REPORT: THE '76 CONSUMER ELECTRONICS SHOW

- RECEIVERS: higher powers and lower costs
- AMPLIFIERS: the year of the medium-size super-power unit
- TUNERS: among others, a tuning system with a computer memory
- PHONO CARTRIDGES: one model weighed in at a mere gram
- RECORD PLAYERS: direct drive moves to the fore
- TAPE EQUIPMENT: the Elcaset, a brand-new cartridge format
- SPEAKERS: coherent phase and electrodynamic "film" diaphragms are still trends

AND * * * *

- DISCOmania
- The Great American Symphony
A COMPARISON
THAT'S NO COMPARISON.

<table>
<thead>
<tr>
<th></th>
<th>PIONEER 5X-1250</th>
<th>MARANTZ 2325</th>
<th>KENWOOD KR-9400</th>
<th>SANSUI 9090</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER MIN RMS, 20 TO 20,000 Hz</td>
<td>160W+160W</td>
<td>125W+125W</td>
<td>120W+120W</td>
<td>110W+110W</td>
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<tr>
<td>TOTAL HARMONIC DISTORTION</td>
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<td>100 mV</td>
<td>210 mV</td>
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<td>1/1/mixing</td>
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<td>TAPE MON-DUPL</td>
<td>2/yes</td>
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<td>2/yes</td>
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<tr>
<td>TONE</td>
<td>Twin Tone</td>
<td>Bass-Mid-Treble</td>
<td>Bass-Mid-Treble</td>
<td>Bass-Mid-Treble</td>
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<tr>
<td>TONE DEFECT</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>SPEAKERS</td>
<td>A.B.C</td>
<td>A.B</td>
<td>A.B.C</td>
<td>A.B.C</td>
</tr>
<tr>
<td>FM SENSITIVITY (HF 30)</td>
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<td>1.8µV</td>
<td>1.7µV</td>
<td>1.7µV</td>
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<td>SELECTIVITY</td>
<td>90 dB</td>
<td>80 dB</td>
<td>90 dB</td>
<td>85 dB</td>
</tr>
<tr>
<td>CAPTURE RATIO</td>
<td>1.0 dB</td>
<td>1.25 dB</td>
<td>1.3 dB</td>
<td>1.5 dB</td>
</tr>
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</table>
One look at the new Pioneer SX-1250, and even the most partisan engineers at Marantz, Kenwood, Sansui or any other receiver company will have to face the facts.

There isn't another stereo receiver in the world today that comes close to it. And there isn't likely to be one for some time to come.

In effect, these makers of high-performance receivers have already conceded the superiority of the SX-1250. Just by publishing the specifications of their own top models.

As the chart shows, when our best is compared with their best there's no comparison.

**160 WATTS PER CHANNEL: AT LEAST 28% MORE POWERFUL THAN THE REST.**

In accordance with Federal Trade Commission regulations, the power output of the SX-1250 is rated at 160 watts per channel minimum RMS at 8 ohms from 20 to 20,000 Hz, with no more than 0.1% total harmonic distortion.

That's 35 to 50 watts better than the cream of the competition. Which isn't just something to impress your friends with. Unlike the usual 5-watt and 10-watt "improvements," a difference of 35 watts or more is clearly audible.

And, for critical listening, no amount of power is too much. You need all you can buy.

To maintain this huge power output, the SX-1250 has a power supply section unlike any other receiver's.

A large toroidal-core transformer with split windings and four giant 22,000-microfarad electrolytic capacitors supply the left and right channels independently. That means each channel can deliver maximum undistorted power at the bass frequencies. Without robbing the other channel.

When you switch on the SX-1250, this power supply can generate an inrush current of as much as 200 amperes. Unlike other high-power receivers, the SX-1250 is equipped with a power relay controlled by a sophisticated protection circuit, so that its transistors and your speakers are fully guarded from this onslaught.

**PREAMP SECTION CAN'T BE OVERLOADED.**

Perhaps the most remarkable feature of the preamplifier circuit in the SX-1250 is the unheard-of phono overload level of half a volt (500 mV).

That means there's no magnetic cartridge in the world that can drive the preamp to the point where it sounds strained or hard. And that's the downfall of more than a few expensive units.

The equalization for the RIAA recording curve is accurate within ±0.2 dB, a figure unsurpassed by the costliest separate preamplifiers.

**THE CLEANEST FM RECEPTION THERE IS.**

Turn the tuning knob of the SX-1250, and you'll know at once that the AM/FM tuner section is special. The tuning mechanism feels astonishingly smooth, precise and solid.

The FM front end has extremely high sensitivity, but that alone would be no great achievement. Sensitivity means very little unless it's accompanied by highly effective rejection of spurious signals.

The SX-1250 is capable of receiving weak FM stations cleanly because its front end meets both requirements without the slightest compromise. Thanks, among other things, to three dual-gate MOSFETs and a five-gang variable capacitor.

On FM stereo, the multiplex design usually has the greatest effect on sound quality. The SX-1250 achieves its tremendous channel separation (50 dB at 1000 Hz) and extremely low distortion with the latest phase-locked-loop circuitry. Not the standard IC chip.

Overall FM distortion, mono or stereo, doesn't exceed 0.3% at any frequency below 6000 Hz. Other receiver makers don't even like to talk about that.

**AND TWO MORE RECEIVERS NOT FAR BEHIND.**

Just because the Pioneer SX-1250 is in a class by itself, it would be normal to assume that in the class just below it the pecking order remains the same.

Not so.

Simultaneously with the SX-1250, we're introducing the SX-1050 and the SX-950. They're rated at 120 and 85 watts, respectively, per channel (under the same conditions as the SX-1250) and their design is very similar.

In the case of the SX-1050, you have to take off the cover to distinguish it from its bigger brother.

So you have to come to Pioneer not only for the world's best.

You also have to come to us for the next best.

U.S. Pioneer Electronics Corp., 75 Oxford Drive, Moonachie, New Jersey 07074

Anyone can hear the difference.

CIRCLE NO. 1 ON READER SERVICE CARD
PIONEER HAS DEVELOPED A RECEIVER EVEN MARANTZ, KENWOOD AND SANSUI WILL HAVE TO ADMIT IS THE BEST.
Blueprint for Flat Frequency Response

In the graph below, frequency response was measured using the CBS 100 Test Record, which sweeps from 20-20,000 Hz. The vertical tracking force was set at one gram. Nominal system capacitance was calibrated to be 300 picofarads and the standard 47K ohm resistance was maintained throughout testing. The upper curves represent the frequency response of the right (red) and left (green) channels. The distance between the upper and lower curves represents separation between the channels in decibels. The inset oscilloscope photo exhibits the cartridge’s response to a recorded 1000 Hz square wave indicating its resonant and transient response.

Smooth, flat response from 20-20,000 Hz is the most distinct advantage of Empire’s new stereo cartridge, the 2000Z.

The extreme accuracy of its reproduction allows you the luxury of fine-tuning your audio system exactly the way you want it. With the 2000Z, you can exaggerate highs, accentuate lows or leave it flat. You can make your own adjustments without being tied to the dips and peaks characteristic of most other cartridges.

For a great many people, this alone is reason for owning the Z. However, we engineered this cartridge to give you more. And it does. Tight channel balance, wide separation, low tracking force and excellent tracking ability combine to give you total performance.

See for yourself in the specifications below, then go to your audio dealer for a demonstration you won’t soon forget.

The Empire 2000Z.
Already your system sounds better.

Frequency Response — 20 to 20K Hz ± 1 db using CBS 100 test record
Recommended Tracking Force — ¼ to ¼ grams
(Specification given using 1 gram VTF)
Separation — 20 db 20 Hz to 500 Hz
30 db 500 Hz to 15K Hz
25 db 15K Hz to 20K Hz
I.M. Distortion — (RCA 12-5-105) less than 0.2% 2K Hz to 20K Hz = 3.54 cm/sec
Styli — 0.2 x 0.7 mil diamond
Effective Tip Mass — 0.2 mg
Compliance — lateral 30 X 10^-6 cm/dyne vertical 30 X 10^-6 cm/dyne
Tracking Ability — 0.9 grams for 38 cm per sec at 1000 Hz
0.8 grams for 30 cm per sec at 400 Hz
Channel Balance — within ½ db at 1 Khz
Tracking Angle — 20°
Recommended Load — 47 K Ohms
Nominal Total System Capacitance — required 300 pF
Output — 3 mv = 3.5 cm per sec using CBS 100 test record
D.C. Resistance — 1100 Ohms
Inductance — 6.75 mH
Number and Type of Poles — 16 Laminations in a 4 pole configuration
Number of Coils — 4 (1 pair/channel — hum cancelling)
Number of Magnets — 3 positioned to eliminate microphonics
Type of Cartridge — Fully shielded, moving iron

For a free “How to Get the Most Out of Your Records” brochure write Empire Scientific Corp., Garden City, N.Y. 11530.
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COVER: Paul Coker, Jr.
By William Anderson

CEREMONIAL MUSIC

I would like to assure younger readers (and TV watchers) that political conventions were not always the cut-and-dried, wall-to-wall yawn the Democratic muster turned out to be this year (I am writing this in mid-July, before the opening of the rather more dramatically promising Republican show). No, it used to be that these quadrennial get-togethers were riots of rumpus and razzle-dazzle, tactically promising Republican show). No, it used to be this year (I am writing this in mid-July, before the opening of the rather more dramatically promising Republican show). No, it was a Trooping of the Colors, a fine thing for the opening ceremony of this Bicentennial (or any other) year, done to the tune of Aaron Copland’s Fanfare for the Common Man, the right piece at the right time if ever there was one. It may have sounded a little like the Wrong Note Rag (perhaps it’s a fact that will let you know what a real tug at the heartstrings feels like.

That, of course, is no reason not to take them matter-of-factly, either by the rain or an inexperienced camera crew. And sabotaged, sad to say, at the wrong time, for I would much rather have watched Julii Child dissect Chef Haller’s roast veal than sit through Bob Hope’s appalling monologue, with its potty jokes about Lincoln’s stove-pipe hat. Is that any kind of dish to set before a Queen? The Captain and Tenille, moreover, are a lovable pair of fine musicians, but they simply didn’t measure up to the ceremonial needs of the occasion. Julii, bless her outspoken heart, put the finger of a fine hostess on the fiasco and characterized it for what it was: ni cultura.

What, then, should the entertainment have been? So glad you asked, for I just happen to have a little program right here, one that is thoroughly American, Bicentennial, musical, and above all, for this occasion, ceremonial. It starts with a few piano rags of Scott Joplin (get Joshua Rifkin, William Bolcom, Max Morath, or Marvin Hamlisch), continues with a brace of songs by Stephen Foster (Jan DeGatani) and a group of Gottschalk pieces (Ivan Duvay), and concludes with a selection of American sentimental songs (Robert White). For an encore, tenor White would sing (tender farce?) a lied or two by the Queen’s great-grandfather Prince Albert.

If you (or anyone down at the White House) would like to check out just how this would have sounded, go right ahead: it’s all (except for Albert) in the current record catalog (the labels are, respectively, Nonesuch, Nonesuch, London, and RCA), and I couldn’t wish you a more delight-filled musical evening. You will pay particular attention, I hope, to the last item on the list, the just-released “When You and I Were Young Maggie” (RCA ARL1-1698). Besides the title song, it includes Beautiful Dreamer, Mother o’ Mine, Smilin’ Through, and several others that will let you know what a real rag at the heartstrings feels like.

Contributing Editors:
Chris Albertson
Martin Bookspan
Noel Coppage
Richard Freed
David Hall
Roy Hemmings
Julian D. Hirsch
George Jellinek
Igor Kipnis
Irving Kolodin
Paul Kresh
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J Marks-Highwater
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Charles Rodrigues
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Joe Vance

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Publisher: Edgar W. Hopper
Editor: William Anderson
Managing Editor: William Livingstone
Editorial Coordinator: Louise Gooch Boundas
Music Editor: James Goodfriend
Technical Editor: Larry Klein
Art Director: Borys Patchowsky
Associate Technical Editor: Ralph Hodges
Popular Music Editor: Steve Simels
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Contribution Editors:
Chris Albertson
Martin Bookspan
Noel Coppage
Richard Freed
David Hall
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Julian D. Hirsch
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Peter Reilly
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Eric Salzman
Craig Starn
Joe Vance

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STEREO REVIEW
Skeptics Agree!

Reprinted from ELECTRONICS ENGINEERING TIMES
January 27, 1975 "Keep Your Records Clean"
"Up to now, I've had to wash records as dirty as these in a sink, with the attendant risks of mishandling. The Discwasher got rid of all the dirt and fingerprints in one easy operation, far more effective than any other record-cleaning tool I have come across. For simply dusting records, it is also very effective and does not leave that line of dust across the disc when you pick it up from the surface. At $15.00 it's not cheap, but if you care for your records, it's worth it."

Reprinted from STEREO
Winter, 1975
"We were frankly at a loss as to how to test the 'performance' of the Discwasher System... Each time we examined the residue that adhered to the surface of the Discwasher brush, and each time we were amazed at the amount of debris that this combination of brush and fluid was able to remove. It was frightening to realize that our stylus had been grinding away at these minute particles and globules for so long—-but that seems to be the irrefutable case."

Reprinted from HIGH FIDELITY MAGAZINE
December, 1974 — (Danish) "Testing"
"Discwasher D-II has been tried out on many different records in many different conditions... "All the other record cleaning devices used did not give results. Discwasher D-II not only cleaned the records but brought them back to their original state of high quality. "On the grounds of the fantastic results, which can come about by using the Discwasher D-II, many will ask the question, 'IS IT WORTH 128 KRONER?' ... But it does exactly what it says it does and this is where all of the others fail. "It pays for itself, and is highly recommended."

Reprinted from AUDIO
May, 1976
"For the daily care of records, to wit, the ounce of prevention that can assure your records of reasonable longevity and noise-free plays, the Discwasher with D-II solution and the Zerostat should do the best job of keeping your records clean with a minimum of noise problem."

Reprinted from STEREO SOUND
Summer, 1975 (Japan) Page 303
K. Yamanaka, "This is the record cleaner. It is really effective. We can now listen to our old records with new discoveries."

---

discwasher
A DIVISION OF DISCWASHER GROUP
COLUMBIA, MO 65201
details... A DIFFERENT KIND OF RECORD CLUB

You can now own every record or tape that you may ever want... at tremendous savings and with no continuing purchase obligations. You can get valuable free dividend certificates, you can get quick service and all the 100% iron clad guarantees you want.

Now you can stop price increases that leave you with less music for your record and tape budget. You can guarantee yourself more music for less money through membership in Discount Music Club.

Look at these benefits:

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on every record and tape in print—no "agree-to-purchase" obligations of any kind.

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LETTERS TO THE EDITOR

Calendar of American Composers

- Congratulations on your excellent "Calendar of American Music" in the July issue. We outside the U.S.A. marvel at (or are jealous of) the supremacy of American technology and human endeavour, and justly so, for the pictorial contribution of the Moravian Music Foundation makes it even more emphatic. Benjamin Franklin would have been very proud, if he were alive in 1795, that his kite experiment was so ably applied. But I am a bit puzzled. I was under the impression that the double wall receptacle didn't appear until late in 1796.

LEO SCHWARTZ
Toronto, Can.

- You left out John Denver.

WALTER HILKER
Los Angeles, Calif.

- A splendid feature for the July Bicentennial issue—except you overlooked one giant and one major talent: Rachmaninoff and Casals. I was under the impression that the double wall receptacle didn't appear until late in 1796.

JOHN KIFFIN
San Francisco, Calif.

- Many thanks for including Charlie Parker, etc., in James Goodfriend's primarily long-haired American Music Calendar featured in the July issue. Long live American music, the greatest in the world! With all the Bicentennial commotion, isn't it strange that the liberal American composers of the 1930's (Earl Robinson, Roy Harris, and others), who dealt with American themes, are still ignored?

ANDY POLON
New York, N.Y.

The Van Vieck Synthesizer

- Thank you for printing one of the many pieces of evidence that Pennsylvania's Lehigh Valley has long been "way out there with the avant-garde." Bishop Van Vieck's instrument in the picture on page 64 of July Stereo Review is a fully polyphonic synthesizer (built for the Moravian Schantz family) using circuitry copied by Maurice Martenot and others over a century later.

JAMES D. CRAIG
Allentown, Pa.

- A strange thing happened on the way from Bethlehem, Pennsylvania, in 1795 to page 64 of the July 1976 issue of Stereo Review. The illustration of the birthday greeting given to Moravian Bishop Jacob van Vieck has acquired a highly modern touch—an electric cord and outlet!

Is this truly the first electronic harpsichord? Have the Moravian historians been suppressing knowledge? Since we know that Benjamin Franklin visited the Moravians in Bethlehem, is it just possible that he conducted his electrical experiments there and to a degree heretofore not known?

A color reproduction of this greeting can be found on the cover of the Columbia album ML 5688, "Arias, Anthems, and Chorales of the American Moravians, Volume 2."

Theodore W. Ripper
Decatur, Ill.

- Now we know there is nothing new under the sun. Can we really credit Bishop Jacob van Vieck for the invention of the electric organ, or only for the electric cord and plug?

JAMES D. ANDERSON
Kane, Pa.

- While it is generally taken for granted in this year of patriotic sentiment that Benjamin Franklin discovered static electricity, don't you think it somewhat absurd that Moravian Bishop Jacob van Vieck should be playing an electric organ in 1795?

GENE ZAGORSKY
Setauket, N.Y.

- Do you intend to tell us the story behind that 1795 electric piano, please?

PAUL A. ALTER
Pittsburgh, Pa.

- Is Jacob van Vieck really playing a very early synthesizer, or has one of the Patchowksky gang played with the illustration? Seriously. I just wanted you to know that someone noticed. I work on a magazine that goes to about 23,000 boys, and I once did something similar to a photo. We got one letter—and the photo was on the cover!

DAVID ALLEN CONDON
Roselle, Ill.

Well, we didn't get 23,000 letters, but we got more than enough to make us very proud of our wide-awake readers. We're sorry there wasn't room for them all.

STEREO REVIEW
Horses Don't Sing

After reading Chris Albertson's article "A Word About Jazz" in the July issue, I am confused. Mr. Albertson states that Big Bill Broonzy, in referring to the blues, made the remark: "It's all folk music, 'cause horses don't sing." The first chapter of Leonard Feather's The Book of Jazz opens with very nearly the same words, but gives Louis Armstrong credit for saying them. Who actually made the statement?

MARGIE METHVIN
West Monroe, La.

Mr. Albertson replies: I am aware of the quote attributed to Louis Armstrong in Mr. Feather's book, but I have been unable to trace the source. However, Broonzy's statement can be heard—straight from the horse's mouth, so to speak—on a 1956 radio interview with Studs Terkel, issued on a Folkways album (FS 3864). Incidentally, I am guilty of relying on my memory; the actual quote is, "You hear people talking about folk songs. You hear people talking about the blues, like it's something else. It's all folk songs. You never hear horses sing 'em." I know this doesn't really answer the question, but it confirms that Broonzy did make the statement. Perhaps Leonard Feather, too, relied on fickle memory.

Elvis

Your July article on Elvis was really appreciated in this corner, and I am sure by all his fans. He is the soundtrack of my adolescence. You are so right—it just wouldn't have been the same without him.

MONICA KELLY
Larchmont, N. Y.

I think Elvis Presley is a Big Farce in this art we call "pop music." Sure, he revolutionized the music scene—I only wish he was good at it. I've always thought a person should be good in his own field of endeavor. A fine example might be Les Paul.

LARRY DE PAOLI
Elkhorn, Wis.

Just Deserts

I enjoyed the pictures of prize-winning musicians in "Just Deserts" in your August issue. One who was not mentioned was conductor Arthur Fiedler, who was awarded the honorary degree of Doctor of Humane Letters by Dartmouth College last June. According to Dartmouth's citation, Fiedler, who has recorded everything from the Beatles to Beethoven, has recorded more pieces than any other conductor and has sold fifty million records.

GRAHAM CHRISTOPHER
New York, N. Y.

Late Beethoven

I'm pretty sure my ears hear differently from Irving Kolodin's, inasmuch as he (in his July column) feels that the Guarneri's glib reading of Beethoven's Grosse Fuge is somehow to be preferred to the technically astonishing version by the Fine Arts Quartet in their set of the late quartets. (Apart from Michael Steinberg's unsigned notes, it's the only good thing about their venture.)

But, however differently we hear, it is a pity that Mr. Kolodin did not audition or re-audition the Yale Quartet's Vanguard box, for their Grosse Fuge technically surpasses even the Fine Arts'. One listen-through with the

(Continued on page 10)
The Micro Seiki
DDX-1000.

The Problem.
Any cartridge is subject ultimately to your personal taste. That's why so many serious audiophiles own and regularly use more than one cartridge. But changing cartridges is really a major undertaking. Not any more.

The Solution.
The Micro Seiki DDX-1000. It will accept up to three high quality tonearms. No matter how cultivated and diversified your musical tastes are, the DDX-1000 will let you discern the subtlety of interplay between disc and cartridge, cartridge and tonearm.

A direct drive DC servo controlled motor drives the large, balance-tested platter at near perfect speed. Wow and flutter is an unprecedented 0.025%. Additionally, the neon strobe lamp is driven by an independent built-in 45Hz oscillator with a frequency fluctuation of less than 0.03%.

A unique 3-point aluminum alloy supporting frame and special shock mounting provide optimum stability. The two-layer absorber system (consisting of cushion rubber and insulator balls with built-in springs) eliminates any possibility of acoustic feedback. The completely isolated power supply/control unit eliminates hum and electrical noise. And micro-switches provide fast, exact operational control. The signal-to-noise ratio is greater than 63 dB.

The MA-505.
Pictured is the Micro Seiki MA-505*, the first audiophile quality dynamic balance tonearm. Since it does not depend on gravity to maintain the proper tracking force, it will compensate better for surface and groove irregularities present in many mass produced discs. In addition, the stylus pressure may be adjusted while the disc is playing to assure the best possible reproduction.

*Not included with DDX-1000. Supplied without cartridge.

The DDX-1000 and MA-505. Creative design. Superior execution. The complete turntable system for the most critically demanding audiophile.

MICRO SEIKI
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score will show that it's a sizzling, pellucid, incredibly accurately played rendition.

DAVID MORAN
Boston, Mass.

A book could easily be written about the various available recordings of the Beethoven quartets, but its opinions would be no more likely to please every palate than a column as short as Mr. Kolodin's. How gratifying, then, that these masterpieces are so well represented in the catalog, permitting us to hear so many opinions on the subject, to have so much—and to various—evidence on which to base our own. For more on this fascinating subject of catalog duplications and their uses see Music Editor Goodfriend's column this month.

Basic Library of American Music

Concerning Bernard Jacobson's Basic Library of American Music in the July issue, I would rather see Virgil Thomson represented by his collaboration with Gertrude Stein, Four Saints in Three Acts, than by his film scores. (If you can't find the disc in stores, twisting RCA's arm should loosen one of the remaining copies of LM-2756.)

I also think Time Cycle, rather than Baroque Variations, would have better represented Lukas Foss. Perhaps Odyssey could do Foss Freaks a favor by putting the orchestral and chamber versions on one disc. In the meantime, Columbia Special Products can still supply the former.

Leon Kirchner and George Rochberg should be in there somewhere, as should Ruth Crawford Seeger's string quartet and the Odyssey album of Ned Rorem's songs. Perhaps a case could also be made for John Coltrane's Ascension, almost forgotten now; although it may fall more into the influential than-listened-to-category, it stood jazz musicians on their ear in the mid-Sixties.

Gil Gross
Glenwood, N.J.

I feel that Bernard Jacobson has shortchanged your readers by omitting (at least) two of the most important and inspiring symphonies written in America, by Americans. Which eloquently embody this country's most treasured ideals and idealisms. One is Samuel Barber's First Symphony, a work worthy in its courage, straightforwardness, and sensual beauty to be a kind of symphonic National Anthem. The other is Charles Ives' masterpiece, the Symphony No. 4, which, incidentally, strongly recalls the Barber First in the climactic moments of its third movement. I hope that you can somehow convey to your readers the immeasurable value of these works—particularly those of Samuel Barber, whose overt romanticism seems either to scare off or to embarrass some critics.

ALEX SEGAL
Santa Monica, Calif.

The Bandmaster and the Cannoneers

Having participated in many hours of committee meetings that resulted in, among other things, the selection of material used in the Department of Defense recording project "Broad Stripes/Bright Stars," I feel I must set to rest one myth that David Hall perpetuates in his July review: "... I don't care for the updating of Sousa's famous U.S. Field Artillery March." John Philip Sousa did not compose The Caissons Go Rolling Along;

Brigadier General Edmund Gruber did in 1908. In 1918, Sousa blatantly swiped it (he served in the Marines and the Navy, you know) and a copyright battle ensued.

In 1956, the Army, casting wide for an official song to do battle with Anchors Aweigh and The Marines Hymn, held a worldwide contest, and some real doozies were entered. When the dust settled, the Field Artillery had given up their tune to all the other Army branches, and, with new words by Dr. Harold Arberg, The Army Goes Rolling Along was adapted and adopted. It's still a touchy subject with the descendants of General Gruber and with all red-legged cannoneers—but Sousa's it's not.

MAJ. ALLEN C. CROWELL, JR.
Fort Myer, Va.

David Hall replies: Sousa's orchestral arrangement of Edmund L. Gruber's The Caissons Go Rolling Along (written by the latter, then a lieutenant, in 1908 for the Field Artillery in the Philippines) was published on January 22, 1918, with the military band arrangement following on February 26, 1918—in both instances without credit to Gruber.

The first authorized publication under Gruber's name appeared in 1921, and it was Sigmund Speth (on page 26 of A History of Popular Music in America, Random House, 1948) who was among the first to set the record straight, noting that Sousa had done his version for a New York Hippodrome benefit for Liberty Loan bonds. Perhaps the most detailed account of the misattribution is to be found on page 156 of James J. Field's The Book of World Famous Music (Crown Publishing Co., rev. ed. 1971).

A "noteworthy example of intelligent engineering," that "transcends the commonplace" and "is, simply, a great speaker system." We couldn't have said it better ourselves.

In our time, the vented, equalized Interface:A has received a small deluge of complimentary reviews from high fidelity magazines. Including the one you're reading.

1 The Stereo Review test, 3/74. "Interface:A can deliver a level of undistorted bass far superior to any other speaker its size we have tested."

2 The High Fidelity test, 2/74. "... unusually flat (plus or minus 1.4 dB from 63 Hz to 15 mHz) in the omnidirectional measurement."

3 The Stereo & Hi-Fi Times test, 4/75. "... clarity of the bass is most impressive."

The FM Guide test, 4/75. "... we measured sound pressure levels of 110 dB during the very loud passages... the systems handled such musical moments with ease."

The Sound test, 2/76. "The on-axis position results in an exceptional curve which is — by speaker standards — virtually flat from 100 Hz out to 20 kHz."

The reviewers are convinced. Maybe you should be too. We've published a book with these sparkling reviews reprinted in full. For a copy, write us or see your E-V dealer.

Interface:A
Electro-Voice, Inc. a Gulton company
616 Cecil St., Dept. 964F, Buchanan, Mich. 49107

CIRCLE NO. 26 ON READER SERVICE CARD
Most standard publications, including such recent ones as Julius Matfield's *Variety Music Cavalcade* (Prentice Hall, 1962) and James R. Smart's *discography The Sousa Band* (U.S. Gov't. Printing Office, 1970), as well as most recordings (it is correctly attributed on the jacket which gives the date of original release.)

And according to Sousa authority Paul E. Bierley, in his *John Philip Sousa* (University of Illinois Press, 1973), the song was thought to be old, perhaps of Civil War origin, at the time the March King adapted it for the 30th Field Artillery. The copyright battle (1942) did not involve Sousa, as Maj. Crowell's letter seems to imply, but two rival music publishers, and the court ruled that over thirty years of public use of the song without objection from the composer constituted "abandonment."

My opinion of the "updating" (by the U.S. Army Band's Col. Samuel R. Loboda) still stands, however. The misattribution of authorship is, I hope, understandable, given the situation in the standard reference works. I am grateful to have been prodded by Major Crowell into doing the back-checking which has made me a little smarter.

Wayward Wayfarer

* I was quite amazed to find in the July Best of the Month section that George Jellinek referred to "Dietrich Fischer-Dieskau's second recorded interpretation of Mahler's Wayfarer Songs." I presently have two recordings of these songs performed by Fischer-Dieskau in my collection, neither of which is Deutsche Grammophon 2530 630. If the latter is a new recording, it must be a third interpretation. (My recordings are Angel 35522 with the Philharmonia Orchestra under Wilhelm Furtwängler, and Deutsche Grammophon 2530 190 with the Bavarian Radio Orchestra under Rafael Kubelik. The latter was the final side of the Mahler Symphony No. 5 recording.)

Does Mr. Jellinek mean this is the second interpretation in stereo, the second under Maestro Kubelik, or what? Or is this, like the Martin work on the reverse of the new recording, a repressing of the earlier Fischer-Dieskau/Kubelik collaboration? The mono Angel recording should certainly not be discounted since, in my opinion, it is the finest, most sensitive interpretation of the Mahler Songs of a Wayfarer that has yet appeared on record.

R. W. SCHULTZ
Chicago, Ill.

Music Editor James Goodfriend replies: We apologize for the confusion. The performance of the Wayfarer Songs is the same one as was previously released on the final side of the Symphony No. 5 recording. Thus, both sides of this new record are reissues—but the only clue on the record is a miniscule copyright notice (P) on the jacket which gives the date of original release.

Simulcast

* Apropos "Music & TV" in June, all along I have noted (with Noel Coppelage) that video appeared to be self-sufficient even with indifferent sound—until I heard Van Cliburn and the New York Symphony Orchestra simulcast over Channel 13 and WQXR in New York. Stereo via FM did lend better quality to the concert, as proved when I observed that the efficiency of the Interface:B was relatively high for a small enclosure...

The High Fidelity test, 4/76. "The peak level sound produced (114 dB) bespeaks good dynamic range."

"...we found that fundamental bass tones remain audible to about 38 Hz. High frequencies are there up to about 17.5 kHz and are well dispersed, remaining audible to about 45 degrees of axis." It produces a well blended sound..." "It is capable of making a modest audio system rise to new heights—and, at quite an attractive price."

We've published a book with these excellent reviews reprinted in full. For a copy, write us or see your E-V dealer.

Interface: B™
Electro-Voice, Inc. a Gulton company
616 Cecil St., Dept. 964F, Buchanan, Mich.
49107
ESS amt-10b
Speaker System

The amt-10b is the latest ESS product in the bookshelf format to incorporate the Heil air-motion-transformer high-frequency driver. A two-way system with a crossover frequency of 1,500 Hz, it incorporates a 10-inch woofer with a cone fabricated of Bextrene, a compound of polystyrene and rubber. The Heil device, operating above 1,500 Hz, is a refinement of previous configurations; it has a narrower magnetic gap, thicker conductors, and shallower diaphragm pleats. The driver can be rotated 90 degrees within the enclosure to retain the same dispersion characteristics when the speaker system is mounted on its side.

The amt-10b has a ported enclosure designed to present a high acoustical resistance to the woofer. Frequency response is 50 to 22,000 Hz 3 dB. The dispersion of the Heil driver is 120 degrees in the lateral plane, 40 degrees in the vertical. Power-handling capability is 40 watts continuous program material, 350 watts peak. With a nominal impedance of 4 ohms, the system is said to provide a sound-pressure level of 82 dB at a distance of 15 feet with 1 watt of drive. A continuously variable control adjusts the output of the Heil driver over a wide range. The amt-10b is finished in walnut with a brown fabric grille. Dimensions: 24 x 14 x 14 inches. Price: $279.95.

Circle 115 on reader service card

Shure M24H
Phono Cartridge

The M24H employs a newly designed 0.3 mm tip intended to track at forces ranging from 1 to 1.5 grams. Very low effective stylus mass is said to result in tracking ability that almost equals that of the Shure V-15 Type III. The M24H also uses the laminated electromagnetic structure of the Type III to minimize signal loss. The output of the M24H is 3 millivolts per channel for a recorded velocity of 3.54 centimeters per second. Stereo separation is at least 22 dB at 1,000 Hz. The optimum load for CD-4 use is 80 dB, and spurious-response and image rejection are both 110 dB. AM suppression is 55 dB and i.f. rejection is 120 dB. The FM frequency response is 30 to 15,000 Hz ±1 dB, with stereo separation of at least 35 dB across that range. Distortion at 1,000 Hz is 0.2 per cent in mono and 0.35 per cent in stereo.

The RT-1024's front panel is equipped with heavy grab handles and is slotted for standard rack mounting. In the rear are 75- and 300-ohm antenna terminals and an AM ferrite-rod antenna, plus all necessary inputs and outputs, including connections for tape decks. The tuner's overall dimensions are 19 x 7 x 16 inches. Price: $569.95.

Circle 117 on reader service card
by Steve Tillack

I never thought I'd get sentimental over a mule, but if it wasn't for Sugar's cool head and sure foot, I wouldn't be here today.

This little adventure actually started when Pioneer began wondering what would happen if they designed an FM car stereo to high fidelity standards.

Well, they turned their engineers loose on the project and now, after two years of research and testing, the Supertuners are here. Four of them. With built-in cassette or 8-track.

They have a 1.8 dB capture ratio to grab elusive signals. 12 dBF useable sensitivity for less noise. Muting to cut out that garbage between stations. And a local/distance switch to pick up what you do want and block out what you don't want.

With something this special, you gotta dream up a special test. So we took a Supertuner to a place where reception is really rotten.

The Grand Canyon. Right on the rim, 65 miles from the nearest FM station, Supertuner sounded like it does in a showroom.

The other models we brought along were rattling off static and background noise. Even at 75 feet below the rim, Supertuner was still sounding great.

I can't give you test results for other spots along the trail because we ran into a blizzard with 50 mile-an-hour winds and I figured it was curtains for all of us.

Now I'm absolutely convinced of two things.

Supertuner by Pioneer is the best line of car radios ever built.

And a sure-footed mule is man's best friend.
We build products with state-of-the-art specifications. But we don't stop there. Specifications are important to us, but equally vital is the achievement of obviously audible improvements in the reproduction of music with every separate component we make. This is the driving force behind Phase Linear, the single-minded philosophy that has produced so many innovative features, advanced circuitry and ultimately, products with more dynamic range and bigger, more lifelike sound than any comparably priced components available on the market today. Our Research Department, headed by Robert Carver, is staffed by imaginative design engineers deeply concerned with the entire spectrum of musical reproduction. Many more new products are in the wings; in the meantime, we invite you to review the present Phase Linear line and read what the critics have said. Then ask your dealer for a demonstration, and draw your own conclusions.

The Phase Linear 700B Stereo Amplifier
Has established performance and power standards unequalled by any other amplifier on the market...regardless of price.
"The lowest distortion, in spite of its enormous power capability, was on the Phase Linear 700," Hirsch-Houck Labs in STEREO REVIEW.
"Hum and noise figures were also well below anything we have encountered before." C. G. McProud in AUDIO.
"...in terms of sheer power it is the most impressive we have tested." HIGH FIDELITY.

The Phase Linear 400 Stereo Amplifier
Hailed internationally as the undisputed "best buy" among all the "super amps" available today.
"We were utterly flabbergasted when we discovered the amplifier, which sounded dramatically cleaner and more revealing, turned out to be, when we removed our blindfold status, the Phase 400...No other amplifier...ever even tied the Phase 400 for naturalness, clarity, and lack of distortion." SOUND ADVICE, 225 Kearny St., San Francisco.
"...a superb amplifier, furnishing the essential qualities of the Model 700 at a much lower price." Hirsch-Houck Labs in STEREO REVIEW.
"Harmonic distortion proved to be almost unmeasurable on this amplifier." STEREO & HI-FI TIMES.

The Phase Linear 200 Stereo Amplifier
The newest addition to our amplifier line incorporates all we have learned to date about power amplifier design. The 200 has not been reviewed, but with its advanced LED metering system, sophisticated protection circuits and excellent performance specifications, we are optimistic.

The Phase Linear 4000 Stereo Preamplifier
The model 4000 illustrates our philosophy of delivering far more than state-of-the-art specifications. It offers revolutionary features that make music sound better by providing greater dynamic range and a quiet background.
"...a combination of noise reduction and dynamic-range-expansion circuits whose sophistication far surpasses anything previously available on the audio consumer level...even without the assistance of its special noise reducing systems, it would rank as one of the quietest units we have ever encountered...makes any program played through it sound better than through any other preamplifier we have ever used...a most impressive technical achievement." Hirsch-Houck Labs in STEREO REVIEW.

