC and LINE mixing. TAPE and SOURCE monitoring. Turntable height adjustment. Independent headphone monitoring with built-in volume control.

If you're an audiophile with a case of *noblesse oblige* like ours, we have a sneaking suspicion there'll be Edi-Q and BiaTron on your next deck.

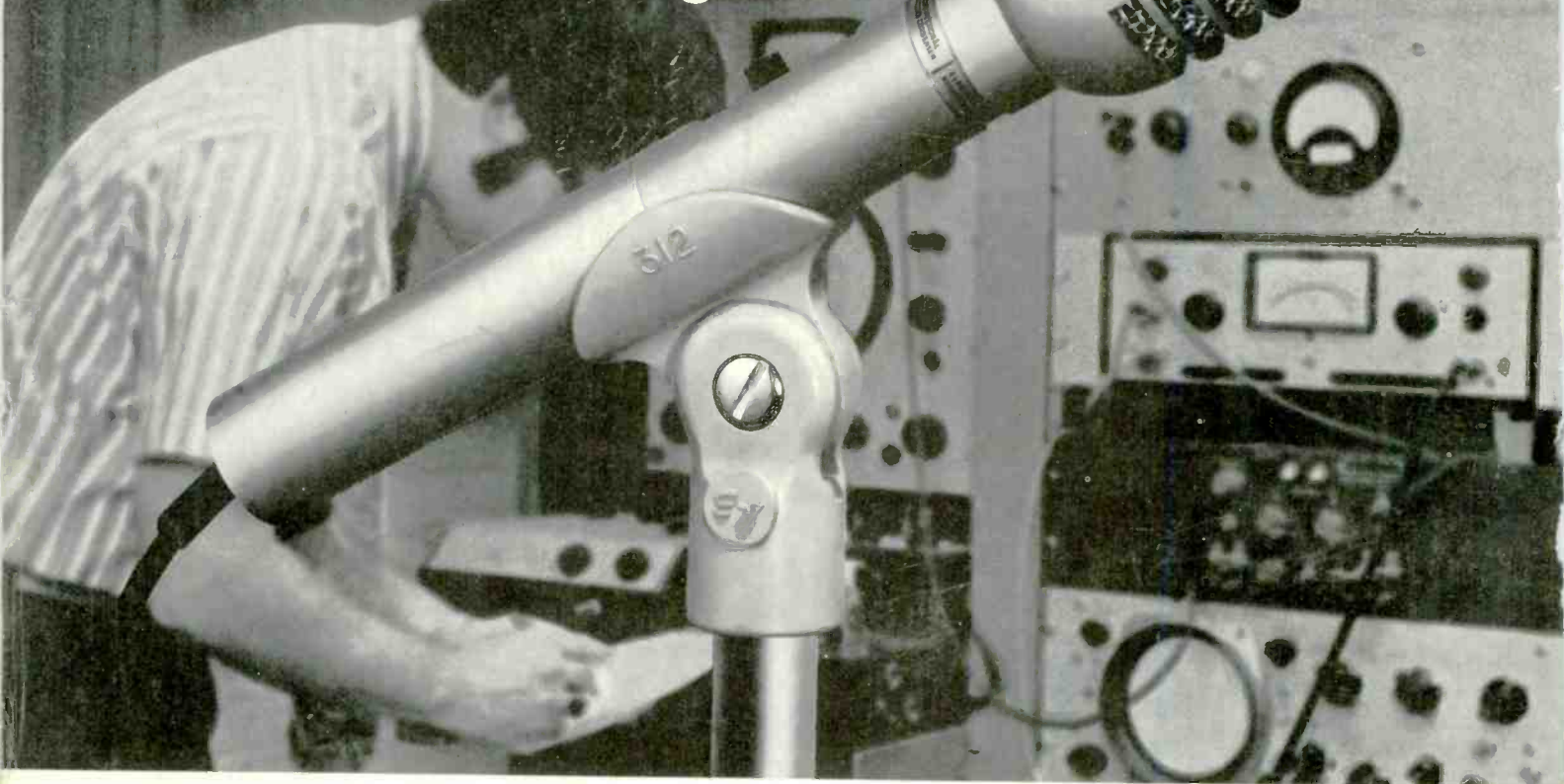
Frequency response—30 to 20,000 Hz (40 to 18,000 \pm 3 dB) at 7½ ips
Signal-to-noise ratio—Better than 55 dB at 7½ ips
Wow and flutter—0.08% at 7½ ips
Rewind time—1200 ft in 90 seconds
Microphone input—600 ohms

TEAC®

TEAC Corporation of America, 7733 Telegraph Road, Montebello, California 90640
TEAC Corporation, 1-8-1 Nishi-shinjuku, Shinjuku-ku, Tokyo, Japan • TEAC EUROPE N.V., Kabelweg 45-47, Amsterdam — W.2. Holland
In Canada: White Electronic Development Corp., Ltd., Toronto

CIRCLE NO. 76 ON READER SERVICE CARD

A superb condenser microphone for just \$39.75. What's the trick? Brilliant engineering.



Condenser microphones have long been known for their sound... and their cost, and their complexity. Now Electro-Voice introduces a series of genuine condenser microphones that provide sound embarrassingly close to the most expensive studio models, without the high cost and complexity.

A big problem with conventional condenser microphones has been the need for a high voltage power supply to polarize the diaphragm. E-V has eliminated it completely with its new *electret* condensers. We've found a way to permanently trap this voltage right on the surface of the diaphragm, thus doing away with the need for bulky, expensive power supplies.

How do the new Electro-Voice electrets sound? Response is clean, flat, and transparent, with very high output for full recording volume. It's just what you would expect from condenser microphones costing much more, and by far the best sound-per-dollar you've ever heard.

A simple FET circuit inside each E-V electret microphone matches both professional and home tape recorder inputs with equal quality. This low-noise, high-output circuit operates from a single "AA" penlite battery for as long as 1200 hours of use.

Choose either omnidirectional or Single-D cardioid types. The chart shows the prices, and some of the reasons for the difference in cost. Whichever model you choose will give you excellent transient response, high sensitivity, and uniform polar response. Our "second-generation" electret design offers vastly improved protection against extremes of humidity and temperature. And the ruggedness of E-V electret condensers is rivaled only by E-V dynamic models. All-in-all, new E-V condensers are a significant improvement over less sophisticated condenser microphones (electret or otherwise).

If your goal is to record natural sound, or natural music — try an E-V electret. Or in the PA field where condensers have never been sufficiently reliable — try an E-V electret. But don't tell your listeners how much you paid for your new microphones. They'll never believe you!

ELECTRO-VOICE, INC., Dept. 1212 F
616 Cecil Street, Buchanan, Michigan 49107
In Europe: Electro-Voice, S.A., Lyss-Strasse 55,
2560 Nidau, Switzerland



MODEL 1710
Omnidirectional
80-13,000 Hz response
Unbalanced 150 ohm output
-50 dB output level*
\$39.75



MODEL 1750
Single-D Cardioid
80-13,000 Hz response
Unbalanced 150 ohm output
-43 dB output level*
\$45.00



MODEL 1711
Omnidirectional
60-15,000 Hz response
Balanced 150 ohm output
Professional cable connector
-50 dB output level*
\$59.70



MODEL 1751
Single-D Cardioid
60-15,000 Hz response
Balanced 150 ohm output
Professional cable connector
-43 dB output level*
\$75.00

*Output level ref. to 1 mw/10 dynes/cm². The smaller the number, the better. Prices shown are suggested retail.

CIRCLE NO. 19 ON READER SERVICE CARD

Electro-Voice
a GULTON subsidiary