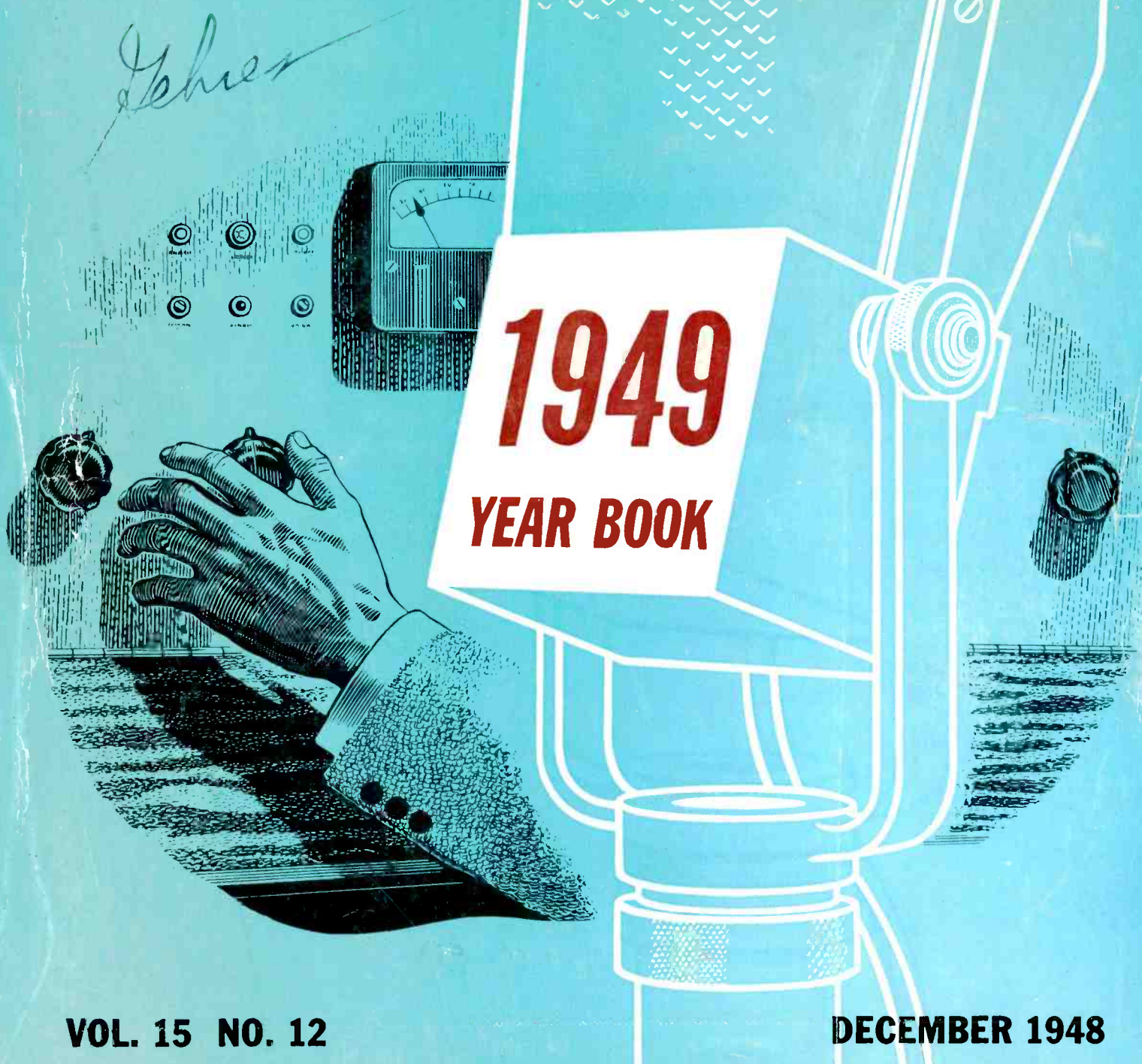


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THE BROADCAST ENGINEERS' JOURNAL