The Phase Linear 2000 Stereo Preamplifier
Beyond efficient handling characteristics and excellent specifications, the 2000 is capable of reproducing more of the music on your recordings. Its ability to reproduce ambient signals is a function found on no other preamplifier.
"Super in the listening as it is smooth in the handling...The extra flexibility in the tone controls delivers worthwhile options. We find the ambience recovery feature a decided plus." HIGH FIDELITY.

The Phase Linear 1000
A noise reduction and dynamic-range-expansion system designed to eliminate noise from all sources (records, tapes, FM, etc.) and restore the music we hear at home to its original dynamic range.
"...for any already top-quality music system, we doubt a $350 expenditure in any other component could match the audible improvement made possible by the Phase Linear 1000" Hirsch-Houck Labs in STEREO REVIEW.
"In theory, the circuit (AutoCorrelator) can make the distinction and reduce the level of the noise component while reproducing the signal component unaltered. In practice, its ability to do so is far from absolute, yet audibly greater (to my ears) from that of any other noise-remover on the market." Robert Long, in HIGH FIDELITY.

To be released soon-
The Phase Linear 5000 FM Tuner
Loaded with innovations, the 5000 will feature circuitry capable of increasing the dynamic range of broadcast signals up to 9 dB! It will do more than just reproduce a mediocre broadcast perfectly; it will make FM signals sound virtually as good as recorded signals. This feature alone makes the Phase Linear 5000 FM Tuner worth waiting for!

Phase Linear Corporation, 20121 48th Avenue West, Lynnwood, Washington, 98036. Manufactured in the U.S.A., Distributed in Canada by H. Roy Gray, Ltd.
Sansui Model 9090 AM/Stereo FM Receiver

One of the leading models in Sansui's line of high-power receivers, the 9090 is rated for a continuous power output of 110 watts per channel into 8 ohms, 20 to 20,000 Hz, with no measurable harmonic or inter-modulation distortion. Hum and noise are 80 dB below rated output for the high-level inputs, 70 dB below rated output for the phono inputs. Frequency response at 1 watt output is 10 to 30,000 Hz ±1 dB, while the frequency response of the phono section matches the RIAA characteristic within ±0.5 dB from 30 to 15,000 Hz.

In FM performance, the 9090 has a usable sensitivity of 1.7 microvolts and a 50-dB quieting sensitivity of 3 microvolts. The ultimate signal-to-noise ratio in mono exceeds 70 dB. Capture ratio is better than 1.5 dB, alternate-channel selectivity better than 85 dB, and image, i.f., and spurious-response rejection exceeds 75, 100, and 90 dB, respectively. The frequency response of the FM section is 30 to 15,000 Hz ±0.5 to -2 dB, and stereo separation is over 40 dB at 1,000 Hz.

The major controls of the Sansui 9090 are volume and balance (concentrically mounted) and tone controls, of which there are three: bass, treble, and mid-range. The mid-range control has a range of ±5 dB centered at 1,500 Hz, while the bass and treble controls can be switched to take effect at 300 or 150 Hz (bass) and 1,500 or 3,000 Hz (treble). The controls can also be separately switched out of the circuit. A selector performs tape-monitor switching for two tape decks and also facilitates dubbing from either one to the other. The source selector has positions for phono, auxiliary high-level source, AM, FM, and ...Dolby FM Adaptor,... which enables a B-type Dolby processor connected to the appropriate rear-panel jacks of the 9090 to act on incoming Dolby-encoded FM signals. This selector position introduces the correct 25-microsecond de-emphasis for Dolby-encoded broadcasts. The receiver also accepts a microphone input via a front-panel phone jack; an adjacent level control enables the microphone signal to be mixed in with whatever program the receiver is handling. Finally, there are switches for loudness compensation and mono/stereo mode, two stereo-headphone jacks, and a speaker selector that chooses between three pairs of speakers (individual or in combinations of two) or silences all speakers for headphone listening.

In the tuning-dial area of the 9090 are push-buttons for low- and high-frequency filters, audio muting for brief listening interruptions, an optional external signal processor (Dolby unit, equalizer, or four-channel adapter), FM interstation-noise muting, and high-frequency blend for stereo FM. A final button converts the signal-strength tuning meter into a multipath indicator. There are also meters for FM channel center and for audio output; they are calibrated in watts (referred to an 8-ohm speaker load) for each channel. To protect loudspeakers from turn-on surges and amplifier failure there is an audio-output relay. When this acts to disconnect the speakers, a light-emitting diode indicator beneath the tuning path indicator. There are also meters for FM channel center and for audio output; they are calibrated in watts (referred to an 8-ohm speaker load) for each channel. To protect loudspeakers from turn-on surges and amplifier failure there is an audio-output relay. When this acts to disconnect the speakers, a light-emitting diode indicator beneath the tuning meter flashes off and on. The dimensions of the Sansui 9090 are about 21 1/4 x 7 1/4 x 15 3/4 inches. Approximate price: $750.

Rectilinear 2 Speaker System

The new Rectilinear 2 extends the company's Contemporary Laboratory Series to three models, of which the 2 is the smallest. It is a two-way system, incorporating a 10-inch air-suspension woofer and two 1 1/2-inch cone tweeters, which has a nominal impedance of 8 ohms and a resonance of 45 Hz. As with the other systems in this series, no crossover networks as such are employed in the Model 2. The woofer is permitted to operate right up to its natural rolloff point somewhat above 2,500 Hz. A high-pass filter serves to restrict the tweeters to frequencies above 2,500 Hz.

Frequency response of the Rectilinear 2 is 35 to 18,000 Hz ±3 dB. The minimum power requirement of the speaker is 20 watts continuous, but it can be used with amplifiers capable of continuous outputs up to 100 watts per channel. The system is fused to protect the drivers. The cabinet has dimensions of 23 1/2 x 13 x 12 inches. It is constructed of high-density fiber material and finished in walnut-simulating plastic. The grille is of black acoustically transparent cloth. Price: $139.

Radio Guide to Classical Music

Musica is a paperback publication that attempts to list all the AM and FM radio stations in the continental U.S. that regularly program classical music. The listings are alphabetical by state and city or town. They include the call letters and broadcast frequencies of the stations, the days and times of regularly scheduled broadcasts, and usually some indication of the coverage radius of the stations in miles. An expanded edition of Musica with more than 750 listings is now available postpaid for $3 from: Musica, Box 1266 (r), Edison, New Jersey 08817.

Publisher's Notice: Recent fluctuations in the value of the dollar will have an effect on the price of merchandise imported into this country. So, please be aware that the prices quoted in this issue may be subject to change.
INNER BEAUTY
Brilliant new engineering for a bright new sound:
KENWOOD RECEIVERS FOR '76

KENWOOD introduces an all-new receiver line for '76—six high performance new models, created in the KENWOOD tradition of engineering excellence. The beauty of original-performance reproduction starts deep inside each new model. Big new power ratings enhance performance right down the line, but power alone is not the whole story. KENWOOD engineers have carefully concentrated on total performance, with a host of technical refinements. Direct-coupled output stages with pure complementary symmetry for better bass response and crisp transient response. New distortion-cutting circuitry in the all-important preamp for increased signal-to-noise ratio. Advanced new tuner design for greater sensitivity, better capture ratio, and full stereo separation throughout the frequency range. Plus KENWOOD's new uncluttered internal layout that minimizes wiring to maintain optimum signal-to-noise performance. Six new receivers—with an inner beauty all their own—are waiting for you at your nearest KENWOOD Dealer.
This is about as simply and as clearly as we can describe this latest achievement by Dual engineers. We could also describe the CS721 as the ultimate expression of the principles that determine the performance of tonearms and drive systems in record playback.

The tonearm is straight-line tubular from pivot to tonearm head, for lowest effective mass and greatest rigidity. It is centered within a true, four-point gimbal in which the tonearm mass is at the intersection of both axes. This ensures dynamic balance throughout play, and turntable level is not critical.

The new Dual CS721. It represents everything Dual has learned about turntables.

Every initial tonearm setting has a special touch of precision. Stylus overhang is adjustable for optimum horizontal tracking angle. Balance is vernier-adjustable. Stylus force is applied around the vertical pivot and remains perpendicular to the record even if the turntable is not level. Antiskating is calibrated separately for all three stylus types and is self-compensating for groove diameter.

In addition to these refinements, the CS721 tonearm has an innovation to be found on no other integrated tonearm: Vertical Tonearm Control. A vernier height adjustment over an 8mm range allows this tonearm to parallel the record with cartridges of any depth and without the use of spacers. Thus, accurate vertical tracking is assured and the effective mass of the tonearm is kept at a minimum. Another benefit: changing cartridges is much easier.

The CS721 direct-drive system is the most advanced today for record playback. It features all electronic, low speed, brushless, DC motor with Hall-effect feedback control and a regulated power supply. The motor's field coil design is unique. Two overlapping coil layers, each with eight coreless bifilar-wound coils, achieve a gapless rotating magnetic field. This eliminates the successive pulses of magnetic flux typical of all other motor designs.

Although the CS721 is Dual's most expensive model, it is hardly the most expensive turntable available today. When you make comparisons, as we believe you should, you may even consider the CS721 underpriced. Not to mention the even less expensive direct-drive CS704, with the same tonearm and drive system but with semi-automatic start and stop.

With either model, you will enjoy the advanced precision performance of the quietest turntable ever made.

United Audio Products
120 So. Columbus Ave., Mt. Vernon, NY 10553
Exclusive U.S. Distribution Agency for Dual
True, four-point gimbal centers and pivots the tonearm mass at intersect of horizontal and vertical axes. Tonearm is dynamically balanced in all planes. The four needle points pivots are first hardened, then honed, a process which produces microscopically smooth surfaces.

Cueing descent speed can be set from slow to rapid, and tonearm cueing height is adjustable. Result: complete control of stylus set-down via cue-control.

Vertical Tonearm Control sets and locks tonearm height at any point over a 6mm range. Tonearm thus exactly parallels the record with any size cartridge. Result: accurate vertical tracking with the added mass of cartridge spacers.

Straight-line tubular tonearm provides maximum torsional rigidity and lowest effective mass. With the same effective tonearm length and tangential tracking error any other shape must either sacrifice rigidity or increase mass.

The unique counterbalance contains two mechanical anti-resonance filters. These are separately tuned to absorb energy in the resonance-frequency ranges of the tonearm/cartridge system and chassis to minimize acoustical feedback.

Cueing descent speed can be set from slow to rapid, and tonearm cueing height is adjustable. Result: complete control of stylus set-down via cue-control.

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Richard three-point suspension locks cartridge holder to tonearm head in identical position each time it is removed and replaced. Together with adjustable stylus overhang, this assures that correct vertical and horizontal tracking angle will be maintained.

Stylus pressure is applied via a long coiled spring centered around the vertical pivot. Pressure is always maintained perpendicular to the track even if the turntable is not level.

The Dual CS721: fully automatic, single-play turntable with an electronic, direct-drive motor. Features include Vertical Tonearm Control; variable cue-control lift height and descent speed; 10% electronic pitch-control for both speeds (33⅓ and 45 rpm); illuminated strobe; dynamically-balanced 12" platter; cue-control viscously-damped in both directions; continuous-repeat.

Price: less than $400, including base and dust cover. Dual CS710: similar, except semi-automatic. Ingenious mechanical sensor locates lead-in groove of 12" and 7" records; tonearm lifts and motor shuts off automatically at end of play. Less than $310, including base and dust cover.

CIRCLE NO. 50 ON READER SERVICE CARD
Audio Q. and A.

By Larry Klein

Disco Speaker Burnout

Q. I've been involved in setting up a disco-theque sound system and have run into a weird problem. I'm using six speakers per channel, each rated to withstand 50 watts continuous power and perhaps five or six times that much "integrated program" material. These are fed by a 150-watt-per-channel power amplifier driven by my disco mixer. My problem is speaker burnout. I don't understand why this happens, since each speaker, even under the loudest playing conditions, should be getting no more than about 25 watts.

RICHARD SHANE
Portland, Ore.

A. Would you believe that your difficulties probably arise from too little amplifier power rather than too much? Given the practices of most discos, I suspect that your amplifier is being run at its clipping level most of the time. And when driven really heavily, any amplifier's output probably resembles a series of square waves more than the original jagged musical waveform. (Such clipping is shown on the left side of the accompanying scope photo, normal unclipped waveforms are visible on the right.) This has two consequences, apart from the audible distortion incurred. First, the power delivered by a clipped sine wave can be significantly higher than that of a pure sine wave of the same amplitude. The effective voltage of a sine wave is 0.707 of its peak voltage (as shown in the accompanying drawing) while the effective and peak voltages of a square wave are exactly the same. The effective voltage does the work and provides the basis for a power measurement. The 120 volts a.c. available from the wall socket is the effective (not peak) voltage of the 60-Hz waveform. Insofar as the audio waveform is "hard clipped" or substantially overdriven, it begins to resemble a square wave, and its power content changes. A perfect sine wave representing, say, 30 watts of power applied to the speaker, if converted into a perfect square wave of the same amplitude, would present 100 watts to the speaker. Of course, in conventional music we seldom encounter a perfect sine wave and never produce a perfect square wave however hard the amplifier is clipped. But the relationships discussed are valid. Oddly enough, you don't particularly hear the extra power produced by clipping, except possibly as distortion, since the actual amplitude of the signal is not, in fact, higher.

Aside from its potential for pushing the amplifier into delivering excessive power into your speakers, the clipping has additional potential for making trouble. If you have ever compared the sound of a lower-frequency square wave and a sine wave, you'll hear a harsh buzzy quality in the square wave. The buzz is the sound of all those additional high-order odd harmonics that give the square wave its shape. Say you clip a 1,000-Hz sine wave. It now is putting out very strong signals at 3,000, 5,000, 7,000, 9,000 Hz—and higher. The odds are that your tweeters are going to run into trouble since, in addition to their normal musical load, they also must cope with large amounts of spurious energy produced by the clipping. So you not only have more power than you want fed to your speakers, but a lot of it is applied right in the area where they are most prone to overload damage.

How does switching to a higher-power amplifier help? The main thing is that the clipping is avoided. Since the waveform now has a reasonable ratio of high to low amplitudes (as shown on the right side of the scope photo), the amplifier can paradoxically play louder (and cleaner) while providing a lower long-term-average amount of power to your speakers. To put it another way, your speakers will "run cooler," even though the amplifier may be driving them to a louder level than before.

Incidentally, my answer is not based simply on theory. A friend who does disco installations has told me that he solved several chronic burnout problems by replacing the original amplifiers with units that had double the power available.

Magnetic Speaker Fluid

Q. I've been hearing rumors about a performance-enhancing magnetic fluid that is used in some new speakers. Does it exist, how does it work, and how does it help loudspeaker performance?

TERRY O'KANE
Detroit, Mich.

A. Yes it exists, and several companies are producing the substance, under various names, the most common of which is ferrofluid. For quite some time speaker manufacturers have been using silicone grease in voice-coil gaps. Its purpose is to facilitate the transfer of heat from the voice coil to the surrounding metal parts to enhance the unit's power-handling capability. (Silicone grease is used in mounting power transistors for the same reason.) Someone apparently had the bright idea of floating magnetic particles in a similar substance, which would not only provide heat transfer, but might also act to concentrate the available magnetic flux right where it is needed. Although sensitivity was improved by only a decibel or so, the magnetic fluid does serve to stabilize voice-coil behavior in that it damps the resonances of the voice-coil assembly and, oddly enough, helps keep it centered. It seems that the fluid offers far more resistance to radial (side) movement than to edge-on axial movement. As a matter of fact, the magnetic fluid was so effective in keeping a voice coil in axial alignment that at least one manufacturer found that he could eliminate the usual voice-coil support (the spinder) in the cone mid-range and tweeter drivers produced by his company. So, although the magnetic fluid did not bring about the expected large improvement in sensitivity, its other advantages appear to be substantial enough that more and more manufacturers will probably be using it over the next few years.

Sine-wave amplitude B represents the maximum clean power available from a given amplifier. If driven beyond its rated power into clipping, the square-off waveform defined by the shadowed areas (C) results. Substantial additional power would be delivered to the speakers because of the higher effective-voltage level and also because the clipping results in compression of the dynamic range. If adequate power were available from the amplifier (it would have to be almost quadrupled in the example shown), the waveform, instead of being clipped, would have amplitude A plus B. High power provides headroom for peaks.

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22
I didn’t always smoke Winston Longs.

I was looking for a longer cigarette. But I also wanted taste. Only Winston Longs give me both. Winston Longs have the length I like, and all the real taste I want. If a cigarette doesn’t have taste, it doesn’t have anything. For me, Winston Longs are for real.

The Technics SA-5760. More power and less distortion than any other receiver in the world at rated power. And that's just for starters.

The SA-5760 also has the reserve power you need to float through complex musical passages without distortion, clipping or instability. Because we use single-packaged dual transistors in the differential amplifier stage of each channel. Along with high capacitance filtering and a bridged rectifier. There's also direct coupling and heavy power supply regulation. So transient bursts in one channel remain isolated from the other.

And you'll hear your records precisely the way they were recorded. Thanks to "current mirror loading"—a radically new circuit found in the SA-5760's phono pre-amp. The results are an unsurpassed S/N ratio of 78dB. And a frequency response that's accurate to within ±0.2 dB of the ideal RIAA curve.

On FM, the signal being broadcast will be the signal you'll hear because we use flat group delay filters in the SA-5760's tuner section. As well as a Phase Locked Loop IC. So you'll also receive 38dB of stereo separation at 10kHz and 45dB at 1kHz. As well as inaudible distortion and a frequency response that actually exceeds the response of FM broadcasts.

The SA-5760's controls are as sophisticated as its circuitry. Like a 26-step true attenuator click-stop volume control. Negative feedback tone controls with turnover selector. Two-way tape-to-tape dubbing. A truly linear signal-strength tuning meter for AM and FM that works the way other meters don't: accurately. And all the other refinements you'd expect from the world's most powerful receiver.

And to complement the SA-5760, Technics has five other new stereo receivers. All with excellent power. Outstanding performance. Sophisticated circuitry. And all at a good price. The concept is simple. The execution is precise. The performance is outstanding. The name is Technics.

Technics by Panasonic
Audio Basics

By Ralph Hodges

GLOSSARY OF TECHNICAL TERMS—28

- **Power bandwidth**, up until a short time ago, was defined by the Institute of High Fidelity as the frequency range (or band) over which an amplifier could deliver at least one half its rated power output without exceeding its rated distortion. The rated power output was customarily based on a measurement made at 1,000 Hz—a frequency at which most audio amplifiers are capable of their greatest output. With the recent (1975) promulgation of the FTC rule on amplifier-power advertising, power bandwidth was redefined to mean the frequency range over which full rated power is available and made a required part of any amplifier-power specification.

- **Power-handling capacity**, a term usually used in reference to speaker systems or headphones, rates these devices for the maximum electrical signal input they can tolerate before distortion or even damage occurs. A typical power-handling specification might read "100 watts program material, 40 watts continuous," reflecting the fact that short-duration high-power peaks (typical of program material) can be withstood better than continuous signals lasting an appreciable amount of time. A truly complete power-handling specification would indicate the maximum time periods over which various power levels can be tolerated as well as the frequencies of the signals, since the various drivers in a speaker system will almost always have different power-handling capabilities.

Many people interpret power-handling capacity as an indication of the largest amplifier that can be used with a given speaker system. In fact, however, amplifiers capable of several times the speaker's rating can usually be used safely as long as excessive sound levels are avoided and the speaker is fused according to the manufacturer's instructions.

- **Power response**, when used in connection with amplifiers, is essentially equivalent to **power bandwidth**. When used in reference to speaker systems, it means the uniformity (or lack of same) of the system's total sound-power output (in all directions) over its usable frequency range. (This is in contrast to frequency response, which is a measure of sound-pressure uniformity with frequency, usually at some specific angle from the speaker system.)

Many authorities believe the power response of a speaker system is a much better indicator of the way it will sound in a normal room than the on-axis frequency response. This is because the speaker will typically be operated in an acoustically reflective environment that will ultimately cause its total integrated output to impinge on the listener, rather than just the energy that is radiated straight ahead or in any other single direction. When it appears in manufacturers' literature (which is rarely), a power-response specification takes the general form as frequency response: 20 to 20,000 Hz, ±3 dB, for example.

- **Power supply** is the part of an amplifier or other electronic component that provides the d.c. voltages required for the component to operate. The usual power supply consists of a power transformer, a rectifier, and several filter capacitors (the British call them "smoothing" and "reservoir" capacitors, which is somewhat more descriptive of their function), plus some resistors and possibly some regulating circuits. In an amplifier intended to drive loudspeakers the power supply is usually responsible for a significant fraction of the unit's weight, and its capacity and other characteristics will have a large influence on power-output capability.

- **Preamplifier**, as a separate audio component, functions essentially as a control center for an audio system as well as a gain and equalization amplifier for a magnetic phono cartridge. It's usual internal make-up consists of the phono-input stage (necessary to equalize the output of the cartridge and boost it to a level comparable to that of other components such as tuners and tape decks), a tone-control and filter section, and an output stage. On its front panel are found volume, balance, and tone controls, switching for input selection, tape monitoring, high- and low-frequency filters, and other features such as loudness compensation, audio muting, etc. In order to drive loudspeakers, a preamplifier must be used with a separate power amplifier, which may have few controls of its own or none.

The phono-input and control stages of integrated amplifiers and receivers are also properly referred to as preamplifier sections, as are the recording and playback amplifiers in tape decks.

- **Pre-echo** is the name for that faint, mysterious wisp of music that sometimes precedes the start of the actual music on a disc, by about half a second. Pre-echo is generally thought to occur during the cutting of a disc, when the stresses set up by the inscribing of the first modulated groove work their way back through the lacquer material to lightly modulate the previously "silent" groove. Increasing the spaces between grooves usually serves to diminish or eliminate pre-echo.

- **Pre-emphasis** is another name for the *equalization* applied to a signal to be recorded or broadcast in order to improve the ultimate signal-to-noise ratio. Pre-emphasis is most frequently used to refer to FM-radio equalization, in which case pre-emphasis is the high-frequency boost the audio signal undergoes just before being broadcast by the station. On the receiving end, the tuner incorporates de-emphasis circuits that restore the original frequency balance and simultaneously reduce any noise that has intruded during transmission.

For many years FM in the U.S. has had an FCC-mandated pre-emphasis characteristic, usually specified by its time constant of 75 microseconds. However, shortly after the beginning of Dolby FM broadcasts the FCC permitted the use of the less extreme pre-emphasis characteristic of 25 microseconds provided by an FM Dolby encoder and used by those stations broadcasting a Dolbyized FM signal. The new characteristic recognized that the Dolby system's noise reduction would eliminate much of the original need for pre-emphasis, and at the same time it permitted Dolby stations to use a wider dynamic range and/or a higher overall modulation level in their broadcasts. The pre-emphasis also eliminated most of the audible effects of Dolby's high-frequency boost. The new characteristic requires a corresponding 25-microsecond de-emphasis circuit at the receiver—but only if you wish to use Dolby decoding. A 75–25 microsecond switch is being built into many modern tuners and receivers.

- **Printed circuits**, which began appearing in audio electronics during the 1950's, have greatly reduced the cost and complexity of equipment manufacture. The typical printed circuit is a thin phenolic or fiberglass board with the electronic circuit etched on one side in the form of a metal-foil pattern. The leads of resistors, capacitors, and other circuit elements are inserted (from the opposite side) into tiny holes that pass through the board and are soldered to the appropriate places on the foil pattern, eliminating the need for tedious point-to-point connections with hook-up wire.

While less than ideal for vacuum-tube designs, printed circuits have come into their own with transistors, since the tiny transistors are usually soldered directly to the board as if they were resistors or capacitors. The boards are frequently called "cards" when they have a row of contact areas that enable them to be plugged into a special type of socket.

- **Psychoacoustics** is a broad term for the study of acoustic phenomena as they are perceived by human beings rather than by laboratory instruments. It concerns itself with a wide and ever-expanding range of topics, including the perception of pitch, loudness, and direction, the sense of acoustic space, the effects of phase, and to some extent the physiology of the human hearing apparatus.
How much

Sansui

5050

6060
power
do you really need?
Power is, of course, one of the most important characteristics in the quality of a receiver. But it is only one of them. There is also the tuner section which should offer especially high sensitivity and selectivity, and a great stereo separation. And the Sansui 9090 does: sensitivity of 9.8 dBf (1.7 µV); selectivity of better than 85dB; stereo separation of better than 40 dB at 1 kHz, and also a wide linear dial for both AM and FM tuning. Equally important are the capabilities and features of the pre-amplifier and control sections. Such as; triple tone controls, extremely accurate RIAA phono pre-amplifier with wide overload capability, many versatile inputs and outputs, microphone mixing control for blending mic signals with any other source, tone defeat switch, capability of handling three speaker systems, a 7-position tape copy switch, and a Dolby® 25 µsec de-emphasis. Of all receivers available today only in the Sansui 9090 and 8080 will you find all of these desirable elements.

And when you select a receiver, look for well-designed protection circuits to protect your amplifier and speakers, and a solidly designed power supply capable of continually delivering the total power, undistorted. With the Sansui 9090, which delivers an ample 110 watts per channel into 8 ohms, min. RMS, from 20 Hz to 20 kHz with no more than 0.2 percent THD, you get both of these. The 9090, 8080 and 7070 also feature twin power meters for monitoring output, which few other manufacturers offer.

The other models in this outstanding new line of stereo receivers share many of the same fine characteristics as the top of the line models.

So remember. Your receiver is the heart of your high fidelity system. If you listen to a 9090 or any one of the fine receivers in this Sansui series, you will quickly know that you are listening to the best receivers available today.

Go to your nearest franchised Sansui dealer today. He will make certain that you buy the receiver that matches your needs, your likes, and your budget. Sansui has the answer.

*Approximate nationally advertised value. The actual retail price will be set by the individual dealer at his option.
is it worth to you?
In my last column I pointed out that only those magnetized oxide particles that lie close to the tape surface facing the head can contribute significantly to the playback of very-high-frequency ("short-wavelength") signals. By contrast, the low-frequency (long-wavelength) signals employ the whole thickness of the oxide layer. One of the obvious consequences of this fact is that it gives support (at least in theory) to the concept of "dual-coated" tape, in which a very thin outer layer of magnetic material (say, CrO₂) especially suited to short-wavelength signals is laid over a much thicker layer whose conventional magnetic material is more responsive to relatively long wavelengths. Another consequence is more related to this continuing survey of just how recorders work, however, for it has to do with the difference in requirements (for optimum performance) between record and playback heads.

We have seen that for playback applications the overriding design objective must be to keep the head’s gap length very short (narrow)—specifically, less than half the wavelength of the highest frequency of interest. In practical terms, this requirement is met for 7½-ips operation by a playback head whose gap length is in the order of 100 microinches, for at this speed the signal wavelength of even a 20,000-Hz tone is moderately long: 375 microinches. For cassettes, whose slower speed makes the wavelength of a 15,000-Hz tone only 125 microinches, a playback head gap of less than 50 microinches is indicated.

When a head is to be used for recording, however, the design objective changes. Recording takes place at (or, to be more accurate, slightly beyond) the trailing edge of the head’s pole structure, so the relationship between signal wavelength and gap length becomes irrelevant. What is important in this application is the head’s ability to direct the magnetic flux generated within it out into the tape’s oxide layer. The magnetic lines of force that simply flow across the space between the two pole pieces and never get into the tape (which is what happens when the poles are very close to each other) are mostly wasted. To be useful, the gap in the head core must constitute a kind of transfer zone in which the magnetic energy can flow outward from one pole piece, through the tape’s oxide layer (where it magnetizes the particles), and then back through the other pole piece, completing the circuit.

With conventional head construction it has been found that a record head can penetrate a depth of oxide roughly equivalent to its gap length. It may push just a bit deeper, but it is not wise to count on more than about one and a half times the gap length. To put some practical figures to this, we can begin by noting that open-reel tape usually has an oxide coating whose thickness is about 500 microinches. Good "record-only" heads have 500-microinch gaps; indeed, in some laboratory and professional recorders 700- or even 1,000-microinch gaps are employed. Cassette tape is coated to a typical thickness of about 200 microinches, and where a cassette deck offers a separate record head it is likely to have a gap something like 200 microinches (5 microns).

A single record-playback head, then, represents a compromise. For cassettes the usual length is 60 to 80 microinches, which is long enough to adversely affect playback of the very high frequencies, but not long enough to put as much signal onto the tape as it can accept.

There are electrical and physical things that can be done to cause narrow-gap record heads to provide a field that will penetrate the tape-oxide to a greater depth. But to date such special heads have appeared in only a few models. These may be more common in the next generation of machines.
The TL-3 won’t replace your speaker systems, but it will give them some rest.

If you’re a typical music lover, you’ve invested several hundreds of dollars—perhaps thousands—in your component system. Plus a lot of time and thought. But you can’t always use that system at its best.

**Some speaker problems solved by headphones**

Not everyone in the house wants to hear what you want to hear. Or when. Or that loud. So from time to time, you miss the impact of the full dynamic range that only high level listening can achieve.

Even when you’re alone, you may not always be satisfied. The room acoustics may be tricky, or the seating arrangement not quite right for critical listening.

If you recognize any of these situations, chances are you’ve been doing all your listening via speakers. Which means you’ve never experienced headphones at their best.

**Provide unique listening experiences**

Headphones do more than merely solve some speaker problems. They provide a unique listening experience of their own. They bring you into more intimate contact with the music. They achieve wider frequency response, with more brilliant highs. In fact, some experienced audiophiles believe that headphones come closer to the ideal than speakers.

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**The TL-3 wins most auditions**

If we’ve stimulated or rekindled your interest in headphones, keep these thoughts in mind the next time you visit your audio dealer. When you’re there, you should audition our lightweight trans-linear TL-3. Rather than attempt to describe the “shimmering highs” and “thundering bass” achieved by its Mylar* driver, we’ll just mention what most music lovers (including audio specialists) have experienced with this remarkable phone. When they compare it with any other phone, at any price, they prefer the TL-3.

They like its sound, especially its full bass response. They like its foam-cushion comfort. And its modest price ($40) is a pleasant surprise. It’s very little to pay for so much additional pleasure that your speakers alone can never give you.

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Superex Products with a Difference
151 Ludlow St., Yonkers, N.Y. 10705
In Canada: Paco Electronics Ltd., Montreal

* Mnyar is a registered DuPont trademark
Sony's new, more powerful STR-6800SD receiver should get a warm reception. Because it not only looks different from other receivers, it is different.

It has some features found in more expensive separate components—and other features found nowhere else at all.

1. The most-used controls all in one place. Electronically, it would have been convenient for us to scatter the level control, tuning knob and input and tape selectors all over our receiver. Instead we grouped them in the upper right-hand corner so they're convenient for you.

2. A dial pointer that doubles in length when it's close to a station. Together with the signal strength meter and the center channel meter, this Sony innovation constitutes a system that helps you tune faster and more accurately.

3. A muting switch—great if the phone rings. Flick it down and volume drops. Flick it back up and volume goes back up to where it was. And this muting switch is right where it should be—right next to the level control.

4. A stepped level control to keep both channels equal. It guarantees unprecedented accuracy—to within 1/2 db instead of 1 db. And it guarantees it over the whole volume range instead of just in mid-volume.

5. MOS FET front end electronics unitized tuning. The 4-gang tuning section and all its associated electronic parts are mounted on one sub-assembly. So temperature differences don't affect these circuits—the receiver tunes the same whether it's cold or warmed up. And, with MOS-FET, the receiver has a very wide dynamic range.

6. Dolby noise reduction system. As more and more stations broadcast in Dolby, you can really use a Dolby system. And ours has a definite advantage: instead of being an optional extra, it's built in—operated from the front panel.

7. Phase locked loop. It gives you greater stereo separation and less distortion.

10 sound reasons to buy our new receiver. Plus its sound.
8. **LEC (low emitter concentration) transistor.** This piece of advanced design in the preamp phono stage assures you tight RIAA equalization plus low noise, low distortion and a wide dynamic range. It’s a Sony exclusive.

9. **An acoustic compensator for easy control of highs, lows and middles.** A conventional loudness control only lets you boost bass. Our acoustic compensator has three positions: For true loudness compensation, for bass boost and for mic-range presence.

10. **Sony’s most powerful receiver.** It delivers 80 watts minimum RMS continuous power per channel at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.15% total harmonic distortion. It has a direct-coupled power amplifier with true complementary symmetry output stages.

And more. To these specifications (remember we state them conservatively), add Sony’s proven reliability. And you get a receiver that produces a sound that’ll make you understand why you have ears.

That’s the STR-6800SC at $600. Or, for less power and a few less features—but no loss of fidelity—the STR-5800SD at $500 and the STR-4800SC at $400 (all suggested retail prices). A sound investment.
SPECTRUM ANALYSIS: The spectrum analyzer, relatively unknown to the audio world a few years ago, has now become almost a household word—at least in households like mine. It is an instrument that measures the distribution and strength of individual signal or noise-energy frequencies over a given range—in this case the audio-frequency band or a fraction of it. The results of the analysis are usually displayed on a screen of the oscilloscope type, with the horizontal axis corresponding to frequency and the vertical axis to amplitude or level. The frequency band is scanned automatically and usually repeatedly.

In audio work, the so-called “real-time” analyzer has been widely used for determining the frequency response of auditoriums and studios since it responds almost instantaneously to signal inputs at any frequency in its operating range and gives a constant indication of the changes in spectral distribution as they are adjusted by the equalizer. However, its very fast response, paradoxically, makes it useless for precise, detailed measurement of complex signals. This is the result of a fundamental “trade-off” between scanning rate and frequency resolution, or the ability to separate and examine signals of nearly the same frequency. In order to cover the ten octaves or so of the audible frequency range at reasonable cost, the resolution of a real-time analyzer is limited to 1/3 or, at best, 1/10 octave (some very sophisticated instruments, using computer techniques, can get around this limitation, but their high cost rules them out for most audio applications).

The types of measurements usually made on audio-system components require a high-resolution analyzer, which must be of the “scanning” type. Instead of “looking” at all frequencies simultaneously, it examines only a very narrow band of frequencies at any given time, covering a wide range by slowly scanning through it. The key word is “slowly,” since very highly resolved measurements, able to separate frequency intervals as narrow as 1 Hz, may take many minutes. However, when set up to sacrifice resolution, a scanning analyzer can cover the entire audio range in a second or so, giving a display that approximates that of a real-time analyzer.

We have recently added a Hewlett-Packard 3580A, one of the most advanced scanning low-frequency spectrum analyzers, to the Hirsch-Houck Laboratories’ test facilities. As it is applied to our test program, we expect to obtain much more accurate and definitive information on the technical performance of the products we test. The 5- to 50,000-Hz coverage of the analyzer, combined with a maximum resolution of 1 Hz, will enable us to quantify many measurements that previously had to be expressed in relatively inexact terms.

What can we do with the spectrum analyzer that was not possible with more conventional test instruments? The ability to display, and measure accurately, very low-level signal components in the presence of much larger unrelated or unwanted signals is the principal advantage of this instrument. This means that an audio distortion measurement no longer need be limited by extraneous noise or hum, which often makes it difficult to measure amplifier distortion at low frequencies where such disturbance cannot be filtered from the signal. Furthermore, the analyzer can measure distortion levels as low as –90 dB (0.003 per cent), rivaling the best conventional “null-type” distortion meters.

Most meters give a total harmonic distortion (THD) reading, which lumps together all harmonics plus any hum or noise present in the signal. Some measurement standards, such as the latest IHF tuner standard, call for this type of test, although it can be misleading if significant amounts of hum or noise are present. The spectrum analyzer separates these signals into their components. For example, we may find a second-harmonic level of –62 dB and a third-harmonic level of –66 dB, etc., in an amplifier output. For easier correlation with more familiar measurement data, we usually combine these readings and convert the result to a percentage value that is nearly equivalent to a THD measurement (although it still excludes hum and noise). In the example given, the THD would be 0.095 per cent.

In FM-tuner measurements, the exclusion of 19-kHz pilot-carrier leakage from the distortion reading greatly improves the measurement accuracy on the better tuners, whose distortion may be at the same very low level as the inaudible pilot-carrier leakage. For most tuner measurements, however, the major advantage of the spectrum analyzer is its speed. In two 1-second scans we can obtain accurate readings of channel separation, distortion, and pilot-carrier leakage that previously had to be measured separately over a period of minutes.

A spectrum analyzer is almost a necessity for accurate measurement of tape-recorder distortion. Modulation noise and flutter prevent a THD meter from giving valid readings at distortion levels below about 1 per cent, but they have negligible effect on the spectrum-analyzer readings. The same advantage exists in loudspeaker measurements, where ambient room-noise levels or system hum can affect low-level harmonic-distortion.
The spectrum analyzer displays the second, third, and fourth harmonics (the three peaks at the right) present in a "pure" sine wave. The amplitudes are a very low -62, -59, and -70 dB. Equivalent total harmonic distortion (as read on a meter) measured 0.014 per cent.

