

THE BROADCAST ENGINEERS' JOURNAL
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THE BROADCAST ENGINEERS' JOURNAL

NABET National Council

Meeting: Detroit

Oct. 4-8

NABET'S Position in TV: - NABET Intends to Maintain and
Defend its Legal TV Jurisdiction Established Thru 10
Years Practice

See Page 5

VOL. 15, No. 9

SEPTEMBER, 1948

OFFICIAL PUBLICATION OF N. A. B. E. T.

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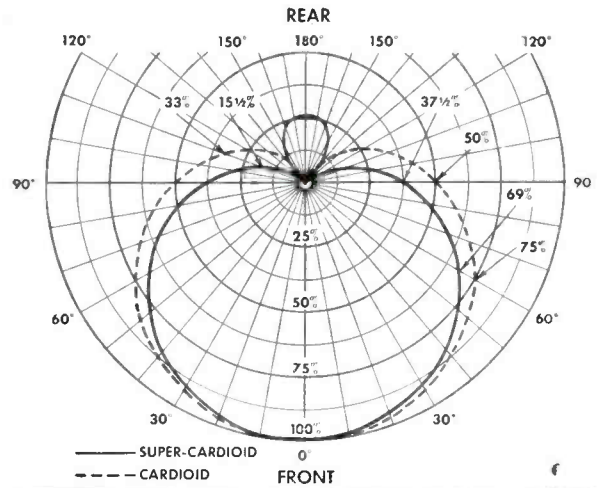
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A Message to the Members of NABET

from

JOHN R. McDONNELL
President, NABET

As the tempo of the broadcast-television industry is stepped up with the seasonal rise of activity in AM broadcasting and the ever increasing number of television stations coming on the air, NABET officers are meeting the challenge by intensifying their efforts in behalf of the radio engineer. The problems being encountered are numerous—and difficult of resolution. If we are to meet them successfully, it will require the understanding support of all NABET members as well as that of other radio engineers who are interested in improving their status in the industry.

Next month in Detroit, the NABET National Council will meet to discuss NABET problems and aims. Discuss these matters with your Chapter Chairman so that he can go to the meeting prepared to represent you and your wishes. This union's sole purpose is to represent and protect the interests of its members—see to it that your officers are aware of your problems—and give them intelligent support in bringing about their solution. NABET is an *independent* union, and invites the participation of its members in all of its affairs.

Sincerely,

(Signed) J. R. McDONNELL, *President.*

Retirement Income—Considerable interest has been indicated in Mr. Burrell's article last month, and as a result, a follow-up article is in preparation.

DO WE HAVE YOUR ZONE NUMBER?

DEADLINE is 2nd OF EVERY MONTH. EXAMPLE: COPY RECEIVED MARCH 2nd APPEARS IN THE APRIL ISSUE, IN THE MAIL APRIL 1st.

Heading Cuts for Chapter news columns. Chapters without regular heading cuts and desiring same, should send in photo, cartoon, or drawing of subject matter that they wish used to identify and distinguish their column.

Ham Issue Scuttled: Instead, descriptions and photos of NABET Ham Stations will be published as received, following several suggestions indicating this preference. *Ham Calls*, however, will be published on an annual or semi-annual basis, as revised lists are received from individual Chapters.

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NABET Report on Intercept Studios, Wire & Tape Recordings and TV Lighting, Recordings, and Students

At NABET'S request, a meeting was held with ABC and NBC on August 11-12th, at the network headquarters in New York.

NABET was represented by President McDonnell, Vice President Hjorth, Chairmen Cabasin and Westover, Executive Secy. Hiller, and Attorney Dunn.

NBC was represented by Vice President and Chief Engineer Mr. O. B. Hanson, Television Engineering Manager Mr. F. A. Wankel, and others, and

ABC was represented by Richard Rawls, TV Art Director, Attorney Joe McDonald, Engineering Manager Mr. G. O. Milne, and others.

A number of disputes had accumulated, and it appeared best for all parties to have them resolved without further delay.

Intercept or "Flash Studios." A Dispute exists as to whether the technical facilities of these studios should be operated by technical personnel. When originally introduced some years ago, these intercept studios were used to make possible instantaneous announcements of national disasters such as deaths of national personages, earthquakes, and aviation accidents, for example. As originally used, NABET conceded that since these operations were all precipitated by an emergency or crisis which occurred without prior notice, it might not be feasible therefor that a NABET engineer be assigned to operate the "flash studio" equipment, and on that basis there is no dispute. However, the recent usage of these intercept facilities no longer bears any resemblance to the original usage for which NABET permitted operation without technical operation of the equipment. These intercept facilities are now used for regularly scheduled programs, planned and scheduled a week or more in advance, and are used and assigned like any other studio for regularly scheduled announcements, commercial announcements and credit, and other planned, *not emergency programming*. This disputed operation could not be resolved, and NABET, ABC, and NBC independently agreed to submit the matter to the American Arbitration Association in accordance with the existing NABET contracts.

The wire and tape recording dispute between NABET and ABC centered around what ABC considers a "package show" under the complete control and management of a sub-contractor which ABC regards as not ABC-produced, whereas NABET'S position is simply that its contract with ABC specifically recognizes NABET jurisdiction over all technical facilities involved and utilized in ABC programming, whether or not these technical facilities are owned or not owned by ABC, and as specifically set forth in the contract, "technical facilities available to" the ABC, for their programming. NABET feels that its position is extremely clear and explicitly defined in the contract covering this example. ABC completely disagrees in the matter of sub-contractor, package programs, but stated its recognition of NABET jurisdiction over wire and tape recordings in regular ABC-produced programming. It was not possible to resolve the difference, and both NABET and ABC agreed to submit the dispute to the American Arbitration Association.

The television lighting dispute between NABET and ABC was precipitated when it was learned that ABC intended to sign a contract with IATSE, *giving* the IATSE jurisdiction

over TV lighting, in direct violation and contradiction of ABC'S existing contract with NABET, wherein ABC specifically recognizes NABET'S jurisdiction over TV lighting. NABET'S position is that the ABC-IATSE TV proposed lighting contract was in direct violation of the NABET-ABC prior contract covering the same work, that ABC precipitated this dispute of its own free will, and that NABET had no intention of resolving the ABC-contrived legal dilemma and resulting dispute by relinquishing NABET'S lighting jurisdiction in order to make ABC'S subsequent proposed contract with the IATSE valid and effective. Further, NABET will *insist* that ABC honor its NABET contract. As of this writing, ABC is conforming to its NABET contract. In addition, NABET notified ABC and NBC of NABET'S intention to maintain this lighting jurisdiction as TV expands to the other ABC and NBC owned stations across the country which are under NABET contract.

The NABET-ABC-NBC contracts provide for a TV student training plan, and provided for a ratio of 5 trainees permitted for each engineer transferred from AM operations to TV operations. The contract provides that this student plan is subject to renegotiation, and the ratio was renegotiated to 3 students for each AM transferee, and further, that an AM engineer transferred for this purpose had to have a minimum of 15 months service in AM engineering, and the student term has been reduced from a maximum of 24 months to 6 months.

NABET reiterated its jurisdiction over TV recording, as being already within the meaning and intent of its contract with ABC and NBC. NBC does not question NABET'S jurisdiction in this field.

The items referred to Arbitration will be reported as soon as the results are known.

CONSUMERS PRICE INDEX MODERATE INCOME FAMILIES — LARGE CITIES (1935 — 39 : 100.0)

Item	Apr. 15-48	Apr. 15-47	June 15-46	Aug. 15-39
All items	169.3	156.2	133.3	98.6
All foods	207.9	188.0	145.6	93.5
Apparel	196.4	184.9	157.2	100.3
Rent	116.3	109.0	108.5	104.3
Utilities	130.7	118.4	110.5	97.5
Housefurnishings	194.7	182.5	156.1	100.6

NABET

Offers One Independent Union
for Broadcast Engineers and
Technicians.

CONTACT ANY OFFICER. SEE PAGE 2.

NABET Intends to Maintain and Defend its Legal TV Jurisdiction and Practice of 10 Years

Legal Eagles Again Attempt to Tinker with NABET Jurisdiction and are Annoyed that NABET Does Not Have a V. P. in Charge of "Selling Out the Members"—a Rather Common Practice Among Non-Independent Unions.

Several years ago, it was necessary to expose willful actions between Petrillo in behalf of the musicians, and the ABC and NBC network attorneys, under the heading: *Network Legal Eagles Sell Brooklyn Bridge to Petrillo Beagles*. In that somewhat odorous attempted deal, the networks deliberately attempted to claim that they were the hurt party—yea, the "innocent victim" of a jurisdictional dispute of turntable operation, which instead, was actually *planned* and consummated thru the alleged contracting with Petrillo for specific work which the networks had previously legally assigned to NABET. The "free press and free radio" gave an overwhelming emphasis to the "innocent victim" story, and no one bothered to suggest that the attorneys and the networks were guilty of not telling the whole story. NABET was morally and legally right and won in Court. However, the networks and the NAB won a tremendous public-opinion victory—in that it was hammered away that two warring labor unions were causing a peace-loving employer grave mental strain and possible financial loss—and once more the headline-hunting public had great trouble learning the whole truth, and once more were left with the impression that "something must be done to *control* labor."

Well, here we go again. This time the Network Legal Eagles have sold their Brooklyn Bridge to the IATSE, in the form of an alleged contract for the performance of TV lighting—when at the same time the Networks and their attorneys knew that they had a prior contract with NABET specifically covering TV lighting. This time the alligator tears were just as profuse, and the odor just as bad. The claim is identical, and the trade press, possibly paying ever-attentive service to the Network-trade paper advertising budgets, told the Network Story—the NAM - NAB story—complete with a second chorus. The specific incident staged for public consumption was the August 10th inaugural program of WJZ-TV, portions of which program were scheduled to originate at the New York Palace Theatre, whose prop-men, carpenters, and grips are IATSE. It was common knowledge that the IATSE had stated that the Palace program would not go on unless the Networks succeeded in "suggesting" to NABET that NABET contact the IATSE and make some offer of jurisdictional compromise, such as the "compromise" which IATSE *extracted* from the wily leaders of the IBEW, completely without the knowledge and consent of the IBEW members concerned. NABET instead reminded ABC of the ABC-NABET contract covering complete TV-AM-FM technical facilities and operational jurisdiction, and that NABET expected ABC to honor its contract with NABET. When it became obvious to ABC that NABET was not only morally right but also legally right, and that NABET wasn't going to consent or submit to its members' financial loss thru loss of work that would result from loss of existing jurisdiction, only then did ABC apply for and obtain a restraining order against the IATSE and their New York local, which is answerable August 31st, and which will be reported in our next issue.