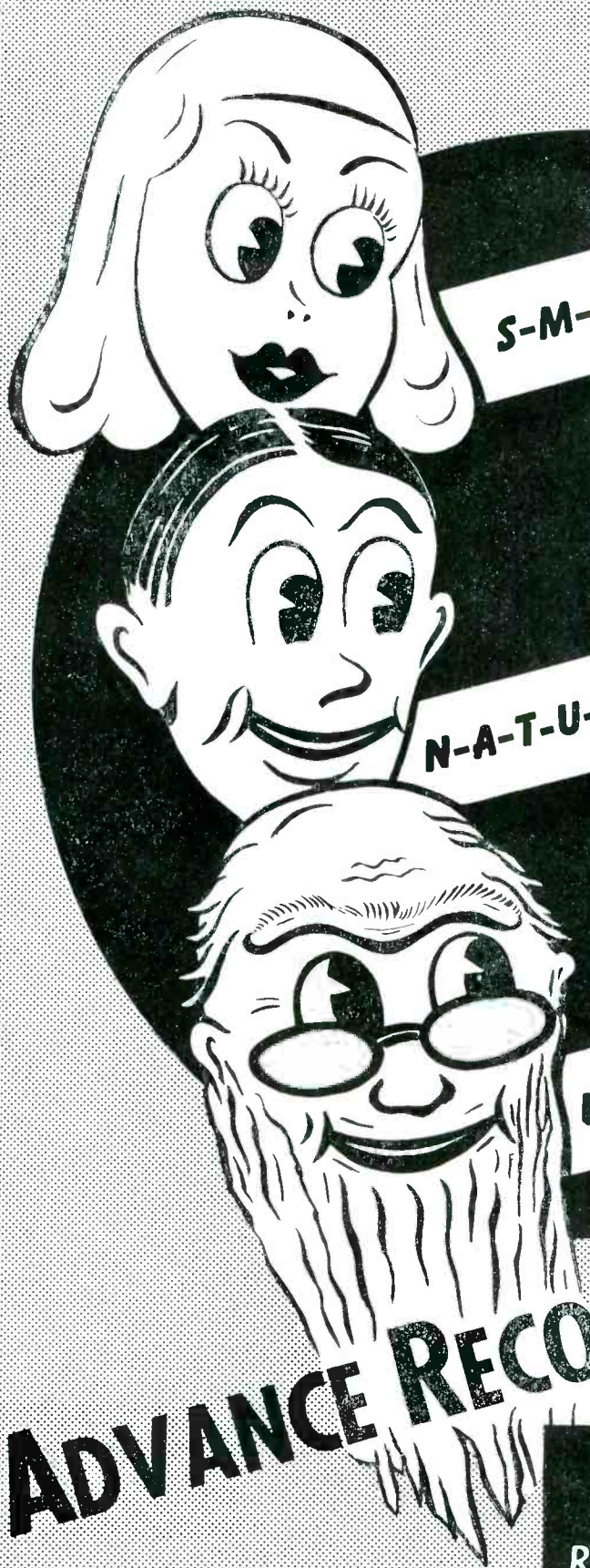
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1949
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VOL. 15 NO. 12

DECEMBER 1948



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Season's Greetings

and

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THE BROADCAST ENGINEERS' JOURNAL

Ed. Stolzenberger

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Business Mgr.

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THE BROADCAST ENGINEERS' JOURNAL

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A Message

— from —

John R. McDonnell

President, N. A. B. E. T.



JOHN R. McDONNELL
President, NABET



IT IS with pleasure that I take this opportunity to extend Season's Greetings to the membership of NABET, and in their behalf to our many friends in the radio-television industry.

During the past year, I have derived considerable satisfaction from the progress which has been achieved toward finding common grounds for resolving our mutual problems. The expansion of ABUG groups and the recent inception of NABUG (National Association of Broadcast Unions & Guilds) should encourage all employees in the industry to look forward to cooperation and mutual support among the unions involved. It is to be hoped that we can build on the foundation already established, an even greater understanding and cooperation for the benefit of all concerned.