In most of our response measurements it is more convenient to use the General Radio Graphic Recorder, which draws a response curve on a paper chart (spectrum-analyzer oscilloscope screens must be photographed to obtain a permanent record). Since our tests are made at a sufficiently high signal level to overcome any noise problems, this capability of the spectrum analyzer is of limited use in our work (although it is invaluable for certain types of filter-response measurements). In sum, the addition of the Hewlett-Packard 3580A spectrum analyzer to our laboratory will make it possible for us to learn much more about the detailed performance of most products we test and to do so in a fraction of the time required by previous methods.

Sony TC-880-2 Stereo Tape Deck

The new Sony TC-880-2 open-reel tape deck has several features found in no other home machine. It also has an extremely high level of performance, and it is one of the most expensive tape recorders ever manufactured for home or nonprofessional use.

The TC-880-2 is basically a two-channel, half-track machine with an additional quarter-track playback head. Reels up to 10 1/2 inches in diameter can be used on the standard 1/4-inch-diameter reel shafts or with the NAB hub adapters furnished with the deck. The three-motor transport features a direct-drive capstan motor that is servo-controlled in a manner similar to that used for direct-drive record-player turntables. Actually, a dual-capstan drive system is used, maintaining a constant and controlled tension on the tape as it passes over the heads. The second capstan has a heavy flywheel that is belt-driven from the direct-drive motor. The index counter is a true running-time indicator, reading in minutes and seconds for 15-ips operation. At the recorder's second speed of 7 1/2 ips, the counter's time indications must be doubled.

The TC-880-2 has Sony's "Syncro-Trak" synchronous recording system. Either track of the recording head can be used for playback while recording on the other track. This permits the user to add later material with both tracks in synchronism. For each channel, there is a three-position REC MODE lever switch to select play, record, or synchronous operation. A light above each switch indicates its status. Two TAPE SELECT switches provide a choice of normal or high bias levels and three recording-equalization characteristics.
marked NORMAL, SPECIAL, and FeCr. The instruction manual recommends settings for most popular tapes. As the markings suggest, the TC-880-2 is compatible with Sony's new open-reel Ferrichrome tape, with which it delivers its maximum performance.

The recording-level controls, marked REC ATT, are step-type switches with 2-dB steps of attenuation for the first 34 dB, two larger steps to 50 dB, and a fully on position. The playback-level adjustment (PB ATT) is a step switch used in combination with a separate concentrative, continuously adjustable fine control. The attenuation settings correspond to those of the REC ATT switches, and the fine vernier provides smooth control between steps and also permits channel levels to be balanced.

A PB HEAD switch connects the playback circuits to the output of either the half-track or quarter-track head. The headphone jack, driven by its own amplifier, has a separate level control. The recording inputs can be switched between LINE and MIC sources by a toggle switch, and a MIC ATT introduces either 15 or 30 dB of attenuation into the microphone inputs to prevent overload when recording high-level sounds. Dual low-impedance microphone inputs are provided, as are standard ¼-inch jacks on the front panel for unbalanced microphones and Cannon-type connectors in the rear for balanced-line sources. The line inputs and outputs, in the rear, are through standard phone jacks.

The special meters of the Sony TC-880-2 are one of its most useful features, giving the user more information about program levels than any others we have seen. They are lightbeam galvanometers in which the usual needle pointer is replaced by a narrow beam of light reflected from a mirror on the moving meter coil. Each channel has a horizontal scale about 4 inches long, calibrated from 0 to +15 dB. A narrow white light-beam "pointer" moves along the scale as the program level varies, changing color to red when it exceeds 0 dB. A switch to the left of the meters selects their three operating modes. The Vu meter gives the ballistic response of a true Vu meter (which follows the general program level but normally indicates about 10 dB less than the maximum peak levels). In the peak position the meters are fast-acting peak indicators with a response rise time of 1 millisecond and a decay time of 1 second. For all practical purposes, this mode shows the true maximum instantaneous peak program level. Finally, in the peak hold position, the meters lock in the highest peak readings attained during any operating interval. This can be used to predetermine the maximum peak level of any program so that any necessary recording-level adjustments can be made with complete assurance that the final recording will not exceed the desired level at any time.

Above the electronic section of the TC-880-2 are the transport controls. A push-button power switch at the left is flanked by two toggle switches that adjust tape tension for either 7- or 10½-inch reels and set the tape speed to either 7½ or 15 ips. A small knob, when pulled out slightly, supplies a vernier speed tuning capability (in playback only) over a range of several per cent. Wherever the knob is set, pushing it in returns the machine to its correct, factory-set speed.

A group of square pushbuttons operates the transport through a logic system and electromechanical solenoids. They can be used in any sequence without damage to the tape.

Each button lights when its function is selected. If either of the REC MODE switches is set to REC, the red circle on the recording-safety button flashes as a warning that the machine is ready to go into a recording mode. It is possible to make a "flying-start" recording, directly from the playback mode, by pressing the record and play buttons at the desired point. The PAUSE button is joined by a line on the control panel to the STOP button. This indicates that when the tape is stopped, pressing the PAUSE button releases the tape lifters so that the tape is in contact with the heads and the reels can be cued manually to any specific position on a recording.

Sony has designed the TC-880-2 to minimize the electrical phase shifts that make it impossible for most tape machines to record and play a reasonable facsimile of a square wave (and, by inference, other complex waveforms). According to Sony, the phase compensation in the recorder's playback amplifiers provides a more natural quality on live recordings, especially if they have been re-recorded several times in the Syncro-Trak mode, which can compound phase errors with each re-recording.

Another practical benefit of the phase compensator is that SQ or other matrixed quadraphonic programs can be recorded and played back through a suitable decoder without serious degradation of their directional properties. In addition to the electronic phase compensation within each channel, the gaps of the "Ferric and Ferrite" heads have been designed to minimize phase shift between the channels.

The Sony TC-880-2 is a rather large recorder, 18½ inches wide, 20½ inches high, and 10½ inches deep. It weighs an impressive 80 pounds in its walnut-finish wooden case, which fortunately is fitted with sturdy carrying handles. Price: $2,495.

**Laboratory Measurements.** The 7½-ips playback frequency response of the TC-880-2 was measured with the Ampex quarter-track test tape through the recorder's quarter-track head. It was flat within ±0.5 dB from 150 to 15,000 Hz, rising gently to +1.5 dB at 50 Hz. The response to an Ampex full-track test tape through the half-track head was quite similar. The headphone listening volume was more than adequate even when high-impedance phones were used.

For overall record-playback frequency-response measurements we used Sony PR-150 as the "normal" tape, Sony SLH-180 as the "special," and the new Sony Ferrichrome as the FeCr tape. We achieved the following rather impressive results (at a -20-dB recording level, ±2 dB tolerance): PR-150 tape at 7½ ips, 20 to 20,700 Hz; at 15 ips, 20 to 36,500 Hz. With SLH-180 tape, response at 7½ ips was 20 to 26,000 Hz; at 15 ips, 23 to 40,000 Hz. The FeCr tape at 7½ ips gave 20 to 28,500 Hz; at 15 ips, 20 to 40,000 Hz (our upper measurement limit is 40,000 Hz; the response may, in truth, have gone even higher). All our response measurements comfortably surpassed the manufacturer's ratings.

Remarkable as these frequency-response figures are, they are overshadowed by the recorder's freedom from tape or head saturation, which usually causes a loss in high-frequency response at high recording levels. Only at 7½ ips was the 0-dB recording level response curve significantly different from the -20-dB curve within the audible range. At 15 ips there was no detectable compression at 0 dB until we exceeded 25,000 to 30,000 Hz, regardless of the tape used. Although any good open-reel recorder, especially at 15 ips, is relatively free of high-frequency tape saturation, we hardly expected to find a bandwidth exceeding 40,000 Hz and essentially independent of recording level. To say we were impressed would be putting it mildly.

Recalling Sony's emphasis on linear phase response, we recorded and played back square waves at 1,000 and 5,000 Hz. The effectiveness of the phase compensation of this recorder can be judged from the accompanying scope photographs. With the monitor switch set to source, a small overshoot (Continued on page 38)
If our tape sounds bad on your hi-fi system you need a better hi-fi system.

Maxell tapes are the best way to see just how good or bad your hi-fi system is. Because Maxell tapes are made to stricter standards than many hi-fi systems.

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Every batch of magnetic oxide we use gets run through an electron microscope. If every particle isn’t perfect, the sound you hear won’t be either.

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Naturally, a product this good doesn’t come cheap. In fact, a single reel of our best tape costs more than many inexpensive tape recorders.

So if you don’t have a good hi-fi system, save yourself some money and buy cheaper tapes.

Maxell. The tape that’s too good for most equipment.
and a cycle or two of ringing, caused by the recording amplifier or the line-output amplifier, could be seen on the square wave. However, when we introduced the tape and head into the signal path by switching to tape, the change in waveform was very small. The ringing on the 5,000-Hz square-wave output was at about 50,000 Hz, and the preservation of the rise and fall times of the waveform was consistent with an effective frequency response of about 50,000 Hz together with a linear phase-shift characteristic (constant time delay). At all audio frequencies the phase difference between the two channels was a few degrees, increasing to 30 degrees at 10,000 Hz, 50 degrees at 20,000 Hz, and 90 degrees at 33,000 Hz. This, too, is exceptional performance for a tape recorder.

An input of 38 millivolts (mV) at the line inputs, or 0.075 mV at the mic inputs, was needed for a 0-dB recording level. The playback output was between 0.38 and 0.43 volt, depending on the tape. The microphone inputs overloaded at a very good 200-mV input. The overload point could be increased to 1 volt or 6.3 volts by using the MIC ATT switch.

The playback distortion from a 0-dB recording level at 1,000 Hz (7½ ips) was 0.56 per cent with the SLH-180, 2 per cent with PR-150, and 0.4 per cent with FeCr tape. The 3 per cent distortion level was reached at about +8 dB. The unweighted signal-to-noise ratios (S/N) referred to that level were, respectively, 60.2, 82, and 63.2 dB with PR-150, SLH-180, and FeCr tapes. With IEC "A" weighting these figures were improved to 65.5, 68, and 70.3 dB. Through the mic inputs the noise at maximum gain increased by 13.5 dB.

At 15 ips, the respective playback distortions were 1.0, 0.6, and 0.32 per cent at 0 dB. The 3 per cent distortion levels were +5, +6, and +7 with PR-150, SLH-180, and FeCr. The S/N at 15 ips measured 53, 56.5, and 59 dB unweighted for the three tapes, and 61, 65.5, and 67 dB with "A" weighting.

The wow and flutter (unweighted rms) in a record-playback measurement were the lowest we have ever seen from a tape recorder, and may well represent the limitations of our test equipment. The wow reading of 0.015 per cent was absolutely unwavering (an unusual event in itself), and we would consider the flutter of this machine to be essentially zero. The reading was identical for both tape speeds. The speeds themselves were as accurate as could be measured within the ±1-count ambiguity of our frequency counter. The playback-speed vernier had a range of about ±5 per cent at 7½ ips and ±10 per cent at 15 ips. In the fast speeds a 1,800-foot reel of tape was moved from end to end in 2 minutes.

In its PEAK mode, the movement of the meter light bar appeared to be virtually instantaneous, with no overshoot and with a slow decay that let it follow the crest of the program. In PEAK HOLD the maximum reading was retained for many minutes (switching to one of the other modes restored normal operation). When we drove the recorder with 0-dB tone bursts at a rate of once per second, a 100-millisecond burst gave a meter reading of -7 dB in the vu mode and +0.5 dB in PEAK (relative to the steady-state reading). Shortening the burst to 10 milliseconds gave a -21-dB vu reading, while the PEAK indicator read -1 dB.

Comment. The performance and features of the Sony TC-880-2 set it apart from almost every other high-quality home recorder we have seen. For example, it is definitely not (and does not pretend to be) a "professional" recorder, though it is certainly capable of professional-level performance and more. The linear phase response and wide frequency range of the TC-880-2 make it suitable for recording and playing back quadraphonic material in matrixed form. We confirmed this by taping SQ records with strong directional effects and playing back through a full-logic decoder. The directionality was affected only slightly by the record-playback process. Although Sony makes no claims in this regard, we also tried copying a CD-4 record and playing the tape back through a demodulator, but the phase-shift and time-delay characteristics of the recorder were not compatible with the exacting requirements of the CD-4 technique. We did obtain a good stereo playback, and the demodulator's CD-4 light turned on, but there was no front-to-back separation.

With the TC-880-2, the operator knows exactly where he stands with respect to program levels and the recorder's dynamic range. The meters, which must be used to be appreciated, are even better than the LED lights used on some machines—they are nearly as fast, and they give accurate quantitative information. It is a comforting thought to realize that no signal reading less than about +8 or +9 dB will be distorted or have its frequency content (or waveshape) altered even if it extends into the ultrasonic range. Of course, unless you use the finest microphones, this will not be a matter of concern.

Mechanically, this machine is a gem. Its precision and operating "feel" are consistent with the finest home electronic equipment (as we have mentioned in recent reviews, some of the best audio components are currently setting new standards of excellence for their light, positive control action).

Finally, congratulations to Sony for something which the TC-880-2 does not do. It is, without doubt, the quietest tape deck we have used. Sony's measurements indicate an acoustic noise level of 30 dB in its vicinity, but this would be measurable only in an anechoic chamber. Suffice it to say that the TC-880-2 cannot be heard in operation except by pressing one's ear against the rear of the cabinet to detect the faint hum of the slow-turning direct-drive capstan motor. At 7½ ips we generally could not hear even that minuscule sound! With the tape stopped, only the softly lit meters give a clue that the machine is on. Of course, the solenoids operate with an audibly "clunk," but that is to be expected. For many, $2,500 probably seems like a lot of money for a tape recorder. On the other hand, the Sony TC-880-2 looks to us like a lot of recorder for the money.

Circle 105 on reader service card

The dual-capstan drive system of the Sony 880-2 is arranged symmetrically around the head assembly. The unusual speed-tuning control is located just below the left-hand pinch roller. The index counter just below the right pinch roller gives actual running times in minutes and seconds.
The Great American Male

Understanding lover and patient father. Tough businessman, dedicated friend and O.K. boss.

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Psychology Today
Among the myriad "new" high-fidelity products announced each year, only a very few are really new in the sense that nothing like them has been available previously. The ADC Accutrac 4000 programmable record player is a new product in every sense. We will undoubtedly see other turntables with similar features eventually, but for the present the Accutrac 4000 is truly unique.

Its novelty does not lie in its basic recording-playing functions, since the Accutrac 4000 is a combination of a good direct-drive, two-speed (33⅓ and 45 rpm) turntable, a well-made conventional pivoted tone arm, and a cartridge essentially the same as the well-known ADC XLM MkII. It is an excellent integrated record player, but not significantly different in its listening quality from any of a dozen other top-ranking record players.

However, the engineers at BSR (the parent company of ADC) have wedded the record player to a microprocessor system, essentially a compact special-purpose computer based on LSI (large-scale integration) integrated circuits, and this little computer can be programmed to "remember" a large number of instructions and to execute them upon command at a later time.

BSR's goal was to make a record player that could seek out and play any pre-selected track on a record containing more than one "band" of recorded material. This category includes not only virtually every popular recording, but a number of classical discs as well. Surveying the available records, they determined that none contained more than thirteen bands, and this is reflected in the row of calculator-like buttons numbered from 1 to 13 on its control panel (another button, marked ALL, is used to play a record in the normal manner, from beginning to end).

Operationally, the Accutrac 4000 is programmed by pressing, in the desired sequence, any or all of the track-selection buttons. A total of twenty-four commands can be programmed, so that some tracks can be repeated, or if ALL is pressed twenty-four times, the entire record will play twenty-four times before the unit shuts down!

Accepting, for the moment, that the computer circuits can be programmed in this manner, how does the player distinguish one band from another? BSR's solution to the problem was beautifully simple and direct. Within the special cartridge body is an infrared light source that shines down on the record surface. On the opposite side of the cartridge is a tiny photocell that also scans the record. The grooved areas of a disc scatter the light, reflecting little to the photocell. The ungrooved areas between bands, however, reflect the infra-red beam to the cell, sending an electrical signal to the computer and informing it when the pickup is moving from one band to the next.

In operation, the arm is moved above the record surface by a servomotor, and the scanning system sends impulses to the computer that are compared with the instructions stored in its memory. For example, if track three has been selected, the computer sends a signal to the servomotor to stop the arm scan when it has counted three return signals. The arm pauses over the record for a couple of seconds, sensing any record eccentricity so that it can "zero in" on the center of the ungrooved section, and then lowers gently to the surface to play the selected track. After the track has been played, the next ungrooved band sends a signal to lift the arm and return it to its rest position outside the turntable diameter, from where it begins the next scan in accordance with its programmed instructions. After all the selected tracks have been played, the arm remains at rest and the motor shuts off.

All the controls of the ADC Accutrac 4000 are located on a sloping panel extending in front of the turntable proper, where they are accessible when the plastic cover is lowered.

Four small knobs turn on the power, adjust the speed separately for the two operating speeds (the stroboscope marks on the side of the platter are lit by a neon lamp through a prism), and adjust the sensitivity of the sensor system. The latter control is needed to compensate for unusually ungrooved bands, or for extremely heavily modulated sections of a record that may reflect light to the photocell.

Two pairs of buttons select the operating speed and the indexing diameter (for 7- and 12-inch records). When power is first applied, the programmer is set for playing 33⅓ rpm, 12-inch records, but this can be changed by pressing the appropriate buttons. When any one of the track-selector buttons is pressed, the motor turns on, but further operation is initiated by one of the five control buttons.

Normally, PLAY is pressed next, initiating the programmed operating cycle. Pressing REPEAT causes the track being played at that time to be replayed at its conclusion, after which the Accutrac continues with its original program. A REJECT button instantly stops play on the track in progress and the machine moves on to the next instruction in the program. If REPEAT and REJECT are pressed in sequence, the machine stops playing and returns to the beginning of the same band. The CLEAR button cancels all instructions and shuts off the player, CUE lifts the tone arm, and a second touch lowers it to the same spot.

In addition, the ADC Accutrac 4000 can be fully controlled from a remote listening position, using a wireless ultrasonic transmitter resembling a pocket calculator (its nineteen buttons duplicate those on the panel of the Accutrac 4000). A small spherical "receiver" connected to the Accutrac 4000 by a 12-foot cable can be placed anywhere in the room. When the transmitter is aimed at the receiver and one of its buttons is pressed, a red light on the receiver flashes to acknowledge that the command has been received and entered into the control computer.

Laboratory Measurements. The turntable of the Accutrac 4000 had the superior performance we have come to expect from top-quality direct-drive units. Its unweighted rumble of -42 dB (-44 dB with vertical components canceled) was one of the lowest we have ever measured, and with ARLL weight, it was an excellent -62 dB. Wow and flutter were each 0.04 per cent. The speeds, which were not affected by extreme line voltage changes, could be varied over a range of approximately +2.6 to -2 per cent.

When the tracking-force dial on the arm was set to 1 gram, the actual force was 1.05 grams. The anti-skating dial had to be set to between 3 and 4 grams to give optimum correction at the 1-gram force. The tracking error of the arm was 1 degree per inch at a 2.5-inch radius, but was less than 0.5 degree per inch.
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Amplifier Specs
- Power Bandwidth: 17-35,000 Hz
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SEPTEMBER 1976

CIRCLE NO. 48 ON READER SERVICE CARD
over the rest of the record-playing surface.

The output of the cartridge was 3.8 millivolts at a velocity of 3.54 cm per second. With the CBS STR-100 record, frequency response was flat within ±0.5 dB up to 8,000 Hz, rising smoothly at higher frequencies to +6 dB at 20,000 Hz. Channel separation was excellent, about 30 dB through the mid-range and still 10 to 15 dB at 20,000 Hz. The low-frequency resonance of the arm and cartridge was at 8 Hz with an amplitude of 10 dB. The vertical stylus angle was 28 degrees, somewhat higher than the industry standard of 20 degrees, but not a serious discrepancy given the variability in the recording process.

The high-frequency tracking distortion of the cartridge, tested with the very high velocities of the Shure TTR-102, was not more than we have measured on some other top-ranking cartridges. However, it was negligible up to a 20-cm-per-second velocity, which will rarely be exceeded while playing normal discs. The more conventional TTR-102 IM test record revealed very low distortion levels of about 1 per cent up to 18 cm per second, increasing rapidly to 15 per cent at 27 cm per second. This tracking ability should be adequate for the vast majority of records; for the most difficult recordings, increasing the tracking force to 1.5 grams reduces the distortion to a very low 2 per cent even at the maximum velocity of 27 cm per second.

The searching cycle which the arm goes through each time it looks for the next track requires about 7 seconds, most of which is spent waiting over the ungrooved portion before beginning its descent. The actual cueing descent requires about 2 or 3 seconds, and it is totally free of lateral drift. The cartridge outputs are muted at all times when the stylus is not on the record surface.

- **Comment.** As a record player—turntable, arm, and cartridge—the ADC Accutrac 4000 is obviously one of the best, and its performance needs little comment. Although it sounds very good at 1 gram, some people might find 1.5 grams preferable (at that force it tracks everything on the Shure "Audio Obstacle Course Era III" record).

What about its unique automatic features? They work exactly as stated, practically to perfection, with a smoothness and positive quality that borders on the eerie. The instruction manual alerts the user to the few possible areas of difficulty, which we confirmed in our tests, but the suggested cures also proved to be 100 per cent effective. One thing that interferes with the reflection of the infra-red light source to the photocell can upset the track-location process. Transparent or translucent records cannot be used successfully (though they can be played conventionally by pressing the alt button). We found one or two bizarrely over-recorded selections that the sensor insisted on interpreting as ungrooved portions of the record, and some records whose variable thickness in the lead-in groove portion caused the system to overlook the ungrooved beginning of the record, resulting in a one-band error in the playback sequence. These limitations, as we have stated, are clearly presented in the instruction manual. Otherwise, the system seemed to be infallible, able to sense "dead" bands so narrow that we could hardly see them with the unaided eye. Under low-humidity conditions, the plastic cover, as ADC warns, can easily acquire a static charge, and it is so close to the tone arm in playing position that it can literally lift the arm from the record. A wipe with a damp cloth removes the charge from the cover, and refining from rubbing or brushing its surface reduces the possibility of its acquiring a new charge.

The entire record-player portion of the Accutrac 4000 is mounted on a separate heavy wooden board isolated from the base by springs. This does reduce the sensitivity to acoustic feedback somewhat as compared with more conventionally sprung units, but it does not totally eliminate it. Since the tone arm is never handled in normal operation, the rather springy nature of the mount causes no operational difficulties. Incidentally, the arm has a conventional finger lift, and it can be moved manually to any portion of the record at any time (again against a slight drag from the arm-drive clutch when the pickup is in its raised position)

The remote-control feature proved to be much more practical than we had expected. The ability to halt play and resume it from across the room, and to perform all other record-playing functions (except putting the disc on the platter and removing it) by remote control has advantages we came to appreciate after acquiring some familiarity with the unit. At dinner it was a genuine delight.

The big question to the audio consumer is: do the special non-audible features of the Accutrac 4000 justify a $500 investment, or is this just another "gimmick"? In our view, the Accutrac automation is not gimmicky or frivolous. Even if you play only classical records from the beginning to the end of each side, the Accutrac 4000 will treat them more gently than the most skilled human operator, and with none of the limitations, real or imagined, of a record changer. And, as we have stated, remote control is a definite convenience.

We prefer to look at the economics of the matter in this way. An equivalent record player with a superb direct-drive turntable, a very good arm, and one of the most respected phono cartridges would certainly sell for about $400 on a list-price basis (of course, if your heart is set on any other cartridge in the Accutrac line, that is probably not for you). For an extra $100, one obtains the remarkable programmability of the Accutrac 4000 ("remarkable" will seem like a strong understatement to anyone who has used it or seen it in action), plus full remote-control capability. That, we think, is a bargain by any standards.

If $500 is still too much for your budget, we understand that ADC will shortly announce lower-price Accutrac players using belt-drive turntables and without the remote-control feature. No matter what you may think of the concept, it is clear that computer technology has entered the high-fidelity field, and things may never be the same again.

Circle 106 on reader service card

(Continued on page 46)
KLH Research Ten
Column Bookshelf Loudspeakers:
For people who care
more about music than money.

You are looking at three pairs of
truly unusual loudspeakers. From left
to right, they are the CB-10, CB-8, and
the CB-6. What makes them so un-
usual is that each pair is capable of
reproducing an amount and quality
of sound that has heretofore been
impossible to achieve from such
modest sized devices. They are
efficient and can be driven effec-
tively by any reasonable power
source (the CB-6 and CB-8 need as
little as 8 watts per channel; the CB-10
will do quite nicely with as little as 10
watts per side). Yet all three pairs
have the ability to handle as much as
100 watts RMS per channel! Their
performance is perhaps best charac-
terized as uncommonly open and airy,
with notably good bass response.
Indeed, the CB-8 and CB-10 use our
famous Megaflux Woofer™; the CB-6
has a “special six” — a new woofer that
is easily among the best used in
today's smaller loudspeakers. The
CB-6, the smallest of the series,
delivers about a third of an
octave less bottom than the
CB-8, the CB-8 about a third of
an octave less than the CB-10.
But all three models share excep-
tional smoothness and perfect mu-
sical balance. They also share some-
thing else. They are incredibly
inexpensive.

Which can be a problem. Unfor-
tunately there's a sizeable number of
people who believe that if a speaker
doesn't cost a lot of money, it can't
deliver a lot of sound. But if you trust
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CIRCLE NO. 33 ON READER SERVICE CARD
Tannoy Cheviot Speaker System

The bass distortion was measured at a distance of 1 meter from the woofer cone at a constant sound-pressure level (SPL) of 90 dB. This procedure, heretofore not practicable because low distortion levels were masked by ambient noise, was made possible by the use of our newly acquired Hewlett-Packard 3580A spectrum analyzer. The predominantly second-harmonic distortion was very low, under 0.8 per cent from 100 Hz down to about 55 Hz, increasing rapidly to 1.8 per cent at 50 Hz and 6.5 per cent at 40 Hz.

The system impedance rating of 8 ohms is technically correct, since the minimum impedance above the bass resonance (which reached more than 40 ohms at 58 Hz) was about 8 ohms in the vicinity of 100 Hz. However, the impedance over most of the audio range was between 10 and 30 ohms. Our efficiency measurements, with the speaker driven at 1 watt into a nominal 8-ohm load and using an octave of random noise centered at 1,000 Hz, showed the Cheviot to be somewhat more efficient than most speakers, developing a 91.5-dB SPL at a distance of 1 meter from the grille. Since the actual impedance at that frequency was about 16 ohms, the speaker was probably receiving only about 0.5 watt, and it is therefore about 3 dB more efficient than the measurement shows. The

(Continued on page 48)

Tannoy makes three basic coaxial systems using bass drivers with nominal cone diameters of 10, 12, and 15 inches. They are now available installed in handsomely finished and styled wooden cabinets, both "bookshelf" and floor mounting. The Cheviot, the smallest Tannoy free-standing system, is based on their HPD315A (12-inch) driver system. The cabinet is 33 inches high x 17 1/2 inches wide x 10 1/4 inches deep, and the system weighs about 55 pounds. It is available in walnut or ash finishes with a choice of blue or brown grille.

The crossover between woofer and tweeter takes place at 1,000 Hz with 12-dB-per-octave slopes. The crossover network is physically separate from the driver. Behind the separately removable lower grille section are two high-frequency balance controls with distinctly different characteristics. The ENERGY control has a shelved response and adjusts the output of the tweeter uniformly for all frequencies above 1,000 Hz. It is a five-position switch, with the center setting marked LEVEL. The ROLL-OFF control attenuates the output progressively at frequencies above 5,000 Hz. In addition to a LEVEL position, it has three steps of attenuation.

The Tannoy Cheviot is rated to handle up to 60 watts of program and has a nominal 8-ohm impedance. The woofer has a rated free-air resonance of 20 Hz and operates in a ducted-port enclosure. The rated frequency response of the system is 40 to 20,000 Hz ±4 dB. Price: $345.

Laboratory Measurements. The frequency response of the Tannoy Cheviot was measured with both controls set to their LEVEL positions. The response, as measured in the listening area some 12 to 15 feet from the speaker, was very smooth and flat over most of the audio range, varying only ±2.5 dB from 120 to 16,500 Hz. There was a "bump" of about 4 dB centered at 90 Hz and a smooth roll-off to -3 dB at 40 Hz. Separate close-miked measurements at the woofer cone and the port opening showed that the contribution of the port was dominant below about 40 Hz. The ENERGY and ROLL-OFF controls had the claimed effects, with the former varying the output above 1,000 Hz by +2 to -3 dB about its LEVEL setting and the latter giving three levels of attenuation, in steps of 2 to 3 dB, at frequencies above 5,000 Hz.

The Tweeter of the Tannoy Cheviot is invisible, being hidden by the acoustically transparent woofer dust cap in the center of the woofer cone.

The tone-burst response of the Tannoy Cheviot at (left to right) 100, 1,000, and 6,000 Hz. The upper traces are the input signals.

...
This is a pair of Bose Model 301 Direct/Reflecting® bookshelf speakers with their grilles removed. What's odd about them might not be immediately obvious, but it's very significant. Unlike most pairs of speakers, they're not identical. Instead, the left-hand speaker is a mirror image of the right-hand speaker.

Bose goes to the extra trouble and expense of making the two speakers of the pair you buy different to provide the proper proportion of reflected and direct sound at high frequencies, a feature unique among bookshelf speakers.

To accomplish this, each speaker is of an "asymmetrical" design. As a result, a pair of Model 301s has woofers pointing straight ahead and tweeters angled outward. A large proportion of the high frequency energy is reflected off the side walls and then into the center of the listening room, rather than being aimed directly at the listener. As in a live performance, the listener is surrounded with a balance of reflected and direct sound. This is the same principle used in the Bose 501 and in the legendary Bose 901® Direct/Reflecting speaker system. The result is extraordinarily open, natural, and spacious sound.

In addition, the Model 301 Dual Frequency Crossover™ network causes the woofer and tweeter to operate simultaneously for more than an octave, providing exceptionally smooth midrange response and an open spatial quality.

With the unique Direct Energy Control, the Model 301 provides excellent performance in a wide variety of rooms, including small apartments and dormitory rooms. And it is truly small enough to fit in a bookshelf.

These features make the Model 301 an unusual speaker with unusually fine performance. Its suggested retail price—less than $100 per speaker—makes it an extraordinary value.

You already know the Model 301 looks different from other bookshelf speakers. Now visit a Bose dealer and hear how different it sounds.

BOSE®

The Mountain Framingham, Mass. 01701

Patents issued and pending.

For a full-color brochure on the Model 301, write: Bose, Dept. SR 9, The Mountain, Framingham, Mass. 01701
Tandberg TR-2075 AM/Stereo FM Receiver

- The new Tandberg TR-2075 is a full-featured, medium-to-high-power receiver with a number of innovative operating and circuit-design features. It is rated to deliver 75 watts per channel to 8-ohm loads from 20 to 20,000 Hz with no more than 0.15 per cent total harmonic or intermodulation distortion. In its external styling, the TR-2075 bears a family resemblance to the lower-power Tandberg receivers, but there are also some significant differences.

The Scandinavian influence is apparent in the front-panel layout and styling. A full-width, satin-finish aluminum band just below the center of the panel carries all the normal operating controls. A deep blue “blackout” dial window spans the front just above the control section, with an aluminum accent strip at the very top. At the right of the dial area are the tuning knob and a cluster of four small pushbuttons. These switch the FM tuner from stereo to mono (it also switches automatically when the signal strength drops below a preset threshold level), activate the FM interstation-noise muting circuit, change the FM de-emphasis from 75 to 25 microseconds (for FM decoding with an external Dolby unit), and dim the panel lighting.

When power is applied by pressing the large square ON-OFF button, the AM and FM dial scales and two large meters are illuminated in blue (the center-channel FM tuning meter lights only when FM is selected). The tip of the dial pointer is lit in red, as is the FM STEREO indication above the FM scale when a stereo broadcast is received.

To the right of the power pushbutton are six similar control pushbuttons which select FM, AM, PHONO 1, PHONO 2, TAPE 1 MON, and TAPE 2 MON. There is no high-level AUX input as such, but one of the tape-recorder inputs can be used for this purpose. Continuing across the panel, we come to the VOLUME, BALANCE, BASS, MIDRANGE, and TREBLE TONE controls, and the SPEAKERS selector. The tone controls have concentric sections for independent adjustment of the left and right channels. The SPEAKERS switch connects any one of three pairs of speakers or two combinations of two pairs as well as silencing all speakers for headphone listening.

On a black strip across the bottom of the panel are a number of small pushbutton controls as well as two headphone jacks and an output jack for a third tape deck. One button converts the tuner signal-strength meter to an output meter (calibrated from 0 to 25 volts) which responds to the peak level in the channel carrying the stronger signal at any moment. This provides a rough indication of the audio-power output (a table in the very complete instruction manual relates the meter reading to power delivered to speaker loads of

(Continued on page 50)
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The stereo FM distortion was also measured with modulating frequencies of 100, 1,000, and 6,000 Hz using 100 per cent modulation by a difference (L - R) signal as required by the new IHF tuner-measurement standard. The distortion was about 0.2 per cent at the middle and high frequencies and 0.5 per cent at 100 Hz.

The stereo frequency response on FM was unusually flat, within ±0.5 dB from 30 to 15,000 Hz. In spite of the lack of any rolloff at the highest frequencies, the 19-kHz pilot-carrier component in the audio was a very low -80 dB. Channel separation was between 45 and 48 dB over most of the audio range, decreasing below 300 Hz to a minimum of 23 dB at 30 Hz (it remained an excellent 41 dB at 15,000 Hz, however).

The capture ratio was 1.5 dB and AM rejection was 66 dB at 65 dB input. Image rejection was 69 dB and alternate-channel selectivity was 76 dB. The new adjacent-channel selectivity test, as expected, provided a much lower number, namely -25 dB (a 19-dB figure, averaging 6.5 dB). The FM-muting threshold was between 2.5 and 5 µV (13 to 19 dBf), while the transition between mono and stereo took place over an input range of 7 to 18 µV (22 to 30 dBf). As a stereo signal became weaker, the receiver changed to mono at the lower level, and did not return to stereo until the input had been raised to the upper figure. The AM frequency response was very restricted, with the -6-dB response frequencies being 85 and 1,800 Hz. We are told that this bandwidth restriction is intentional, designed for the narrow channel spacings and limited AM bandwidth used in Europe.

The audio amplifiers of the TR-2075 clipped at 91 watts per channel when both channels were driven into 8-ohm loads at 1,000 Hz. The power at clipping into 4 ohms was 123 watts; into 16 ohms it was 58 watts. The 1,000-Hz total harmonic distortion (THD) was close to our lower measurement limits, reading less than 0.007 per cent from 0.1 watt to more than 10 watts and increasing smoothly to 0.056 per cent at the rated 75 watts and to 0.11 per cent at 90 watts. The intermodulation distortion (IM) was between 0.02 and 0.05 per cent up to 9 watts, 0.17 per cent at 75 watts, and about the same at 90 watts.

At the rated 75-watt output, the THD was very low—between 0.04 and 0.06 per cent from 20 to 3,500 Hz and 0.035 to 0.045 per cent from 5,000 to 20,000 Hz. The distortion was low at all power levels, with the lower number typically 0.01 per cent or less at any practical listening level over the full audio band. The calibration of the output meter scale was typically within 15 per cent of the actual power (based on 8-ohm loads), making it a perfectly accurate monitor of average listening levels.

The high-level input sensitivity, measured through the TAPE 1 inputs, could be adjusted from 53 to 200 mV for a 10-watt reference output. The hum level was a very low -82 dB referred to 10 watts. The PHONO 2 sensitivity was 1.2 mV (PHONO 1 could be adjusted from 0.76 to 3.7 mV), with a 75-µV S/N figure. Phono overload occurred at 76 mV through PHONO 2 and from 38 to 175 mV through PHONO 1, depending on its sensitivity setting. The high-level tape input overloaded at very safe

All inputs and tape-deck connectors on the TR-2075 are duplicated by DIN connectors. Note that most of the inputs are equipped with sensitivity controls immediately adjacent to the jacks.

4, 8, or 16 ohms). Two buttons interconnect the tape decks for dubbing from either one to the other without disturbing the normal program playing through the receiver. Other buttons switch in loudness compensation, play either channel through both outputs, combine them for L + R (mono) through both outputs, or provide normal stereo operation.