Needless to say, the WJZ-TV inaugural program from the

Palace Theatre went off without a hitch, and was very capably handled by NABET technicians with typical NABET technical competence.

It is a matter of record that AM-FM-TV engineers in other unions are *once again* watching NABET fight single-handed for the preservation of the technicians' position in the television field, as was so admirably done by NABET for *all* the engineers in the attempted Petrillo turntable case, when the musicians attempted to move in and take over. This time it is the IATSE theatrical *stage hands, carpenters, and prop* men who have decided to move in and take over from the television engineers as they did at CBS where the IBEW leadership has not been too concerned with the welfare of the 2 per cent of its membership in the broadcast field. NABET'S moral and legal position in this present attempted encroachment on its TV jurisdiction of ten years standing and practice, is very clear.

NABET was the only broadcast engineers' union that resisted Petrillo. Because NABET *was* independent.

NABET is the only broadcast engineers union that is resisting the IATSE. The future of the IBEW television engineer will depend upon the ability of NABET to stave off the IATSE—a very sad commentary on the *security* that is supposed to accrue from A. F. of L. affiliation! NABET can do this because NABET *is* Independent.

That is why NABET'S *membership* want to remain independent.

NABET deserves the support of every AM, FM and TV engineer and technician whose future livelihood depends on maintenance of his technical position against inroads from all quarters.

NABET continues to *prove* that the best interests of the broadcast and television technicians can best be served thru

One Independent Union

Join NABET

The NAB and its anti-labor attitude turns out to be the strongest answer to the broadcast engineer who would ask, "Why should I belong to a broadcast technicians' union?"

The solution to the broadcast engineers' problem of honest, competent, and highly specialized union representation requires a single national, independent union, if their place in radio is to be bettered.

NABET is the *only* national, independent union, created expressly to serve the broadcast engineers and technicians.

Switch to NABET



Review of Current Technical Literature

By Lawrence W. Lockwood

Bell Laboratories Record—May, 1948

REPEATERS FOR THE NEW YORK-BOSTON RELAY SYSTEM—A. Roetken

A description including block diagrams and pictures of the equipment used by the Telephone Co. in its 4000 mc relays between Boston and New York.

VIDEO PAIR CABLE—A. Windeler

A new type of video cable with polyethylene tape ingeniously used to cut cost and attenuation in the cable.

Communications—June, 1948

WIDE-RANGE DUAL-BAND TV ANTENNA DESIGN—L. Libby

Versatile sturdy antenna designed to cover the 54 to 88, and 174 to 216 mc TV bands, provides a substantially uniform directivity pattern and constant input impedance. Can be operated in conjunction with either balanced or coaxial transmission lines.

EQUIPMENT FAILURE CONTROL SYSTEM FOR BROADCAST STATIONS—F. Butterfield

Inspection, maintenance and trouble data recording procedure, which reveals types of failures to be expected, the relative rates of occurrence, and effectiveness of repair work.

TV TRANSMITTER DESIGN—G. Hamilton

Modulated amplifier considerations—adjustment of video signal amplitude—equipment used for adjustment of class B linear amplifiers.

CQ—July, 1948

PARASITIC BEAM PATTERNS—D. Cleckner

A simplified and graphical discussion of parasitic types of antenna.

THE TV RECEIVER: ITS OPERATION AND COM-

MON FORMS OF INTERFERENCE—W. Brown
some pictorial examples of various types of interference.

Proceedings of the IRE—June, 1948

ON THE REPRESENTATION AND MEASUREMENT OF WAVEGUIDE DISCONTINUITIES—N. Marcuvitz

The principal aims of this paper are twofold: (1) to discuss and interrelate the various equivalent circuit presentations of a general $2N$ terminal waveguide structure that are obtained on different choices of terminal planes; and (2) to describe a precision method for measuring the circuit parameters of such structures.

THE RADIATION RESISTANCE OF END-FIRE AND CO-LINEAR ARRAYS—C. Papas, R. King

Expressions for the radiation resistances of end-fire and co-linear arrays of half-wave dipoles are obtained in terms of circular functions in a form convenient for computation.

AN ENGINEER IN THE ELECTRONICS INDUSTRY PROSPECTS; PREPARATION; PAY—R. Richmond

An interesting and somewhat unorthodox approach to the problem.

MODERN DESIGN FEATURES OF CBS STUDIO AUDIO FACILITIES—R. Monroe, C. Palmquist

This paper discusses the considerations involved in the design of the modern type broadcasting studio audio control console. A number of new and novel features not employed heretofore are described.

Tele-Tech—June, 1948

TV POOL AT NATIONAL CONVENTIONS—S. Gerstin

Engineering details of network TV pool operations at Philadelphia political meetings.

WHAT THEY SAY ABOUT ENGINEER PAY

Engineers who brave electronic unknowns fear to tread in field of human relations; hesitate to speak publicly on "engineer pay."

NEW CIRCUIT DESIGN FOR WOW TESTER—M. Nicholson

Pitch perceptor measures variations in amplitude at any rate from a half to 40 cps: provides inked graphs and oscillograms of the characteristics under study.

SOUND MEASUREMENTS IN BC STUDIOS—W. Jack

Study of sound characteristics in laboratory and studio emphasizes need for new technics, materials and construction methods.

FLYING SPOT DESIGNED FOR TELEVISION STUDIO SCANNING

New RCA cathode-ray tube makes possible an improved method for converting title plates, test patterns and films to television signals.

Electronics—July, 1948

DESIGN FACTORS FOR INTERCARRIER TELEVISION SOUND—S. Seeley

Large scale production of television receivers employing intercarrier sound has focused attention on the advantages and disadvantages of the system. This review emphasizes the problems facing transmitter and receiver designers.

WCBS—TV NEW GRAND CENTRAL STUDIOS—A. Chamberlain

Design criteria for video and audio facilities capable of meeting the requirements of complex television program production are discussed in relation to future expansion. Included will be special provisions for studio lighting, air conditioning, communications, and sound effects.

NOISE GENERATOR FOR RECEIVER MEASUREMENTS—P. Sulzer

Design criteria for video and audio facilities capable of measurement of noise figures and receiver input resistance.

(To Page 7)

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TV DISTRIBUTION

Following is the complete RMA tabulation on TV set shipments during the first semester of 1948 and the full year 1947.

Television Broadcast Service Area	First Quarter 1948	1947 (Full Year)	Total
CALIFORNIA			
Los Angeles	8,309	7,858	16,167
San Francisco	8	27	35
Other Cities	5	13	18
CONNECTICUT			
Hartford	1,271	2,946	4,217
New Haven	100	—	444
Other Cities	87	357	100
DELAWARE			
Wilmington	239	174	413
DISTRICT OF COLUMBIA			
Washington	3,538	4,782	8,320
FLORIDA			
Miami	—	41	41
GEORGIA			
Miscellaneous	6	—	6
ILLINOIS			
Chicago	7,003	13,723	20,726
Other Cities	5	4	9
INDIANA			
South Bend	194	257	451
Other Cities	1	69	70
KANSAS			
Cities Not Stated	1	—	1
KENTUCKY			
Miscellaneous	11	—	11
MARYLAND			
Baltimore	3,267	3,666	6,933
Other Cities	1	57	58
MASSACHUSETTS			
Boston	2,940	1,367	4,307
Other Cities	22	36	58
MICHIGAN			
Detroit	2,613	4,852	7,465
Other Cities	1	35	36
MINNESOTA			
Minneapolis-St. Paul	1,373	400	—
	(Minneapolis only)		1,773
MISSOURI			
Kansas City	40	—	40
St. Louis	2,075	4,090	6,165
NEBRASKA			
Cities Not Stated	1	—	1
NEW JERSEY			
Newark	10,277	22,158	32,435
Trenton	262	1,159	1,421
Cities Not Stated	1,533	3,683	5,216
NEW MEXICO			
Albuquerque	34	21	55
NEW YORK			
Albany	1,776	2,918	4,694
Buffalo	1,458	643	2,101
Long Island	525	624	1,149
New York City	34,806	56,645	91,451
Poughkeepsie	79	136	215
Schenectady	47	38	85
Westchester	—	235	235
Other Cities	10	6	16

NORTH CAROLINA

Miscellaneous	2	—	2
OHIO			
Akron	84	246	330
Cincinnati	1,119	2,160	3,279
Cleveland	1,961	2,582	4,543
Toledo	17	3	20
Other Cities	6	—	6
PENNSYLVANIA			
Allentown	150	123	273
Philadelphia	10,508	18,923	29,431
Reading	147	225	372
Other Cities	10	118	128
RHODE ISLAND			
Providence	—	3	3
Miscellaneous	7	—	7
TENNESSEE			
Chattanooga	—	15	15
TEXAS			
Dallas	—	3	3
Miscellaneous	3	—	3
UTAH			
Salt Lake City	25	—	25
VIRGINIA			
Richmond	658	394	1,052
Other Cities	—	5	5
WISCONSIN			
Milwaukee	1,767	2,315	4,082
No Area Reported	5,754	2,046	7,800
Total Shipments	106,136	162,181	268,317

TECH. PRESS—from Page 6

The receiver band width need not be known and measurement is independent of the response curve of the receiver.

PHOTOMETRY IN TELEVISION ENGINEERING—D. Epstein

This introduction to fundamental photometric concepts and measurements provides an understanding of principles and methods whereby performance of television receivers may be evaluated. Quantities needing measurement and their interrelations are explained.

Audio Engineering—May, 1948

LOUDNESS CONTROL FOR REPRODUCING SYSTEMS—D. Bomberger

By using the device described it is possible to maintain a close tonal balance over a wide variation in output level.

AN ARTIFICIAL REVERBERATION SYSTEM—G. Curran

Describing a simple, practical system for producing controlled reverberations.

FACTORS AFFECTING FREQUENCY RESPONSE AND DISTORTION IN MAGNETIC RECORDING—J. Boyers

Methods of improving fidelity in magnetic recording are discussed.

A PRACTICAL GAIN SET—C. McProud

Design and construction of a simple gain measuring instrument suitable for the small laboratory or the experimenter.

HORN-TYPE LOUDSPEAKERS—S. White

Design and applications of these speakers.