Sincerely,

JOHN R. McDONNELL



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OF, BY, and FOR THE BROADCAST ENGINEER

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Ordway 3-8484

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C. L. Gorsuch, Nat'l Rep.
66 Court St., Room 501
Brooklyn 2, N. Y.
MAin 4-2855

Arthur Hjorth, Vice-Pres.
Geo. Maher, National Rep.
80E. Jackson Blvd. Rm. 543
Chicago 4, Ill.
Wabash 2462

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5508 Wesley Ave.
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3330 Charleston Way
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Baltimore, Md.	WITH, WITH-FM
Binghamton, N. Y.	WINR
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Bound Brook, N. J.	WNBI, WRCA, WNRE, WNRA, WNRI, WNRX
Canton, Ohio	WHBC
Chicago, Ill.	WENR, WLS, WMAQ, WAIT
Cleveland, Ohio	WHK, WTAM, WHKK
Council Bluffs, Ia.	KSWI, KFMX
Denver, Colo.	KVOD, KFKA, KOA
Detroit, Mich.	WWJ, WWJ-FM, WWJ-TV, WJLB
Dixon, Cal.	KNBA, KNBC, KNBI, KNBX (Internat'l Brcst)
Elmira, N. Y.	WENY
Fairmont, W. Va.	WMMN
Flint, Mich.	WBBC
Ft. Wayne, Ind.	WKJG, WKJG-FM, WOWO WOWO-FM, WGL
Greensboro, N. Y.	WBIG
Los Angeles, Cal.	KFI, KECA
Louisville, Ky.	WGRC
Massena, N. Y.	WMSA
New York, N. Y.	WOR, WJZ, WNBC, WNBC-FM, WNBT, WBAM, WJZ-TV, WJZ-FM
No. Platte, Neb.	KODY
Omaha, Neb.	WOW
Philadelphia, Pa.	KYW, KYW-FM
Pittsburgh, Pa.	WCAE, KDKA, KDKA-FM, WJAS, KQV
Raleigh, N. C.	WPTF
Richmond, Va.	WLEE
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Rockford, Ill.	WROK
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San Francisco, Cal.	KGO, KGO-FM, KNBC
Schenectady, N. Y.	WGY, WRGB, WSNY, WGFM, WGEA, WGEO, WGEX
Springfield, Mass.	WSPR, WBZA
Syracuse, N. Y.	WOLF, WAGE, WFBL, WFBL-FM, WAGE-FM
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Hollywood	NBC Air Conditioning—NBC Sound Effects NBC Traffic/Comm.—ABC Traffic/ Comm.
San Francisco	ABC Traffic/Comm.



An Important Message

from

Arthur Hjorth

Vice-President of NABET



ARTHUR HJORTH
Vice-President NABET

The pioneering spirit of the radio engineer in the early 1920's made it possible for this new medium of advertising to become a lucrative business. Then, the AM radio engineer created, built, and perfected his art. He also was the announcer, producer, and often salesman. Sponsorship of segments of AM time made it possible for AM to be a lucrative business. As the art expanded, management hired announcers, producers, salesmen, etc., and many vice-presidents were added to the confusion. The engineer, who made this all possible, soon found that his pleas for more money, shorter hours, and generally improved working conditions, resulted in management either creating a mirage of the "bright future," or as in many cases, the complaining engineer found that he had been fired for even daring to mention these subjects.

The indifference of management to the creative ability and loyalty of the AM pioneer engineer has dangerously lowered their morale, and should make it equally obvious to the younger broadcast engineers who are going directly in TV, that in the future, they too may be glibly discarded by management.