Three filter buttons connect the low filter (12 dB per octave below 70 Hz), high 1 filter (12 dB per octave above 8,000 Hz), or high 2 filter (6 dB per octave above 8,000 Hz). When both high filters are pressed, the filter slope becomes 18 dB per octave above 8,000 Hz. The final button next to the TAPE 3 output jack, labeled PREAMP REL, transfers the TAPE 3 output feed to a point after the volume, balance, and tone controls. It also reduces speaker volume by 20 dB and can be used as an "audio-muting" switch. Pressing any of the eighteen principal pushbutton controls turns on a small red LED above it. The bright red dots of light can be seen anywhere in the room and clearly identify the operating mode of the receiver.

On the rear apron the numerous inputs and outputs are logically grouped and explicitly labeled (including the input sensitivity and impedance specifications). The speaker outputs and antenna inputs use thumbscrew binding posts which have been designed to grip the wires in a positive manner. The sepa-
levels of 2.4 to 9.1 volts, depending on its sensitivity setting.

The tone controls had the usual characteristics of a sliding bass-turnover frequency and a treble response hinged at about 1,000 Hz. The mid-range tone control affected a very broad range of frequencies centered at 1,200 to 1,500 Hz, with a maximum control range of about ±7 dB. The filters, with their 12-dB-per-octave slopes and well-chosen cut-off frequencies, provided very effective noise and rumble reduction with a minimum loss of program content. The −3-dB response frequencies were 55 Hz for the low filter and 10,000 Hz for the high filter. The loudness compensation was moderate and boosted both low and high frequencies.

The extended RIAA phono equalization was accurate within ±0.5 dB from 20 to 20,000 Hz. When it was measured through the inductance of a phono-cartridge coil, the phono response dropped very slightly at high frequencies to about −2 dB at 10,000 Hz before returning to its correct level at 20,000 Hz.

Comment. Performance on the test bench showed the Tandberg TR-2075 to be a thoroughly excellent receiver both in its FM and audio sections (especially the latter, which, except for its power-output rating, could match some of the most highly regarded "super amplifiers"). We would expect no less from a top-of-the-line product bearing the Tandberg name. Nevertheless, we put the unit through extended use tests before arriving at our final appraisal of this expensive and ingeniously designed product.

Unless you have used a large number of stereo receivers, you might not appreciate the smoothness and positive action of the TR-2075’s controls and their total lack of unexpected behavior or undesirable side effects. For example, when changing from one program source to another there is a slight delay before the new program is heard. This audio-muting system effectively eliminates all switching transients and enhances the luxurious “feel” of the receiver. Similarly, the FM interstation muting is positive and noise-free, with just enough time delay to make possible a silent spin across the dial. The calibration of the linear FM dial scale met the ±200-kHz accuracy specification, and we experienced no ambiguity in setting the tuner to any desired channel.

The TR-2075’s tape-handling versatility, of course, is to be expected from a manufacturer noted for tape-recording products. And, perhaps needless to say, the FM and audio sound quality of the TR-2075 was also first-rate. The real question—the “bottom line” so to speak—in an overall evaluation of the TR-2075 concerns its price. This is an expensive receiver by any standard. From the manufacturer's standpoint, it is self-evident that the overall construction and general level of engineering excellence of the receiver justify its expense. However, anyone price-shopping competitive units will be aware that there are a number of less expensive receivers available whose measured performance, in one or more respects, is equivalent to that of the TR-2075. It comes down to a question of personal taste and specific requirements. From the viewpoint of its potential owners, the higher price tag of the TR-2075 is doubtless justified by its rugged construction, exceptional operating soundness, flexibility, handsome styling, and superb performance.

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CIRCLE NO. 12 ON READER SERVICE CARD

SEPTEMBER 1976
A CENTURY AGO when this country was celebrating its first hundred years of independence, the Centennial gifts to the United States from France were two statues by Frederic Auguste Bartholdi, the one of Lafayette that stands in Union Square in New York and the Statue of Liberty in the harbor. In addition, during the Centennial festivities in 1876, Jacques Offenbach came over to conduct concerts and performances of his operettas in Philadelphia and New York, where he was billed as "the operatic Puck.

France's generous Bicentennial gifts this year include a visit from the Paris Opera, which will perform in Washington and New York in September. When that tour was first announced, I entertained visions of Lab's Le Cid with Grace Bumbry and Placido Domingo, conducted by Eve Queler, and Charpentier's Louise with Hélène Cotrubas, Domingo, Gabriel Bacquier, and Michel Senechal, conducted by Georges Prêtre. Columbia has already recorded Offenbach's La Grande Duchesse de Gérolstein with Regine Crespin and Mady Mesple, conducted by Michel Plasson, and plans to record Le Prophète and Thomas' Mignon. Deutsche Grammophon is said to be planning a recording of Meyerbeer's L'Africaine.

London Records will soon release a new recording of Bizet's Carmen with Tatiana Troyanos, Kiri Te Kanawa, Domingo, and Jose Van Dam, conducted by Solti. To coincide with the Met premiere of Esclarmonde in November, London will release a recording with the Met cast: Joan Sutherland, Huguette Tourangeau, and Giacomo Aragall, conducted by Richard Bonynge. Sutherland and Bonynge are working on Massenet's Le Roi de Lahore for Vancouver and will probably record that in time.

And Connoisseur Society is beginning to release a series of French operettas with Mady Mesple. The first of these, Planquette's The Chimes of Normandy (Les Cloches de Caroline), is so melodic and so charming that I can hardly wait for more.

Before you get involved with these French rarities, you might survey your collection to be sure you have recordings of those few French operas that are never out of the international repertoire for long, and if I may put in my quai's sauce, I'd like to make a few recommendations. Carmen is a must, and if you don't have it, you may want to wait for the new London version before making a choice. You'll need Offenbach's Tales of Hoffman. There are things to enjoy in all four available versions, including the rather campy movie soundtrack sung in English, and all four have their drawbacks. Although I have a lingering fondness for the Angel set with Gedda and three sopranos as his various loves, conducted by André Cluytens, my choice would be the London set with Sutherland and Domingo. Its only drawback is the strange edition Bonynge chose to perform.

Massenet's Manon is pure enchantment from beginning to end—for me at least. The title role is especially well suited to Beverly Sills' voice and temperament, and her ABC recording of Manon is possibly her very best. But, for its more idiomatic style, I prefer the mono set on Seraphim conducted by Pierre Monteux. Victoria de los Angeles and Henri Legay, a tenor little known in this country, make the young lovers irresistible. This one is high on my personal list of great recordings of the century.

And that leaves Faust, one of the great operas of all time. A succession of beautiful arias and ensembles, it is an example of French lyric theater at its most effective. A great Faust is seldom performed with much style or conviction these days. Conversation is not lacking, however, in the Angel recording with Gedda, De los Angeles, and Boris Christoff. The chorus and orchestra of the Paris Opera are conducted by Chytren, who gives the work its proper Gallic flavor and sense of drama. Recorded in Paris in 1958, the set shows its age sonically, but the overall performance is excellent. If you have no recordings of French opera, I suggest you start with this one. And then make some room on your shelves, as the French revival continues, I predict that you'll need it.
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Rarely has technology served music so well.
Going on Record

By James Goodfriend

THE CASE FOR MULTIPLICITY

A friend of mine owns seventeen (at last count) recordings of Schumann’s Kinderszenen. No, he is not the same man who when asked if he liked pancakes admitted that he had trunks full of them. He has a definite reason for owning seventeen recordings of the Kinderszenen, just as he does for owning multiple recordings of Haydn symphonies, Mozart piano concertos, Schubert lieder, Bach organ pieces, and many other works of the standard and not-so-standard repertoire. The reason is that they are all different. Kinderszenen, as Schumann left it to us, is no more than a series of notes and indications—not actually music, but a set of directions for producing music. Every pianist who plays it, therefore, is giving us his idea of what Schumann had in mind, and it is reasonably safe to say that no two pianists have the same conception of what that was. It might be different if technology had allowed Schumann to leave us a recording of the work rather than a score (perhaps played by wife Clara, since Robert himself had already permanently maimed his right hand), but more likely it would not. For what is really responsible for the variety of interpretations of Kinderszenen—and particularly for the variety of fine ones—is not so much a deficiency of musical notation as the richness of possibility of the work itself.

There are, within the limitations defined by Schumann’s score, a lot of different ways of playing Kinderszenen, some more effective, more beautiful, than others, perhaps, but none of them “definitive.” For each approach to the music sets up its own series of problems—those of tempo relationships, dynamic relationships, phrasings, accentuations, and the thousand expressive devices for which we have only such generic names as rubato. The interpreter chooses his problems and then attempts to solve them—and all the time, mind you, he is playing Schumann’s Kinderszenen. A resolution of the problems presents a more or less satisfactory rendering of the piece on its own terms, but it is frequently the setting of the problems that decides how interesting this performance is going to be, even if it is not totally successful.

It is rare that a pianist will play a piece twice exactly the same way, though it does happen. It is almost unheard of that two pianists will play a piece—at least a piece so full of variegated possibilities as Kinderszenen—the same way. And thus recordings tend to contradict one of the basic elements of such music, for their infinite repeatability forces us to hear the same thing each time. We do not hear Schumann’s Kinderszenen, but we hear pianist X’s interpretation of the piece at one particular time and under one particular set of circumstances. If we hear that one performance enough times, the work becomes frozen for us, no longer a fluid and fecund thing, but permanently molded. This is not the best way to know music.

Granted, there have been (and are) certain composers who envision a work as played only one way—or two: the right way and the wrong way. Such composers go to extreme lengths of notation to try to insure that a given performance will conform in the greatest degree to what they want, or they essentially bypass notation and give us instead a completely realized tape recording of the music to insure that there will be no variation between their intentions and what we hear. Granted, also, there are certain pieces of music—many of them, in fact—that to an extent “play themselves,” and the variation from one performance to another is inconsequential, provided whatever directions the composer has left with the score are not actually violated. This is not necessarily inferior music, but it is music in which the options are already chosen and spelled out, or music that has intrinsically few options.

That still leaves us with a great deal of music, much of it generally recognized as some of the greatest we possess. This is music whose essence lies not only in its grouping of notes but in the range of possibilities it provides, music whose performance forever defines us the absolute certainty of what lies ahead. Reduced to the bare notes and playing indications, the same things “happen” each time the music is played, but how they happen can sometimes be the source of a great deal of surprise.

We cannot really get to know such music through unvarying listening to a single recording, no matter how many critics have praised that recording, no matter how much we may have come to love and cherish it. In fact, though it is less satisfying, we can probably get to know such music better through two or more less adequate recordings, or even one good and one mediocre recording, than through a single masterly one. Even bad performances tell us something about the music, since the dissatisfaction induced by a performance that doesn’t work makes us search our minds to find those elements that will make it work; in so doing we discover possibilities in the music whose existence we did not notice before because they were all fulfilled. Enough of that sort of practice and we can listen to a recording of a completely unfamiliar piece of music, hear that it does not come off, and not automatically say that the composition is to blame.

Most people who buy classical records today do not buy multiple recordings of a single work; in fact, they go through agonies to avoid duplication of repertoire. They compensate for the limitations of a single performance by buying another performance of something else. So they avoid the trap of too great a familiarity with one performance of a work simply by not hearing the work itself all that much. They become familiar with more and more repertoire and their knowledge of music tends to be broad rather than deep. It is one of the pleasanter traps of record collecting, and I have, to an extent, fallen into it myself.

But even the most rational plans can become muddled. Some works we have to hear more than others; some works we find that we own in two, three, five, or seventeen different performances, in spite of attempts to do otherwise. It would hardly constitute scientific proof, but going through its options and finding multiple recordings of this work or that might just indicate which music each of us believes, perhaps unconsciously, to be the greatest masterpieces. At any rate, it might be worth thinking about.
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HE LOST ME (AGAIN) AT THE MOVIES

Author Truman Capote once opined that rock singers are really actors. Well, I haven't seen him in Murder by Death yet, so I can't comment on whether writers, too, are really actors, but the theory strikes me as yet another instance of an intellectual's misunderstanding the rock-and-roll process. Certainly, on the basis of Tony Bennett's stupendously horrific emoting in The Oscar (the definitive Great Bad Film), we know that pop singers, at least, aren't actors. And too, it may be significant that there haven't been many good movies starring rockers—lots of drive-in trash, yes, but not many with real substance. If pressed, I might be able to come up with half a dozen or so worthwhile efforts: Richard Lester's Beatles flicks; Tony Richardson's Ned Kelly, oddly underrated, perhaps because of Mick Jagger's rather too effete performance; my hero Sam Peckinpah's Pat Garrett and Billy the Kid, which has really splendid work by Dylan and Kristoffer-Pah's Pat Garrett and Billy the Kid, which has, from a 1976 vantage point, surprisingly turns out to have been the most artful of the Swinging London flicks. And, of course, there's Nicholas Roeg's fin de siècle masterpiece Performance, which leads us neatly to the reason for the preceding ramble, namely David Bowie's film debut, most memorably to explore Bowie's foppish narcissism, to indulge his very original but footless confusion of the homosexual and the extraterrestrial. If Bowie were just a little bit more interesting a figure, this might have worked; Performance, after all, was also concerned with a pop star's self-image. But of course it was about other things as well, and Mick Jagger had the good sense to relegate himself to a supporting role; that wouldn't do for David, obviously.

As to whether David can act—well, maybe you'd better ask Truman about that. I will say, though, that through his peculiarly comically wooden, it does have a certain spastic otherworldliness about it, that he does make a convincing "alien" at times. On the other hand, everyone else in the film, including such real actors as Rip Torn and Buck Henry, is amiably rather terrible, perhaps in synergistic response to the black hole of Bowie's performance. Visually, the film is just as striking as one would expect of a Roeg product, but perhaps because the material is so thin, his directorial tricks (the flash forwards, the lengthy and explicit sex scenes) appear, for the first time, to be simply that—tricks. There is none of the disquieting eroticism that love scene between Donald Sutherland and Julie Christie in his Don't Look Now, none of the ominous, hallucinatory foreshadowings that characterize that film as well as Performance. David's role in the hay with Candy Clark, despite Roeg's directorial leaning, comes off as basically neutral. In fact, perhaps the only scene with any real emotional jolt is the one where David sheds his human disguise (revealing himself as being without genitalia, and Clark, though appalled and terrified, assumes this and fails (naturally) to make love to him. And the music, which was so brilliantly utilized in Performance, is no help at all here. Bowie's own score was unaccountably scrapped (a mistake, for his brand of mechanistic android rock just might have clarified things or at least contributed an atmosphere) and replaced with an incredibly lame one by John Phillips, a parodicistic c-+w affair that only makes one wonder what we ever saw in the Mamas and the Papas.

As I suggested earlier, however, The Man Who Fell to Earth works so hard at being silly that eventually you can't help liking it a little in spite of yourself. And so I recommend it—at least if it hits the dollar theaters in your neighborhood. For myself, I'm now wrestling with priorities. For the opening forty minutes or so you can go along with the gag—a setup for a metaphysical shaggy dog story such as 2001—but the Walter Tevis novel the film was based on has been so bad and pointlessly adapted that there is nothing left of it in the end but a series of plot holes big enough to drive a truck through. Why, for example, does the alien played by Bowie arrive on Earth in a $19.95 pea-green Sears hooded parka? Why, if he has learned Earth language from television, does he (a) speak English with (b) a British accent? Has he been receiving only the BBC? Why does this super being, with powers and abilities far beyond those of mortal men, etc., move to New Mexico to live in aunnial bliss with a truck-stop girl straight out of Nashville? Why, since he has come to Earth in search of water (his home planet is in the throes of a devastating drought), does he attempt to return home with nary a mention of taking back any of the precious fluid?

Ultimately, of course, none of this is germane, because the film isn't about an alien, or anything in the story sense, for that matter. It's about how a particular pop star sees himself. The entire thing has been conceived solely to explore Bowie's foppish narcissism, to indulge his very original but footless confusion of the homosexual and the extraterrestrial. If Bowie were just a little bit more interesting a figure, this might have worked; Performance, after all, was also concerned with a pop star's self-image. But of course it was about other things as well, and Mick Jagger had the good sense to relegate himself to a supporting role; that wouldn't do for David, obviously.
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A preview of

NEWEST AUDIO PRODUCTS
With a snap and a flourish the ribbon barring the entrance to Chicago's gargantuan McCormick Place exhibition center was cut on June 13, 1976, and over 40,000 "reps" and dealers, visiting dignitaries, the press, and a few other general hang-ups streamed in to confront this year's Consumer Electronics Show. As we've explained in years past, the summer CES is "the big one" for most people involved in the audio/hi-fi trade. It is the setting for dealer/manufacturer forums, for displaying innovative prototypes to see if they will fly (and if the dealers will buy), and for extended sales meetings to tout the virtues of the new products that will grace the dealers' display shelves this fall and winter.

When the curtain was finally rung down on the show three days later, everyone seemed to agree that it had been practical, promising, and above all big. This same show, or most of its contents, is now wending its way to you via the pipelines that service audio retailers throughout the country. Without further ado, let's take a look at the products that evoked nodding approval, quiet rapture, and even a few gasps of amazement from those of us that gathered in Chicago during those four clammy June days.

It was truly a show of abundance for stereo receivers this year, with a lot of the activity focused on what is called "filling out the line." Sansui built downward, adding the 7030 (60 watts per channel), the 8060 (40 watts), and the 5060 (30 watts) to support the larger 9090 and 8080 models that head this series. Technics by Panasonic built upward, crowning the stereo receiver line begun last year with the 165-watt-per-channel SA-5760, plus five other models descending down to a low 12 watts per channel. And H. Scott built out in all directions, introducing five new units ($240 to $550) that represent something of a departure from the company's previous spartan styling and encompass a power range from 75 to 15 watts per channel. Just before the show, Pioneer announced five new receivers, all in the mold of the 160-watt-per-channel SX-1250 but ranging from 15 to 65 watts in power and from $200 to $500 in price. (The model numbers run from SX-450 to SX-850 in steps of 100.) Another Pioneer development was the QX-949A, an improved version of the QX-949 four-channel receiver, now with full-logic SQ decoding and a redesigned CD-4 demodulator. And Panasonic stepped in with the new RA-6100, available with built-in eight-track recorder as the RA-6600.

Sherwood boosted the top of its line this year with the 100-watt-per-channel S-9910, augmented by the 60-watt S-7910 and the FM-only S-8910. The S-9910 features an innovative new FM detector circuit. Tandberg added the TR 2055 (55 watts per channel) to its 2000 series, and Akai added the AA-1010 (14 watts per channel) to its 1000 series. Other manufacturers with single entries included Yamaha, with the 25-watt-per-channel CR-450 in the now-classic Yamaha styling, and (of all companies) Advent, which presented its first product of this type, the Model 300 (about $260). The rating of 15 watts per channel may not seem too exciting, but the receiver incorporates the results of much investigation into circuit design. Furthermore, an internal modification sets the Model 300 up to operate from a 12-volt storage battery for mobile use.

Sony's introductions included three receivers in the medium-price range ($400 to $600), the STR-4800SD, 5800SD, and 68000SD. Toshiba revealed surprising depth by appearing with five models from 7 to 50 watts per channel, all with a deep waist-level incision in the front panels meant to suggest staked separate tuners and amplifiers. Nikko brought forth a 68-watt-per-channel instrument, the STA 9095, for just over $500, and Harman-Kardon unveiled a handsome successor to its pre-existing small receiver. The new unit is called the 330C, and it has been increased in power to 20 watts per channel with no price increase over its $220 predecessor. Lafayette announced five new models, ranging from $200 to $600, with the 90-watt-per-channel LR-9090 representing a new high-power point for the company. Miida checked in with two new receivers, the 3140 and the smaller 3125, while GTE (the name under which new Sylvania components will be marketed) displayed a prototype of the Model 2600, providing 80 watts per channel and scheduled for autumn introduction. Fisher displayed its ample line of nine Studio-Standard receivers priced from about $230 to $1,000, and Marantz once again exhibited its seven stereo receivers and five four-channel units (Fisher also retains several of its four-channel units from years past). JVC's new receiver line, introduced in the spring, remains the same.

A formality any new receiver or tuner has to undergo before market introduction is a quick check by the FCC to determine that it does not radiate excessive r.f. energy from its local oscillator circuit. However, with such multitudes of new products, the FCC has fallen behind in its work, and at show time several manufacturers were still awaiting the necessary certification. Among those left in the lurch by the FCC's schedule was the show's most powerful receiver, the Rotel RX-1603 (180 watts per channel), which has adopted the pleasing masculine styling of recent Rotel products and which should cost about $1,000 when available (an unusual feature: the power-amplifier section can be unbolted and separated from the rest of the unit when installation space is limited). Kenwood was similarly delayed in presenting a new de luxe receiver and tuner, but the company's prestigious line of six recently introduced stereo receivers stood it in good stead meanwhile.

Among the show's claimants to serious innovation was the 75-watt-per-channel SR-903 receiver ($500) from Hitachi. The 903 employs what Hitachi calls Class E power amplifiers. Two groups of output transistors per channel are used; one group handles low-level signals while the second group "switches in" for high-level information. The idea is not entirely new, but the execution is: it should result in lower operating temperatures, a worthwhile increase in the "music-power" capabilities of the amplifier, and certain attractive economies in the power supply and heat sink.
If you were expecting to read about myriads of big super-power amplifiers in this space you are a little late. All of those were introduced last year, practically by the dozens. This was the year of the medium-size (if you will) super-power amplifier such as the Audionics PZ3 and the Nakamichi 620, each rated at 100 watts per channel. Both are interesting and innovative. The Nakamichi output circuit is said to operate essentially in the Class B (as opposed to the usual Class AB) mode. Class B, while highly efficient, is shunned by most designers because of distortion problems. However, special control circuits for the output-stage bias have resulted in a guaranteed specification of less than 0.005 per cent distortion of any kind, under any conditions, up to a frequency of 10,000 Hz—the most ambitious figure I can recall being quoted for any audio component. The Audionics PZ3 also has bias-control circuits and offers specs that are nearly as good.

In addition, we encountered some new big power amplifiers that we had previously heard about but had never actually seen, such as the Tannoy basic stereo amplifier from Pair-thian (100 watts per channel at 0.5 per cent THD) and its companion Model 24 preamplifier incorporating octave equalizers for each channel. We had also had a bit of advance word about the B-2 power amplifier from Yamaha (100 watts per channel at less than 0.08 per cent THD) and its companion, the low-silhouette C-2 stereo preamplifier. Like their predecessors, the B-1 and the C-1, the new components make heavy use of field-effect transistors right up to the output stage, where new complementary V-FET's are employed in the B-2. And the C-2 has a completely new facility for Yamaha: a high-sensitivity phono preamplifier to accept the output of a moving-coil cartridge directly without the need of a separate preamplifier. Prices are $850 (B-2) and $650.

Another high-power entry, the Dynaco Mark VI, is a rack-mounting vacuum-tube mono power amplifier aimed at the professional as well as the consumer market. Its 120 watts puts it up there with the biggest of the tube units, although it is actually a super-power redesign of the elderly and respected Mark III. Luxman’s amplifier introductions consisted of the 5M21 stereo power unit, resplendent in the company’s tasteful styling, and the SC50 stereo preamplifier, which is compact and low-silhouette. The power rating for the 5M21 is 100 watts per channel with less than 0.01 per cent harmonic distortion.

Something rather novel turned up from ESS: the new “Touch Control” Series Eclipse preamplifier and power amplifier. The Touch Control units are knobless, slideless, and buttonless. Instead, flush-mounted contact plates perform most of the switching and also direct the preamplifier to shift up or down in volume at a steady rate. Tall vertical bars of light indicate the status of the switches and also serve as an output-level display for the power amplifier. (The amplifier, incidentally, is basically the recently introduced Eclipse 500A; it provides 250 watts per channel.)

The sudden popularity of integrated amplifiers, while it puzzles some students of the marketplace a little, is certainly authentic and enduring. This year brought a very elaborate 120-watt-per-channel unit from Sherwood, the HP 2000, and a sister model, the HP 1000, at 60 watts per channel. The Marantz 1250, with an output rating of 125 watts per channel, has notably versatile switching for tape monitoring and dubbing that permits simultaneous processing of several program sources. Sansui has added four new integrated amplifiers to its 1976 line, ranging from the Model AU 7900 at 75 watts per channel to the AU 9000 at 22 watts per channel, with prices spanning $400 to $160. Sony now offers the S-5000, which has the distinctive appearance that company has recently adopted for its electronics. And four new integrated amplifiers from Scott, ranging from Model 406 to A 436 in steps of 10 and from well below $200 to $300, are genuine adornments, stylistically speaking, for that manufacturer's line.

NEW for Bozak this year is the 949 integrated amplifier, which reportedly combines the performance and essential features of the 909 preamplifier and the 65-watt-per-channel 939 power amplifier, both of which are also new.

At 130 watts per channel, the Kenwood 600 was the largest new integrated amplifier we saw at the show; it was accompanied by its smaller brother, the 500. Both have dual power supplies, separate for each channel. Rotel presented a 75-watt-per-channel addition, the RA-1312.

A new entry into this product category was a company called Clarion, which has equipped itself with three cleanly styled integrated amplifiers, the MA-7800, MA-7600, and MA-7400, ranging from just over 20 to about 45 watts per channel. Hitachi brought two new models, the 100-watt-per-channel HA-1100 and the smaller HA-610, and Nikko had one, the TRM 750 integrated amplifier, at 45 watts per channel.

Back in the world of power amplifiers, BGW presented a very slim unit, the Model 100 ($319), designed to rack mount and to provide 40 watts per channel. The P-20 power amplifier (70 watts per channel) also features separate for each channel. Rotel presented a 75-watt-per-channel addition, the RA-1312.

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power amplifier can now be bought with output-level meters as the A-1800M. And the Quintessence line has gained some depth with the 150-watt-per-channel Power Amplifier II.

In the precinct of the exotic, a new company staked out a claim this year: Uesugi Laboratories, with a 20-watt Class-A power amplifier (employing what appears to be a single pentode transmitting tube for its output), a stereo preamplifier, and an electronic crossover, all of which employ vacuum tubes exclusively. Mark Levinson also announced a no-holds-barred Class-A power amplifier; details were few at show time, but the manufacturer suggested that the retail price might be in the neighborhood of $100 per watt. Also in the exotic category are Jensens Stereo Shop's modifications of the Dynaco PAT-5 preamplifier and Stereo 400 power amplifier. They are not inexpensive, but they are said to add a final touch of refinement to products that are already excellent. Close by, Dunlap Clarke showed, along with its high-power amplifiers, a new preamplifier, the Model 10 ($675), with separate phono preamplifiers for conventional and moving-coil cartridges. In another development of note, Infinity Systems gave solemn assurances that its revolutionary Class-D DSP Switching Amplifier, which has been cropping up in these pages for several years now, will finally be available "in the immediate future." And Stax presented two new Class-A transistorized power amplifiers, the 50-watt-per-channel DA 80 and the 80-watt mono DA 80M. Both are priced at $1,500.

To close, a glance at the British forces, which continue to gather strength at CES: Monogram Professional Audio had one of the largest stereo power amplifiers (100 watts per channel) that we have seen come from England, plus a preamplifier with eleven-band equalizer controls that the company calls the Room Acoustic Amplifier. The respected J. E. Sugden equipment made its first CES appearance, leading with the A48 integrated amplifier (45 watts per channel) and the QS1 four-channel decoder for SQ, QS, and BMX matrix systems, among others. Naim Audio was on hand with a 50-watt-per-channel power amplifier and a straightforward preamplifier. And there were many more as well, if only space permitted us to describe them here.

**TUNERS**

In tuners this year, Sherwood managed to steal the show with the intriguing Micro/CPU 100 FM-only instrument. The first thing you note about the Model 100 is that it has not only a conventional-seeing tuning dial, but also an illuminated numerical frequency display and an alphabetical illuminated display of the station's call letters. This last display has all the letters of the alphabet plus some other symbols on top. The user simply punches in the right combination of letters for stations in his locality, and the tuner's memory holds onto them (it seems to us that he could also punch in any four-letter words he deemed appropriate for particular stations). Although the prominent tuning knob makes it appear mechanical, the tuning system is entirely electronic, and the tuner will scan the FM band for you automatically if you wish. Even the tuning dial is deceptive, using not a mechanical pointer but a dial-long row of LED's. Up to four stations can be preset to be recalled at the touch of a button. All in all, taken together with its advanced performance capabilities, the Micro/CPU 100 seems to offer a lot of innovation—even for a price of about $2,000.

Another numerical-readout FM tuner was presented by Luxman, this one a frequency-synthesizing device. Designated the Model ST50, it also has a tuning dial in addition to the numerical frequency indicator. Presets for seven stations are provided, along with a pushbutton-activated scan mode. The Luxman tuner has built-in Dolby circuits for FM as well as a 400 Hz test-tone oscillator for Dolby calibration.

For about $1,600 you can buy the Sequerra Model II, a unit with performance equivalent to that of the original Sequerra tuner but without the built-in oscilloscope display. The display will be made available as an option later on. The first tuners to be offered by Technics are the Models 8600 (about $330) and 7600 ($180). The 8600 has a built-in pink-noise generator plus a switch that cancels the de-emphasis circuits.

Of course, many of the manufacturers with new integrated amplifiers accompanied them with new AM/stereo FM tuners. H. H. Scott introduced two, the T-516 and the more elaborate T-526, at $170 and $250. Sansui unveiled three in the medium-to-low-price range ($230 to $160) bearing the same model numbers—but with a "TU" prefix—as their corresponding integrated amplifiers. Sony came out with two, the Models ST-3950SD and ST-5950SD, both with Dolby noise-reduction circuits. Two more came from Hitachi, while the three new tuners from Clarion were set off by their distinctive styling. Rotel, meanwhile, showed a pair of new tuners, the RT-724 and the previously announced RT-1024.

Phase Linear now has an FM-only tuner, the Model 5000, with a built-in expander circuit whose characteristics are designed to undo the dynamic-range compression applied by many FM stations. The price will be roughly $500.

The English firm Harrison-Chapman was another manufacturer with a numerical-readout tuner, the ST 200: its display functions for both FM and AM. It also has a scan function and five station presets for each of the two broadcast bands. The company also exhibited but did not announce a numerical-readout receiver with some similar features.

To close on a comforting note: Yamaha advises that the famed CT-7000 tuner is now optionally available, with a black front panel, as the CT-7000BL. The direct-drive YP-801 turntable from Yamaha also comes black upon request.
The AKG phono cartridges which were in the wings last year at last made an appearance at McCormick Place. As expected, there are five models ranging from the deluxe P7ES (individually calibrated) to the P7R, equipped with a 0.7-mil spherical stylus. All other models have elliptical (biradial) stylus. A technical point stressed by AKG is the development of a suspension system ("Transversal Suspension") that keeps the pivot point of the stylus assembly coincident with the center of the suspension system under all playing conditions.

Other introductions of particular note were the first Shure cartridge designed for CD-4 use (see this month’s New Products) and the new Silver Label series of Sonus cartridges consisting of the Model P for CD-4 and stereo reproduction and the Model E for stereo use alone. The new series is designed to be more compatible with less-expensive tone arms than the costlier Red and Blue Label designs.

A new arrival from England is the Goldring G900 SE "micro mass" cartridge. a magnetic design that is said to weigh a mere gram. Drastic reductions in the mass of the moving system and of the coil assembly are said to be responsible for the pickup’s astonishing weight.

Pickering announced a new stylus shape, the "Stereohedron" tip, which evidently resembles a CD-4 stylus in certain key respects but is intended for stereo use. A cartridge of this variety to be equipped with the tip is the XSV/3000. For its part, ADC introduced "pre-mounted" XLM MK II cartridges, the mounting being a low-mass cartridge shell with a bayonet connector of the type used in many high-quality arms.

The interest in moving-coil magnetic cartridges continues, with Superex now arranging to import the latest Satin cartridges from Japan. Aside from an innovative internal construction that in certain aspects resembles a cutting head, these pickups have unusually high output for moving-coil devices. They are rated at 3 millivolts per channel for a lateral recorded velocity of 5 centimeters per second, enabling them to feed a conventional phono preamplifier directly instead of through a step-up transformer or some specially designed gain stage. Two models are offered, the M-117E with elliptical stylus and the M-117X with Shibata stylus. The stylus are user-replaceable.

If 1975 was the year of the manual turntable, 1977 will indisputably be the year of the direct-drive turntable. As if to prove this, the grandaddy of them all, the Technics SP-10, made a grand entrance at the show this year as the MK II; its new regalia consisting of a quartz-crystal oscillator and a phase-locked-loop speed control, a physically separate power supply, and a remote-control module.

Over the past year the ranks of direct-drive machines have swelled considerably, with Marantz, Sony, and Fisher, among others, making notable introductions. New appearances at CES were even more numerous. Garrard’s DD75 manual is the first direct-drive machine for this manufacturer, featuring a photoelectric/solenoid arm lift at the end of the record and a handsome teak-finish base. Dual has a new top-of-the-line machine, the CS 721 (about $400), which is a fully automatic single-play turntable with a tone arm that is adjustable in height to permit cartridge mounting without the use of spacers. A companion machine, the directdrive 704 (under $325), is similar except that automatic features are limited to an end-of-record arm lift. (A third Dual single-play model, the 502, is belt driven with an automatic arm lift.)

Pioneer’s latest direct-drive entry, the PL-530 (about $250), has a second motor which operate the automatically cycling tone arm and an unusual internal suspension system. And from Sansui comes the SR929 ($430) with a direct-drive motor regulated by a quartz-crystal oscillator and a phase-locked-loop servo system. IVC’s TT-101, the company’s finest turntable, is supplied as an inverted-derby-shaped module without arm or base. On a ring corresponding to the brim of the derby are light-touch push buttons for on/off and speed selection, a numerical (1) LED speed indicator, and a line of LED’s comprising a vernier indicator for fine speed adjustment. The machine is direct-drive, quartz-regulated, and phase-locked.

Kenwood’s new direct-drive turntable is the KD-550 with tone arm, the KD-500 without. It is also phase-locked, and, like the Sansui unit described above, it has an inert base molded of a plastic-concrete compound that is said to resist feedback and vibration very effectively. Among Kenwood’s very latest turntables, a line of four belt-drive machines, the top two models (KD-3055 and KD-2055) also employ this type of base.

Micro Seiki, which is now being distributed by Teac in the U.S., has at least four direct-drive models in its line of single-play turntables, along with three belt-drive machines. The top of the Micro Seiki line presents a startling, even wondrous appearance. A thick, highly polished platter spins in naked glory above a striking three-point support system. At the end of each support arm is a tone-arm station, and in the show unit a different make of tone arm occupied each station. These stations pivot to permit proper overhang adjustment of each arm.

Another Sony direct-drive model, the PS-3750, has the distinctive styling that has marked the Sony turntables of late. The least expensive direct-drive machine at the show was perhaps the Sanyo TP825D, with a suggested retail price of less than $180.
The RT-4000 is Rotel's second direct-drive turntable, and Hitachi also showed two at McCormick Place, the PS/38 and the de luxe PS/48. Lafayette now has a direct-drive unit, the T-6000 ($230), together with two new belt-drive machines at lower prices. And finally, the high-styled Gale turntable featured on our October 1975 cover was shown once again.

The busy-ness in the direct-drive camp did not markedly detract from activity in other turntable areas. Garrard, for example, had two more product introductions to make: a low-mass version of the tangentially tracking tone arm featured on the new GT55 belt-driven automatic turntable; and the more conventional idler-driven automatic, the 775M. B.I.C. hit its lowest price point yet with a belt-driven automatic turntable, the 920, at less than $80 (the company also previewed an advance sample of a new top-of-line, automated, remote-controlled turntable about which we are requested to say nothing more at the moment). The Marantz line has been graced with two new belt-drive single-play machines, the 6200 and the 6100, to augment that manufacturer's direct-drive models. The 6200 has fully automatic operating features.

The Empire 698, with its semi-transparent tone arm, was present at the show, as was the Yamaha YP-450, a new belt-drive manual in the moderate-price range ($160). Another show unveiling was the Theorell top loader, the TD 126C; it provides a number of operating features that are new for this Swiss company and is perhaps the only machine of its caliber still to offer three speeds: 33⅓, 45, and 78 rpm.

Five belt-drive units are reportedly brand new in the Lenco line, with the top model, the L-90, featuring Lenco's IC electronics for automatic arm lift and shut-off at the end of a record. Phillips showed some prototypes of yet-to-be-announced belt-drive single-play machines, while Connoisseur revealed the final version of the BD3 single-play machine which was only previewed a year ago (note that the BD3 also has a 78 rpm speed). Goldring, known in the U.S. for its phono cartridges, has now presented us with a turntable as well, the CK2 manual. The new BSR belt-driven automatics, led by the Model 200 BAX, are all equipped with ADC magnetic phono cartridges. Also new to a handsome new import from England, the Ariston RD11E belt-drive manual, is distinguished by a metal-finish platter with two narrow rubber rings for record support and an unusually good rumble specification.
The overwhelming success of the TV show called Soul Train brought disco out of the closet, so to speak (above, Hamilton Bohannon gets down) Le Jardin, for instance (one of New York's landmark discos, originally for gays only, and now defunct), and that was a Problem. Bobby ('D.J.') Gut-darado, one of the best known and most respected disc jockeys around and one of the major contributors to the success of Le Jardin, blames the growing apathy of the crowd, saying that the people were becoming less interested in the music and more interested in 'socializing.' For whatever reasons, things began to go downhill, and there was a definite need for something more.