VENTED LOUDSPEAKER ENCLOSURES—F. Planer and I. Boswell

Design and performance data on aperture-type enclosures.

LABOR DAY MESSAGE

"The churches have been right in giving encouragement to the development of the labor movement, both as an instrument for the securing of greater economic justice and as a source of both dignity and morale for workers, affirms the 24th annual Labor Sunday Message of the Federal Council of the Churches of Christ in America.

The message, issued by the Council's Department of the Church and Economic Life, declares that "the worker must never be treated as a commodity but always as a person, whose well-being depends in large part upon the rewards and conditions of his labor."

Recognizing the growth of large-scale enterprise and technological developments, and the consequent integration of control and large-scale financing, the statement declares that these changes "have made it increasingly clear to men that they are helpless in coping individually with major economic forces around them. Joint action for mutual aid and protection has become an imperative necessity to those who depend on their labor for a living."

The message suggests principles and objectives for guidance for Christians in economic life, including:

1. A minimum standard of living sufficient for health, cultural growth, and protection against hardships beyond one's control.
2. Equal opportunities available to all children and youth to develop their capacities.
3. The moral right and duty of every able-bodied man and woman to serve the community through work under conditions that assure fair compensation or in other ways.
4. The moral right of all persons regardless of race, creed, color or sex to take a vigorous part in political and economic group activities which hold the greatest promise for the realization of Christian objectives.
5. Concentration on the encouragement of all processes of reconciliation where labor and management are separated on specific issues.
6. A national policy judged by its consequences for the lives of people in all lands and by its effect upon the economic basis for a peaceful world.

Stating that although under the laws of men resources of the earth become property, the message declares that "every form of human ownership or control of use of property is a trust with responsibility to God and one's fellow men." It adds, "Christians who share in the control of economic power, whether in management or as representatives of organized labor, have a special responsibility to direct economic forces toward service to the whole society."

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October 4—8

PERSONAL SCHEMATIC—For this particular paragraph, devoted in its entirety to the drawing and quartering of the individual members of our staff, ROY (down with everything) BRIDGEMAN provides a world of material, not all of it printable. This statement is not one of mootness. With the makings of an awe inspiring head of skin, ROY is an unusual character on a staff known far and wide for its unusual qualities. One rumor has it that Chrysler Motors received their idea for the super-finish from just one momentary glance at the area where ROY's hair used to live. Rather than create an erroneous impression, let us here state that ROY does have some hair, however, twenty-twenty vision is a prime requisite would you view his glossy locks on the glassy skull. ROY is a hale fellow and well met, in spite of his readily apparent disinclination to agree with anybody on any thing. We have found several methods of convincing ROY that a certain thing should be done a particular way, and some of these systems are open to question. The most efficient of these routines is the astute application of a soft pine two by four to the spot on his cranium reflecting the most light—it never fails. BRIDGEMAN is not a close follower of John Barleycorn—he simply detests barley. He is a man of great strength of character, although manifestations of said character are sometimes strange indeed. He was seen leaving a local theater recently, after having seen two showings of LOST WEEKEND. He swore a heartfelt oath, NEVER, NEVER AGAIN—and he kept his word, he hasn't seen a show since. ROY spent quite a chunk of time, during the last fracas, in several spots across the pond. There, by teaching these people of other lands a few of our choicest American customs, he helped immeasurably to cement even more solidly international goodwill. From unimpeachable sources comes word that even to this day, one small town in Europe still holds their yearly celebration of BRIDGEMAN DAY, during which time they gaily chant the simple little song ROY taught them, "How Dry I am!"

THE RAINBOW—The flowers that bloom in the spring are appealing to the eye; the rainbow that gracefully arches its softly colorful path through a rain cleansed sky has been the subject of countless poems through the ages—but nothing, NOTHING the poets or the flowers ever thought of could equal the vision that one late evening appeared in MCR. This apparition embodied every color under the sun, and a few that had no business under or over the sun. It was none other than that loudspeaker cleaning flash and raconteur without peer ROY (I gained a pound) MILLER, who, it is rumored can vanish down the dark halls faster than a human being. The adjective colorful is completely inadequate when describing this dissonant symphony of inharmonious color schemes, and there were more than one. MILLER literally screamed of mauve, cerise, pink, green, yellow and purple just to mention a few. Orange black and blue were also represented amply. Another strange feature was the centering, and perfectly so, of this coloration about MR. MILLER's right eye. Since time immemorial eyes have suddenly and inexplicably turned to hues other than normal, and since time forgotten the excuses for this transformation have always outnumbered the actual reasons. It seems ROY had been suffering from a cist alongside his right eye, and further, it seems a doctor had

lanced said swelling to relieve ROY. Yet, on a close and personal inspection by yours truly, it appeared that the lancing had been done with a large signet ring. Such surgical practice is highly frowned upon by leading medical societies as not being conducive to sanitary precautions usually associated with such surgical work. MILLER answered all queries thrown his way except one—"How did it happen, huh?"

D(raft) DAY—The impending draft date has more than one of our TV *helpers* in a state of acute jitters. TOMMY (yak yak) HAM has taken to scooting down alleys on his way to the studio, as the sight of a uniform, any uniform sends him into the screaming meemies at the drop of a draft card. TOMMY just missed the last draft which puts him in line for selection (fancy word meaning you're in, chum) this time and he takes an extremely dim view of the whole proceeding. Don't take it so hard, TOMMY—that fifty per month will go farther than you think—but not much farther. JIM ALLEN of TV is also more than slightly apprehensive but with reason. JIM spent quite a bit of time in that hell hole of creation, Korea—but he is still in line for the draft. This setup can be properly termed malodorous (sissy lexicography for STINKS). Anyone that even had to ride a boat that far should be draft-exempt for the next fifteen world wars. This little messup is the result of the rip roaringest mess that ever hit this country—the eightieth congress. These representatives of the people (excuse it Mr. Webster) resorted to everything but voodoo to stalemate the good bills and to accelerate their abortive conceptions of the people's will—and no sure surcease has yet appeared to brighten what seems to be a most depressing picture. The eightieth congress shouldn't happen to Local 1212—yet!

SUMMERTIME—'Tis the time of year when we legally do what we try to illegally do all the rest of the time—vacation, rest, relaxation—baloney! At this writing ROY BRIDGEMAN, DAVEY (dues are due tra la) STEWART and ED (bird man) BOYES are all busily engaged in doing as little as possible. BRIDGEMAN will spend his days with feet propped high on a simulated MCR desk; STEWART will view the happenings of the world through a pair of binoculars built to resemble a pair of eight ounce brew glasses; and E. BOYES will be dashing around intruding on the love life of the swallow and trying to find a GRTZFXL bird famous for spotting you before you spot it. This year as every other year will see the boys coming back so peeped (past tense of pooped) that they will be happy to get back to work and its soothing balm of rest.

REVELATION—It was a pleasant surprise to find the Republicans had enough collective common sense to knock Taft out of the running before anything more serious could happen. If he had been elected—GAWD!!—Take my coat, Mother dear, it's your turn to sleep in the park.

TV TRIBUTE—They probably don't realize it but our TV remote crew recently were the recipients of quite an honor. True, the compliment was a little on the left-hand thread side but nevertheless, it still amounted to a good deal. NBC, the great white father, seems to keep an eagle eye on the TV goings on throughout the network and they seemed to like the work of the WWJ TV remote crew. In fact, they liked it so well they requested the services of JIM EBERLE, TV remote producer, at the Democratic convention in the filial city of Philly. Paraphrasing the old saw about the chain and its weakest link, we come up with this: "a producer is just as good as his crew, and not a whit better" and we are sure that JIM will be among the first to agree. Congrats to TV in general and to the remote gang in particular, on a bunch of



ROSS 6-19-48

tough jobs all well done!

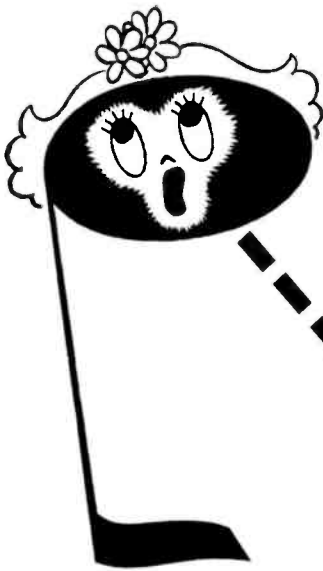
SWITCHEROOOOO—The time has come the oyster said, to change our shifts again—and when the oyster had finished speaking two GREAT differences were noted. The first involves TRUMAN (almost human) OLIVER, paunchy pusher of buttons and brooms. This gentleman has had a terrific aversion to seeing the sun come up; said aversion stems from an attack of temporary blindness occasioned by the brilliancy of ROY BRIDGEMAN's head appearing over the top of a bay. Now, however, conditions over which TRUMAN wishes he had some control have forced him to the opening up shift. This situation is comparable to Truman (Harry S.) voting Republican. The second radical about face is the joining of the signoff crew by one (saints be praised) JAMES JEWELL, eager boy JIM does an OLIVER in reverse for he comes from the opening up shift to join Messrs. SANDERSON (of the slipping chest Sanderson's), MILLER (of the no chest MILLER's) and LEWIS (of the incomparably golden locks and laughing voice, Lewis's). It couldn't have happened to a more deserving guy!!

ALL THE KING'S HORSES—The vices with which the poor unsuspecting and virginal TV engineers come into contact in their line of duty are now considered an integral part of the art. Read of the roaring luck which befell OLE LAPHAM, TV remote super, as he "seene his dooty and done it." The locale is the Detroit Race Track (they were there for a show) and the lead role is taken by the redoubtable and infamous LAPHAM, ex AMSE. This boy is a cautious lad with a buck, a characteristic hangover from his Boy Scout days and scout law number nine. We don't mean that he is miserly—goodness gracious no—he is, however, very very frugal it is rumored. On their lunch hour (what else) the TV remote crew would toddle to the two dollar window and with misgivings aforethought toss their old mouldy two dollar bills 'on the nose.' Occasionally they would win—real

money—legal lettuce and this part of the scheme was of much interest to our lad OLE—although he didn't bet—yet! One fine day OLE threw scruple behind him—and planked two of the old large dollar bills on the well worn counter. OLE strolled nonchalantly back to the track edge with his ticket zippered into the special pick proof pocket under his tie, there to watch his investment multiply. It would be fine to say OLE's nag led from start to finish—but it wouldn't be the truth. To say the nag at least placed would be not too bad. The truth of the matter is this: OLE's bag of bones FELL OVER DEAD on the back stretch—flat on its face. A double thump was heard—the second flop being OLE'S interest in the sport of the kings.