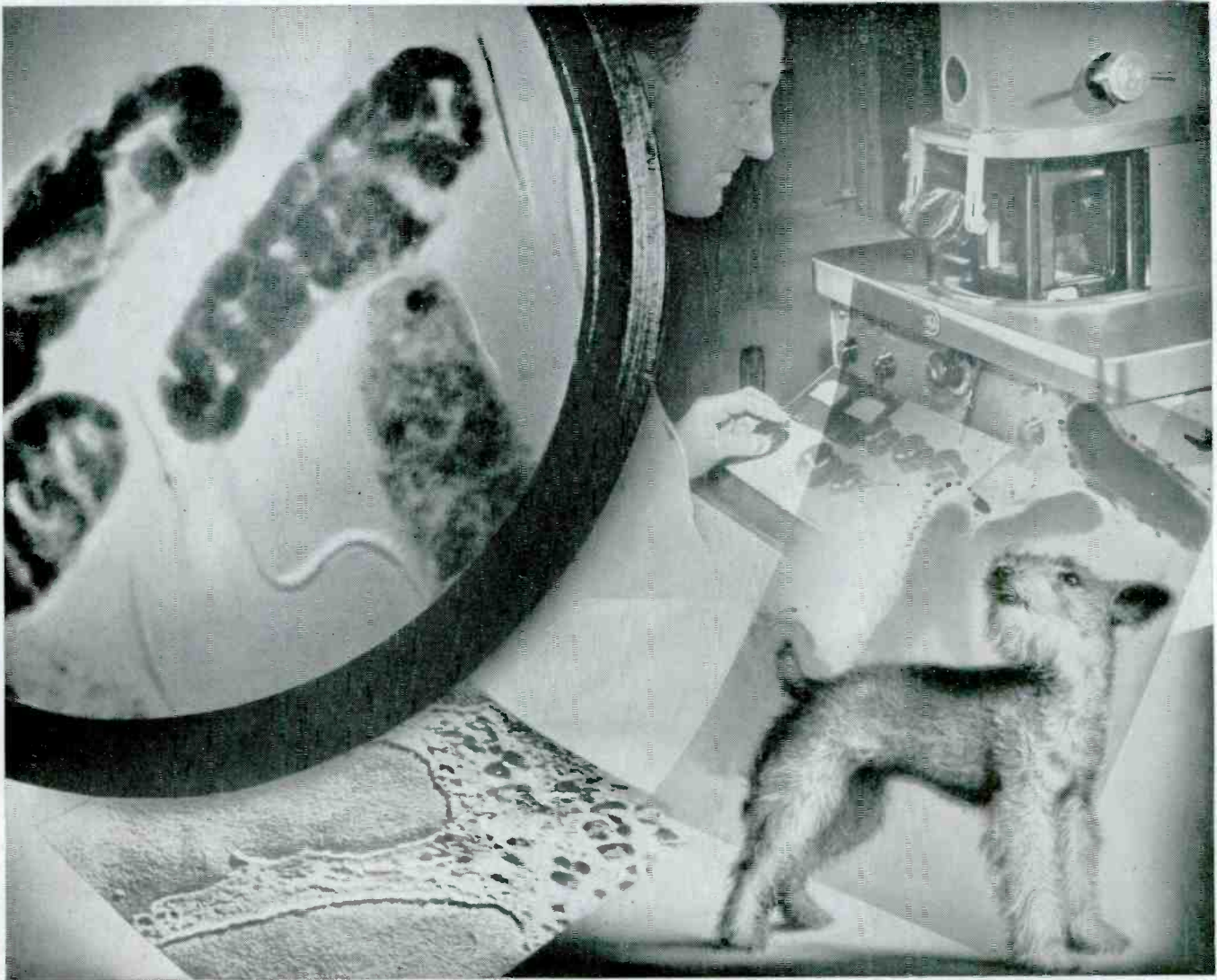
Television, for the most part, has been developed by these same radio engineers who pioneered AM. With strikingly few exceptions, management and its private union of employers known more politely as the NAB, has very obviously decided to scrap the higher priced AM engineers who made the broadcasting profits possible in the first place.

NABET engineers are rightfully proud of their contribution toward the realization of AM, FM, and TV.