This feeling was expressed by the flight of the hard-core discotheque-ees from Midtown to Greenwich Village. In short order, there were discos springing up all over the Village. There was a small catch, however: what had been very public places became very private (members and guests only). Snobbish as it was, it did the trick, and business picked up. Styles of dancing remained pretty much the same; people still did the Hustle, still danced (variously) Latin, together-but-alone, or simply alone. One remarkable innovation, though, was a dance called the Machine, the Hollywood, or the Madison (depending on which part of town you were from), one of the most amazing dances ever to be seen on God's Green Earth. The dancers would line themselves up in long phalanxes, all moving their feet in synchrony to a fairly complicated step, producing a truly remarkable experience not only for the dancers but for the spectators as well. The first time I saw it I had the feeling that the dance was nothing less than a political statement for the feet, the disco crowd physically demonstrating its solidarity against what they thought of (then) as the 'straight' world. Whatever else it is, it is certainly impressive.

Of course, the men who market popular music caught on quickly; they were by now well aware of what had been happening. No longer did the radio programmer make the hits, so it was the disco D.J. who was now being flooded with promotional copies of records to sift through, select, and play to death. (Incidentally, the technique of spinning a turntable, of mixing different songs into one continuous flow of music according to the mood of the crowds, had also become something of a minor art. The boys in the booth had become, like their radio equivalents, true professionals, and they knew how to make a large floor party.) Record companies began to set up special disco a&r departments to produce disco records and special disco promotion departments to persuade the disco jockeys to play them in the clubs. In some cases this has worked very well, selling records in great quantities. Suddenly records by groups unknown outside disco circles began to be certified gold by the RIAA.

As word of the new dancing madness filtered up to the straight, business boomed at dancing schools offering instruction in the new steps. And some midtown discos opened at noon for lunch-hour dancing by office workers who could not stay up all night in the really hip discos, where the action begins in earnest only at midnight. The fad aspect of the disco phenomenon attracts the International Jet Set in much the way the Twist, Chubby Checker, and the Peppermint Lounge had in the Sixties. New York's haut monde in 1976 could dance to disco music in such elegant (and expensive) surroundings as Regine's, an Art Deco club in Delmonico's Hotel, or in some of the fancier clubs downtown. Disco music became the walk-on music at so many fashion shows that professional dancers were hired instead of the usual models to boogie down the runway displaying the latest clothes by such designers as Yves St. Laurent.

Today, there seems to be more interest nationwide in disco music than ever before, especially beyond the provincial boundaries of New York and Los Angeles (Soul Train's origin point)—a state of affairs that is a trifle ironic, for the quality of today's disco music increasingly seems to be of less importance than the fact that it is just there. A certain spark seems to have been lost in the shuffle (or was it the Hustle?) There are still a lot of good songs coming from New York, L.A., Philly, and elsewhere, but more than ever the music's detractors, who have cried "formula" since the boom started, are in some ways being vindicated—as witness the current lamentable trend of taking old songs and shooting them up with a disco beat: Brazil, How High the Moon, Baby Face, the theme from Exodus, and yes, even the theme from Love Lucy, now called Disco Lucy. This kind of low-rent, high-camp fodder could well signal the death of the music.

When I questioned him about a possible decline in the current disco output, Bobby D.J. was generally evasive. "Sure, there's garbage," he said, "but as long as there are people who like to dance there will always be disco." Bobby currently "tables" (that's turntables, of course) at Infinity, one of the "cheeker" (as we say in the Village) discos (members and guests only), and according to him there is virtually no difference in quality between the records he is spinning now and those he spun at Le Jardin a couple of years ago. What makes disco music viable as music, he maintains, is that it's "shown people that dance music isn't something that's just thrown together and put on a juke box." In general, I'd have to agree; the amount of sophistication and plain hard work that go into the production of a genuinely successful dance record is astonishing, and even though I am a bit disappointed with the quality of most of what I'm hearing now, there are still plenty of new records around that delight me. A few that come to mind as of this writing include Pat Lundy's Day by Day, Vicki Robinson's Turn the Beat Around, and the remake of the Supremes' I Hear a Symphony by Hank Crawford.

And so the beat goes on. And on. And on. Disco will undoubtedly be with us for some time to come, and is, in fact, in the process of going international. The members of Atlantic's Average White Band, one of their hotter disco acts, are Scottish; one of the biggest hits of 1975, Fly Robin Fly, was by a German group (the Silver Convention) out of Munich, and it is possible that all this may eventually work its way back to Paris, where it began in the first place. But as to whether a Barry White or a Gloria Gaynor will ever be revered the way rhythm-and-blues or jazz greats like Chuck Berry and Ray Charles are today, or whether disco as a music will go the way of the Twist, only time will tell. In the meantime, you can, as that felicitously named disco disco has it, Dance Your Ass Off.
RECOMMENDED DISCO DISCS

- Donna Summer: "Love Trilogy," OASIS OCLP-5004.
- Roberta Kelly: "Trouble Taker," OASIS OCLP-5005.
- Gloria Gaynor: "Experience," MGM MG3-4397.
- Disco Tex and His Sex-o-Lettes, CHELSEA CHL-505.
- First Choice: "So Let Us Entertain You," WARNER BROS. BS 2934.

Disco-hitters, clockwise above, are: the Jackson Five (Motown), LaBelle (RCA), the First Choice (Bell Records), Billy Paul (Philadelphia), the Main Ingredient (RCA), Gloria Gaynor (Poly-3or), the Spinners (Atlantic), Silver Convention (Midland International), and Barry White (20th Century).
Back in the good, old, simpler days, literary people used to talk a great deal about The Great American Novel, the large-scale social epic in the form and tradition of the European nineteenth-century novel that would somehow epitomize the American experience. In the same vein, a whole generation of American composers set itself to write The Great American Symphony, a serious, American version of another great tradition, with impact and wide appeal. Did they succeed? Questions of virtue and ultimate value have yet to be answered, but what we do know is that the development of a distinctive American symphonic school was a major event in American cultural history and that the achievements of that school are up for substantial re-evaluation.

The parallels between the development of the novel and symphony are quite suggestive. Both forms were born in the eighteenth century and reached high points in the nineteenth; both are strongly connected with the rise of middle-class culture; and both forms were brought to America, where they had a late flowering. The novel fared better in nineteenth-century America with the writings of men like James Fenimore Cooper, Herman Melville, and Nathaniel Hawthorne; there are no symphonic works of comparable importance. But the Great American Novel phenomenon really refers to all those turn-of-the-century social sagas, and it was just at that period that a real American consciousness began to emerge in art music. It was not The Symphony yet, but it was American.

The first American composers to take the question to heart were of the generation born in the 1860's and 1870's. Arthur Farwell, born in 1872, was perhaps the first strong spokesman for the "new and daring expressions of our own composers, sound-speech previously unheard"; he founded the Wan Press to publish new American music. Farwell's work and that of Henry F. B. Gilbert (1868-1928) used American Indian and black music as sources of inspiration. After the turn of the century, ragtime and other elements of pop music engaged the interest of composers searching for an indigenous American style. Besides Gilbert (The Dance in the Place Congo and American Dances in Rag-time Rhythm), perhaps the most outstanding was the more sophisticated John Alden Carpenter (Adventures in a Perambulator and Krazy Kat, both ballet scores).

But whatever their talents, virtually all of the composers of that time suffered greatly from certain facts of musical life. A truly American symphonic school was an impossibility in a situation where the orchestras and concert institutions were almost entirely made up of and controlled by artists with a thoroughly European (mostly Central European) classical orientation. The best that could be hoped for under these circumstances was a folk-music frosting on a Dvořákian, Brahmsian,
The American symphonic movement produced a broad body of excellent, expressive, and poetic work that can stand beside any of the other achievements of American art.

One big influence in the Twenties was, of course, jazz. But there was another. As the old, genteel musical culture, with its Central European biases, faded in importance, a strong French or (more accurately) Franco-Russian influence came to the fore. This might seem like trading one set of overseas influences for another, but there was an important difference. The Germanic sway had been confining, traditionalist, and academic. The French and Russian approach was modern, open to cross-currents, and closer to the vein of popular and folk influences still waiting to be mined. The long procession of returning American students of Nadia Boulanger (beginning with Aaron Copland) and the presence and, in varying degrees, the Americanization of such musicians as Edgar Varèse, Serge Koussevitsky, and Igor Stravinsky were major factors in our musical life. The new fascination with the sound of jazz and the free, rich, fluid, modal qualities of modern European harmony and rhythm encouraged American composers to experiment with the problems of mating popular sources to symphonic sound and form. The most famous issue of this match was, of course, Gershwin's *Rhapsody in Blue* (slightly illegitimate, but all the more fascinating for that). The jazz works of Copland are of equal note: *Music for the Theater* and the Piano Concerto are the most important. Other composers went at it as well, most notably Louis Gruenberg (*The Daniel Jazz and Jazz Suite*).

Despite the success of individual works, there was to be no real jazz symphony, and the direct impact of the music was surprisingly short-lived. The really dominant note in American new music during the Twenties was avant-gardism. The work of Varèse, Ruggles, Cowell, Antheil, and others, although stylistically diverse, was all characterized by a devotion to new and advanced musical ideas. Most of these composers wrote for orchestra, using the large modern symphony as a clangorous or highly dissonant, heterogeneous color mass, but a great deal of their activity was concentrated in the field of chamber music. Was the new American music going to turn out to be something quite far removed from nationalism and popular sources? Many thought so. Varèse, who called his first large work in the new style *Amériques*, was consciously trying to capture something big and new that would express the dynamics of the burgeoning American civilization as he understood them. This association of new music with the machine age permeated musical thinking in the Twenties. Even Copland was not immune; his Piano Variations of 1930 is pure age-of-steel music, and he wrote orchestral music in this vein as well.

With the advent of the Great Depression, however, still further changes in musical and cultural life took place. The modernist tendencies of the Twenties gave way to new social concerns and, in one form or another, social realism was born. The old genteel audience was the social elite, but the public for modern music was the intellectual middle class. In the Thirties, composers became aware of and involved with the much larger audiences whose cultural interests were being formed by popular music, radio, and the movies. The challenge was to find or create a contemporary "serious" style that could reach a large or even a mass audience, one that had not been nourished by the classics or by intellectual modernism. For many, this movement—which was by no means restricted to America—had political significance; others adapted its ideas to nationalistic ends; still others merely swam with the tide. But a tide it was—within a few years it swept modernism aside and came to dominate American music until the Fifties and the re-emergence of modernism. (It dominated the other arts as well—see, for example, the paintings of Edward Hopper or of Thomas Hart Benton.)

The new Americanism of the Thirties was a conscious revival of nationalism and folklore (our lately current folk and folk-pop movements are heavily indebted to this earlier interest). The in-
The sound of this music, although at first somewhat trashed by movie-music imitators, is now part of our tonal subconscious; it is part of our heritage whether we realize it or not.

Fusion of folk, jazz, and popular elements into "serious" music occurred first and principally in the theater, in modern dance, and in film music. Music written in these genres is not "pure" music, but it was symphonic and had an enormous impact. Here again we find the name of Copland in the forefront, most notably with his famous ballets *Billy the Kid*, *Rodeo*, and *Appalachian Spring* and a series of notable film scores as well. Copland wrote fewer purely symphonic works, but these were influential too; his Third Symphony of 1946 seems almost to be a symphonic summing up of the period.

While the importance of Copland is undeniable, the creation of a recognizably American symphonic style owes at least as much to Roy Harris, once rated as one of the country's leading composers and now only slowly coming back from a long period of neglect. Unlike his confreres, Harris was not much involved with folklore or with the theater and films; he put his principal creative energies into symphonic music. The Americanism of Harris' music is not really a function of a conscious use of Americana (his *Folksong Symphony* came somewhat later) but was built into his style from the very beginning: expansiveness, fluidity, and cross-rhythms; a very free melodic style; the use of ostinatos and block, polychordal harmonies built on triads, fourths, and fifths that give it that wide-open spaces *American* sound we've come to know and love so well. These characteristics—they are also, to be sure, found in Copland and elsewhere—are developed with a real symphonic breadth in works like the Harris Third Symphony of 1938, perhaps the best candidate we have, after Ives, for the title of Great American Symphony.

Copland and Harris established a recognizably American symphonic idiom which has been much imitated. Their influence has extended not only to other concert composers but even to the popular field and—most particular-ly—to the film industry, which has made the style all too common musical coin. But let us not confuse the originals with, or blame them for, the sins of their imitators; Harris' music, past and current, deserves a re-hearing and re-evaluation on its merits as well as its historical importance.

Although the Copland/Harris style was pivotal, it by no means tells the whole story. Probably the most articulate and individual proponent of Americanism and the new simplicity in symphonic music was Virgil Thomson. Thomson, who spent formative years in Paris and was later music critic of the New York *Herald-Tribune*, turned to American sources in the Twenties with his *Symphony on a Hymn Tune*, in several collaborations with Gertrude Stein, and in four documentary film scores, notably *Louisiana Story* and *The Plow That Broke the Plains*. Thomson's starting point was the familiar triad harmony of American hymnody, and because of this his music has—in spite of (or perhaps because of) the composer's intellectual sophistication—a strong popular sensibility.

Henry Cowell was one of the few composers associated with the radical music of the Twenties who became identified with later populist symphonic movements. Cowell was deeply involved with folklore, not just from North America but from all over the world; in the Forties and later he produced a whole series of symphonies incorporating these elements.

It is remarkable how close the composers of this new American symphonic music were to each other in age. Thomson was born in 1896, Cowell in 1897, Harris in 1898, and Copland in 1900. Our picture of this era in American symphonic music can be rounded off with a mention of two other composers of virtually the same age: Roger Sessions (b. 1896) and Walter Piston (b.
1894). Both Sessions and Piston were university professors for many years; both started as neo-Classicists, and both retained strong traditional elements in their work. But while Piston remained the staunch Classicist, Sessions' work evolved into dissonance, expressionism, and ultimately a very intense, American form of twelve-tone symphonism. As we shall see, Sessions led the evolution of the American symphony from the open, tonal-modal forms of Harris to the introverted modern-traditionalism of its final phases.

As American music became more and more accepted in the concert hall, large symphonic forms became the dominant mode of American music. One branch of a by-now well-rooted tree might be represented by the kind of neo-Romanticism one finds in the work of Samuel Barber or, in a very different way, that of Howard Hanson, the least American of American symphonic composers. However, beginning just before World War II and continuing for almost two decades, conservatories and conservatory-trained composers came to occupy a central place in American music. This development was strongly associated with the development of a relatively conservative, non-folkloric symphonic style, and that style's leading composers are still among the big guns of American symphonic music: William Schuman (b. 1910), Vincent Persichetti (b. 1915), David Diamond (b. 1915), Norman Dello Joio (b. 1913), and Peter Mennin (b. 1923). The work of these composers is related, and they virtually form a school and a style; big, traditional symphonic forms; long, slow-developing melodic lines; polychordal harmonies with a certain spice; strong, pulsating rhythms; and broad, pungent orchestral color. Another Third Symphony—William Schuman's—is one fine example. Its movements—Passacaglia, Fugue, Chorale, and Toccata—are not (contrary to the titles) really neo-Classical at all but show an absorption of tradition into a distinctive, very secure contemporary symphonic vocabulary. Schuman has more than a bit of Americana in some of his music, but works like the Third Symphony are American in a more general way: in their scale, rhythmic and harmonic bite (distantly jazzy), and their brassy (literally and figuratively) confidence and optimism.

After World War II, two strong directions in American symphonic music seemed apparent. One group of composers, including Roger Sessions and (to many people's surprise) Aaron Copland, moved strongly in the direction of chromaticism, atonality, an intense symphonic expressionism, and even twelve-tone theory. The other, under the influence of Stravinsky and, to a lesser degree, Hindemith (both were active in America), espoused a lively neo-Classicism. This group, including Arthur Berger, Ingolf Dahl, Irving Fine, and Lukas Foss, produced music full of elegance and wit—American most of all in its rhythmic vitality, otherwise related to international developments. This rather brief flowering of American neo-Classicism faded quickly and merged into the growing expressionist and twelve-tone movement.

The impact of expressionism and the twelve-tone method on American music would require a whole chapter of a book unto itself. Schoenberg's first American pupils were Adolf Weiss (who probably wrote the first American twelve-tone music) and Marc Blitzstein (who moved in a populist, anti-modernist direction in his music-theater works). But Carl Ruggles had already created a distinctive American expres-
The orchestra as an institution is a kind of economic anachronism which survives in this country on prestige and handouts.

Sionism in his large-scale, dense symphonic works beginning after World War I, and Wallingford Riegger applied chromatic ideas to symphonic forms over several decades beginning in the Thirties. World War II brought a number of major Central European composers to this country—most notably Schoenberg himself, but also Ernst Krenek and Stefan Wolpe—and their influence was felt. In 1950, Ross Lee Finney, a student of Boulanger and also of Alban Berg, began to use tone rows in symphonic and chamber works; Sessions was doing the same by 1953. The infiltration of chromaticism and twelve-tone ideas, strongly resisted at first, became amazingly rapid; by the early Sixties one could say that the twelve-tone symphony had become the norm, the style of the mainstream of new American concert music. All of the previously mentioned neo-Classicists incorporated these ideas into their work, and a whole new generation of composers (Ben Weber, Leon Kirchner, Hugo Weisgall, Andrew Imbrie, Milton Babbitt, Ben Weber—all but the last pupils of Sessions) had come up, and chromaticism was their natural mode of speech.

The latter-day twelve-tone symphony may seem a far cry from the simpler verities of a Roy Harris work of the Thirties, but there are more connecting links than might at first be apparent. The American symphony was never a static thing but a constantly evolving search for expression, and if we follow the steps of that evolution we will understand that the development had its own inner logic. The twelve-tone symphony is as much a part of the history of American art as the abstract expressionist painting which was its visual counterpart.

We are not quite at the end of our story. The symphony in the traditional sense could not play much of a role in the revolutionary and avant-garde arts of the Sixties here. In Europe, where orchestras are state-supported, many of the younger composers did return to the symphony orchestra as a contempo-
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CIRCLE NO. 54 ON READER SERVICE CARD
"CARLO BERGONZI SINGS VERDI: Thirty-one Tenor Arias from Oberto (1839) to Falstaff (1893)"—so reads the full title of a remarkable new three-disc set from Philips. The music ranges from simple cavatinas to elaborate scenes with choruses, and it includes arias—with or without recitatives, with or without cabalettas—that call for a full range of tenor voices, from the light lyric Fenton to the fully dramatic Otello, with the result that we are given a rare and fascinating overview of Verdi's musical development from the early Donizetti-like writing in Oberto and Un Giorno di Regno to the unmistakably individual sound of his later years. A project as ambitious as this, however desirable, is naturally subject to many pitfalls. Fortunately, since it was entrusted to Carlo Bergonzi, it is a resounding triumph.

There are tenors before the public today who surpass Bergonzi in sensuous tonal beauty, and he was never noted for a powerful sound. But we must go all the way back to Tito Schipa to find his match in tonal refinement, elegance of phrasing, and innate musicianship. Like Schipa, he is a master of dynamic gradations, commanding so many shades above his pianissimo that he can create a fortissimo effect without actually resorting to loud singing. The floated diminuendo is another Bergonzi specialty, and if you wish to examine his handling of the phrases "dove mortai non va" (I Lombardi) and "dell'immortai mio di" (Attila) you will find this point clearly illustrated.

There is a dramatic rightness in Bergonzi's singing that is achieved without excessive stresses, intrusive aspirates, or other distortions of the vocal line, and he enunciates recitative passages clearly and meaningfully. Young Foscari's heartbreaking scene in his prison cell (I Due Foscari) is masterfully realized, Corrado's Romance is filled with dejection (Il Corsaro), and Riccardo's "Ma se m'e forza perderti" (Un Ballo in Maschera) simply rings with melancholy pathos.

Rodolfo Celletti makes some excellent points in his jacket annotations about Bergonzi's skill as a Verdi interpreter. A conscientious adherence to the composer's notations is one of the components: observed trills in "Ah, sì, ben mio," Verdi's seldom-followed though written-out cadenza at the end of "Parmi veder le lagrime" (Rigoletto), and the controversial morendo ending in "Celeste Aida." With Bergonzi, sound and style are inseparable; whatever he may lack in tonal richness he makes up for in refinement. The total achievement is surpassingly beautiful, a kind of "how-to" textbook for singers—and for teachers.

These are all new recordings: the excerpts from Attila and I Masnadieri are
taken from the complete sets already released by Philips, the others have been made expressly for the present collection. Not everything, to be sure, is flawless; Bergonzi is past fifty, and it would be foolish to pretend that he still has the full complement of lavish vocal gifts he displayed, say, ten years ago. The Luisa Miller, La Forza del Destino, and Il Trovatore scenes do not quite equal his earlier statements in the various complete sets. The two high Cs in “Di quella pira” are very effortful, and other passages in the high register show signs of strain. On the other hand, he can now project a credible, contemplative, suffering Otello in a manner that would have been beyond the reach of his lighter timbre some years ago. But the reservations are few and the rewards are many in this exceptional survey. And Nello Santi, surely not a consistently satisfying conductor in previous endeavors, supports the singer with sensitive and judicious orchestral backgrounds. Occasionally, I think, the orchestral tone has been scaled down by the engineers to accord with the singer’s modest dynamic range, but the overall sound is clear and well balanced, if not the richest imaginable.

It is my understanding that Philips, underestimating public interest, was originally reluctant to release this set domestically but was persuaded to do so by insistent inquiries. Evidently there are more connoisseurs of fine singing in this country than the industry suspects. They will find this album a treat.

George Jellinek


Songs of Charles Ives: A Listening Experience
One Is as Eager to Share as to Repeat

MEZZO-SOPRANO Jan DeGaetani and pianist Gilbert Kalish have recorded seventeen songs of Ives for Nonesuch. The very names of these performers by now carry an assurance of exceptional pleasure, but they can only hint at the depth of satisfaction to be found on the disc. Though the performances add up to a staggering display of virtuosity—there is such a range of characterization and of emotional level, and can anyone really enunciate intelligible words as rapidly as Miss DeGaetani does in the first part of Memories, let alone intersperse whistling?—it is the richness and variety of the songs themselves that are the most impressive elements of the whole.

Whether it is a poetic reverie such as The Housatonic at Stockbridge, the high-spirited Circus Band, the touchingly simple A Christmas Carol, the militant Majority, the spiritual-like In the Mornin’, or the perky, sublime ture Ann Street, each song comes off with such utter conviction that all previous efforts are made to seem, to a greater or lesser degree, mere gropings toward the musical truth revealed here. Comparisons are, in any event, pointless. This is genuine inspiration, a listening experience that really cannot be described but which one is as eager to share as to repeat. It is one that offers, in the more familiar songs as well as in the lesser known ones, a real sense of discovery.

The collection is not only an econo-
mical one, but remarkably free of dupli-
cation problems. For example, there is only one song here which is sung by Helen Boatwright in her part of Columbia’s five-disc Ives centenary package (M4-32504), though two others are presented therein in arrangements for chorus and orchestra. The recorded sound is first-rate, and if Mr. Kalish’s Baldwin swamps Miss DeGaetani’s voice now and then, well, it seems as right in this material as it is in the similar instances in the Ives violin sonatas. Nonesuch, with characteristic thoughtfulness, has embellished the release with an outstandingly good set of notes by Ives historian Vivian Perlis, and there is an insert with full texts of all the songs.

Richard Freed

IVES: The Housatonic at Stockbridge; Memories (A—Very Pleasant; B—Rather Sad); From “Paracelsus”; The Things Our Fathers Loved; Ann Street; The Indians; The Circus Band; In the Mornin’; Serenity; Majority; Thoreau; At the River; The Indians; The Cage; Like a Sick Eagle; A Christmas Carol; A Farewell to Land. Jan DeGaetani (mezzo-soprano); Gilbert Kalish (piano). NON-
such H-71325 $3.96.

A Vigorous, Committed First Recording for Verdi’s Neglected Il Corsaro

HISTORY has not been kind to Verdi’s Il Corsaro, though in all fairness it must be said that the composer wasn’t either. He had been drawn to Byron’s narrative poem The Corsair in 1846, after the completion of Attila, and he agreed to turn it into an opera for publisher Francesco Lucca. But Verdi’s attention then turned to other matters, particularly to Macbeth and I Masnadieri. It was only after the premières of these two operas that he returned to the subject of Il Corsaro, and then only on Lucca’s insistence and with considerably diminished enthusiasm. Francesco Piave was the librettist, work went rapidly, and the première took place at the Teatro Grande, Trieste, in 1848. It was not very successful, and after a few more productions in Milan, Venice, and some minor theaters, Il Corsaro sank into oblivion, not to be rescued for more than a century. Generations of Verdi biographers—Carlo Gatti and Francis Toye among them—
dismissed the work as undeserving of serious consideration. Unlike them, Charles Osborne had the experience of seeing *Il Corsaro* performed, and he observed (in his *The Complete Operas of Verdi, 1970*) that "number by number, much of the music is immensely enjoyable."

In its first recording, *Il Corsaro* reaches us in the kind of vigorous, committed performance that points up the risk of making hasty judgments. This is, of course, by no means a significant opera in Verdi's output, despite some interesting anticipations of *Rigoletto* and *La Traviata* in the scoring, and yet it is certainly not without merit. Above all, it pulsates with the full-blooded Verdian vigor that guarantees theatrical effectiveness, plot inconsistencies notwithstanding. But we can understand why, having discovered more vital dramatic substance in *Macbeth* (Shakespeare) and *I Masnadieri* (Schiller), Verdi had to feel lukewarm toward *The Corsair*, which was not a drama in the first place, but a narrative poem deficient in plot and not redeemed in any useful operatic way by the frequently dazzling but theatrically unyielding flights of Byron's poetry. Piave worked diligently against the odds, but the best he could do was to create a workable libretto. Transcending, as usual, the material he had to work with, Verdi wrote an opera whose momentum never flags and some of whose arias and ensembles approach the composer's best pre-*Rigoletto* level.

In the strong cast, tenor José Carreras is perhaps the most consistently pleasing singer. He portrays a noble outlaw, the social outcast so popular in Romantic literature (*Ernani* and Carlo Moor in *I Masnadieri* are other Verdian examples) with the proper melancholy spirit, and he sings admirably. This Corsair is loved, not too wisely, by two ladies: gentle, self-sacrificing Medora, interpreted by Jessye Norman, and exotic, fiery Gulnara, sung by Montserrat Caballé. Both possess lustrous voices and both have their luminous moments, though Miss Norman's florid technique is taxed somewhat by the writing and Miss Caballé finds the tessitura of the third-act duet too low. Baritone Mastromei is no tonal spell binder in his second-act aria, but he makes an appropriately mean-sounding villain. Three experienced British singers round out the competent cast.

Lamberto Gardelli's briskly paced, idiomatic leadership does full justice to the score, and the sound engineering captures the excellent orchestral performance in rich detail. *Il Corsaro* unquestionably represents a temporary halt (or even a step backward) in Verdi's artistic development after *Attila,* *Macbeth,* and *I Masnadieri,* but it is eminently worth hearing—and surely no true Verdian would want to miss hearing it so well done.

At this writing, only four Verdi operas remain unrecorded: *Oberto* (1839), *I Due Foscari* (1844), *Alzira* (1845), and *Stiffelio/Aroldo* (1850/1857). The millennium is at hand. *George Jellinek

**VERDI: Il Corsaro.** José Carreras (tenor), Corrado; Clifford Grant (bass), Giovanni; Jessye Norman (soprano), Medora; Montserrat Caballé (soprano), Gulnara; Gian-Piero Mastromei (baritone), Seid; John Noble (baritone), Selimo; Alexander Oliver (tenor), a slave. Ambrosian Singers; New Philharmonia Orchestra. Lamberto Gardelli cond. PHILIPS 6700 098 two discs $15.96.

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The L.A. Four: An Oasis in the Endless Desert of Electronic Aridity

Although I am well familiar with the L.A. Four's individual members, their just-released second album on the Concord Jazz label is my introduction to them as a group. And what a wonderful group it is—I mean, it really works, which is something that cannot be said for all all-star groups. Bud Shank, Laurindo Almeida, Ray Brown, and Shelly Manne have in common—besides their impressive track records—such attributes as a refined sense of dynamics, the ability to swing hard but softly, and the kind of artistic judgment that makes this one of the most aesthetically pleasing albums I have heard in a long time.

The program reflects that judgment, starting with Antonio Carlos Jobim's 'Dindi' and bopping gently, to a prevailing Latin beat, through works by Shank, Gillespie, Bach (Carl Philipp Emanuel), Rollins, and on to the second movement of Joaquin Rodrigo's ubiquitous Concierto de Aranjuez. The last piece, so impeccably dressed up by Miles Davis and Gil Evans on the 1959 "Sketches of Spain" album, has been recorded by Laurindo Almeida twice before (with the Modern Jazz Quartet and with the Monte Carlo Opera Orchestra), but the present version—with Bud Shank's alto playing the orchestral parts—represents an altogether different translation. Shank and Almeida recorded two albums with this same instrumental combination for the World Pacific label almost twenty years ago, but, as good as their rapport was then, they work better together now. As the quartet's spokesman Ray Brown has it in the album's jacket notes, "the group seems to be shaping up to an original personality."

The highlight of this disc has to be Dizzy Gillespie's "Manteca," in which Ray Brown and Shelly Manne carry on a memorable dialogue, but the album itself is a highlight, an oasis popping unexpectedly out of a seemingly endless desert of souped-up electronic aridity.

Chris Albertson
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CIRCLE NO. 61 ON READER SERVICE CARD

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SEPTEMBER 1976
ERIC ANDERSEN: Sweet Surprise. Eric Andersen (vocals, guitar); instrumental accompaniment. Lost in a Song; How It Goes; Dreams of Mexico; San Diego Serenade; and four others. Arista AL 4075 $6.98, © 8301-4075 H $7.98.

Performance: Very good
Recording: Very good

Experiencing Eric Andersen's voice for the first time has it all over the Binaca Blast, and I highly recommend it. What, exactly, he's up to these days is something else again. This second Arista album seems to back up suggestions in the first one about demoticizing his sound. The thinking behind that may be that he reached the epitome of mellowness in the Columbia "Blue River" album and you can't top an epitome (although, of course, it would be unshowbusinesslike to think that way).

Anyway, the songs are different these days, harder-edged or something, maybe evolutionarily different and maybe jumped-ahead different, and the instrumental backing definitely is not jumpy and fancier than would be ideal for a mellow fellow's style.

It's a good album, measured, as it should be, against the rest of the crop this month, but the supportive elements don't entice the voice to relax and feel at home the way it happened in "Blue River." The arrangements sometimes seem to be pulling the vocal instead of following it, they are disciplined and yet lively, but they attract too much attention. It is to Andersen's credit that several songs—at least among the ones he wrote—still seem spiritually connected to the singing and leave it enough remnants of mellowness (as in the elegant Love Will Meet Again) to head off any out-and-out identity crises. Maybe Andersen is himself becoming less of a romantic these days, or trying to, which could indicate nothing more than a healthy interest in survival. Must get around to doing a similar job on me, one of these days.

RUSS BALLARD: Winning. Russ Ballard (vocals, guitar, keyboards); instrumental and vocal accompaniment. Winning; Halloween; A Song for Gail (What Have We Got Her Into); Fakin' Love; Since You Been Gone; and five others. Epic PE 34093 $6.98.

Performance: Excellent
Recording: Very good

I'm not sure if Russ Ballard (formerly of Ar- gent and producer of a Roger Daltry solo album) sounds like himself or like an amalgam of British singers from Joe Cocker to Elton John, but this is a very well-made album with solid vocals, nail-on-the-head instrumental backup, and lively arrangements. Ballard is responsible for the songs, which are almost classy, and if he's also responsible for the arrangements he deserves extra credit. The title track is particularly good and Cuckoo is a bouncy standout.

ROY BUCHANAN: A Street Called Straight. Roy Buchanan (guitar, vocals); vocal and instrumental accompaniment. Running Out; Keep What You Got; Man on the Floor; Good God Have Mercy; Okay; Caruso; and five others. Atlantic SD 18170 $6.98, © TP-18170 $7.98, © CS-18170 $7.98.

Performance: Excellent
Recording: Evocative

Back at the start of this decade, when Roy Buchanan was playing small clubs in the Baltimore/D.C. area, word started to spread that he was the guitarist, that as soon as he got a recording contract and started to tour . . . well, Eric Clapton and Jeff Beck and all those other lads could just pack up their axes and fade away. It didn't happen like that. Buchanan released several albums on Polydor, but they suffered from bad sequencing of performances and a lack of promotional punch on the label's part. Now that's he's on Atlantic the promotional angle may change, and the sequence on this album is excellent.

Although a technical whiz comparable to Jini Hendrix (his ability is demonstrated here in a version of Hendrix's If Six Was Nine followed by Guitar Cadenza, a piece of flashy faking abetted by studio tricks), Buchanan doesn't have the subtlety of Beck's solo ideas, and his playing of blues is loose and country-styled where Clapton's is urban and even Church of England formal.

What he does do better than almost anyone else is to play a kind of "lead rhythm," soloing in chord patterns or playing a dominating musical figure that establishes the mood for a song. On Okay he takes a wild, shimmering Hawaiian-blues solo while his band riffs terrifically. This is the cut you are likely to get stuck on, but there are other fine slices, including the eerie Man on the Floor, the bold Running Out, and Caruso, in which Buchanan—who knows he can't sing much—tells

Explanation of symbols:
® = reel-to-reel stereo tape
© = stereo cassette
= quadraphonic disc
= reel-to-reel quadraphonic tape
= eight-track quadraphonic tape
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the listener to like it or lump it. You'll probably like it.

J.V.

GLEN CAMPBELL: Bloodline. Glen Campbell (vocals and guitar); orchestra. See You on Sunday; Baby Don't Be Givin' Me Up; Bloodline; The Bottom Line; Lay Me Down; and five others. CAPITOL SW-11516 $6.98, © 8WX 11516/$7.98. © 4WX 11516/$7.98.

Performance: Boring
Recording: Good

Here's Glen Campbell sashaying through yet another album of pseudo c- &-w, this one so eggplant-slick that it makes his hair look ruffled by comparison. When he tries to be mournful, as he does in Baby Don't Be Givin' Me Up, he sounds only petulant, and when he goes dramatic, as unfortunately he does in San Francisco Is a Lonely Town, he sounds as unmoved as a rural train conductor calling out stations. Campbell's self-confidence, however, as with most bores, seems to remain impressively and completely intact. Whatever happened to his talent?  

P.R.

KEITH CARRADINE: I'm Easy. Keith Carradine (vocals, guitar); instrumental accompaniment. High Sierra; Been Gone So Long; I'm Easy; The Soul Is Strong; I'll Be There; and five others. ASYLUM 7E 1066 $6.98.

Performance: Boring
Recording: Average

While it's true that Keith Carradine singing I'm Easy was one of the better-sounding parts of the Nashville soundtrack, the catch is that that isn't saying much. But Carradine apparently takes himself seriously as a singer-songwriter. He is, unfortunately, about as mediocré at it as a man can get. His lyrics are incorrigibly inane (and in this case so are the arrangements), his tunings are worn-down parts grafted together in tedious new—allegedly new—alignments, and his voice is like dried-out cornstalks rustling in the October wind, which (you could look it up) is tied with the sound of Esther Phillips as the least musical error—it just doesn't seem to go with melody. An actual musician could have made this recording, but he wouldn't have.  

N.C.

HARRY CHAPIN: Greatest Stories Live. Harry Chapin (vocals, guitar); Stephen Chapman (keyboards, vocals); Tom Chapin (guitar, banjo, vocals); John Wallace (bass); Doug Walker (guitar); Howie Fields (drums); other musicians. Dreams Go By; W-O-L-D; Saturday Morning; Mr. Tanner; A Better Place To Be; and nine others. ELEKTRA 7E-2009 two discs $7.98. © ET-82009 $9.97. © TC-52009 $9.97.