THEY WHO DREAM ARE BLESSED—and thank you, Mr. Keats—your stuff is still very good. In spite of the many stern admonitions advanced by ROGER ELLIS, who is famous for not being famous for anything, the 'I' must creep into this typographer's gas attack. Long an advocate of eating, I indulged this past evening in a monumental heap of cheese blintzes mit sour cream—yet, and the results were just what anyone would expect. I had trouble getting to sleep—I counted sheep until the sheep dozed off and left me—and when I finally made the grade, I dreamed of things that shouldn't happen to Taft and Hartley. It went this way. As any fool knows, I know it, there is usually little deep affection or respect felt between the powers that be and a labor union, over the years this being the logical result of each striving to outdo the other, labor to get all it can and management to keep as much as it can. There will be those who decry the veracity of this statement but the history made by management and labor will refuse any attempt to minimize the importance of their collective hobbles—and hobbles they have made through sheer bullheadedness and lack of faith. Let's get back to the dream and let the preaching remain for the preachers. Onto the scene creeps a modern Svengali and over the two subtly warring factions he casts a spell—straight out of Grimms Fairy Tales. The spell made each side seek to show the other how simple their tasks really were—and how easily and efficiently they could be done. Realize if you can the possibilities and the implications such a plot offers to an experienced writer. Let's have a rising vote of thanks from both sides that I am not an experienced writer for literary crucifixion would be their collective lot—and rightfully so. The engineers who had long held in extremely high disregard the soft jobs so inefficiently filled by the bosses, would take over administration. The wheels, to whom program knowledge, technical skill and an intimate knowledge of announcer idiosyncracies meant little, would take over the technical aspects of the station and really run it—right into the ground. A bell rang (this is still a dream) and the fray was on. Under the impetus of the spell, the two sides of WWJ (which for the sake of the dream is built like a Taj Mahal of lucite) changed places. Here is where the stuff hits the fan. An engineer, complacently pompous and proud, ensconced himself in THE chair—general manager, no less—and turned to proudly survey his domain. That was his first error. His tie caught in the secretary's fan, and but for prompt action on the part of passers-by and the fire department, he would have pulled as perfect a garrating job as any commando could have done. The pulmotor squad brought him around about thirty minutes later—very melancholy and somewhat wiser. In MCR proper, the real general manager plumped himself down inadvertently squatting on a hot soldering iron. He rose to the occasion, as general managers usually do, and ended with his head through the ceiling into the little girls' room

on the fourth floor. Three husky slaps later, gravity took over as it often does, and he returned to the third floor MCR level—henceforth his collar will be several sizes smaller. In the meantime in other parts of the building, scenes of chaotic confusion were rampant. An engineer who had taken over sales was beginning to wonder what the hell was going on. He was being sued for everything under the sun, and he hadn't even spoken to a client. There were telegrams from FCC, NBC, NAB, etc., to be answered—yet there were no answers. Bills piled up—and there was no money. Things were SNAFU—but good. He found an additional hazard, in fact ten additional hazards and each on the end of his secretary's fingers. She kept those talons sharp as razors—he began wondering what the foreign legion paid these days. Back in the control room again, one of the ex-management boys grabbed an innocent looking wire and began an extremely agitated highland fling; a friend tried to help him, and still another. The end result looked like an all male daisey chain with acute St. Vitus Dance. A blowing fuse brought happy surcease to these involuntary originators of a terpsichorean masterpiece. In the offices of the station, a crew of ex-technical men looked at each other and were disheartened. One, whose face was a none too delicate purple and whose tie was pulled into a knot which screamed defiance, looked at another whose shirt front and cheeks seemed to have received the deepest attentions of an irate panther. A third streaked around the corner with a corps of process servers almost stepping on his dragging tongue. At this point a mind reader would have found him wishing I would abstain from cheese before bed. In MCR another group of sadly deflated gentlemen were taking stock of what was unquestionably the most miserable situation they had ever encountered. As with one accord, the two groups of highly edified characters started the trek back to more familiar grounds—they met in the hall. They looked at each other—they didn't believe what they saw, and then someone giggled. That broke it, brother. The floor was littered with adults who suddenly discovered they hadn't been acting quite their age; their roars of laughter came right from the heels and were heard far and wide. A telephone man reported trouble 'West of Denver.' The ex-engineer with the twisted tie, his face a little more normal and the real general manager, whose posterior sported the bold charred outline of an American Beauty iron guffawed the loudest. The chortles were spontaneous and refreshing, a cleansing shower of hilarity after a dusty spell of misunderstanding. They walked on, management back to its desks and files and to a mess that would have bankrupt the station; the engineers back to a litter of bent VI's and ruined styli—each with a flag-waving respect for the other over their heretofore doubted conviction that one man's meat is another man's poison and each correct to the nth degree. There should be a logically happy ending to this dream—but there ain't. At a most inappropriate moment, Miss Twenty-Two months old let out a blast forty-seven db over an atom bomb, and succeeded in waking up the wife, myself and the neighbors for three blocks on each side. However, thinking the whole dream over, there is a lot to this respect idea that apparently hasn't met our eyes nor those of the guys that sign the checks. For anything as serious as this, there is bound to be a reason, and it behooves all of us (management and labor all inclusive) to get on the well known ball and check. It would be a mighty satisfaction to know that my collective bosses think I am an important cog in the chain that clothes, houses and feeds us BOTH. It's not an impossible situation—or is it?



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NEW YORK

The New York Chapter membership is becoming more and more pleased with Chairman Westover's administration of the Chapter's affairs. One of the knotty problems that he handled to everybody's satisfaction was the Recording supervisory personnel shifts necessitated by business retrenchment in the department. Then he went on and succeeded in stopping several proposed firings of high-seniority men, which resulted in the recognition in principle and practice that *prior notice* of unsatisfactory work must be given the employee and the local committee which includes the Chairman, so that the individual will himself know of the complaint, and therefore have a chance to rectify and improve his position. The work of the men in question was immediately rectified and they are out of jeopardy. Westover's diligence put a stop to the operation of tape and wire recording equipment by News Room personnel, which had been taking work away from NABET recording engineers. His pursuit and attempted stoppage of the "intercept studio" technical operation by announcers, and his capable handling of the very recent ABC-TV attempts to circumvent the NABET-ABC-TV contract, have been a credit and inspiration to the membership.

In addition, Westover maintains 100 per cent coordination and liaison with the New York Chapter of ABUG—the Ass'n of Broadcast Unions & Guilds, and has been active in Tri-Chapter (New York, Engineering, Hudson Chapters) NABET coordination.

We in New York are very proud of our Chairman's record of diligence and performance in the execution and administration of NABET affairs, and he has won the respect and support of every member who has had the opportunity to observe his record of achievement.

Father and Son tradition has gotten under way in this business, at least in New York. Sons of the following NABET members have been confirmed as working under NABET contracts, but not employed by their father's employer, of course; the proud fathers are Messrs. Gabrielson, Durkin, and Campbell. Let's hear from the other Chapters.

Year Book instructions and supplies will shortly be shipped to all Chapter Chairmen, for distribution to the respective Chapter Sales Coordinators. Commissions are UP and should provide plenty of incentive.

FCC License Requirements. Several months ago, we reported on proposed down-grading of license requirements, in order to provide the NAB with cheap labor. We have been asked what happened to the follow-up story. We checked with Exec. Secy. Hiller, and learned that no formal decision has been made by FCC, but that recent license applicants advise that additional examination sections have been added covering TV, FM, and Directional Antenna operation.



CHICAGO

By Minor J. Wilson

The Chicago Chapter is growing so fast that keeping up with new names is not only difficult but impossible. LES WASHBURN our secretary-treasurer has his work cut out for him keeping track of them. LES just returned from Washington where he spent two months in uniform working for UNCLE.

The greatest problem new men here are facing is the housing situation. It is almost necessary to purchase a house to find a place to live; it is the biggest and most important topic of conversation among the newcomers.

RUS STURGIS was forced to move out of his place and ended up by moving his family back east while he himself is staying with ED BERNHEIM.

Ham radio is practically at a standstill during the summer, HAROLD ROYSTON and ED HOLM manage to find time to try out new beams and work the world. JIM LATO is working on his KW rig using a pair of 250th's Rus HUNT has about converted wife PAT to ham radio and has permission of his mother-in-law to put up any and all kinds of antennas.

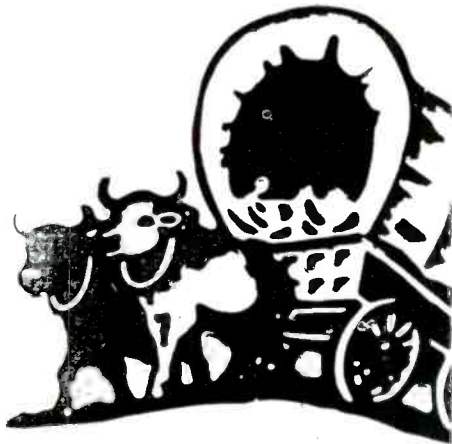
ART HJORTH finally got his new car, a Pontiac 8 station wagon.

JIM DAUGHERTY and wife ROSEMARY have settled down to house keeping just like any "old married couple."

LOU WOLLENHAUPT and MYRTLE BURGESS were married July 10th. Larry BALSLEY is spending his vacation painting his house. DON FITCH has purchased a large wooded lot to build his country estate.

Chapter Secretaries: We are receiving increasing comments about the time lag between a new member's acceptance into membership by his Chapter Council, and the time the Journal is notified to place his name on the mailing list. This applies doubly to new stations or groups that sign up with NABET. Assign someone to copy the names and addresses from the member's application for membership, or his authorization card, and send immediately and directly to the Journal. We are interested in clearing up this matter forthwith and any procedure which accomplishes the result quicker is the right solution. Any local complaints relative to not getting the Journal should be *immediately* and directly referred to the Journal.

Support NABET



OMAHA NEWS

By Cy Hagerman

Here I sit, trying to think of something to write for the Omaha News—current events, happenings, etc.—and I'm not having very much luck, so, diving into the files of the Omaha Chapter's records, we come up with the following vital statistics:

First of all let's have the anniversaries for July. A. H. Maller, the newly-wed of the control room and expectant father, married July 18, 1947; and on July 1, 1925, our Chief Engineer, Bill Kotera, started at WOW—then WOAW. Vacations: Bob Rudd, our Chapter Chairman, had a nice holiday in Yellowstone Park, fishing, relaxing and (?). Also returning home was B. Lenox Dunbar, who took a two weeks cruise as a reservist in the Navy, and also a two week vacation in Canada.