Performance: Well . . .
Recording: Mostly very good

Oh, it could be worse, I suppose. You can find a certain craftsmanship in Harry Chapin's work if you can shovel through the stuff he makes lyrics out of (some of it, at least, is merely cornball, not a harmful substance) and appreciate how well the tunes are bridged on how slickly the soap-opera gimmicks fit together to make what he calls stories. But I feel for him; he does strain so to be somebody's answer to Tom T. Hall, and he is, by all accounts I get from people who know him, such a nice person . . . and he does write

“at best, three Lavernes and two Shirleys”

I really wanted to like the Runaways' record for a variety of reasons, the most basic being that the Runaways are five nubile young girls (ages sixteen and seventeen, if you can believe the cover, and I do) who can't help but bring out a bit of the lecher in me; in the face of such ripe adolescent charms, any consideration of music ought to be almost irrelevant. Unfortunately, the music these kids make is for all intents irrelevant, and their record is just not very good. In a perverse sort of way, however, it is useful, because its flaws are illustrative of a lot of what is wrong with rock these days.

They play surprisingly well, simple as the music is, there are enough little Ritchie Blackmore amphetamine runs to demonstrate a fair degree of talent, and although their vocals are essentially faceless (if only they sang as they look, the way Ronnie Spector did!), their harmonies are cleanly and attractively executed. Unlike the Ramones, to whom the Runaways provide a slightly more sophisticated alternative, their problem lies not with how they play but with what they play—which is a number of things, primarily heavy metal. Now it is my unalterable conviction that most heavy metal is not very good rock-and-roll, first because it doesn't matter whether they're as wasted and teen-snozy as they want us to believe. Even if they are for real, the pose is embarrassing. The fact that they're female, a novelty that just might have been expected to excuse the poky-faced tackiness of it all, simply isn't enough; at best, they come off as three La vernes and two Shirleys. (It's significant, by the way, that Bruce Springsteen, who has the talent to make this kind of West Side Story romanticism work, is almost universally despised by the partisans of punk; the fact that he's good, by their peculiar logic, eliminates him. Mediocrity equals Sincerity.)

As I said, I really wanted to like this record, and at least three of these girls can have my unlisted phone number any time they want. But since their music can be appreciated only on the pop-sociological level, they'll have to leave it at home. —Steve (Humbert) Simels

THE RUNAWAYS. The Runaways (vocals and instrumentals). Cherry Bomb; You Drive Me Wild; Is It Day Or Night? Thunder; Rock and Roll; Lovers; American Nights; Blackmail; Secrets; Dead End Justice. MERCURY SRM-1.1900 $6.98, © MCR-1.1900 $7.98, © MCR-1.1900/$7.98.
such doggerel. He has a certain humor about him, some of which comes through better in a live album—although the business about the bananas is self-indulgent and should have been edited. But, unfortunately, he doesn't use Edgar A. Guest language strictly for put-on purposes. When I know he's serious, I keep getting the wrong effect by approximately 180 degrees—when, as he does here without warning, he speaks up for the Little People, for example, he manages to bring out the Mencken in me: all I can think of is a miasma of fog on a moor. His subjects are equally far downbeat: Cryin' Shame ("Gold in the misery, sewor in the mind/Greed and corruption of every kind"), Slow Down World ("major problem ahead"), and the self-explanatory (but I hope not autobiographical) A Well Known Has-Been. What brought this turbid jargon on I can't imagine, but it is as disappointing to me as the thought of learning that Puck is in group therapy.

NELSON EDDY: The Artistry of Nelson Eddy. Nelson Eddy (vocals); instrumental accompaniment. Tonight We Love; The Lamp Is Low; My Reverie; 'Til the End of Time; Strange Music; Full Moon and Empty Arms; and five others. EVEREST 3392 $4.98.

Performance: Murder Recording: Good

Nelson Eddy, the matinee idol whose songful, perpetual love affair with Jeanette MacDonald kept a whole generation of movie-goers in rapture, died not long ago, but before he did he put together this program of popular songs based on themes from the classics. Early in his career, Eddy actually sang the classics—in fact, he performed in dozens of operatic roles—but by the time Skitch Henderson got hold of him, that "glorious baritone" was completely frozen into the form recognized and adored by his admirers—the ringing climaxes, the fruity rubatos, the stilled operetta enunciation, the unbridled sentimentality. It is hard to decide, therefore, which element in this particular record is most irritating—the corruption of fragile music by Debussy and Ravel; the insipid distortion of lovely melodies by Grieg, Tchaikovsky, and Rachmaninoff; the incredible banality and vulgarity of the lyrics; the meretricious arrangements by Mr. Henderson; or the sound of Eddy himself, his heart forever shining on his Canadian Mountie's sleeve. Yet this album, icky as it may be, is sure to call forth many a matronly physical angle to it, like the one behind the lamp of being good, I suppose, but it is a lot more likely to be taken as camp. Rick Roberts, the most familiar name here, has had at least one song (Colorado) pushed by people with big names, but you can't help comparing the one he wrote here to It Doesn't Matter, which Stephen Stills and Chris Hillman helped him write. That one, the album's best, has a snap to it the others don't have. Larry Burnett's songs (except for Cinderella, which dares to be different, at least in a gimmicky sort of way) are generally a little more determinedly mundane than Roberts' arc. Mostly, the material doesn't seem to want to be noticed—which of course means you'll find yourself thinking of nothing else. The band's way of playing is clean and flexible, and the vocals are good enough; you'd swear these chaps have more music in them than went into the making of these songs.

N.C.

DON HARRISON BAND. Don Harrison (vocals, rhythm guitar, keyboards); Russell DaShiell (lead guitar, piano, vocals); Stu Cook (bass, vocals); Doug Clifford (drums, vocals). Sixteen Tons; Who I Really Am; Rock 'n' Roll Records; Flame and Fortune; Sometimes Loving You; and five others. ATLANTIC SD 18171 $6.98, © TP-18171 $7.98, © CS-18171 $7.98.

Performance: Sturdy and sassy Recording: Clean

Here's a slugging quartet in which the basic slug is provided by bassist Stu Cook and drummer Doug Clifford, both formerly of Creedence Clearwater Revival. Lead singer Don Harrison and guitarist Russell DaShiell are relative newcomers, but they sound experienced. The band has had some action with their single of Tennessee Ernie Ford hit). The rest of the material is by Harrison, who's a strong singer, and DaShiell. Without ever being memorable, their songs are pretty good, and, like Creedence...
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SEPTEMBER 1976 CIRCLE NO. 23 ON READER SERVICE CARD
dence Clearwater Revival, the Harrison outfit has a solid dance beat; their sound will make you get up and move. Enjoy, enjoy.

**RECORDING OF SPECIAL MERIT**

ISLEY BROTHERS: Harvest for the World. Isley Brothers (vocals); instrumental accompaniment. Harvest for the World; People of Today; Who Loves You Better; (At Your Best) You Are Love; and four others. T-NECK PZ 33809 $6.98, © PZA 33809 $7.98, © PZT 33809 $7.98.

Performance: Excellent

Recording: Clean

Good news bears repeating: Ronnie Isley is one of the best singers in the nation, in any style, and certainly the pre-eminent black vocalist since the death of Otis Redding in 1967. There are three aspects to his remarkable singing: technique, range, and feeling. He makes use of the trick of bouncing from a lower note to a higher one, he is equally adept whether growling or crooning, and he performs with a fervor and tenderness that are genuine but nicely aged and tempered by years of professionalism.

The Isley Brothers' long and checkered career is now at its peak; they are more popular and have greater exposure than ever before in their twenty years of working. They have not made the business mistakes they did in former times, mistakes that interrupted their professional story and made it a tale of peaks and valleys. What marred their recent albums has been corrected: youngest brother Ernie's overkill Jimi Hendrix-style guitar has been muted (he now plays with the band), and the material, which historically was either pretty wonderful or pretty lousy, has been patched to a happy medium so that it's no worse than anyone else's and much better than most.

This album is basically a concert recital by Ronnie, and he is given full room to display his gifts. He is overdue to be credited as a master stylist of twentieth-century popular music.

**RECORDING OF SPECIAL MERIT**

MAHALIA JACKSON: How I Got Over. Mahalia Jackson (vocals); instrumental and vocal accompaniment. How I Got Over; I Been Baked and I Been Scorned; Come On Children, Let's Sing; Out Of The Depths; and five others. COLUMBIA KC 34073 $5.98.

Performance: Mahalia lives

Recording: Well blended

Columbia has ransacked the archives and come up with a program of previously unreleased Mahalia Jackson items that should please her many admirers and maybe win her some new ones. When the deep-chested Mahalia hurled herself into a gospel number, especially in a real church before an assembly of active Baptist congregants, she could fuse the gospel style with her own magnificent voice and produce something thrilling indeed. A number of the church-song selections in this album were culled from a CBS film about the gospel singer called Got to Tell It. Others were put together from transcriptions of radio shows. As a result, Miss Jackson can be heard as a master stylist of twentieth-century popular music.
MILLIE JACKSON: Free and in Love. Millie Jackson (vocals); orchestra. A House for Sale; Bad Risk; There You Are; I’m Free; Solitary Love Affair; and four others. Spring SP-1-6709 $6.98, @ 8T-1-6709 $7.98, @ CT-1-6709 $7.98.

Performance: Very good but . . .
Recording: Smooth

I like Taj Mahal’s catholic taste in music—folk, Caribbean, jazz, big-sound commercial soul, blues. It makes for a variety of programing in his albums that you can always count on. But I also get the impression from Taj’s work that he seems to be saying: “I don’t have to do this, y’know; I could be doing something else”—that he’s a Jack of all trades proud that he doesn’t see a need to be master of one. This album is a case in point: there isn’t a single outstanding cut on it. Everything here is good enough and displays Taj’s proficiency, but until he decides to put his talent on the line and take risks I can enjoy his efforts but I’m not really interested in what he does next.

J.V.

STEVE MARRIOTT: Marriott. Steve Marriott (vocals, guitar); Greg Ridley (bass, vocals); Ian Wallace (drums); Mickey Finn (rhythm guitar); David Foster (keyboards); Mike Baird (drums); Red Rhodes (steel guitar); other musicians. East Side Struttin’; Lookin’ for a Love; Help Me Make It Through the Day; Star in My Life; You Don’t Know Me; and five others. A&M SP-4572 $6.98, @ 4572.7 $7.98, @ 4572 $7.98.

Performance: Stout, but green
Recording: Average

Steve Marriott of the late Humble Pie has combined a straight-ahead hard-rock side, with British studio musicians, and a somewhat more gimmicky, less lively “American side” to prove . . . well, I’m not sure what. That he can sing and play lead guitar, I suppose. His singing is adequate—he does seem willing to lose himself in the song—but I

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RECORDING OF SPECIAL MERIT
IAN MATTHEWS: Go for Broke. Ian Matthews (vocals, guitar); Ken Butterey (drums); Norbert Putnam (bass); Steve Wood (keyboards); Joel Tepp (harp); other musicians. Darkness, Darkness; I’ll Be Gone; Brown Eyed Girl; Rhythm of the West; Groovin’; Lovely Hunter; Steamboat; A Fool Like You; Just One Look; When the Morning Comes. COLUMBIA PC 34102 $6.98, © PCA 34102 $7.98.

Performance: Striking
Recording: Excellent

Musical arrangements seem to come alive around Ian Matthews: you can almost feel the little gusts of human energy it takes to make the sounds—even the machine-made (synthesizer) ones—and if there’s anything at all haunting in a melody, he’ll drive it home. He has a smooth, technically very good singing voice, too, and it never sounded better than in “Go for Broke,” this new disc for Columbia. Here he takes on well-known songs of more stylish singers—Jesse Colin Young (Darkness, Darkness) and Van Morrison (Brown Eyed Girl)—and makes each of them startling and thoroughly positive new adventure. Voice and instruments are so well integrated that one tends to experience the whole without analyzing the parts.

The special things about this album are all subtle, and the weaknesses (to me, the last two songs—an old rocker and a thing in Caribbean get-up) seem to be the result of gadfly song selection running afoul of an organic characteristic of Matthews’; he may be unfettered and experimental, but the style in which he operates best is still mellow—grandiose, and it’s quite attractive. It’s sleek and shining, but it isn’t mechanical and of this, though, that’s quite attractive. It’s of a letter to Dear Abbie (Hoffman), and its viewpoint seems an admirable mixture of detached irony and well-meaning compassion. Few of the other pieces here have such an individual signature on them; they just seem to be competently turned-out products from one who knows the market. Partners in Crime is clever in how it gets your attention, being in the form of a letter to Dear Abbie (Hoffman), and its viewpoint seems an admirable mixture of detached irony and well-meaning compassion. Few of the other pieces here have such an individual signature on them; they just seem to be competently turned-out products from one who knows the market. Tuneful, though.

I am not a great fan of McGuinn’s solo singing, and here I can’t take it through headlamps—which may be strictly personal or may relate to Mick Ronson production. Ronson’s touch, sometimes heavy, sometimes light, sometimes refreshingly unpredictable, is almost as firm as McGuinn’s. Aside from being a little busier than they need to be, the arrangements are pretty good, but Ronson seems similarly unpredictable with the engineering part of it; at times it is very clean and at other times (such as Rock and Roll Time) the upper bass seems to dominate it and the whole thing goes slightly tubby. I wonder how preceding this), how much from administrative skills (the man behind as well as in the Byrds, etc.), and how much from actual work on writing and performing. His most impressive work, as nearly as I can separate all this, comes in spurts. Partners in Crime is clever in how it gets your attention, being in the form of a letter to Dear Abbie (Hoffman), and its viewpoint seems an admirable mixture of detached irony and well-meaning compassion. Few of the other pieces here have such an individual signature on them; they just seem to be competently turned-out products from one who knows the market. Tuneful, though.

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IAN MATTHEWS: Go for Broke. Ian Matthews (vocals, guitar); Ken Butterey (drums); Norbert Putnam (bass); Steve Wood (keyboards); Joel Tepp (harp); other musicians. Darkness, Darkness; I’ll Be Gone; Brown Eyed Girl; Rhythm of the West; Groovin’; Lovely Hunter; Steamboat; A Fool Like You; Just One Look; When the Morning Comes. COLUMBIA PC 34102 $6.98, © PCA 34102 $7.98.

Performance: Striking
Recording: Excellent

I am never able to decide how much of Roger McGuinn’s success comes from position (as in At the Right Hand of Dylan, in the events preceding this), how much from administrative skills (the man behind as well as in the Byrds, etc.), and how much from actual work on writing and performing. His most impressive work, as nearly as I can separate all this, comes in spurts. Partners in Crime is clever in how it gets your attention, being in the form of a letter to Dear Abbie (Hoffman), and its viewpoint seems an admirable mixture of detached irony and well-meaning compassion. Few of the other pieces here have such an individual signature on them; they just seem to be competently turned-out products from one who knows the market. Tuneful, though.

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this will sound compounded on those “Rock”
 speakers some McGunn fans no doubt own.
 And I wonder if McGuinn’s shaky voice may
 have been adjusted, by the production, to
 grate on my nerves more than it needs to.
 Anyway, I don’t know much more than I did
 before I listened to it, but some of the time
 I spent, at least, wasn’t wasted. N.C.

RECORDING OF SPECIAL MERIT

THE NIGHTHAWKS: Open All Nite. Mark
Wenner (harmonica, vocals); Jim Thackery
(guitar, vocals); Pete Rugusa (drums, vocals);
Jan Zokowski (bass, vocals); Pinetop Perkins
(piano). Nine Below Zero; Help Me, Big Boss
Man; Little by Little; That’s Alright; Red Hot
Mama; and four others. ADELPHI AD 4105
$6.95.

Performance: Excellent
Recording: Very good

I was delighted to report on the first recording
by the Nighthawks (March 1976), in my opin-
ion one of the best things to come out of
Washington, D.C., since George was inaugu-
rated. This, the group’s second LP, presents
an all-blues program.

The Nighthawks’ version of Elmore James’
jump blues Shake Your Moneymaker, a real
winner, features the very tasteful guitar of
Jim Thackery. White blues guitarists tend to
play either too much (out of zeal) or not
even (owing to reverence). Thackery
strikes a fine balance and, like all good musi-
cians, leaves you wishing he’d played a bit
more.

Mark Wenner is one of the few harmonica
players who combine a knowledgeable love of
the blues with an understanding of the poten-
tialities of the harmonica as an instrument
outside of the blues, folk, or country roles to
which it is normally confined. He is equally
creative as a solo or rhythm force. Few blues
harmonica players, for example, could or
would resist the temptation to make a show-
piece out of Jimmy Reed’s Big Boss Man. But
Wenner doesn’t solo on the little classic ex-
cept to play a polite and firm homage to
Reed’s original choruses and ride the tune to a
conclusion. Wenner’s variations come in the
delicious and subtle fills he plays behind the
vocalist and lead instrument (he
sets up
Thackery’s solo beautifully),
so that the
Nighthawks’ remake can stand pretty close to
the original on its own merits.

The group has built up an in-person reputa-
tion around the District of Columbia and in
the Virginia-Carolinas area, and their second
album is getting better distribution than the
first things are beginning to move for them,
so keep an eye on them and an ear ready for
them. J.V.

ALAN PARSONS PROJECT: Tales of Mys-
tery and the Imagination. Orchestra and choir.
The Raven; The Cask of Amontillado; The
Tell-Tale Heart; and four others. 20TH CEN-
tURY T-508 $6.98, 0 8-508 $7.98.

Performance: Labored
Recording: Excellent

The Alan Parsons Project consists of Parsons,
who began as an assistant engineer on the
Beatles’ “Abbey Road” album and has since
gone on to become a producer; Eric Woolf-
son, whose unfortunate idea it was to drub
poor old Edgar Allan Poe’s works into a rock
fantasy, and arranger-conductor Andrew
Powell. The three have collaborated here on

SEPTEMBER 1976

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CIRCLE NO. 46 ON READER SERVICE CARD

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Gram Parsons (lower left) and the Flying Burrito Brothers: getting some good old country songs out and noticed

an album in which the engineering is trickily superb, but the pretension is so thick and the execution of the original idea of adapting some of Poe's most famous chestnuts is so sloppy and pointless that one might as well be listening to the Very Uncollected Thoughts of Sara Teasdale on the day she discovered speed. The songs at least have the virtue of brevity, but the flatulent "tone poem" that has been constructed around the title of The Fall of the House of Usher flows on and on like a river of treacle. At its best it sounds a bit like an old Korngold score for an Ida Lupino melodrama of the Forties; at its worst, well, the closest I can come is Ibert's Escalada played backwards on a synthesizer. P.R.

GRAM PARSONS / THE FLYING BURRITO BROTHERS: Sleepless Nights. Gram Parsons (vocals, guitar); Emmylou Harris (vocals); Flying Burrito Brothers (vocals and instrumentalists). Brand New Heavetchure; Tonight the Bottle Let Me Down; Sing Me Back Home; Crazy Arms; Together Again; Green, Green Grass of Home; and six others. A&M SP 4578 $6.98, © 4578 $7.98, © 4578 $7.98.

Performance: Good
Recording: Good

After his death, Gram Parsons (this is just about a de facto Parsons solo album) was all but canonized by the so-called rock press. I'm sure his attitudes were as laudable as they claim, and all that, and he had gotten some good country songs out and noticed where other people couldn't, but I wonder if someone in this relatively big world, besides me, was bothered by what he actually sounded like. I don't have perfect pitch, don't wince at every teeny little weirdness of harmonics, but it's a strain for me to listen to him, my ears mind, the hearing process having to pull him back in tune all the time. Beyond that, to me he sounds like a dilettante—even though I agree he didn't have the attitudes of one. He sounds, here as elsewhere, too young and too middle-class to put across some of these old tobacco-stained, leather-faced country songs. One can get Merle Haggard and George Jones doing it so much more knowingly; their connection with the songs seems so much more clearly organic. Then again, maybe the smartest adaptation to The Market, if not the times, is to phase out how organic you are, or seem.

Anyway, he's had some impact, and this is a dignified raid on the vaults that packages him as lead singer with the Burritos in nine songs and with Emmylou Harris' delicious vocal harmonies in Brand New Heavetchure, Sleepless Nights, and The Angels Rejoiced Last Night. Most of what bothers me about Parsons' solo singing does not apply in the Harris-duet cuts. When he sang with Harris, the important thing about his voice became the texture, a shift of emphasis that does wonders for my enjoyment of it—and of course Harris is shining and darting in there like a silver needle. These tracks are intriguing; the rest is slightly below-average middle-period Burritos—which you must keep in mind, maintained a higher average than most bands of the sort.

N.C.

UTAH PHILLIPS: Good Though. Utah Phillips (vocals); instrumental accompaniment. Cannonball Blues; Queen of the Rails; Going Away; Frisco Road; Starlight on the Rails; and eight others. Philo 1004 $5.98.

Performance: A train without brakes
Recording: Good

Utah Phillips is an extremely bright fellow who is going to have to make up his mind one of these days whether he wants to be an entertainer or an educator. The act he puts on here, recorded at the Cafe Lena in Saratoga Springs, New York, where many a wandering minstrel has found a haven, is long and almost too rich for the blood. Utah, who has a kind of oppressive cowboy charm, the speaking voice of a radio announcer, and an evangelistic temperament, is a staple personality in the West at folk festivals and coffeehouses. Here he digs up his corniest jokes (the title, Good Though, is the punchline of one of them), tells stories, as raunchy as they are redolent of history, about the heyday of the railroads, boxcar hobos, and wild, wild women, and sings innumerable railway songs.

The songs aren't bad and the singing isn't bad; neither are the stories; neither are the dubbed-in railroad sounds. There's just too much of a good thing, for Utah's way is to suffocate his audience in anecdotes and information and drive on as relentlessly as a locomotive.
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It has been claimed—by an expert, Helen Hayes—that the most “professional” of show-biz professionals are the acrobats. By the very nature of their work they never miss cues, never slacken their concentration, never use “personality” as a cop-out to cover sloppiness or lack of preparation. And they never, never give less than their all, an “all” they themselves have defined and refined to join the slender ranks of those who can and do (Streisand, Lee, Fitzgerald, Ian, Baez—see, I needed only one hand to count) is a young singer named Kelly Garrett. Her new RCA album “Kelly” is one more proof of the quality the best...and the rest.

Kelly Garrett has a big, warm voice in perfect control, the ability to search out, and of the talent she brings to them. In Sittin’ in the Dark she is able to create, out of what is basically a simple ballad (a girl having an affair with a married man), a whole range of complicated emotions, drawing a stark picture of a woman filled with resentment at having to sneak around “Tryin’ not to look like lovers...,” angry at herself for her own helplessness in the situation, and yet so deeply in love she’s almost past caring. It is as memorable in its way as the kaleidoscope of expressions that fitted across Lily Tomlin’s face in Nashville as she crossed over the line from complete self-possession to being possessed by Keith Carradine as he sang the insinuating I’m Easy to her. Garrett tells the story of Sittin’ in the Dark with all the intuitive, womanly skill of a Colette. Brilliant work.

Equally brilliant is her performance of Keep Him Like He Is, which she takes at a bright, easy gait, sliding from phrase to phrase with a style and polish only a topflight musician could manage. It’s in this song that the listener can best hear the sheer abundance of Garrett’s natural vocal equipment. It feels rather like driving a Mercedes at fifty-five miles an hour; you sail along serenely, secure in the knowledge that you can zap up to eighty-five at any moment and that the beautiful machine will respond effortlessly and smoothly without the least thump or clank from anywhere. It is this depth in her voice that makes Garrett something special among today’s singers. Whether or not it is being properly treated in the control room is something that only future albums will disclose. On this disc, only this one band seems to do her full justice.

But there are other, smaller delights here: her radiant intensity even in such a bummer as I’m Gonna Make You Love Me; her ability to swing along and eventually triumph over Our Love Will Find a Way, which has been gaudily overarranged into a Vegas set-piece; and her beautiful intonation and rich timbre on the title phrase of If Only (He Would Make Love to Me), the kind of thing only a real pro can do, salvage something—anything—from any given piece of material.

Flawed though it is, Kelly Garrett’s new album conclusively proves that she’s the real thing. Too bad that it’s been such a long time between “real things” that many people will let this one slip by because of the bad song selections. Don’t be one of them. Listen to it and then drop Kelly a note about what you’d like to hear her sing. She can probably sing it. —Peter Reilly

Kelly Garrett: Vocal Abundance

through years of practicing, learning, and performing. There is, of course, a very pragmatic reason for this: the ground tends to be just a bit unyielding whether you land on your feet, your fundament, or your head (besides, what can you do for an encore?), and the customers have little patience with a flyer who bounces foolishly up and down on a net when what they have paid to see is a display of coordinat-ed courage.

Alsas, there are all too few “acrobats” in any branch of the entertainment business today (even Evil Knievel pushed the panic button too soon), all too few performers who are not only prepared to lay it on the line each time out but who have the talent and the training to make it all work for themselves and for their audiences. Here’s big news, then: about then act out, the meaning of a lyric (none of that syncopated “emoting” from a laundry list of stock “moves”), and a superb, instinctive musicianship. (Just how instinctive can be appreciated when you know that she once won a singing scholarship to an Ohio conservatory on the basis of a submitted tape. It was only after she was there as a student that the amazed faculty realized she had had absolute-ly no formal training.)

Unfortunately, all of that dynamite never really gets a chance to explode in this release because of the damping effect of a repertoire so poorly chosen that Garrett constantly has to goose it into a semblance of life. There are actually only two songs here (the Syreeta Wright-Steve Wonder Keep Him Like He Is and Jack Carone’s Sittin’ in the Dark) worthy of the talent she brings to them. In Sittin’ in the Dark she is able to create, out of what is basically a simple ballad (a girl having an affair with a married man), a whole range of complicated emotions, drawing a stark picture of a woman filled with resentment at having to sneak around “Tryin’ not to look like lovers...,” angry at herself for her own helplessness in the situation, and yet so deeply in love she’s almost past caring. It is as memorable in its way as the kaleidoscope of expressions that fitted across Lily Tomlin’s face in Nashville as she crossed over the line from complete self-possession to being possessed by Keith Carradine as he sang the insinuating I’m Easy to her. Garrett tells the story of Sittin’ in the Dark with all the intuitive, womanly skill of a Colette. Brilliant work.

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Kelly Garrett: Vocal Abundance

KELLY GARRETT: Kelly. Kelly Garrett (voices, orchestra, Mike Malvon arr. and cond. I’m Gonna Make You Love Me; He’s So Fine; In a Quiet Way; Let Me Down Easy; Our Love Will Find a Way; If Only (He Would Make Love to Me); Keep Him Like He Is, Sittin’ in the Dark; He Moves Me; Leavin’ on Your Mind. RCA APPL1-1424 $6.98, APS1-1424 $7.98.
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SEPTEMBER 1976
THE RUBETTES: The Rubettes (vocals); instrumental accompaniment. Sugar Baby Love; Foo Dee O Dee; Tonight; Juke Box Jive; Rock Is Dead; Judo Run Run; and six others. MCA/STATE MCA-2193 $6.98. © MCAT-2193 $7.98.

Performance: Pallid Recording: Okay

A quartet of British singers who are pure Music Hall, with six singles hits to their credit in Olde Blimey, the Rubettes capitalize on what appears to be the continuing international nostalgia kick by taking every musical figure, gimmick, chord pattern, and vocal arrangement from every hit rock record from 1950 to 1966 and serving them up as a piping-hot casserole. But the Rubettes aren’t satirists like Sha Na Na; they’re more like the Swedish group Abba (Waterloo; I Do, I Do) with their homogenized emulations of sounds gone by. They don’t have as much fun with their impersonations as Abba does, though. Slick, smooth, forgettable. J.V.

SANTANA: Amigos. Carlos Santana (guitar, percussion, vocals); vocal and instrumental accompaniment. Dance Sister Dance; Take Me with You; Let Me; Gitano; and three others. COLUMBIA PC 33576 $6.98. ©PCA-33576 $7.98, © PCT-33576 $7.98.

Performance: No me gusta Recording: Good

There are three positive things to be said for this Carlos Santana album: (1) it is not as presumptuous and offensive as his recent few; (2) he kept Alice Coltrane out of the studio; (3) he tries to sound more Spanish than he usually does. But, as usual, Santana and his crew give the impression that they’re trying to sound like whoever is currently in favor as well as someone else: Chicago and Xavier Cugat, like whoever is currently in favor as well as George Harrison and Perez Prado, the Mor- mon Tabernacle Choir and Vincent Lopez. I’m not sure whether Santana’s original intension was to fuse New York Latin music with, but it can dress up. The arrangements have a patina a mosquito wouldn’t dare try landing on, but the tunes range mostly between passable and tedious. So does Sou- ther’s singing; it’s adequate but close to ordinary. He needs to have a catchy tune be the real focus of attention. His lyrics are promis- ing but don’t seem to put much of an edge on a song. In the reggae-arranged piece, Banging My Head Against the Moon, for example, there’s “I’m gonna be lurking with intent to loom.” Almost a good line, but also almost sophomoric. Then he likes to write those talky love songs that I come to identify with young Southern California songwriters (Poco’s got a bushel of them), and when you run this all through Peter Asher’s high-gloss arrangements, it gives the impression of being a bad good album. Souther might be better off making good bad albums. Faithless Love seems to have what he wanted the whole al- bum to have—it’s neat, and of course splendidly done-up—but the rest of this one just doesn’t have the stuff underneath. N.C.

JOHN SEBASTIAN: Welcome Back. John Sebastian (vocals, guitar, harmonica); Richard Bell (keyboards); David Hungate (bass); other musicians. Hula Away; She’s Funny; You Go Your Way and I’ll Go Mine; Don’t Wanna Have to Do It; and six others. REPRISE MS 2249 $6.98, © M8 2249 $7.98, © M5 2249 $7.98.

Performance: Good clean kiddy show Recording: Good, clean, etc.

John Sebastian here turns to the equivalent of what, in my trade, is called “writing juveniles.” He had, you’ll recall, some connection with such adults-only characters as Fred Neil, so one might naturally react politically to Se- bastian’s writing the title song for Welcome Back Kotter and some of this other high- school stuff in here. I can’t write juveniles myself, but somebody has got to do it, and maybe we ought to be grateful that we’ve got James A. Michener and Marvel Comics in our trade and that pop music has got Sebastian. He’s a craftsman, anyway, a pro. This is a well-crafted, inconsequential, well-balanced, in-one-ear-and-out-the-other, well-engineered album. It has good spirits. Of course, it does sound a little funny on the turntable with no AM jack talking loud over part of it. N.C.

JOHN DAVID SOUTHER: Black Rose. John David Souther (vocals, guitar); Andrew Gold (piano); other musicians. Banging My Head Against the Moon; If You Have Crying Eyes; Your Turn Now; Faithless Love; Baby Come Home; and five others. ASYLUM 7E-1059 $6.98, © ETB-1059 $7.98, © TCS-1059 $7.98.

Performance: Slicked-up nicely Recording: Excellent

This one is to phonograph records as Cher is to television—not a lot of body there to begin

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of its incarnations, has not been a big disappointment to me. It's a good B-grade band, and always was. Compare it to ridiculous posers like Iron Butterfly and Vanilla Fudge and Rare Earth, and notice which one is still alive and kicking. John Kay, the lead singer, does come within shouting distance, at least, of authenticating Steppenwolf's self-image; there is, one learns from interviews and whatnot, more to Kay than Steppenwolf's raw, simplistic format allows to come out, but one already knew there was. I do wonder, of course, listening to this artfully stylized, time-stood-still-in-'69 album, how these guys can keep doing the same sort of thing year after year and not seem more bored. But that seems almost an abstract concern: like, oh, like Jerry Murad and the Harmonicaists. Steppenwolf's comfortbale, stuck in a time warp, or at least they sound like it, and they're getting so relaxed and cozy in this latest one that I tend to settle back and reflect that, well, at least this seems a lot more decent, somehow, than being stuck a few notches back with Neil Sedaka.

STEPSHIN STILLS: Illegal Stills. Stephen Stills (vocals, guitar, keyboards, bass); instrumenta! and vocal accompaniment. Buyin' Time: The Loner; Stateline Blues; Midnight in Paris: No Me Niegas; and five others. Columbia, PC 34148 $9.98, @ PCA 34148 $7.98. © PCT 34148 $7.98.

Performance: Variable
Recording: Good

I used to shake my head in admiration and say of Stephen Stills: "Boy, that guy's really got something." This was the result, I fear, of hearing him occasionally over a period of several years at his occasional best: For What It's Worth with Buffalo Springfield; Suite: Judy Blue Eyes with Crosby, Stills and Nash; and Stills' solo Love the One You're With. Nowadays I shake my head and say: "Whatever he's got, I can't wait around until he comes up with it." Stills is a talented but woefully inconsistent man; what sustains him is facility and experience.

If you'd never heard Stills before and based your opinion on some of the dumb tunes and presentations on this album, you would never suspect he had ever done anything wonderful. From other songs here you might get the idea that there's hope for him after all, but from only two selections (Neil Young's The Loner and Stills' Stateline Blues, the latter done acoustically) would you feel that Stills was really going to amount to something. In all, it's not a very good score.

DONNA SUMMER: A Love Trilogy. Donna Summer (vocals); orchestra, Could It Be Magic; Wasted; Come With Me; and two others. Oasis OCLP 5004 $6.98, 5004 $7.98, © 5004 $7.98, 5004 $7.98. ©

Performance: Better than the material
Recording: Heavy breathing

Producers Giorgio Moroder and Pete Bellotte seem determined to keep Donna Summer at her gasping, panting, at-the-point-of-orgasmic choreography of letting her sing out in more conventional repertoire. Prelude to Love, for example, finds her once again chaise-longued and vibrating like a tuning fork while Moroder's arrangement pales around her like Leonore's Last Overture. It's too bad, because Summer really does have a big, flexible, (Continued on page 107)
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Pioneer

(Continued on page 109)
Could be the garret is a lonelier place now than it used to be...

Nilsson: Still Workin' on It

There must be some good old American story that could be rewritten and doctored and made into a Nilsson Chronicle, one that would explain why Harry Nilsson can't seem to get off the dime, musically, and in motion again these days. One wants to try, say, the old disillusionment-with-success story in some form; one could have a good time imaging the protagonist (Harry, or, as Ringo says, "Arty") railing at all those who led him to believe Happily Ever After meant something good—or, for that matter, anything at all. But it would be pretty tricky casting him in that one, almost a Faulknerian task. Nilsson had the hardscrabble beginnings of Faulkner's Snopeses, perhaps, but he never had their crupperudeess, and the aftermath of success didn't catch him—as it taught Flem Snopes—with too little class for his new station, or with too little sophistication for the roles higher up in the socioeconomic rope, or any of that. Instead, what Harry appears to be doing musically these days is slumming, and a lot of his innate sublity is going to waste in his current hangouts. Aristocracy-going-to-seed is the twist the story wants to take now, and for that you need not Snopeses but maybe Sartorises or Compsons.

Harry was born with a lot of class, I think, and seems to share a story—whatever that story is—with such figures as Marlon Brando and Orson Welles. He seems to toy with recording the way they toy with their dramatic roles nowadays, the Presence being continually too big for the vehicle. His newest RCA album, "That's the Way It Is," seems to coveryly acknowledge that this is going on, and the music—the material—in it seems to relate to Harry's talent as the ridiculous stuff in Missouri Breaks relates to Brando's, or as the ridiculous stuff in The Long Hot Summer related to Welles'. This is a curious state of affairs, for Harry Nilsson, as everyone knows, is a fine writer as well as a singer, and why couldn't he write his way out of this? But Missouri Breaks had the services of a fine writer too (Tom McQuaire), and Summer was based on parts of a fine book by—as a matter of fact, William Faulkner.

The thing that troubles the listener, of course—the same thing that troubles the viewer of the last dozen Brando movies—is that the protagonist's heart isn't in it; there is little meat in the subject for him and he seems to be going along and trying to amuse himself as best he can. And so we have here a strange, primal-scream treatment of Randy Newman's "Sail Away." It may remind you of what a fine album "Nilsson Sings Newman" was, which Harry got his teeth into, or it may remind you of Harry's recent associations with John Lennon, another hardscrabble beginner who seems bent on a Compson-type middle age. You have a dragged-out joke, which Harry didn't write, about a tattooed lady; it's maybe half a cut above a bathroom "humor," and Flem Snopes probably would've liked it. You have the Nilsson virtuoso vocal treatment of a slow rhythm-and-blues number, "A Thousand Miles Away," that may remind you of when this kind of thing was called race music (That's the Way It Was, and a lot of what was recycled into what is), but that is more likely a simple matter of goofing around in the studio. And so on. Harry has done very little writing for this, in fact; only two of the songs are his, and those are in collaboration with others. They are, like the rest, casual, though the one he wrote with Dr. John, "Daylight Has Caught Me," is still pretty good. But there is a line he didn't write (in Zombie Jam-

boree) that seems altogether poignant for Harry Nilsson to be singing these days: "I don't give a damn...cause I've done that already." Caring is out—it's been done. That's an interesting idea, and it may be relevant to the Seventies in spades. So give Harry good marks for a journalistic feel of something, but it seems like he listeners apparently have to do most of the work to make the album mean something.