WOW's annual staff picnic was held at Slim Everhart's (our Happy Cowboy—5 to 5:55 AM) Ranch. Since your reporter was unable to attend, due to circumstances beyond his control (control room, that is) he is unable to report any first-hand facts, but he does have a few of the interesting highlights. First of all, the food. Ah, yes! There was 90 pounds of chicken, potato salad and all the trimmin's! Of course the WOW engineering staff—members of the Omaha Chapter of NABET—made their presence known. Another item on the picnic agenda, that was inadvertently omitted, was the fact that beer was present in the amounts of all one could drink. Need I say more? One "Johnny Weismuller" of the engineering department stole the show by sampling the coolness of the lake and showing his swimming skill. However, he neglected one small item—he forgot to take his clothes off.

All in all, a good time was had by everyone.

Congratulations on the following birthdays in August: Johnny Brunken, August 24, and Bill Kotera, August 15. Special congratulations to Johnny Brunken on his sixth wedding anniversary August 5.

The Omaha Chapter is glad to welcome into the fold the boys at KSWI; Donald Jeppeson, Roger Peters, Louie Schurkamp and Harry Stutzman. In future issues there will be banter about these boys also. That's all for this month.

—73's.

ST. LAWRENCE

... after a brief hiatus, of about eight months or so. Very sorry, but eight hours on the board and five hours of school plus time for homework and sleep occupied about twenty-six hours a day, and that was all we could manage. Ah, but there's good news to open this column. The Yonkovic stork winged its way here on June 24th with a seven-pound fourteen ounce specimen of the homo sapiens type, male in variety, which was promptly named James Vance by the proud parents. However, the stork seems a popular bird in these parts at this time. He'll soon be winging his way back with a delivery for the Bob Bouchards. Since he left a boy on his last visit, a little over a year ago, the Bouchards have put in an order for the girl variety this time.

This is a lazy time of year, and no one seems to be doing much of anything except going on vacation, planning a vacation, or reminiscing about a vacation. Pappy Davis took Thelma and baby Marsha to Auburn, New York, to visit the folks. He only stayed a week, but the rest of the family spent and additional week. Don't ever tell me that men disliked being tied down with a wife and family. Pappy wandered around the station nights like a lost shade without a resting place. He was kept company by George Gebhard, whose wife was then recuperating from an operation in her home at Rochester. I'm happy to say that Helen is home now, and doing very nicely, thank you. Glenn and Ann Hall took the baby down to Brooklyn to see Ann's people. Just before they came home they took time off to see "Angel in the Wings," which they enjoyed very much and which they thought was little more than slightly hysterical.

Bob Bouchard and the family took a long motor trip to Boston to see Frances' family. Gail Branche Pfister and her practically new husband (three months

married already) went to Star Lake to visit Gail's relatives. They tell me that that part of the North Country is very beautiful. Betty Gillespie spent her vacation loafing about the house enjoying her almost-two-years old son, "Spooky," whom she doesn't see too much when she is working. However, on her days off this week, she and Caroline Ryan, who is also spending most of her vacation loafing and getting a tan, tore off in Betty's new club coupe and went to Whiteface Mountain and then up into the New England states. Caroline told me that they were very impressed by the historical surroundings of Concord. Incidentally, I went to New York myself in June. I kept very busy seeing fifteen plays in twelve days.

Massena has been a little busier than we have. They've been getting their FM ready for airing. In the process they seem to have set some sort of record. Their tower went up in a little over five days. There's been quite a turnover of personnel in that station. One of the new engineers is an import from the Bronx, one Stanley Ivill by name. Originally from Beckley, W. Virginia, Stan is a veteran of the late war. He was graduated from George Washington High School in New York, and since his service days he has attended Rhodes School and the R.C.A. Institutes in New York. In addition to all this, Stan found time to put in a year of work with the bureau of internal revenue.

I shouldn't have said that NO work was going on at the station. It was decided that the unit used to ventilate the AM studios was not large enough, so a bigger one was purchased, and the small one was inherited by FM to air condition the control room (they, the powers that be, decided it was cheaper to air condition the place than to pay for hospitalization for heat exhaustion. Now, however, the engineers having been accustomed to so much heat for so long, they are faced with a dilemma. They are freezing to death. They haven't just decided how to remedy this situation as yet. However, ear muffs have been suggested by Willie Walck, and my own contribution is for stadium boots.

I haven't forgotten that I promised (or threatened) to display some of the feminine pulchritude at the station, but a survey by the girls of their photo collections convinced them that there wasn't a single picture with enough cheesecake to merit publication. However, they promised they would work on the problem this summer, the season for sunbathing.

—ALEEN A. CORBIN.



WASHINGTON

By Warren Deem

One of the interesting coverages of the WNBW field crew during the month of July was the harness races at the new Laurel, Md., raceway. The crew loaded up the mobile unit van and headed toward Laurel, but due to heavy rain didn't hit the air the first two nights. On the third night however, cameras were set up on top of the van, phone circuits were equalized, and everything was in readiness for the first telecast of harness racing at Laurel. *Jim Butts* and *Ken Boone* were stationed at the paddock to pick up the horses and riders before going to and after coming from the track. Their camera control equipment was located in one of the horse's stalls—how close to the feed bag can you get? They should have come up with some winners, but at the end of the week a survey showed that most of the guys that placed bets broke pretty close to even. *Vern Swiger* was disillusioned after trying for the whole time we were up there to hit the daily double—the nags just would not cooperate.

Neither would the electricity cooperate with *Vern*. One afternoon while setting up his camera on top of the van, he grabbed hold of the camera cable with one hand and the panning handle with the other. The difference of potential between the two was great enough to hold his grip tight. *Leon Cromak* saw the predicament *Vern* was in and came to his rescue by pulling the main power switch. The trouble was found to be a faulty ground connection in the system. The shock shook *Vern* up a bit, but he was okay by air time and helped show the televiewers in Baltimore and Washington some good harness racing.

What happened to the WRC softball team? When the season started the team was close to the top of the league, but by July 24th when WRC played the FCC gang the team was in sad condition. *Carroll Bolstad*, the manager of the team practically gave up after that game. The following Saturday WRC was to play WMAL for the third time and since WRC had won on their two previous encounters due to the early response of WRC's regular team *Carroll* decided to try once more. The structure of the WRC team had been so weakened by this time that WMAL had a most enjoyable morning trouncing us 13 to 1. It is safe to say that we worked the equivalent of twelve innings in that 7 inning ball game. By next season *Carroll* hopes to have enough players out for practice to whip up a real good team to race through the '49 season with.

Joe Colledge spent some of the hot July days up in the cool northern Pennsylvania Pooknanose country. *Bill Herson* was his traveling companion and they returned fresh and regretting that the heat was still with us in Washington. *Carroll Bolstad* spent his vacation in Minnesota. He caught some beautiful northern pike, ranging from 4 to 6 pounds. Camped out and really enjoyed the outdoor living. Before he arrived in Minnesota he stopped off in Iowa for a visit with his folks. Strange thing though was that *Carroll* acquired his nice tan after returning to D.C.

On July 6th the Elk Neck microwave tower was struck by lightning interrupting service (NBC) between New York and Washington. The Texaco Star Theatre with *Milton Berle* was scheduled for that night and the Dumont Engineers wanted to help out by letting NBC use their cable facilities, but their facilities were tied up. The thoughtfulness and spirit of cooperation was there though and was heartwarming.

"Here *Ed (McCaul)* go buy yourself a good cigar for a change" boomed *Mac McClelland* handing *Ed* 50 cents donated by the WNBW studio crew. Something happened even then because the rope he bought smelled just like the ropes he habitually smokes. Guess it just can't be different, a cigar is a cigar.

Ed. McGinley made top salary a couple of months ago—next comes that 10 year club pin *Ed*.

Mac McClelland has his new Royal Atlas twin cylinder outboard motor. He says it is just in case; the wind is supposed to supply the mobile power for his boat, but the wind is a fickle companion.

One of the most interesting field jobs

on record for television was during the Democratic Convention in Philadelphia. President Truman was scheduled to appear before the convention on the night of his nomination. The day before *Johnny Rogers*, field supervisor for WNBW was informed that production wanted a picture of the President leaving Washington, D.C. Surveys were made that took a good part of the night. It was not determined at that time whether the President would fly or go by train. *Johnny* discovered from the ground crew at Nat'l. Airport that the Independence was in Venezuela so it looked unlikely that Mr. Truman would fly. *Johnny* took the good chance and set up at Union Station. The mobile van couldn't have been in a better place—right in line with track No. 20, the one everyone hoped Mr. Truman would leave on. One camera with a 25" lens and two kliegs were placed on top of the van and a second camera manned by *Dodd Boyd* was in position on a raised platform by track No. 18. The kliegs were to light the coming of Mr. Truman getting from his limousine. *Mike Galvin* had a tight squeeze coming from the mail yard to the concourse with the van. If the van had been two inches wider the show probably would not have gone on. When the Presidential party arrived the klieg lights manned by *Gene Beal* and *Al Argenti* were swung into position down the concourse to illuminate the scene. *Ed. McCaul* was audio engineer and controlled the levels of the announcer commenting on the scene. The President went directly from his car onto his train accompanied by his wife and daughter and various statesmen and secret service men. Just before departure time the President came to the observation platform and smiled at the waiting crowd and also, whether aware of the fact or not, he smiled right into the television cameras as if it had been a rehearsed studio show.

Deem had the camera on top of the van and was using his 135 m.m. lens. *Mike Galvin* was standing by like a first loader on a battleship's AA Battery with the 25" bayonet type lens ready to shove it into place as soon as the train started to pull out. *Spain* was ready at the switching position and *Johnny Rogers* had the best picture he could get on the control units. *Spain* switched to *Dodd's* camera, *Mike* hastily put on the 25" lens and just as the President hit the 25" near focal point *Spain* switched to *Deem's* camera and brought the departing President back for a close up. The lens followed Mr. Truman waving down the track and out of sight around the bend. The production staff in New York sent a complimentary telegram to the Washington

crew which was appreciated by all.

Walter Godwin has at last received his long awaited lathe. It had been tied up by strikes for several weeks. *Walt* took in both conventions. He may have got to Philadelphia for the third one, but was on vacation at the time.

The news from the WNBW X'mtr is interesting—*Mr. Stetson* is now station engineer assuming the position vacated by *Johnny Knight* who transferred to KNBH, Hollywood. I wonder how NBC made out shipping 4,000 lbs. of ham gear to California for *Johnny*?

Mr. Platt at last report is still trying to solve the housing problem in D.C. Trailer life isn't all its cracked up to be.

Bill Simmons was a sharp looking character one morning when he showed up at the transmitter in full dress, tails-and-all, in preparation for a friend's wedding.

Is *Sam Newman* working for the Army? General LeMay has been using his ham rig for communication with our forces in Germany with very satisfactory results. Sam is now a Group 15. Congratulations Sam.

Gene Beall is back at the Xmtr and likes it much better than field work.

Bob Barnes left via private transportation August 1st to join *Johnny Knight* on Mt. Wilson out Hollywood way. The KNBH Xmtr tower is only 50 feet high, but the mountain towers 6,666 feet. The new antenna will be a five section RCA loaded slot type and the xmtr is a TT-5A, RCA of course.

Archie DeVeau is back from his vacation spent at Port Jefferson on Long Island, N. Y. He stopped in Milford, Connecticut to see his folks.

The 500 mc antenna arrived at the Wardman Park WNBW Television Station and as soon as it can be rigged experiments will start to determine for FCC and NBC the field strength over the Washington area. It looks like the first step in color that has been made here in Washington.

Bill Wells and family rented a cottage on the shore of Chesapeake Bay for a couple of weeks of freedom from the workaday world.

The moles return—*Wally Ward*, *Jim Butts*, *Mike Galvin* and *Frank Spain* are the moles and the place they returned from was the catacombes of Constitution Hall where they laid some 2000 feet of cable. There were some pretty tight places to squeeze through, but they did such a wonderful job of concealing the cables that on the first show from there, Con-

nie B. Gay's Radio Ranch, the cameramen *Vern Swiger* and myself had to ask *Wally Ward* where the cables were so they could hook up the cameras. *Vern* especially liked that particular job because of his love for hillbilly music.

Bill Cornell of WOL Studios spent his vacation in New York state while *Mel Ward* vacationed in sunny Florida.

Hersh Stark recently constructed a 10" TV kit. He had a little trouble with IF oscillation in alignment, but reports good results now.

WOL, F.M., a long time coming, is now on the air. It came on during the 2nd week in August.

Major Ray Kaplan of WOL is on active duty (Reserve Status) with the Signal Corps at Wright Field.

BALTIMORE

By JOHN W. LAPPE

I don't know whether I am jumping out of the frying pan into the fire. I resigned as Chairman and got the job of Associate Editor!

At this writing, yours truly is looking forward to a three weeks vacation, which starts in two days. Four or five days of it will be spent in Rockland Lake, N. Y., my home town. We received a pretty pictured card from Capt. Al Rhine, who is finishing up his vacation at Ocean City. He took the family yacht up there.

Can't say that Butch Stockslager enjoyed his vacation very much. While on his, he developed ulcers of the stomach and had to ask for sick leave. I guess the only pleasant part is that he is in his home town of Oakland. He expects to be back in a couple of months.

We, here at WITH, have been quite busy breaking in new engineers between vacations and our new FM transmitter site about to go into operation. Up till now, we have been taking care of the two transmitters, like a lot of other cities. Now that they will be separated, maybe we, the engineers, will be the first to know that the station is off the air, instead of some listener calling in.

Here is some startling news. Al Hedrick's house is finished. Yup, he signs his name on the dotted line August 2nd and expects to move in the next day. That is, if his co-partner, FHA, says its O.K. Besides all this excitement, inside of a month, there is supposed to be an addition to the family. Also he has to make screens for the windows on the house. It seems like everything happens at once, doesn't it Al?

Here is a laugh for anyone who is foolish enough to read Baltimore news. The Baltimore Chapter, at one time, consisted of three stations. Station No. 1 decided they wanted to change Union, so they quit NABET but when they resigned, I should say before they resigned, they knew they would get support from station No. 2, so one of them made a motion that the treasury be split up into say 28 parts, each man from station No. 1 to get his 1/28th part. We of station No. 3 were outnumbered so out goes station No. 1 with part of our treasury. Station No. 2 must have had ideas, as you will see later, and they did vote for this plot. I'll admit the laugh was on us at this point. But like every dog has his day, and cats their nights, our turn was coming. A few months or so later, station No. 2, like good little boys, decided they wanted to change Union. (Monotonous, isn't it.) The boys at WITH got out their shootin' irons. Yup, that's what happened. Cliff Gorsuch happened to be at this meeting, but I guess he wishes he was listening instead of talking when he said he would be there. I am glad he is a witness to this. All hell broke loose. After the meeting, I heard one of the fellows from station No. 2 ask one of the other boys for carfare home. I wonder if he anticipated something.

I guess I will leave some room in the Journal for you other Associate Editors and bring an end to this. However, you will hear from me again, if you read it. Never a dull moment in Baltimore.

DIXIE DOINGS

By SAM LILES

A barbecue was given at the WPTF transmitter June tenth in honor of Henry Hulick, WPTF chief engineer, who now becomes charter member of the Twenty Year Club. Over a hundred people consumed the succulent pig and the equally succulent beer. Conviviality was the order of the day and spirits were high, as also, were some of the guests. Hurley Franklin was maestro of the roasting pit and Howard Sugg, senior transmitter engineer, acted as host and indoctrinator of indecorum. Henry received a beautiful traveling bag, a fishing rod, and a pen and pencil set. A twenty-year anniversary gives pause to think. It seems only yesterday that we did our stuff atop the Sir Walter Hotel with a Western Electric 6-B, featuring the amazing new crystal control of frequency! In those days if anyone asked where you worked, you said, "At the radio station."

JTAC Replaces RTJB

No need to specify which, since there was only one. (Seventy-two hours for twenty-five dollars a week.)

WPTF has done much to advertise the small town of Cary, North Carolina, where our transmitter is located. However, the town is full of an assortment of characters who frequently make the headlines on their own power. We do not refer to the three fourteen year old girls who are currently in need of quick husbands. Such peccadillos are apt to occur in the best regulated communities. We refer to the time when the Cary shortstop was hit three times by a pitched ball in one game, the last blow breaking his leg. And we recall too, the time when the center-fielder whipped the ball home on one hop to the plate, and broke his arm off clean at the shoulder.

The remote crew that was sent to pick up a religious service from Manteo, N.C., home of the annual extravaganza, "The Lost Colony," were rained out, but good. Willard Dean reports no further necessity for his Saturday night bath.

Technicians of WNAC in Raleigh are now in the NABET fold and negotiations are going forward toward a meeting of minds in regard to a contract for this group. Owners of the station are heirs of the late Josephus Daniels, former Secretary of the Navy and lifetime friend of organized labor.

Vacations are in full swing. Hunter Wall spent two weeks at Carolina Beach. He says he never saw so much undiluted water in his life. Faugh! Lawton Metcalf and wife spent two weeks in Tampa, Florida, visiting the folks at home. Bob Royall is leaving shortly for a two weeks vacation in New York City, where he says he will do the town and everybody in it. Preston Pearson, closely accompanied by "Boots," the beautiful dance director, was last seen heading for a parking place. We mean, of course, the place he parks that palatial speed-boat. Frank Higgins bought a miniature girl-trap with dual carburetors and right-hand drive. He came back from the beach with a tan so dark we are going to make him eat with the cook.

Technicians of WPTF descended en masse on Little Washington as guests of Alton Tripp for a fishing excursion and convened as a committee for the testing of cold beer and hot tomatoes. Among those sober, were Gordon McCreary, Wayland Seagraves, Howard Sugg, Frank Higgins, Forrest Tyndall, Hurley Franklin and Hunter Wall. Everybody fishes in Little Washington during the summer. In the winter they hunt and make

1. Creation of a Joint Technical Advisory Committee for the purpose of advising governmental agencies, such as the Federal Communications Commission and other professional and industrial groups on technical aspects of radio, television, and electronic problems, was announced today jointly by the Radio Manufacturers Association and the Institute of Radio Engineers. The JTAC reports to the two Boards of Directors who have delegated the responsibility to Dr. B. E. Shackelford, President of the Institute of Radio Engineers, and to Dr. W. R. G. Baker, Director of Engineering of the Radio Manufacturers Association as direct contacts.

2. Members of the committee were appointed by the respective Boards of Directors of RMA and IRE. The members were chosen, according to Drs. W. R. G. Baker and Benjamin E. Shackelford, "on the basis of professional standing" irrespective of the organizations to which they belong or the companies by which they are employed.

3. Philip F. Siling, Chief Engineer of the RCA Frequency Bureau, of Washington, was appointed first Chairman of the new committee as a representative of IRE. The Vice-chairman is Donald G. Fink, Editor of *Electronics*, New York, who is a representative of RMA.

4. The other six members of the eight-man committee are: Dr. Ralph Bown, of Bell Telephone Laboratories, Murray Hill, New Jersey; Melville Eastham, of General Radio Company, Cambridge, Massachusetts; John V. L. Hogan, of Interstate Broadcasting Company, Inc., New York; E. K. Jett, a former commissioner of the FCC and now director of the Baltimore Sun's radio and television operations; Haraden Pratt, of Mackay Radio, New York; and David B. Smith, of Philco Corporation, Philadelphia, Pennsylvania. Laurence G. Cumming, IRE Technical Secretary, is non-member secretary of the committee.

5. One of the first tasks of the committee will be to gather authoritative information on the availability of equipment and propagation characteristics in the ultra high frequencies in preparation for a television hearing called by the Federal Communications Commission to start September 20.

love. What do they hunt? Yeah, that's right, somebody to make love to.

Might as well fish.

6. RMA and IRE decided to establish JTAC as a central and authoritative policy advisory group in the technical field because of the increasing number of far-reaching problems confronting the industry and governmental regulatory agencies as a result of rapid developments in television, FM broadcasting, and other radio and electronic services. The formation of JTAC follows a suggestion of FCC Chairman, Wayne Coy, that the industry provide FCC with authoritative technical information on the adaptability of the frequencies above 216 megacycles for television broadcasting.

7. The objective of JTAC, as stated in its charter, is "to obtain and evaluate information of a technical or engineering nature relating to the radio art for the purpose of advising government bodies and other professional and industrial groups.