That isn't quite how it's supposed to be. We're supposed to do some of it, but our ears have to be treated first. The way it's supposed to be is that Harry's supposed to be up in a garret somewhere coming up with stuff that we couldn't come up with ourselves and putting his own individual stamp on how it sounds. His razzle-dazzle in the studio is supposed to be about something; this is, after all, the one we used to call Nilsson(!) We don't one-name every Rockaday Johny who comes along, and we'd feel better about albums like this if they were technically inferior but a little more earnest.

Exactly what's going on is impossible to know, of course, without knowing Nilsson extremely well personally. It could be, among other things, that the garret is a lonelier place now than it used to be. Back when he was publicly Nilsson, before everyone took to calling him Harry, he was, or seemed, above it all. Keeping his own counsel, I thought. His music wasn't rock; it wasn't anything you could categorize. He didn't seem to need to be identified with any particular in-group. Maybe we're now in a period when spies need to come in from the cold and artists need to come down from their garrets. The need for day-to-day ego feedback may be exaggerated by some general schlockiness of the Seventies—and of course with all that stroking and the associated identification with other persons and groups comes a threat to the individuality of one's work. Maybe Harry primarily needs time and circumstance in which to be a person, whereas Nilsson(!) needed primarily the solitude in which he could try to be an artist.

There must be a check built into this somewhere, nature being so full of safety valves, and perhaps it is boredom. I suspect that Harry, or maybe it's Nilsson(!) I'm talking about won't tolerate much more boredom than he apparently endured in getting this project out of the way. And so he may climb back up there and consult himself again about doing something he cares about. The times and the part they play in all this can change too. Times have been known to, and then some American stories do have this thing about upbeat endings...

—Noel Coppige

HARRY NILSSON: . . . That's the Way It Is.

Harry Nilsson (vocals, keyboards); instrumental accompaniment. That's the Way It Is: "Look/Baby I'm Yours; Moonshine Bandit; I Need You; A Thousand Miles Away, Sail Away: She Sits Down on Me; Daylight Has Caught Me; Zombie Jam boree; That Is All (reprise)." RCA APL-1119 $6.98, @ APS1-1119 $7.98, @ APK-1-1119 $7.98.

STEREO REVIEW
even discovered Wainwright yet, and don’t do so soon, I’ll take it personally. You wouldn’t want to hurt an old folkie’s feelings.

BILLY WRAY. Bill Wray (vocals); orchestra. 
Lover; I’m in Love, Takin’ My Time, Suitin’; Tonight’s the Night; and four others. LEGEND MCA-2188 $6.98; @ T-3188 $7.98.

Performance: A bit embarrassing
Recording: Fair

Bill Wray writes and performs (sort of) all of his own material on this album. From the firmly mediocre beginning (River City) until the final turn of the screw seven bands later (So Far From Home), it is an exercise in the kind of galvanic sloppiness I thought had passed from the record industry when money got tight. An album that should simply be politely dismissed, ignored, and glossed over.

P.R.

COLLECTIONS

THE COMPLEAT DANCING MASTER.

Traditional airs compiled and arranged by Ashley Hutchings and John Kirkpatrick, with various readers and instrumentalists. AN-TILES AN-7003 $4.98.

Performance: Interesting
Recording: Very good

This is an interesting, valiant, but largely unsuccessful attempt to fuse rock, dramatic readings from the classic literature, and antique musical forms into a palatable entertainment whole. Unfortunately, the result is a mostly confusing, highly erratic hash that never settles down to one consistently interesting point of view. The musical sections do have a certain arty chic that holds the attention for a while—until one begins to wonder why anyone would go to all this trouble simply to slide a few rock shadings into such a highly constricted form. The dramatic readings, by such well-known English actors as Michael Gough, Alec McCowen, and Sarah Badel, range from Dickens to Shakespeare to Bade!, range from Dickens to Shakespeare to P. R. (So Far from Home), it is an exercise in the

MCA-2188 $6.98 (from the National Geographic Society, Washington, D.C. 20036).

Performance: Good
Recording: Excellent

Records of cowboy songs are not exactly the newest thing, and National Geographic would seem to be rustling in territory already staked out by other companies. But if we must have more records of cowboy songs, we couldn’t get them in a better package than has been put together here, the first of four albums of the Society’s “American Adventure Collection.” First, there’s the booklet, page after page handsomely illustrated in full color with doggedly realistic paintings of cowpunching by Frank C. McCarthy. Then there’s a text, one of those informative National Geographic texts, telling how it was for the hard-working cowpuncher who got the “tools and methods of his trade” from the Mexican vaqueros (hence, “buckaroos”) and often put in an eighteen-hour working day. Then there are notes for all the songs, rich in facts about how the men would sing night-herding lullabies to soothe the cattle and prevent stampedes, how The Streets of Laredo can trace its ancestry back to Celtic origins, and what really happened to Billy the Kid (Sheriff Pat Garrett shot him dead after he escaped from the prison where he was being held on a murder rap).

Finally there are the songs themselves, Get Along Little Dogies and Red River Valley and Little Joe, the Wrangler, along with a number of less familiar ballads like Hell in Texas, a no-holds-barred satirical stunt about how it came to be so hot in the spade-shaped state, and Trusty Lariat, a spoof on the whole myth of the larger-than-life hero sitting tall in the saddle. Real cowboys often couldn’t get jobs if they couldn’t sing, but the group whose members take turns leading the songs in this collection could qualify with the best. There are seven soloists, and every one of them has a thorough grasp of the cowboy-song idiom and gets lively accompaniment from harmonica, guitar, fiddle, and banjo in various combinations—just as they were likely to have turned up around the campfire on the old Chisholm Trail.

P.K.

THEATER•FILMS

COLE—A MUSICAL TRIBUTE TO COLE PORTER.
Elaine Stritch, Patricia Routledge, Ian Carmichael, Susannah McCorkle, the Mike Sammes Singers (vocals); orchestra. 
Night and Day; I Get a Kick Out of You; You’ve Got That Thing; True Love; I’m in Love Again; In the Still of the Night; Brush Up Your Shakespeare; and eight others. STANYAN SR 10136 $6.98 (from Stanyan Record Co., 8440 Santa Monica Blvd., Los Angeles, Calif. 90069).

Performance: You’re the top, Carmichael
Recording: Good

This is an inglorious mess. Only one of the performers, Ian Carmichael, has any feel at all for the snap and wit of the Porter style, something he proves magnificently in You’ve Got That Thing (“That certain thing/That makes the birds forget to sing.”) and in the newly infamous Miss Otis Regrets (ah, Truman, you’ve gone too far at last). Carmichael is superb, and he deserves an album of his own for our delection. Fortunately, Elaine Stritch sounds totally spaced-out and all too obviously flat in I Get a Kick Out of You and in her three other numbers. Whatev—

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projected city scenes, the trio praises the town's virtues and twits its vices in a lively and ingenious mixture of skits, ballads, and patter songs reminiscent of the sort of thing that used to be done so well in night clubs like Plaza 9 and Upstairs at the Downstairs. When I got around to catching the show, this Valentine for the Big Apple had moved uptown from the Village Gate; Ms. Perkins was still in it, but Len Gochman had been replaced by Ted Prichard and Renny Temple by Chip Zien. Prichard and Zien were nimble enough, but Gochman and Temple are even more effervescent, and Perkins is a superb comic. Lucky, then, that it is their voices you hear on this original-cast recording, which offers ten is a shamelessly romantic ballad extolling the beauty of the town, and the title song is an outright declaration of municipal love. New Yorkers are not to be caught

Tuscaloosa's Gochman, Temple, and Perkins: An outright declaration of municipal love

Er tough, wisecracking style she had in the past seems to have disappeared into a harsh, almost desperate aggressiveness. Patricia Wintour and Susannah McCorkle are completely hopeless in dealing with the Porter subletties—they sound like two barmaids walking through Bergdorf's on their lunch hour and trying to sound 'chick' for the benefit of anyone who might overhear them. On the other hand, she has and will survive this kind of mauling, and his own reaction to this album would probably have been one of grim amusement.

P.R.

REX (Richard Rodgers-Sheldon Harnick). Original-cast recording (see Choosing Sides, page 114)

TURNABOUT! (Forman Brown). Original-cast recording. Elsa Lanchester, Forman Brown, Frances Osborne, Dorothy Neumann, Bill Buck, Harry Burnett (vocals); piano accompaniment. PELICAN LP 142 $6.98 (from Pelican Records, P.O. Box 34732, Los Angeles, Calif. 90034).

Performance: Good Recording: Good

The Turnabout Theatre Revue was for years (1941 to 1956) and institution in Los Angeles, a city that never seemed to care too much for live entertainment of the traditional legit kind. Forman Brown's tiny, charming theater, however, with its company of clever comic actors who performed his material, did manage to survive as about the only place out there that had any of the snappy chic of what was then a multitude of supper clubs in New York (the Blue Angel, the Village Vanguard, Bon Soir, etc.). The fourteen numbers recorded here are supposedly representative of a "typical evening" at the Turnabout. Genteel, verging on the tatty, is about the best that can be said of this kind of material in 1976. Even Elsa Lanchester, a woman who even in casual conversations I generally find amusing, is only tee-hee-dear jokey in such things as When a Lady Has a Piazza or If You Can't Get in the Commons. Frances Osborne is still more of a drawing-room "card" in Brunnhilde Rides Again, and Harry Burnett sounds aridly "wistful" in Clarinet the Great, the saga of a man who is the back end of a stage horse. Brown himself is an interesting performer—a cross between the ghosts of Dwight Fiske and Clifton Webb. It's interesting historically, I suppose, but the album sounds today very much the way an Angela Thirkell novel reads—a bit precious, sometimes funny, but incredibly naive.

P.R.

RECORDING OF SPECIAL MERIT

TUSCALOOSA'S CALLING ME (Bill Heyer-Hank Beebe). Original-cast recording. Len Gochman, Patti Perkins, Renny Temple (vocals); Jeremy Harris (piano); Ted Sommer (drums); Dave Moore (bass). VANGUARD VSD 79376 $6.98.

Performance: Tonic Recording: Very good

In Tuscaloosa's Calling Me . . . But I'm Not Going three bright and agile young people—Len Gochman, Renny Temple, and Patti Perkins—talk, sing, and prance their way through a musical review designed to raise the flagging spirits of besieged New Yorkers and make visitors feel glad they took the trip. Against constantly shifting backgrounds of praising their city in the kind of shameless Chamber-of-Commerce terms that might pass in, say, Los Angeles, the review backs into its own city scenes, the trio praises the town's virtues and twits its vices in a lively and ingenious mixture of skits, ballads, and patter songs reminiscent of the sort of thing that used to be done so well in night clubs like Plaza 9 and Upstairs at the Downstairs. When I got around to catching the show, this Valentine for the Big Apple had moved uptown from the Village Gate; Ms. Perkins was still in it, but Len Gochman had been replaced by Ted Prichard and Renny Temple by Chip Zien. Prichard and Zien were nimble enough, but Gochman and Temple are even more effervescent, and Perkins is a superb comic. Lucky, then, that it is their voices you hear on this original-cast recording, which offers ten

VANGUARD VSD 79376 $6.98

Performance: Something old, something new . . . Recording: Very good

If the idea of Doc Cheatham and Herb Hall recording with Dave Burrell and Beaver Harris sounds as far out as Kate Smith doing back-ups for Gil Scott-Heron (don't worry, she hasn't as yet), it isn't. For one thing, no avant-garde player worth his salt finds it difficult to take a stylistic step backward, and as it happens the segments featuring Cheatham, Hall, Maxine Sullivan, and Marshall Brown (namely, side one) do not require them to take the more difficult step forward. I suppose this is to be regarded as one work, but I find it hard to do so because what happens on side one is so totally different from side two, and—for except for having in common the presence of Ron Carter and Beaver Harris—there seems to be no relationship. Side one features a sextet with a couple of vocals by Ms. Sullivan. Arranged by Brown, it starts off with A. M. Rag, written and played by Burrell, whose approach to ragtime is a deliberately stylized one; there is also a pleasant ballad written by Harris and sung by Maxine Sullivan—who sounds at least twenty years younger than she is—and a segment very reminiscent of the sort of thing John Kirby's band used to do (Ms. Sullivan was, incidentally, once Mrs. Kirby). Herb Hall plays well here, though he never fully measured up to his late brother, Edmond, and Doc Cheatham—in his seventies—amazingly continues to reflect the technique and musical thinking of a forty-year-old. It's a nice side, but I think just letting these musicians jam would have yielded better results.

Side two is more satisfying because it is more honest. Thirteen musicians, mostly percussionists, are featured. Dave Burrell's arrangements, which take full advantage of everyone present, have a great deal to do with the success of this album. Opening with a fine bass duet played by Cecil McBee and Ron Carter, who also engage in an interesting dialogue later on, Round Trip (the collective title of this side) is supposed to take us from the ragtime of the opening cut to the no time re-
Some of the rather special adjectives the test labs have been using to describe LUX.

Unless this is the first high fidelity publication you have read, you know that equipment reviews are almost always favorable. We don't suggest that the reviews are inaccurate or that they don't reflect the editors' sincere judgments. Rather, we understand that the publications prefer to use their limited space for equipment that they can recommend to their readers.

Thus, the problem for the discerning reader is to distinguish between the adequate, the good and the truly superb. As of this date, four LUX products have been the subject of test reports in high fidelity magazines. Aside from confirming excellent specifications and exceptional sonic performance, the reviewers left little doubt as to which descriptive category they meant to apply.

For an apt example, the Hirsch-Houck report (in Stereo Review) on the Luxman L-100 concluded: "Obviously the performance and operating characteristics of the Luxman L-100 require the use of superlatives for an adequate description... Externally, internally and in respect to performance, (it) must be considered a simply beautiful product. The harmonic distortion (THD) at 1,000 Hz and 10 watts output was 0.0087 per cent and it remained at that figure up to the rated 110 watts..." (Our claimed THD at rated power, 20 to 20,000 Hz, is 0.08 per cent).

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FM Guide reported on the Luxman T-110 tuner, also with unequivocal conclusions: "...the FM purist's tuner... emphasis is totally on absolutely top FM performance... in most of our listening tests we were being limited by the quality of broadcast signals... without a doubt, the best performing tuner we have ever seen at this price..."

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THE L.A. FOUR (see Best of the Month, page 88)

PETER MAGADINI: Polyrhythm. Peter Magadini (drums, percussion); Don Menza (flute, piccolo, soprano and tenor saxophones); George Duke (keyboards); Dave Young (electric bass). The Modulator; Samba de Rollins; Midnight Bolero; and three others. BRIOKR 1000 $6.98 (from Briko, P.O. Box 15075, Phoenix, Ariz. 85060).

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PETER MAGADINI: Polyrhythm. Peter Magadini (drums, percussion); Don Menza (flute, piccolo, soprano and tenor saxophones); George Duke (keyboards); Dave Young (electric bass). The Modulator; Samba de Rollins; Midnight Bolero; and three others. BRIOKR 1000 $6.98 (from Briko, P.O. Box 15075, Phoenix, Ariz. 85060).

Performance: Very good

Recording: Very good

Annotator: Bart Bull (if there is such a person) writes that “polyrhythms are relatively new to Western ears,” which would indicate that the music of black Americans is relatively new to his ears. What is new here — to me, at least — are Peter Magadini and Don Menza, two fine musicians who surely could play their way out of Phoenix (where this album originated) and may well have done so already. George Duke, formerly of the late Cannonball Adderley’s group, and bassist Dave Young, an erstwhile Oscar Peterson associate, fit nicely into the scheme of things, making this a very good album on a very young label from a very unlikely geographic location. By the time you get to Phoenix, though, Magadini and Menza will undoubtedly have moved on to more fertile jazz ground.

MAHAISHVILI ORCHESTRA/JOHN McLAUGHLIN: Inner Worlds. John McLaughlin (guitar, synthesizers, backing vocals); Mahavisht Orchestra (vocals and instruments).

In My Life; Lotus Feet; Inner Worlds (Parts I and II); and seven others. COLUMBIA PC 33908 $6.98, © PEA 33909 $7.98, © PCT 33908 $7.98.

Performance: Stagnant

Recording: Very good

I have admired John McLaughlin as a musician ever since I first heard him play with Mike & the Mechanics; and, I have enjoyed much of what he has done on his own since then, but this pseudo-spiritual waste of talent is positively sinful. Great as it is to hear McLaughlin play on a number like In My Life, I just can’t see having to put up with all the surrounding nonsense.

JACO PASTORIUS. Jaco Pastorius (bass); various instrumental combinations, including Wayne Shorter (soprano saxophone), Hubert Laws (piccolo), Herbie Hancock (keyboards), Don Alias (congas and percussion), and Len- ny White (drums). Donna Lee; Opus Focus; Continuum; and seven others. Epic PE-33949 $6.98, © PEA-33949 $7.98.

Performance: Ho humdrum

Recording: Very good

I have come to the conclusion that there is some sort of master tape circulating in the record industry. Somewhere on its many tracks it contains the current gang of ins—Herbie Hancock, Wayne Shorter, McLaughlin, the Brecker brothers, etc.—located in such a way that the remix engineers can produce an almost infinite variety of combinations. A couple of tracks are left blank, of course, to add various leaders and soloists whose presence is designed to give the impression of a new recording.

Though we have heard it on other labels, this communal tape seems to be most fre- quently used by the Columbia/Epic people, who have used it as the basis for all the most recent Herbie Hancock albums. In this case, they have added Jaco Pastorius, a not-so-interesting bassist, as the leader, injected a tired vocal by soul team Sam and Dave, and tied the package with strings, making this a very talented Michael Gibbs. Some of Han- cock’s work here sounds new, but there is little else that hasn’t met the ear before.

JOE VENUTI; Joe Venuti and Zoot Sims. Joe Venuti (violin); Zoot Sims (tenor saxophone); Spiegel Wilcox (trombone); John Bunch (piano); Milt Hinton (bass); Bobby Rosengarden (drums). Avalon; I Surrender Dear; Shine; Russian Lullaby; and six others. CHARCO 142 $6.98.

Performance: Venutian

Recording: Sloppy

JOE VENUTI/MARIAN McPARDLAND: The Maestro and Friend. Joe Venuti (violin); Mari-
Mike Wofford
Engaging melodies well worth listening to...
Choosing Sides

By Irving Kolodin

**REX: SEX, VEX, HEX**

The score for *Rex* was Richard Rodgers' forty-first for the musical theater; though the most recent, it may also, for the average theater-goer, be the least memorable. That is something we can regret without going quite as far as the New York Times' Clive Barnes did in his review, characterizing Rodgers as a great man of the musical theater with one hand while hoisting him high on the critical gibbet with the other. At any rate, *Rex* is dead after only forty-nine performances in New York, and though RCA's original-cast album (ABL-1-1683) doesn't by any means mirror the whole score, it contains enough of what was strong about it to make one wonder why more wasn't done to correct what was weak.

The existence of a worm beneath the skin of this well-grown if somewhat unripe apple was apparent long before the Broadway opening in early April—as long before as February 20, indeed, when the production had its first showing in Wilmington, Delaware. Elaborate, complicated, with a multiplicity of scenes and a cast of principals to match, it had every ill-omened attribute of the classic out-of-town opening fiasco. That was in itself something of a curiosity, given the vast experience of those involved: Richard Adler as producer, Sheldon Harnick (with many successes to his credit) as author of the lyrics to a book by Sherman Yellen, and, of course, Rodgers himself. Could it have been smoother, could it have been keener in its treatment of Henry VIII’s catalog of sensibilities? Perhaps so, given another group of collaborators. Lorenz Hart would have dealt more deftly with Henry’s pre-Elizabethan enthusiasm for wiving and swiving—and for diving into any trencher his cooks could fill. Oscar Hammerstein II would have been worldlier about the royal urges, wiser about the surges and the purges. And both, certainly, could have accommodated Henry’s yearning preoccupation with the subject of a son and heir without making it the underwhelming theme of the musical.

It was clear enough, on that Friday night in Wilmington, that the second of the two acts (a dramatic division apparently now inviolable in the Broadway musical, though it suits this subject less well than it does some others) was the stronger. As Henry’s life was winding down—with, finally, the reward of the son for whom he yearned and the disconcerting discovery that there might, after all, be more of his Tudor self in the female Elizabeth than in the male Edward—Rodgers’ musical graph was rising higher. Henry’s awareness of the passing days and his longing for an extension of them also inspired the touching imagery of Harnick’s best lyric. Its cue was the presentation to Henry of a gift—a pear tree from Anjou—from his contemporary and rival Francis, King of France. Such a tree matures only in the royal volume. This is probably what was happening, wish, both admirably echoed in Rodgers’ music, was called on (though certainly not with Maxwell Anderson’s compliance) to exchange his masterly *September Song* for something “happier” for Peter Stuyvesant to sing at the close of *Knickerbocker Holiday*. Something nice, perhaps, like “It’s May in Wilmington, that the second of the two acts (a dramatic division apparently now inviolable in the Broadway musical, though it suits this subject less well than it does some others) was the stronger. As Henry’s life was winding down—with, finally, the reward of the son for whom he yearned and the disconcerting discovery that there might, after all, be more of his Tudor self in the female Elizabeth than in the male Edward—Rodgers’ musical graph was rising higher. Henry’s awareness of the passing days and his longing for an extension of them also inspired the touching imagery of Harnick’s best lyric. Its cue was the presentation to Henry of a gift—a pear tree from Anjou—from his contemporary and rival Francis, King of France. Such a tree matures only in the year’s run that would have proved it), it wouldn’t make much sense for Peter Stuyvesant, but it is upbeat, and none of that nonsense about “the days dwindle down to a precious few.” Is that the kind of thing you want to give middle-aged theater-goers to fret about on their night out?

In the kind of theatrical climate that prevails today, in which musicals are either flops or smash hits and nothing in between (*Pacific Overtures* might have been an intermediate exception, but it closed before the elapse of the year’s run that would have proved it), it was probably easy to find an expert to snatch defeat from the jaws of even a potential victory by pontificating “You’ll never make it with that downbeat number in there.” What is difficult is to imagine why Rodgers, with all that productivity, all that prestige and those years of experience behind him, couldn’t have insisted that so perfect a resolution of the story stay in.

If we should discover, in someone’s memories, that the original version of *Rex* bears witness. Most, to judge from a comparison of the disc with the original printed program, were eliminations from the over-long, cluttered first act. But one addition is a song titled Why? which gives still further voice to Henry’s irritation at being denied—you guessed it—a son. This is probably what is called, in contemporary show-shop terms, “getting the message across.” In other words, on the chance that the audience has been asleep the first two or three times the idea was presented, give it to them again.

Such redundancy is, first of all, insulting; it is also fallacious, as fallacious as the notion that a Broadway show cannot have a downbeat ending or even the suggestion of one. But the recorded *Rex* nevertheless comes to its end lamely with a reprise of the *Te Deum*, with which the original show, unlike the record, did not begin. Nor does the recording present the Pearls of Anjou even in some other, slightly rearranged sequence. To avoid the possibility that it might even suggest an unhappy end, it is out, gone, eliminated. In similar circumstances Kurt Weill, say, might have been called on (though certainly not with Maxwell Anderson’s compliance) to exchange his masterly *September Song* for something “happier” for Peter Stuyvesant to sing at the close of *Knickerbocker Holiday*. Something nice, perhaps, like “It’s May in Wilmington, that the second of the two acts (a dramatic division apparently now inviolable in the Broadway musical, though it suits this subject less well than it does some others) was the stronger. As Henry’s life was winding down—with, finally, the reward of the son for whom he yearned and the disconcerting discovery that there might, after all, be more of his Tudor self in the female Elizabeth than in the male Edward—Rodgers’ musical graph was rising higher. Henry’s awareness of the passing days and his longing for an extension of them also inspired the touching imagery of Harnick’s best lyric. Its cue was the presentation to Henry of a gift—a pear tree from Anjou—from his contemporary and rival Francis, King of France. Such a tree matures only in the year’s run that would have proved it), it wouldn’t make much sense for Peter Stuyvesant, but it is upbeat, and none of that nonsense about “the days dwindle down to a precious few.” Is that the kind of thing you want to give middle-aged theater-goers to fret about on their night out?

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If we should discover, in someone’s memories, that the reason The Pearls of Anjou was deleted was that Nicoll Williamson couldn’t handle the song on a night-to-night
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CLASSICAL DISCS AND TAPES

Reviewed by RICHARD FREED • DAVID HALL • GEORGE JELLINEK • PAUL KRESH
STODDARD LINCOLN • ERIC SALZMAN

RECORDING OF SPECIAL MERIT

J. S. BACH: Motets. Jesu, meine Freude (BWV 227); Fantasia sopra Jesu meine Freude (BWV 713); Vom Himmel hoch (two settings, BWV 243 and BWV 701); Freut euch und Jubiliert (BWV 243); Komm, Jesu, komm (BWV 231); Singet dem Herrn (BWV 225); Lobet den Herrn, alle Heiden (BWV 230); Der Geist hilft unser Schwachheit auf (BWV 226); Fürchte dich nicht (BWV 228). David Lumsden (organ); Louis Halsey Singers, Louis Halsey cond. L'OISEAU-LYRE SOL 340-341 two discs $13.96.

Performance Sumptuous
Recording Resonant

Conceived more as concerti grossi than choral works, Bach's magnificent motets for double chorus are unique in the repertoire. The choral writing is brilliant in the extreme, and the fact that it is instrumental in its idiom presents formidable performance problems. The Louis Halsey Singers surmount all technical difficulties with flying colors. Their sound is a sumptuous one, and the clearly articulated coloratura passages produce a remarkable lucid texture not often found in performances of these works. Also exciting is the vital rhythmic concept Mr. Halsey brings to the music.

Perhaps the most interesting aspect of this album is the use of organ continuo to accompany the choruses. Although it is not specifically called for in the score, historical evidence seems to support its use, and the musical result in this performance proves the point. The organ is subordinate, but it is clearly heard because of David Lumsden's tasteful registration and excellent realization. Rather than muddying up the texture, as so often happens, the organ adds richness and luster to this fine reading, and it is also there to give us, as a bonus, some of Bach's keyboard transformations of chorale tunes. S.L.

J. S. BACH: Sacred Songs from Schemelli's Gesangbuch. Dir, Dir, Jehovah, will ich singen; Ich steh an deiner Krippen hier; O Jesulein siss, o Jesulein mild; Der lieben Sonne Licht und Pracht; So gehst du nun, mein Jesu, hin; Gott, wie gross ist deine Güte; Liebster Herr Jesu, wo bleibst du so lange; Vergiss mein nicht, mein allerliebstest Gott; So gibst du nun, mein Jesu, gute Nacht; Komm, süsser Tod; Eins ist not! Ach Herr, dies eine; Ihr Gestinde, die giildne Sonne, von Freud und Wonne; Ich lass dich nicht, du musst mein Jesu bleiben; Brich entzwei, mein armes Herz; Gott lebet noch; Mein Jesu, was für Seelenwelt; Ach, dass nicht die letzte Stunde; Kommt wieder aus der finstern Gruft; Steh ich bei meinem Gott. Sacred Songs from the Anna Magdalena Bach Notebook. Gib dich zufrieden und sei still; Wie wohl ist mir, o Freund der Magdalena Bach Notebook. Dir, Dir, Jehovah, will ich singen; Ich steh an deiner Krippen hier; O Jesulein siss, o Jesulein mild; Der lieben Sonne Licht und Pracht; So gehst du nun, mein Jesu, hin; Gott, wie gross ist deine Güte; Liebster Herr Jesu, wo bleibst du so lange; Vergiss mein nicht, mein allerliebstest Gott; So gibst du nun, mein Jesu, gute Nacht; Komm, süsser Tod; Eins ist not! Ach Herr, dies eine; Ihr Gestinde, die giildne Sonne, von Freud und Wonne; Ich lass dich nicht, du musst mein Jesu bleiben; Brich entzwei, mein armes Herz; Gott lebet noch; Mein Jesu, was für Seelenwelt; Ach, dass nicht die letzte Stunde; Kommt wieder aus der finstern Gruft; Steh ich bei meinem Gott. Sacred Songs from the Anna Magdalena Bach Notebook. Gib dich zufrieden und sei still; Wie wohl ist mir, o Freund der Magdalena Bach Notebook. Elisabeth Speiser (soprano); Peter Schreier (tenor); Hedwig Bilgram (organ). DG ARCHIVE 2533 299 $7.98.

Performance Inward
Recording Pure

Bach set the devotional melodies from Schenelli's Song-Book of 1736 with the same loving care he lavished on his four-part choral settings. Elizabeth Speiser and Peter Schreier sing them simply and exquisitely. However beautiful they may be, though, a little goes a long way. There just isn't enough musical variety; Bach certainly never intended to have them ladled out in forty-minute quantities. Perhaps the organist should have added some introductions and interludes, thus breaking the monotony of one continuous sound for so long a time. But, lacking that, the interested listener is simply advised to take the songs in small helpings, in which they will reveal all their loveliness and pathos. S.L.

RECORDING OF SPECIAL MERIT

J. S. BACH: Sonatas for Violin and Harpsichord (BWV 1014-1019). Eduard Melkus (violin); Huguette Dreyfus (harpsichord). DG ARCHIVE 2708 032 two discs $15.96.

Performance Very fine indeed
Recording Alive

Having played these wonderful sonatas in public many times myself, I was completely appalled the first time I was forced to listen to somebody else perform them. What had happened to the remarkable three-part counterpoint so ingeniously divided among the harpsichordist's two hands and the violin? As a performer I saw it and heard it, but as a listener I heard all I heard was a busy violin part with some sort of clatter in the background. And that is the problem of performing these sonatas: how to achieve equal balance among the three voices, two of which are assigned to a pricky, dynamically static harpsichord and the third to a singing, dynamically alive violin.

Eduard Melkus and Huguette Dreyfus have solved this knotty problem by their choice of instruments and by returning to authentic Baroque articulation. Melkus' 1679 Amati has a sweet sound which, although not loud or forced, has character. He divides his phrases into small and clearly articulated groups that make room for the sound of the harpsichord. Miss Dreyfus commands a resonant Jean Baptiste Collin favorite harpsichord (1737) that has a ravishing tone, and, like her partner, she articulates clearly. Although at times the harpsichord perforce loses its equality with the violin, the nature of her instrument and the manner of her playing give it a presence that is musically satisfying. The resultant sound is, despite the minute articulations, that of a velvety legato, suave and sinuous. One only has to hear the cadence of the inner slow movement of the Second Sonata to realize these artists' achievement. The two upper voices are perfectly matched, and the awkward bass line, which Bach marked streu.
A challenge Miss Dreyfus meets head on with beautiful results, offers the perfect support. It is these contrapuntal movements that come off best here.

Although Baroque slow movements are in general taken rather more quickly than Classical and Romantic ones, some of the Melkus-Dreyfus tempos—the first movements of Nos. 1 and 3, for example—seem a bit pressed, and the violin's detailed floritura is often crushed into an all too unremitting beat. In these instances a more rhapsodic approach would help achieve the repose so needed in this music. On the other hand, the slow movements of No. 4 are stunning in their concept, and any team that can bring off the impossibly repetitious figuration of the first and third movements of No. 5 deserves high praise. Indeed, of all the recordings of these sonatas I have heard, I find this one the most rewarding musically.

S.L.

RECORDING OF SPECIAL MERIT

BEETHOVEN: Sonatas for Cello and Piano (complete); Seven Variations on "Bei Männern" and Twelve Variations on "Ein Mädchen oder Weibchen" from Mozart's "The Magic Flute"; Twelve Variations on a Theme from Handel's "Judas Maccabaeus." Jacqueline du Pré (cello), Daniel Barenboim (piano). ANGEL SCB-3823 three discs $13.96.

Performance: Wonderful
Recording: Good BBC concert recordings

These beautiful performances are drawn from two concerts given by Jacqueline du Pré and Daniel Barenboim at the Edinburgh Festival in 1970; they were recorded and broadcast by the BBC and are being released by Angel through an arrangement with the BBC record service. As live performances, they are astonishing; there is scarcely a patch or blemish. Yet these are hardly careful or held-back readings; they are rich and full-blown but never overwrought, a perfect blend of Beethovenian classicism and romanticism full of the presence of the live moment. There are other wonderful performances of these works in the catalog (the Rostropovich/Richter version, especially), but the concert ambiance of this set coupled with its musicality makes it something unique.

E.S.

RECORDING OF SPECIAL MERIT


Performance: Assured
Recording: Not bad

With Berman now established as a pianist of international interest, elements of his past recording history have begun to creep into the catalogs. These two performances on the English Saga label are not Russian in origin but were actually recorded in England and released in 1959, shortly after Berman's first (and for many years only) recital in that country in 1958. They were deleted from the catalog some time afterward as the artist was forgotten, and have now been restored to it just in time to coincide with the beginnings of an American distribution agreement between Saga and CMS/Desto, so the record is now available here for the first time.

While Beethoven usually suffers certain stylistic distortions in Russian performance...
and Berman is no exception to this—the \texttt{Appassionata} seems to be one of the works that suffers least. This is not a slam-bang performance, although Berman's fabled virtuosity carries him grandly through passages where most pianists scramble frantically or fail in the attempt to balance highly unequal left- and right-hand parts. It is, rather, a thoughtful rendering, with an elastic quality that sometimes gives in places where one does not expect it to, and tightens elsewhere where one expects it to give. It does not have an overwhelming cumulative impact, nor does it reach the heights of lyricism in the slow movement, but it is sane and strong, and it is a pleasure to hear fingers that have the notes so surely and confidently in them. On points, it would have to be ranked among the best recordings of the work currently available.

Berman, of course, has recorded the Liszt sonata recently (Columbia/Melodiya M 33927), a performance as notable for its musical architecture as for its virtuosity. One might have expected this more youthful recording (he was twenty-eight) to be basically a technical showpiece, but what emerges from this record is one of the most poetic performances of the piece I have ever heard, with plenty of dynamic range and plenty of singing line. Really very impressive, and sounding much more like the work of a master of the old school than of a man in his twenties.

The recording is a trifle low in level (to accommodate the dynamic range) and slightly cloudy in overall quality, but it has bass and a pleasing, if obviously dated, sound. The pressing is not immaculate, but it's not bad by today's standards.

\texttt{RECORDING OF SPECIAL MERIT}


\textbf{Performance: Outstanding}

This is conductor Colin Davis' second recording of \textit{Harold in Italy}, and, like the first, made in 1963 with Yehudi Menuhin and the Philharmonia Orchestra, it is an outstanding realization of Berlioz's unique masterpiece. The two recordings have their differences, however. The Menuhin reading was rather poetical and inner-directed, while the highly gifted Nobuko Imai's richer-toned playing and Davis' current approach to the music make for a more overtly dramatic and generally outer-directed view of Byron's hero amid the Italian mountains. And in the new version, for the first time in my experience with recordings of \textit{Harold in Italy}, the final brigands' overture comes off with all the brilliance and panache that I believe Berlioz intended. Choosing between the older and the newer Davis recordings in the other three movements comes down to a matter of taste and whether the marginally superior Philips recording is worth the extra \$1 investment. I'm holding on to both!

D.H.

\texttt{RECORDING OF SPECIAL MERIT}

\textbf{BLOMDAHL: In the Hall of Mirrors. Margareta Hallin (soprano); Barbro Ericson (contralto); Sven-Erik Vikström (tenor); Andor Szalay (baritone); Bengt Rundgren (bass). Swedish Radio Chorus and Stockholm Philharmonic Orchestra, Sixten Ehrling cond. Caprice \textcopyright \& \textregistered\ CAP 1006 \$7.98 (from HNH Distributors Ltd., P.O. Box 222, Evanston, Ill. 60204).}

\textbf{Performance: Marvelous}

\textbf{Recording: Exceptionally good mono}

Oratoriums with parts for speakers as well as singers have enjoyed a special popularity in Sweden; one example is Lars-Erik Larsson's so-called "lyric suite" \textit{The God in Disguise}. Blomdahl described \textit{In the Hall of Mirrors} as "a contemporary oratorio for speaker, soloists, chorus, and large orchestra, but at the same time a succession of virtuoso symphonic variations, deriving their substance from the two whole-tone scales of the introductory bars." The work won the Fartein Valen prize for him in 1953 and since then has been regarded as one of the major creations in recent Swedish music. It is a setting of nine sonnets from \textit{The Man Without a Way}, a 1942 cycle by Erik Lindegren (who later wrote the libretto for Blomdahl's "space opera" \textit{Aniara}), dealing with the poignancy of the human condition as brought into flaming relief by the events of that time. It shares common elements with certain similarly motivated works by such composers as Tippett and Bernstein—the second section is marked "in modo di Stew Blues," and the fifth is a parody of boogie-woogie—yet \textit{In the Hall of Mirrors} not only preceded many of these other works by nearly two decades but is in a musical language at once accessible and too distinctive to be mistaken for anyone else's. Blomdahl's use of both the vocal and instrumental forces is fascinating, delicate, and always original. If certain effects seem "obvious," they do not seem contrived, and their very obviousness emphasizes the note of urgency more effectively than something so "different" that the listener's response to it might be difficult or delayed. It will not be everybody's cup of tea, but it is something everyone ought to hear, and I cannot imagine a more expert or more vivid performance than the marvelous one preserved here.