"In obtaining and evaluating such information," the charter continues, "the JTAC shall maintain an objective point of view. It is recognized that the advice given may involve integrated professional judgments on many interrelated factors, including economic forces and public policy."

JTAC will supplant the Radio Technical Planning Board in its relations with the FCC and other governmental agencies, and the RTPB has been dissolved.

Other functions of the RTPB are being taken over by various technical committees of the IRE and RMA Engineering Department, and both RMA and IRE committees will be called upon from time to time by JTAC for information.

Where a qualified technical group does not exist, JTAC has authority to appoint a committee to study and report on particular subjects after which it will be disbanded.

Specific duties of JTAC are outlined in the charter as follows:

(a). To consult with government bodies and with other professional and industrial groups to determine what technical information is required to insure the wise use and regulation of radio facilities.

(b). To establish a program of activity and determine priority among the problems selected by it or presented to it in view of the needs of the profession and the public.

(c). To establish outlines of the infor-

mation required in detailed form. These outlines will be submitted to qualified groups, as hereinafter defined, who shall study the requirements and supply the required information.

(d). To sift and evaluate information thus obtained so as to resolve conflicts of fact, to separate matters of fact from matters of opinion, and to relate the detailed findings to the broad problems presented to it.

(e). To present its findings in a clear and understandable manner to the agencies originally requesting the assistance of the committee.

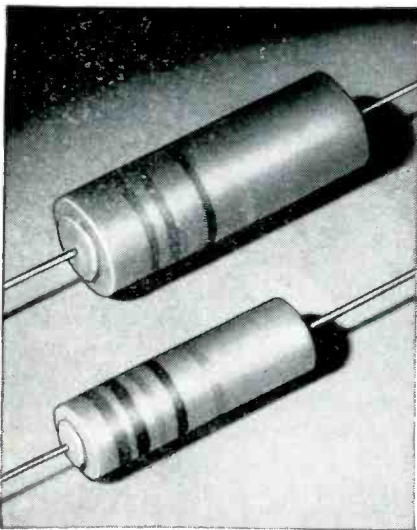
(f). To make its findings available to the profession and the public.

(g). To appear as necessary before government or other parties to interpret the findings of the committee in the light of other information presented.

Members of JTAC are appointed for two years, and the chairmanship will be alternated each year between RMA and IRE representatives.

TRADE NEWS

RCA announces the addition of two klystrons, types 2K25 and 2K26, to its regular line of commercial high-frequency vacuum tubes; they have general application in wide-band, microwave communication circuits.



Aerovox Corp. announces a completely new paper tubular condenser, intended to minimize component failures; they will be known as Duranite capacitors, are hermetically sealed and will retain their characteristics under severe weather and handling conditions.

Uniformly good-

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PROFESSIONAL
RECORDING
DISCS

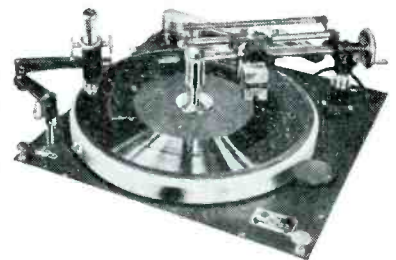
FOR THE
UTMOST IN
HIGH FIDELITY
REPRODUCTION

A graphic featuring a stack of several vinyl records, with an arrow pointing from the text 'Uniformly good-' towards them. To the right is a circular logo with the text 'ALLIED PROFESSIONAL RECORDING DISCS'. Below the logo is the text 'FOR THE UTMOST IN HIGH FIDELITY REPRODUCTION'.

Allied Professional Recording Discs are manufactured to exacting standards by one of the pioneers in the field of instantaneous recording equipment. The accumulated knowledge of years of experience have been engineered into Allied Discs. TRY them.

Also ALLIED RECORDING EQUIPMENT

The Allied Recording Machine (illustrated) combines the Allied Transcription Turntable and Allied Overhead Cutting Assembly, which are also sold separately. Like Allied Discs, this equipment is of highest precision quality, good for long, trouble-free service.

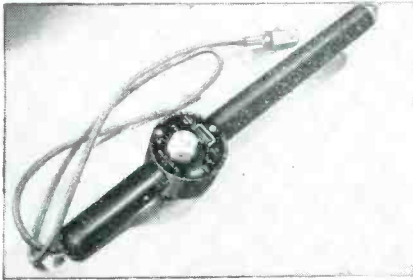


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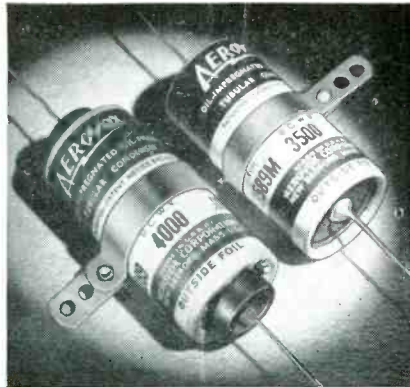
LONG ISLAND CITY 1, NEW YORK

WRITE FOR NEW DESCRIPTIVE BULLETIN



Industrial Devices of Edgewater, N. J., announces a high-potential neon indicator voltmeter, which they claim to be inexpensive, practical, rugged and virtually burnout-proof, and covering a range of 1600 to 15,000 volts ac. Also suitable for dc readings by use of simple conversion factor; rotate calibrated knob until neon lamp extinguishes, and read voltage directly on dial.

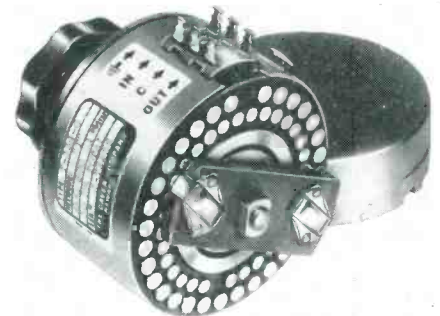
Aerovox announces the extension of its Type 89 Oil capacitor line to 6,000 volts, D.C.W. Available to .1 mfd up to 5,000 DCW volts, and up to .05 mfd 6,000 DCW volts. They will have many applications in television, oscillographic, and



transmitter high voltage and coupling circuits.

The Daven Company of 191 Central Avenue, Newark, N. J. announces the development of an entirely different type of rotor for their line of attenuators and switches. The multiple wiping blades of this rotor are made of a special silver alloy and are enclosed in a tamper-proof housing. Each blade conductor is individually spring loaded, giving a knee-action effect in use. This action produces uni-

form pressure on the contacts and slip ring, thus assuring smooth operation and low contact resistance. Since the rotor arms are considerably shorter than heretofore, lower overall switch resistance is obtained, due to the extremely short conducting path. Another advantage of this type of construction is that stray capacity coupling between switch sections is decreased, as a result of the reduced length of the rotor arm. With this type of switching arrangement, it is now possible to procure more circuits (poles) on one deck than previously. Daven switches may be obtained having up to six poles on one deck, in a $2\frac{3}{4}$ " diameter unit.



The Daven Company also announces the addition of a new line of attenuators featuring decreased dimensions. These controls of reduced size were designed for use in high quality equipment where mounting space is limited and precision construction required. The same mechanical and electrical construction offered in the larger Daven attenuators are supplied in the new type units.

The following is a partial listing of the type and size units now available:

Circuit	No. of Steps	Diam.	Type No.
Ladder	30	1 $\frac{3}{4}$ "	LA-130
Ladder	45	2 $\frac{1}{4}$ "	LA-745
Tee	30	2 $\frac{1}{4}$ "	T-730
Tee	45	2 $\frac{3}{4}$ "	T-345

General Radio Co. has issued Catalogue L, its first completely new general catalogue that they have published in years. It supercedes all other catalogues and describes their complete line of instruments, parts and accessories.

The RMA has appointed a committee on industry mobilization and military production, and immediate conferences are planned in Washington with government agencies.

Precision Apparatus Co. of Elmhurst, N. Y., announces a new pocket-size wide range circuit tester, with ac-da ranges to 6,000 volts, 600 MA, plus 70 db, and 5 megohms; all multiplier and shunt resistors accurate to 1%.

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5 Better mechanical operation of switch.

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NLRB BANS POLLS

The National Labor Relations Board has announced that, under the Labor Management Relations Act, it is precluded from holding union shop authorization polls in States where union shops are banned by State law.

The Board indicated, however, that in the case of a bargaining unit that lies partly in a State forbidding union shops and partly in a State that doesn't, a separate union shop unit may be set up for the employees in the State permitting a union shop.

In effect, this means that a labor organization cannot legally make a union shop contract in such prohibitory States even with an employer engaged in interstate commerce. Under the Federal labor law, unions and employers can make such contracts only after a majority of the employees affected have voted in an NLRB poll to authorize it.

The action, it was explained, only applies where union shops are prohibited. It does not apply in those States where union shop agreements are merely restricted.

HOUSE AND SENATE RATIFY CHANGES IN ILO CONSTITUTION

By joint resolution approved by both houses of Congress, the United States Government soon will ratify changes in the constitution of the International Labor Office.

The changes bring into conformity the procedures of the American Federal-State dual system of government with the functions of ILO by permitting each of the 48 States to ratify, or not ratify, conventions adopted by the more than 50 nations which are members of the ILO.

The resolution also defined policies relating to American participation in activities of the ILO. One rider appended to the resolution provides that all delegates and alternates appointed to represent the United States in official deliberations of ILO must undergo investigations by the Federal Bureau of Investigation. Another rider fixed \$1,091,739 as the maximum contribution of the United States for ILO activities and the sum of \$95,000 for the expenses of American delegates designated to participate in its deliberations.

The ILO was organized in 1919 as an affiliate of the League of Nations. The United States became one of its members in 1934.

Since then American industry has become increasingly aware of the influence which international problems exert on our economy. Both management and labor, as well as the United States Government, have participated on a steadily increasing scale in the ILO's work. All three are directly represented at the ILO conferences. Member countries are entitled each to four delegates, two from the government, one management, and one labor.

PRICE INDEX

Between June, 1946, when war-time price controls ended and November, 1947, living costs advanced 23.7 per cent. In that period food prices advanced 39.2 per cent.

The consumers' price index issued monthly by the Bureau of Labor Statistics stood at 171.7, a record high, on June 15 this year. This is the last figure available. In November, 1947, it stood at 164.9.

The index measures living costs for moderate income families in the larger cities. It covers such items as food, apparel, rent, fuel and electricity, and house furnishings.

The years 1935-39 equal 100 in the index. Increase in cost of living since 1935-39: 69.1 per cent.

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HOBBY CORNER



Dick Peck at the controls of his model railroad.

In previous issues, the "Hobbies" section of the Omaha News was concerned with ham radio, however, for a change this month, let's deal with something new and novel. This hobby is not very prevalent with broadcast engineers; in fact, it was started because the engineer in question wanted to take his mind off radio in his spare time. Here is a brief sketch of said engineer, Dick Peck, and his model railroad.

Dick's first contact with model railroads was years ago when he bought three old electric locomotives from an electrical appliances store in his home town, Independence, Missouri. He got them for the whole sum of 50 cents each. One of them wouldn't run but eventually he had all three of them going; however, one by one they wore out and as they did, he would combine the parts from all three in order to keep one running. He had a short length of track laid on his Dad's workbench, which was really a test track, where he ran them back and forth. Finally he had no engines left that would work.

A couple of years ago, he happened to walk into a hobby shop, here in Omaha, and that started the "bug" all over again. It was there that he became acquainted with what is known as "scale" models. These are exact (or practically so) miniatures of actual equipment used on regular railroads. This type of model is not to be confused with what is called "tin-plate"; which is the average kind of railroad you can buy Junior for Christmas at most of the department stores. Not that there is anything wrong with "tin-plate"—but Dick seems to gain more satisfaction out of something which looks and operates very closely like the large size prototypes.

So far Dick hasn't tried to design or build anything exactly from scratch—mainly because he doesn't have the machine tools that are needed to do something of that sort. He does

have about 10 freight cars, a caboose, three passenger cars and two locomotives which he has built from "kits" that contain all the parts and need only a little trimming or sanding before being assembled.

Dick has three separate track layouts and is now planning on laying the fourth. Actually, the first two were more or less experiments for him to try and discover what, for him, was the best way to lay track. The layout that he has at the present time is in one corner of his basement and he has, possibly, 150 feet of track.

I believe that his track rates a little description. He buys the rails, ties, spikes and rail connectors as he needs them. The track is approximately $9/16$ of an inch between rails, is made of brass and, like the rest of the equipment, is shaped exactly like the real thing. His scale is "HO," which is approximately half of "O" size, the standard tin plate gauge. Dick built all of his switches from stock rail. The rail is laid on the ties and spiked down to the correct gauge either with long-nosed pliers or with a combination track gauge and spiking tool. He decided on "2 rail" operation rather than use either a third rail on the outside or in the center of the running rails. It made controlling and signalling a little more complicated but it also made the over-all scene more realistic. There is also one less rail to bother with when laying track and building switches.

The locomotives are equipped with permanent magnet motors and thus must be powered with DC. With the rails polarized, it is a simple matter to reverse the direction of any locomotive anywhere. They take 4 to 12 volts and draw approximately 2 amps each. All of his cars and locomotives are equipped with automatic couplers. They need only to be pushed together to couple and can be uncoupled by running the train over "uncoupling ramps," which can be placed anywhere except at switches.

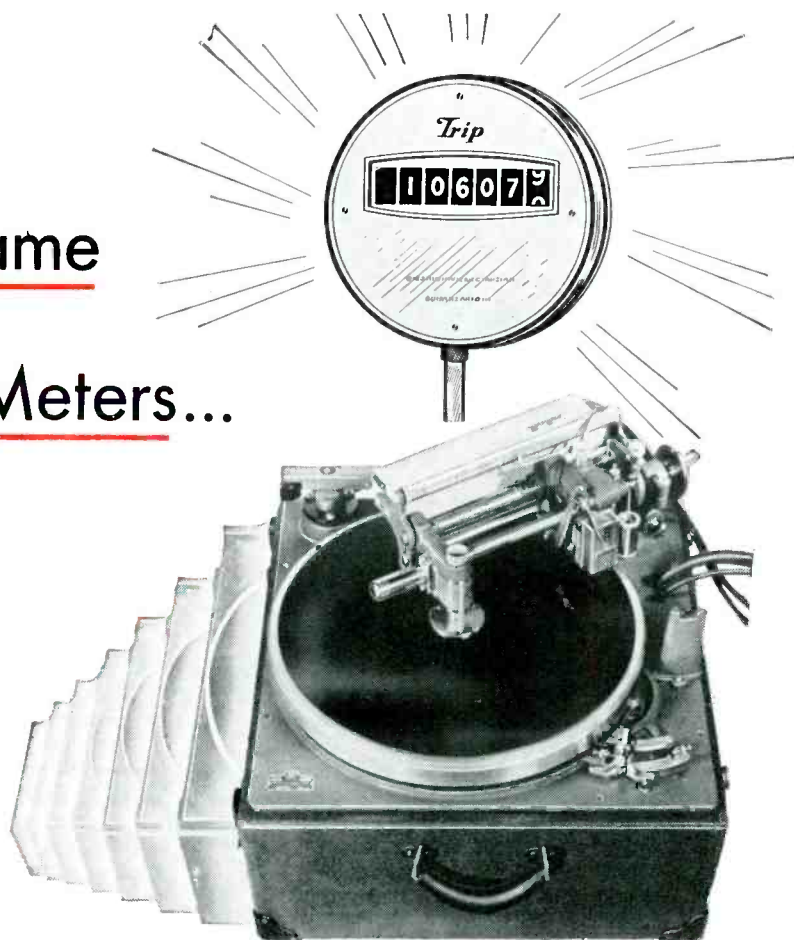
Eventually, Dick hopes to be able to design and build his own cars and locomotives, as there is practically no limit to what can be modeled from something of this sort.

ENGINEER'S MORALE

NYU surveyed a recent group of 107 of its engineering graduates about their job successes and salaries; mechanical and electrical engineers are averaging \$250 per month—less than a New York City street-cleaner or subway worker! One highly recommended chemical engineering graduate has left the profession to sell oriental rugs, and another EE quit engineering to sell candy—wholesale—at a salary of \$400 per month starting pay.

NAM Report of a meeting of industrial relations executives states that effective passage of company information to its employees "is a top ranking management responsibility that needs urgent attention." The clinic participants decided that "Employee understanding and cooperation can be greatly improved by giving workers more information and facts about the company and all matters that affect them in their work relationships. Employees want to know more about their companies, their prospects, plans, competitive standing, and day-to-day happenings." This admission by NAM that all is not being done by management in employee relations is amazing enough; but in addition, it represents a complete change of faith of the former NAM—NAB philosophy toward the employee's need and therefor moral right to have access to authoritative information about his employer's business.

If Recorders came
with Mileage Meters...



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Yes, day after day and year after year over 3,000 Presto 6N recorders are hard at work in broadcasting stations, recording studios, educational institutions and government agencies throughout the world.

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DAVEN

FIXED ATTENUATORS

Daven fixed attenuators are precision built, accurately calibrated networks. These units are extensively used in major broadcasting installations, motion picture sound studios and as laboratory standards of attenuation.

Some suggested uses are:

- **LOSS:** Introduction of a fixed known loss.
 - (a) To reduce level
 - (b) To equalize several incoming lines
 - (c) As laboratory standards of attenuation
- **TRANSFORMATION:** To transform or change from one impedance to another without introducing frequency or reflection errors.
- **ISOLATION:** To isolate one part of a line from another.
- **BRIDGING:** To bridge a program line for monitoring purposes.
- **MULTIPLE CIRCUIT:** To combine several inputs into one output, or to divide one input into several outputs.

The following fixed attenuators are our standard type units. Unless specifically stated, any standard impedance or loss is available upon request. Frequency range, unless listed, is from zero to 50 KC for most values. Upon request, this range can be extended.



TYPE T-950

TYPE T-950
"T" Network

Size: 11/16" diameter x 1 1/8" long (overall).

TYPE T-691
"T" Network

Size: 1 3/8" dia. x 3" long.



TYPE T-691

TYPE H-950
Balanced "H" Network

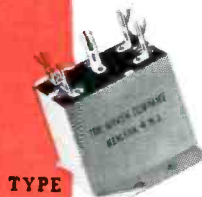
Mounting: No. 6 screw through center hole.

TYPE H-691
Balanced "H" Network

Mounting: Octal tube socket.

Maximum level + 20 DBM

Maximum level + 20 DBM



TYPE T-154

TYPE T-154
"T" Network

Size: 1-13/16" high x 1 1/2" long x 1 5/8" wide (overall).

TYPE V-154 - "T" OR π NETWORK
Video Attenuator.



TYPE V-154

TYPE H-154
Balanced "H" Network

Mounting: Four 6/32" screws.

FREQUENCY RANGE: 0 to 10 MC. Loss: 0 to 30 DB per unit. Impedances: 50 to 75 ohms. Furnished with BNC type receptacles. Matching plugs or right angle adaptors for RG cable can also be furnished.

Maximum level + 25 DBM

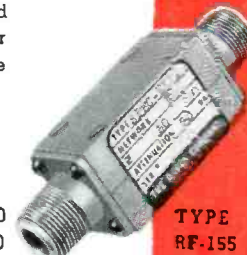


TYPE T-153

TYPE T-153
"T" Network

Size: 3 3/8" high x 1 1/2" long x 1 5/8" wide (overall).

TYPE RF-155 - "T" OR π NETWORK
Radio Frequency Attenuator.



TYPE RF-155

TYPE H-153
Balanced "H" Network

Mounting: Four 6/32" screws.

FREQUENCY RANGE: 0 to 200 MC. Loss: 0 to 20 DB per unit. Impedances 50 to 75 ohms. Total of 80 DB available by connecting in series.

Maximum level + 30 DBM

(Available up to 20 Watts, upon request)

MULTIPLE NETWORKS

TYPE 1030 - "T" NETWORK
0-40 DB in 1 DB steps.

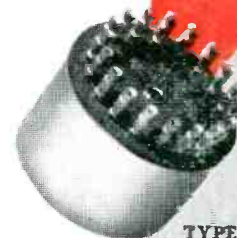
SIZE: 1 3/8" diameter x 1 1/4" long.

MOUNTING: No. 6 screw through center hole.

TYPE 1130-8 - "H" NETWORK
1 input, 8 outputs, 18 DB loss.

SIZE: 1 3/4" diameter x 1 5/8" long.

MOUNTING: No. 6 screw through center hole.



TYPE 1130-8

Special multiple output networks available in a wide variety of inputs and outputs in Type 1030 or Type 1130.

When ordering kindly supply the following information: Type, Circuit "H" or "T", and DB loss required.

Further information on these units will be supplied on request.

THE DAVEN CO.

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