If you are at all interested in this material, do not be put off by the recording's date (1966) or its being offered in mono. While it does seem more than strange that a major work of so important a composer would be recorded in mono as late as that, the sound hap-
pens to be so exceptionally good that one is hardly likely to be aware that anything is missing, there are, in fact, an impact and a realist that few two- or four-channel offerings surpass. The packaging includes really distinguished annotation by Goran Bengtsson as well as a full text in Swedish, English, and German.

R. F.

BRAHMS: Hungarian Dances (see The Basic Repertoire, page 60)

BRUCH: Kol Nidrei, Op. 47 (see DVOŘÁK)

DOHNÁNYI: Variations on a Nursery Song, Op. 25; Suite in F-sharp Minor. Bela Siki (piano); Slovak State Symphony Orchestra, Alicking Katims cond. TURNABOUT TV-S 34623 $3.98.

Performance: A bit breathless
Recording: Very good

RECORDING OF SPECIAL MERIT


Performance: Fleet and fulfilling
Recording: Excellent

As composer, conductor, and pianist, Ernest von Dohnányi, born in Pressburg in 1877, was one of the leading figures in Hungarian musical life until 1949, when he came to America to teach music at Florida State University. By that time his most popular works, the Suite in F-sharp Minor and the Variations on a Nursery Song, were far behind him. When he died in 1960, he was regarded in some quarters as an old-fashioned nineteenth-century figure, in no way comparable to his compatriots Bartók and Kodaly.

Old-fashioned Dohnányi's music may be, and shamelessly romantic too, but it abounds in charm and airy sparkle and beguiles the ear with the freshness of inspired melodic invention. The Suite, written in 1909 when the composer was thirty-two, is replete with felicitous elements. It has been out of the catalog for some time, and Katims' version on the Turnabout album, offering both the Suite and the Variations surpass. The packaging includes really superlative annotation by Goran Bengtsson as well as a full text in Swedish, English, and German.


Performance: Very good to superb
Recording: Very good to outstanding


Performance: Luscious
Recording: Good

RECORDING OF SPECIAL MERIT


Performance: Masterly
Recording: Good 1937 vintage

The Vox Box series has come up with another...
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BERNADETTE GREENEY

Lesser Known Britten

Three discs of lesser-known works of Benjamin Britten, which our English cousins have been enjoying for the last three to nine years, have at last been issued here, and, to make up for the delay, London has released them all in its low-price Stereo Treasury Series. Represented on the six sides are various facets of Britten's chamber music and vocal production, including some which are more or less unique to this composer.

The string quartet is surely not such a category, but the record of Britten's two quartets, splendidly played by the Allegri Quartet (from whom we used to get some fine Haydn and Mozart on Westminster), is the most welcome of the three in this assortment. Both quartets are early works, No. 1 composed at the end of the set of twelve composed in 1936) are available instead of only two.) The 1962 setting of Psalm 150 is as original and exciting in its way as the one by Ives, and the early Friday Afternoons songs (all but No. 4 of the set of twelve composed in 1936) are clever, ingratiating, and fresh as paint. If this particular disc was intended to show that the world is not going to hell in a handbasket, it succeeds nobly.

BERNADETTE GREENEY'S 1970 recording of songs has to compete with memories of Maureen Forrester in A Charm of Lullabies (on Westminster) and Peter Pears in the folk-song arrangements (on the old London 10-incher with Britten at the piano). The Irish contralto seems less than fully attuned to the lullaby cycle, and in particular seems reluctant to sing softly when so directed. It is good to have the material available, though, and in the folk-song settings both Greenev and her accompanist, Paul Hamburger, with neither condescension nor self-consciousness, give beautifully characterized performances that could hardly be bettered. Texts are included with both vocal discs.


BRITTEN: A Charm of Lullabies, Op. 41. Folk-Song Arrangements. There's None to Soothe; O Can Ye See A Causey?; O Waly, Waly; The Ash Grove; The Salley Gardens; The Trees They Do So High; How Come You Not From Newcastle?; Sweet Polly Oliver; The Bonnie Earl o' Moray; Oliver Cromwell. Bernadette Greenev (contralto); Paul Hamburger (piano). LONDON STS-15166 $3.98.

sterile at the piano). The Irish contralto seems less than fully attuned to the lullaby cycle, and in particular seems reluctant to sing softly when so directed. It is good to have the material available, though, and in the folk-song settings both Greenev and her accompanist, Paul Hamburger, with neither condescension nor self-consciousness, give beautifully characterized performances that could hardly be bettered. Texts are included with both vocal discs.


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Winner in its package of the complete Dvořák output for solo instrument and orchestra. Although only the B Minor Cello Concerto is a top-drawer masterpiece, the early F Minor Romance and the fiery Mazurkas are still gems, and the Violin Concerto certainly has its fine moments. Firkusny, long a champion of the oft-maligned Piano Concerto, manages to find and communicate more of its musical substance than I have heard from anyone else thus far.

The Second Quartet, which concludes with a Purcellian Chacony longer than the two preceding movements combined, is more widely known than its predecessor, but it has not been available on records in this country since the briefly circulated Amadeus version on London's full-price label was retired about a decade ago. The Amadeus, I recall, showed a bit more subtlety and crispness, but the Allegri performance is first-rate by any standard—and it is available. The First Quartet, a more ingratiating work perhaps (but by no means slight), with "pre-echoes" of Peter Grimes here and there (most notably in the very opening and in the expressive slow movement), has been in circulation for years in the form of an ancient Galinir version now on the Counterpoint/Esoteric label in phonograph. There is no contest in this case, the Allegri performance being sharper in every respect as well as benefiting from a more up-to-date recording (1972): it is, in fact, one of the best-engineered string quartet records I have heard. Besides filling a gap in the Britten discography, this is a very distinguished addition to the general chamber-music catalog.

Most intriguing, and hubbling over with "uniqueness," is the disc of choral and chamber works written for and performed by schoolboys. Britten composed his Gemini Variations (on a theme by Kodály) for a pair of gifted young twins he met in Budapest in 1964, Zoltán Jeney, a flutist, and his brother Gabriel, a violinist. Since both boys were also good pianists, Britten wrote a "Quartet for Two Players," in the form of twelve variations and a fugue including various solos and duets for all their instruments. What is most remarkable is that the music has real substance and is far more than a mere stunt. (Some time after the recording was made in 1966, Britten composed three additional variations, to be played when there are four performers available instead of only two.) The 1962 setting of Psalm 150 is as original and exciting in its way as the one by Ives, and the early Friday Afternoons songs (all but No. 4 of the set of twelve composed in 1936) are clever, ingratiating, and fresh as paint. If this particular disc was intended to show that the world is not going to hell in a handbasket, it succeeds nobly.

...but the record of Britten's two quartets, splendidly played by the Allegri Quartet (from whom we used to get some fine Haydn and Mozart on Westminster), is the most welcome of the three in this assortment. Both quartets are early works, No. 1 composed at the end of the 250th anniversary of the death of Purcell.

The Second Quartet, which concludes with a Purcellian Chacony longer than the two preceding movements combined, is more widely known than its predecessor, but it has not been available on records in this country since the briefly circulated Amadeus version on London's full-price label was retired about a decade ago. The Amadeus, I recall, showed a bit more subtlety and crispness, but the Allegri performance is first-rate by any standards—and it is available. The First Quartet, a more ingratiating work perhaps (but by no means slight), with "pre-echoes" of Peter Grimes here and there (most notably in the very opening and in the expressive slow movement), has been in circulation for years in the form of an ancient Galinir version now on the Counterpoint/Esoteric label in phonograph. There is no contest in this case, the Allegri performance being sharper in every respect as well as benefiting from a more up-to
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present the work complete on a single side, with side two free for intriguing rarities. I have been enjoying I Musici's recording of the octet for the last eight or nine years on Philips 802.725LY, on that disc the finale was on side two, with Wolf's Italian Serenade and a Rossini sonata. The all-Mendelssohn composer, which is certainly less subject to duplication, and the reissued octet sounds even richer than before.

The Vienna Octet version, backed up by a really sparkling account of Rimsky's all but unknown quintet, is not a reissue, but a remake, and the new performance led by Anton Fiecht is even more persuasive than the earlier one with Willi Boskovsky. The London sound is somewhat less robust than the Philips, belittling the somewhat more intimate approach of the Viennese performance. Neither version lacks vigor, and both are vividly effective in the famous scherzo; I Musici might be said to concentrate a bit more on brilliance, the Vienna to evince a bit more warmth of heart in their phrasing, but the differences either way are really very slight. Both versions are so appealing that coupling and price might very reasonably determine one's choice. R.F.

MOZART: Mass in C Minor (K. 427, "The Great"). Carole Bogard (soprano); Ann Murray (mezzo-soprano); Richard Lewis (tenor); Michael Rippon (bass); Amor Artis Chorale; English Chamber Orchestra, Johannes Somary cond. Vanguard VSD 71210 $6.98.

MOZART: Mass in C Minor (K. 427, "The Great"). Héla Cotrubas (soprano); Kiri Te Kanawa (soprano); Werner Krenn (tenor); Hans Satin (bass); John Aldis Choir; New Philharmonia Orchestra, Raymond Leppard cond. Seraphim S-60257 $3.98.

Here we have two respectable recordings of the Mozart C Minor Mass, both well done and well sung, but neither exciting and not much to choose between them. Leppard makes a richer sound and perhaps delves a bit deeper. He has a better-sounding orchestra, a plodding chorus, fine soloists, but not much sense of involvement. Somary achieves something more like an eighteenth-century sound—a bit more life and a bit more bite. A couple of amusing footnotes: Leppard argues quite convincingly in his program notes that this Mass was not, as is usually assumed, connected with Mozart's marriage to Constanza Weber. And Vanguard prints the entire text of the Credo although Mozart set only the first half of it.

E.S.


Performances: No zing

Recording: Good

Do I detect a lack of conviction about these performances of the last quartets of Mozart? Simply doing one's duty is no way to do Mozart. Of course, the Juilliard Quartet is fluent, knowledgeable, well-balanced, and the best. But there's no zing here, and Mozart is one composer who always ought to (pardon the expression) zing out.

E.S.

ORFF: Carmina Burana. Sheila Armstrong (soprano); Gerald English (tenor); Anne Allen (mezzo-soprano); St. Clement Danes Grammar School Boys' Choir; London Symphony Orchestra and Chorus, Andre Previn cond. Angel C-37111 $13.98.

Performances: Lyric in emphasis

Recording: Very good

Until Eugen Jochum or Herbert Kegel gets around to recording the Triomfo di Afrodite, this Supraphon album is likely to remain the only available stereo version of Carl Orff's complete trilogy on the power of love. Between the completion of the Carmina Burana (1936) and the concluding work of the Triomfo trilogy (1951) came Orff's Der Mond, Die Kluge, and the setting of the Holderlin-Sophocles Antigone. During this time, Orff was moving away from the relatively equal balance of music and word in Carmina Burana toward the primacy of speech and ritual theater, with the musical element dominated by elementally rhythm and song-speech. Indeed, it is in the context of ritual theater and
The Trionfo di Afrodite here benefits from both the best recording and the most effective performance. Unlike the Carmina Burana panels and the Catulli Carmina drama, the Trionfo di Afrodite is a full-scale wedding ceremony in the ancient ritual sense. It has a text by Catullus and Sappho and is complete with processional, dialogues, and song between bride and groom, games and songs before the bridal chamber, and a final "epiphany of Afrodite" climax by a torrent of orgiastic roars and screams from the chorus. The early pages are of less than prime interest, but things improve with the melismatic dialogue of bride and groom; by the time I got to the games and dances my listening interest was considerable, and it was steadily maintained to the end of this Orffian counterpart to Stravinsky's Les Noces.

All things considered, however, there are better versions of the first and second numbers of the trilogy, and I would wait for those. The first- and second-number versions of the Supraphon Trionfi album, therefore, though the accompanying English, German, and French notes are excellent, there are no corresponding translations of the medieval German, Latin, and Greek texts of the works themselves.

As for the recorded performances, it should be noted that the Carmina Burana was originally available in this country on the Parlaphone label in 1962, while the Catulli Carmina was issued on Crossroads in 1967 and the Trionfo di Afrodite has been obtainable individually on Supraphon since 1970. All are distinguished by singing of exceptional power and rhythmic vitality from the Czech Philharmonic Chorus, especially in the tenor department. The work of the solo singers is considerably less distinguished; Carmina Burana suffers in particular from the wobbly baritone of Theodor Rubal.

When I compared this Catulli Carmina performance with the superb Philips version conducted by Herbert Kegel, I concluded that the Czechs were presenting the tragedy of Catullus and Lesbia as a kind of "morality," while the Leipzig production sets forth an intensely poignant and deeply moving human drama. Perhaps the finest thing in the entire performance is the superb variety of nuance achieved by the male chorus throughout In Taberna. Previn eschews both the straitlaced moralistic and anything that smacks of the "wow" technique, instead emphasizing the score's lyrical values. For my taste, the first half of the performance is on the tame side, but from In Taberna to the end, the reading is first-rate on all counts. If quadraphonics are essential to the would-be purchaser, Michael Tilson Thomas' version on Columbia still retains the edge in terms of sheer brash vividness, but Angel's more conservatively ambient view makes for an excellent and in some ways more natural listening experience. D.H.
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RUDOLF SERKIN
Not schmaltz, but passion in Schubert

Franz Schubert—immensely gifted, inexhaustibly productive, and invariably poor—sought success in the theater, thinking that it would assure him wealth and recognition. He never succeeded. Even allowing for the poverty of the librettos and the unresponsiveness of the audiences in the midst of Vienna's Rossini craze, it must be recognized that opera simply was not Schubert's medium. Perhaps the closest he came to success was when his Die Zwillingsbruder (The Twin Brothers) received seven performances at Vienna's Karntnertortheater in 1820. Schubert's champion and friend, Johann Michael Vogl, sang the double role of the two brothers—one good, one bad—whose simultaneous sudden reappearance after an eighteen-year absence causes enough complications to sustain a one-act Singspiel.

But it is a naïve and unconvincing Singspiel that unfolds in the course of this well-produced and elegantly cast first recording, and even the uniformly fine singing and loving direction cannot make it effectively theatrical. There are ten arias, duets, and ensembles separated by spoken passages. One of them, a soprano aria (No. 3), is very attractive, with a clarinet interplay anticipating Der Hirt auf dem Felsen. Throughout, the orchestra writing is delicate and highly accomplished—after all, Schubert at twenty-three had already composed six symphonies—and the melodies are always engaging. Missing, however, is the dramatic flow, the knack of involving the listener in the plot. Still, it is an excellent performance of an opera by Schubert—and this description alone makes it almost irresistible.

F. J. STRAVINSKY: Petrouchka, Three Movements (see Tchaikovsky)

Performance: Canticum comes to life
Recording: Full

This performance of the Symphony of Psalms is ornate and sumptuous where it ought to be bright and clear (because of the sonic effect of the massed choral and instrumental forces and the overwhelming acoustic). It is rather hurried and uninflected where it ought to be more measured and detailed (tempo and phrasing). As a result, the almost medieval beauty of the performance—for once, boys' voices are employed as the composer intended, and the performers and Preston's leadership are excellent—might be undervalued.

These accomplishments are put to better use in the Canticum Sacrum, a much more austere and modern/medieval work. The Symphony of Psalms was written in 1930 for the "glory of God" and the Boston Symphony; Canticum, which appeared a quarter of a century later, was composed for the patron saint, the cathedral, and the city of St. Mark: Venice, Italy. In this strange composition, Stravinsky was consciously striving for the austerity and religious intensity of his last period, combining medievalism with twelvetone in a very distinct way. This combination, hard-edged and not often understood by classically trained conservatory musicians, is perfectly captured here and is really the high-light of the album. Not many people will buy a Stravinsky album for the "glory of God" and the Boston Symphony—"as opposed to the far more appealing Symphony of Psalms—but that is where the real interest of the album lies, and it is no small accomplishment to have succeeded in bringing the late, gnarled Stravinsky back to life.

E.S.


Performances: I like Inbal
Recordings: I like Philips

The recording industry works in mysterious ways: not long ago we had two first recordings, issued almost simultaneously, of Masenets all-but-forgotten opera La Navarraise; now we have the same situation with two stereo premieres of an even more obscure score by Tchaikovsky, the early symphonic poem Fatum. There is another rarity on the Philips disc, a very late orchestral piece based on an Adam Mickiewicz tale of jealousy and murder, The Voyevode. Both pieces are, for my taste at least, of more documentary than musical interest. If one heard Fatum without knowing the title, it could easily be mistaken for a discarded ballet score. The late opus number is explained by the fact that the score was published posthumously from the orchestral parts after Tchaikovsky had destroyed the original. The Voyevode I find even less interesting in musical substance, though more so in its orchestration, making use as it does of the celesta a year before the celebrated ex-

oploitation of that then novel instrument in the Nutcracker ballet.

The overture to Ostrovsky's The Storm, although a student work, has more points of interest, not the least being the use of thematic material that was later to find its way into the slow movement of the First Symphony. And The Tempest, if not the imperishable masterpiece that Romeo and Juliet became in its final revision, is a piece that has always found a warm spot in my heart. The opening and closing sea music is splendidly atmospheric, and the Ariel-Caliban episode abounds in fanciful touches.

The Dorati disc here (actually a companion disc to London CS 6841, which includes The Voyevode, Francesca da Rimini, and Hamlet) contains three sharply honed, but not particularly

lively impassioned readings, of which Fatum is the most convincing. The Romeo, unhappily, has none of the fiery temperament that marked Dorati's 1954 Mercury disc, while The Tempest suffers noticeably from a Constitution Hall acoustic that muffles the all-important brasses and emphasizes the low end of the orchestral spectrum to the detriment of presence in the violin section.

Happily, on the other hand, Eliahu Inbal and his orchestra have the benefit of well nigh flawless recorded sound—glowing, intense violins, stirringly "brassy" brass, rich but not obtrusive bass line and percussion, and expertly managed stereo pinpointing of the solo highlights. The readings all have a youthful ardor tempered by a fine feeling for line and

(Continued on page 128)
"shunning equally the extremes of Babbittry and of Cageyness..."

**New American Music in Cross Section**

This Bicentennial year has brought with it a not unexpected flurry of activity within the realm of new recordings of American music. There are those who will hypocritically group these endeavors with all the other crass, commercialistic manifestations of the "Bicentennial," but the fact is that all but a very few of such recordings, be they of Bilings or Babbitt, have an extremely limited sales potential. Clearly the record companies don't intend to net unheard-of profits from American serious music, even in 1976. Yet, all of us have pet recording projects we would be overjoyed to see accomplished this year, and I can't help but beg for one or two things myself at this juncture—recordings of Monteux (Sessions), The Visitation (Schuller), and an uncut Four Saints in Three Acts (Thomson). At the same time, however, it is important that we value what we've already been given from the record companies, and the efforts of Folkways Records in its four-volume New American Music series deserve special applause.

What Folkways, in association with the Creative Artists Public Service program (CAPS), has done is to offer something of a compendium of the diverse styles in which today's younger American composers are working, and they have tried to represent as wide a cross-section of musical techniques and languages as they can, from "conservative" (Swanson) to "experimental" (Graves). Their inclusion of works by a number of black and women composers is also to be lauded. All but a few of the composers represented are in their thirties, and most of them are in some way connected with the musical life of New York State, a fact that leads me to wonder if Folkways plans further releases in this series that will give young composers in other parts of the country an opportunity to be heard.

Perhaps the most immediately impressive aspect of the New American Music discs is their representation of the return of American composers to a style in which such elements as drama and sensitivity hold sway over the musical product, the end result being a type of romanticism in music over and against much of the impotent and stillborn offspring of the 1950's. This fact is effectively brought home by the realization that not one composition of the twenty-one presented could be reasonably placed within the realm of serial formalism, pseudo-formalism, or crypto-formalism. Many of today's American composers are honestly trying to re-establish some sort of more direct communication with the larger listening public; shunning equally the extremes of Babbittry and of Cageyness. That is something well worth celebrating in this Bicentennial year.

The reason for all this preliminary kudos to CAPS and Folkways is to lend general praise and encouragement to their (and similar) efforts. I am sorry to report, though, that the specific results on these records are often disappointing. Quite frankly, too much mediocrity music by composers of limited abilities has been included, and even the works of some of the better composers represented fall short of the best these people can, and have, accomplished. Volume 2 is a case in point, containing only the student piece—episodic and without any substance—by one of the few who is capable of much more, and I am at a loss to understand why these particular works were chosen for release. Only Stanley Silverman's ensemble piece by Talib Abdul Hakim. The music, for tape alone, is almost visceral in its impact, yet, at the same time, understated. Hakim achieves his goal not by the perhaps expected onslaught of sound but rather by a sense of control and restraint that renders the effect more sinister and evil than directly violent. Conflict is joined by pieces of Gordon Mumma, Noa Ain, Joel Chadabe, and Ann McMillan which, with the possible exception of McMillan's somewhat unoriginal tape transformation of naturally produced (Whale I) and musically produced (Carrefours) sounds, have something to recommend them. Ain's composition is a tribute to violent Yoko Matsua. Conceived entirely on tape, Used to Call Me Sadness consists of a juxtaposition of Matsua performing against an interview in which she speaks of her childhood, her marriage, and so forth. The effect was strangely moving despite the fact that I was able to understand only a few words of the interview.

For those interested in sampling just one of these four discs, let me recommend Volume 3, which begins with a stunning percussion ensemble piece by Talib Abdul Hakim. Place-ments presents a series of quasi-improvisatory solos over a foundation of repeating fragments that constantly interact with each other differently; this is static music in the best sense of the word, in some ways almost devotional in character. Place-ments is followed by...

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**Stereo Review**

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**Frederick Rzewski:**

worth keeping an eye on

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**Stereo Review**
William Bolcom's *Whisper Moon*, which will present little new to those who know Bolcom's music: it combines quotes from late Romantic German classical music and pop songs of the Twenties and Thirties with Bolcom's own essentially Brand X style of atonality. Volume 3 also contains an enjoyable if somewhat traditional and tonally oriented trio for flute, clarinet, and piano by Howard Swanson, but the real treasure, not only on this record but of the entire series, is the set of three songs by Frederic Rzewski. About ten years ago Rzewski (pronounced CHEFF-skee) was composing conceptually based pieces, but in the later 1960's he became involved in the activist political movement with the result that he is now firmly entrenched in the politics of the left. In earlier works of this new period (such as the spellbinding *Les Moutons de Panurge*), the relationship between the music and the philosophy was not always clear, but in later pieces, such as *Artica* and the songs here recorded, the marriage is much more obvious. The three songs were not intended to be performed as a set, and their grouping here is admittedly arbitrary. The first, Struggle, comes from Rzewski's 1974 'cantata of the same name. Langston Hughes' *God to a Hungry Child* furnishes the inspiration for the second song, a lullaby, while an essay by the Latin American revolutionary Otto Rene Castille supplies the words for the final song. All three are unified by a direct and unapologetic use of simple tonal procedures to stunning effect. The music is purposely not directed toward climaxes but rather remains basically unchanging in a hypnotic way, thus allowing the force of the texts to predominate. In other words, Rzewski is a leading practitioner of the new communication between composer and audience, and he is undoubtedly a gentleman worth keeping an eye on.

Without access to scores, one can only assume that these composer-supervised performances are authentic. With the exception of the selections on Volume 4, most, if not all, of the recordings seem to have originated in the same studio, and they possess a generally dry, not always flattering acoustic. But despite these and other doubts already mentioned, a hearty bravo is due Folkways and CAPS for their courage in bringing this music to the public eye and ear; let us hope they will be able to continue the series in the coming months with, I trust, just a bit more discrimination in their choice of music.

—Christopher Rouse


SEPTEMBER 1976
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STRAVINSKY: Shrovetide Fair

PERFORMANCE: Glorious
Recording: Superb

TCHAIKOVSKY: Symphony No. 5, in E Minor, Op. 64
Sir Georg Solti cond. Chicago Symphony Orchestra
Philips 6500 922 $7.98

Performances: Haitink cool, Solti hot
Recordings: Philips has the edge

Leonard Bernstein’s new recorded realization of the Tchaikovsky Fourth takes a place, for me, beside such extraordinary earlier documentations of the work as those by William Mengelberg and the Amsterdam Concertgebouw in the early 1930’s, Kurt Sanderling with the Leningrad Philharmonic as recorded in Vienna in the middle 1950’s, and Herbert von Karajan’s 1966 Deutsche Grammophon reading. Even Karajan doesn’t match Bernstein in the splendid menace achieved in the opening pages or the sense of insane panic that climaxes the first-movement development. And how beautifully Bernstein brings forth the bell strokes at the close of the slow movement! The famous pizzicato slow movement gets the razzle-dazzle treatment here, but through cracking rhythmic tension rather than fast pacing. As for the finale, it’s not only a gloriously exuberant performance, but a humdinger of a test for any sound buff’s playback system, quadraphonic or stereo.

The Columbia recording crew has wisely stayed away from any fancy stuff in its four-channel sonics, giving us here just a good big sound with enough ambient surround to produce the you-are-there feeling, together with the kind of presence that makes one almost feel the resin flying off the strings. A top job!

Performances of the Tchaikovsky Fifth, like the music itself, affect me variably. Because of the episodic nature of the finale, in particular, the Fifth is a hard piece to bring off, and the first movement, as well, presents problems of tempo relationships that the conductor must solve if the whole thing is not to fall apart.

I must say that Bernard Haitink’s reading of the first movement aroused my anticipation of a truly superb reading on all counts. I don’t think I’ve ever heard pacing and tempo relationships so justly and beautifully handled as in this new Philips disc, and all superbly played and recorded in the bargain. The middle movements, though, turned out less happily—stodgy in pace despite the elegant details of phrasing and counter-melodies. The finale comes off well under Haitink’s baton but without the kind of excitement it needs to become credible in spite of it all.

In the Solti/Chicago performance, though, the middle movements make up the high points. Solti’s pacing in both movements is absolutely ideal, making for truly balletic grace in the waltz and for just the right lyrical urgency in the famous slow movement. The Chicago Symphony’s first-chair oboe deserves special praise for the exquisite tone and phrasing he brings to his obbligato passages early in that movement. Solti’s handling...
of the end movements is swift and sure, with lots of rhythmic excitement. These movements seem a bit short on lyrical soul, but here I think London's recording can be faulted to some extent, in the first movement, especially. I found the brass presence overshadowing that of the all-important violins.

So where do we stand with the Tchaikovsky Fifth in a roster of recordings currently numbering close to twenty? Despite minor reservations regarding the pacing of the slow movement, I'll stick with the DG Karajan version for now. D.H.

THORNE: Six Set Pieces for Thirteen Players.
SCHINDLER: String Sextet in Six Sections.
Contemporary Chamber Players of the University of Chicago, Ralph Shapey cond. Owt. ORLP-20 $5.98.

Performance: Lively
Recording: Not lively

The University of Chicago Contemporary Chamber Players directed by Ralph Shapey are among the few surviving long-term organizations devoted to new music—thanks largely to conductor-composer Ralph Shapey, a dynamic and much underrated presence on the contemporary scene. Shapey’s own music and his musical taste gravitate toward the dynamic, and, as a result, he has escaped the creeping academicism that seems to have overtaken much collegiate music-making in America. The pieces recorded here are good cases in point. Francis Thorne’s “Set Pieces” are so named for two reasons: because they use a twelve-tone row or setting, but also because they have the character of a jazz set. This is modern music of a particularly limber sort, performer’s music with a strong and immediate impact.

Alan Schindler, a pupil of Shapey at the University of Chicago, is a talented composer with an expressionist style that owes something to his teacher but also has strong individuality. His highly intense sextet, filled with agonizing quarter tones, makes a strong impression in Shapey’s performance. The recordings are clear, but the Thorne in particular is on the dull side sonically. E.S.

VERDI: Il Corsaro (see Best of the Month, page 86)

VERDI: Operatic Excerpts (see Best of the Month, page 85)

COLLECTIONS

CARLO BERGONZI: Verdi Recital (see Best of the Month, page 85)

CARMINA BURANA: Volume 1—Songs of Drinking and Eating; Songs of Unhappy Love. Bucche, bene venite; Virent prata hiemata; Nomen a sollemnibus; Alte clamat Epicurus; Vite perdite (two versions); Vacillantis trutine; In taberna quando sumus; Ist e mundus furibundus; Axe Phelus aureus; Dulce solium natalis patriae; Procursus odium; Sic mea fata canendo solo; Ich was ein chint so wolgetan. Clemencic Consort, Rene Clemencic cond. HARMONIA MUNDI HMU 335 $7.98 (from HNH Distributors Ltd., P.O. Box 222, Evanston, Ill. 60204).

Performance: Exotic
Recording: Echoey

To most of us “Carmina Burana” means Carl Orff’s ever popular settings of medieval go-

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So when you're looking at loudspeakers, you might ask if they've gone through sand immersion, as well as the customary anechoic chamber.

Because our sand bath is one more thing it takes to guarantee really clean sound.

MITSUBISHI SPEAKER SYSTEMS

Mihály Székely: imposing bass

Hákán Hagegård: youthful baritone

Hákán Hagegård of the Stockholm Royal Opera, the engaging Papageno in Ingmar Bergman's film version of The Magic Flute, is scheduled to make his U.S. opera debut as Rossini's Figaro in the forthcoming San Francisco Opera season. His record debut offers a varied and imaginative program, all selections in the original languages.

Hagegård is young and sounds youthful—liar. This album purports to present these texts in their original musical settings. That is, of course, patently absurd, as the original notation consists of squiggles above the texts which are virtually indecipherable. Undaunted by such difficulties, however, Rene Clemencic offers a bold reconstruction. It is rather like giving a sculptor a tiny piece of the elbow of a lost statue from which he "reconstructs" a reclining nude on a cloud surrounded by myriads of cupids and a lusty lover. This disc, then, is an evocation of medieval music that probably never existed. Nonetheless, Mr. Clemencic must be credited with imagination in his use of exotic ancient instruments, seductive percussion, and throaty voices declaiming in a style that ranges from Sprechstimme. The results, if not historic, are intriguing.

S.L.

RECORDING OF SPECIAL MERIT


Performance: Good or better

Recording: Good

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S.L.
If you haven't tried Skiing...you're missing the time of your life.

The time of your life can start anytime with skiing. Maybe it begins when you take that first run and end it laughing. Or when you discover you and ski clothes were meant for each other.

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If you're a late bloomer, the time of your life could start when the ski day ends. And you share stories, hot drinks and a warm fire with friends.

Skiing. It's a lot more than snow. And it could be the time of your life, every time you go.
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CIRCLE NO. 8 ON READER SERVICE CARD


Performance: Good to very good. Recording: Good.

This Swedish import introduces us to Norwegian-born Edith Thallaug, a leading mezzo of the Stockholm Royal Opera since 1964. Aside from appearing in the principal mezzo roles there, she has also been heard in Moscow and at Glyndebourne. The liner notes (informative, multilingual, but cumbersomely organized) tell us that Miss Thallaug began as a song recitalist. Indeed, the song side of this debut recital is decidedly more successful than the operatic side. The four songs by Norway's Eyvind Alnæs (1872-1932), with their soaring Grieg-like Romantic utterance and sensuous colors, receive what seems to me an ideal interpretation. The Poulenc songs, which require a more subdued emotional approach, are also expertly done; in fact, they stand comparison with Regine Crespin's model versions of much the same repertoire (London OS 26043).

The operatic side also deserves praise for imagination and variety. But here Miss Thallaug's respectable achievements must be measured against such paragons as Arkhipova, Verrett, De Los Angeles, and Berganza, who have set extraordinary standards for these arias. Edith Thallaug sings them with a warm tone and good technique, but the renditions are in no sense extraordinary. The piano accommodations are outstanding, but the orchestra could stand more refinement.

G.J.
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Introducing the Staff...

When a personal opinion, particularly a publicly expressed one, grates on our nerves, one of the commoner responses is to ask, either under or at the top of our voices, just who that so-and-so thinks he or she is. The question is asked of Stereo Review with respect to our regular contributors and staff many times each month, and in this column we endeavor to supply the answers.

---Ed.

After World War II, Lincoln found himself at Juilliard studying piano first with Sascha Gorodnitzki and then with Muriel Kerr. This gained him a bachelor's degree, and he shifted to harpsichord after being knocked out by an accident. Landowska recital, studying with both Fernando Valenti and Ralph Kirkpatrick.

Becoming interested in Restoration theater music, he wrote an article for Musical Quarterly which led to a scholarship at Columbia University. "Life was rough then. Although I had a scholarship, I had to play concerts to earn a living. Musicologists considered me a gypsy because I performed, and performers thought I had betrayed the cause by studying musicology." After getting a master's and all the points for the doctorate, Lincoln felt the urge to go to England, so he applied for and landed a Fulbright scholarship to Oxford. "I went there with the intention of giving up performance entirely, but the first thing that happened was that I was asked to give a concert, I was soon playing more than I ever had before. But I still had time for my research and ended up, by some quirk, with a Ph.D. in English and musicology." While in England, Lincoln discovered the first full-length English opera (Semel, music by John Eccles, text by William Congreve) and gave it its world première. Returning to the States, he continued his concert activities and also accepted an appointment at Brooklyn College, where he continues on the music faculty as full professor.

While in England, Lincoln became interested in early pianos and acquired an 1827 Broadwood. He was also lucky enough, while doing research at California's Huntington Library, to find a reproduction of Mozart's piano. This led to concerts at Lincoln Center where he gave a series using the harpsichord, the "Mozart" piano, and the Broadwood, "an event from which I have really never recovered (nor has the audience, I'm sure)."

As for becoming a critic, "It all started when I was on sabbatical in London. I was working at the British Museum and house-sitting for Andrew Porter [now music critic with the New Yorker]. It seemed that I inherited some of his more modest critical duties with the London Financial Times, and it was this that ultimately landed me at Stereo Review's front door. SR's editor and it was this that ultimately landed me at Stereo Review's front door. SR's editor asked, either under or at the top of our voices, just who that so-and-so thinks he or she is. The question is asked of Stereo Review with respect to our regular contributors and staff many times each month, and in this column we endeavor to supply the answers.

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With the Dual Auto/Reverse Deck, a C-90 cassette will play back for ninety uninterrupted minutes. You don't have to remove and flip the cassette for the second forty-five minutes unless you want to. Any cassette can also be set to play indefinitely until you shut it off. What's more, the Auto/Reverse Deck records in both directions. Mechanics and electronics reverse at the touch of a button. The record/playback head never moves, so there is no problem of misalignment, the bane of previous reversing decks.

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"...another outstanding example of the great strides in cassette deck technology in recent years. Wow and flutter was indeed extremely low, measuring 0.065% (WRMS)...total harmonic distortion during playback (at 1 kHz) of 1.4%, well below the 2.0% claimed by the manufacturer...The fast-wind mechanism...is about the fastest and smoothest we have encountered...We also checked a couple of C-120 cassettes and found that the Dual deck was able to handle them smoothly...A distinct feeling of quality...seems well worth the price."

That's the caliber of performance you can expect with either Dual deck. All you have to decide is how much convenience and versatility you also want.

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- Auto/Reverse only: Automatic bias switching, switchable ALC, Dolby oscillator and cofilters. Less than $500.
- C919 only: Memory stop, FM Dolby, three-way bias and equalization. Less than $450.

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Marantz 5420 Top Loading Deck with Dolby (The enclosures for these units are constructed of plywood, finished in real walnut veneer).
the decks that live up to their name.

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3. One button each for Normal, CrO2 and FeCr tapes automatically selects both bias and EQ. Eliminates confusing combination adjustments of separate bias and EQ switches. Single control calibrates both bias and EQ automatically for best frequency response on any cassette tape.

4. **Full 4-input mixing console** with pan pot and master gain control. Four inputs—any combination of mic and line—are operated by four individual slide pots. All inputs plus one master gain control for fade-in/fade-out. Two pan pot controls permit inputs 3 and 4 to be assigned to either left, center or right stage. Can operate as a separate mixing panel for master-quality recordings with external tape recorders.

5. **Built-in adjustable stand** that changes the angle of the control panel from flat to 20 degrees. Angles top loading decks for most suitable viewing and operation.

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