The radio engineer, be he in AM, FM, TV, FAX, etc., has the intelligence to realize that only thru a unified stand with his fellow broadcast engineers in one independent union, will it be possible for all the broadcast engineers to gain the recognition which will bring with it their long overdue social and economic justice.

All broadcast engineers look forward to 1949 for the culmination of their desire for one union.

ARTHUR HJORTH
Vice-President NABET



Electron microscope, perfected at RCA Laboratories, reveals hitherto hidden facts about the structure of bacteria.

Bacteria bigger than a Terrier

Once scientists, exploring the invisible, worked relatively "blind." Few microscopes magnified more than 1500 diameters. Many bacteria, and almost all viruses, remained invisible.

Then RCA scientists opened new windows into a hidden world—with the first commercially practical electron microscope. In the laboratory this instrument has reached magnifications of 200,000 diameters and over. 100,000 is commonplace . . .

To understand such figures, pic-

ture this: A man magnified 200,000 times could lie with his head in Washington, D. C., and his feet in New York. . . . A hair similarly magnified would appear as large as the Washington monument.

Scientists not only see bacteria, but also viruses—and have even photographed a molecule! Specialists in other fields—such as industry, mining, agriculture, forestry—have learned unsuspected truths about natural resources.

Development of the electron

microscope as a practical tool of science, medicine, and industry is another example of RCA research at work. This leadership is part of all instruments bearing the names RCA, and RCA Victor.

• • •

When in Radio City, New York, you are cordially invited to see the radio, television and electronic wonders at RCA Exhibition Hall, 36 West 49th Street. Free admission. Radio Corporation of America, RCA Building, Radio City, New York 20.



RADIO CORPORATION of AMERICA

FLYING SPOT SCANNER FOR TELEVISION

By DONALD PIKE

NBC—New York Television Master Control

With the resumption of peacetime television activity and expansion of service, by means of increased number of "hours on the air" and network operations, the need for better and more efficient tools became apparent. The development and research engineers of the industry having fulfilled many of these necessary requirements also exploited the field of color television and through systematic development produced a satisfactory simultaneous color system.* One of the devices developed and used and partly responsible for the successful operation of the simultaneous color system is the Electronic Flying Spot Scanner. The video signal-generation system utilizing a cathode ray tube as the flying spot source in conjunction with an electron-multiplier phototube was chosen because of its freedom from noise, shading, and other spurious unwanted signals. The simplicity and performance of the Electronic Flying Spot Scanner is such that its use as a source of black-and-white television signals for general laboratory use is recommended. By virtue of its flexibility it has already found application in the television studio plant as a substitute for the monoscope, a source of test pattern signals, and also as a convenient method of producing video signals from film slides.** (Fig. 1).

During the 1920s, numerous scientific efforts resulted in the development of the mechanical flying-spot-scanner. Such methods generally operated as shown in figure 2. A brilliant point-light source, usually an arc lamp, is focussed onto the subject to be televised through the apertures of a rotating scanning disc. The apertures are precisely arranged in an eccentric spiral fashion so that as the disc rotates, the light that passed through the outermost aperture consists of only those rays which make up the uppermost edge of the image, or the first scanning line. When the disc has rotated so that the first scanning line has been completed then the second aperture has reached the left hand edge and scans the second line, and so on.

Mechanical systems were abandoned in favor of electronic methods due to the tremendous mechanical and optical problems involved. For example: in order

to produce a 525 line picture at thirty frames per second, the scanning disc must be of large enough diameter to accommodate 525 apertures aligned with extreme precision. The speed at which the disc must rotate is approximately 1800 rpm, and necessitates perfect dynamic balancing of the disc and supporting member and the use of proper bearing surfaces to prevent mechanical distortions

which may tend to displace the scanning apertures. Placement of small lenses in each aperture to increase the efficiency of the optical system presented another problem of accurate alignment. These limitations, and several others, prohibited quantity manufacture and mass use of mechanical devices both for transmitting and receiving purposes, and paved the way for the development of electronic

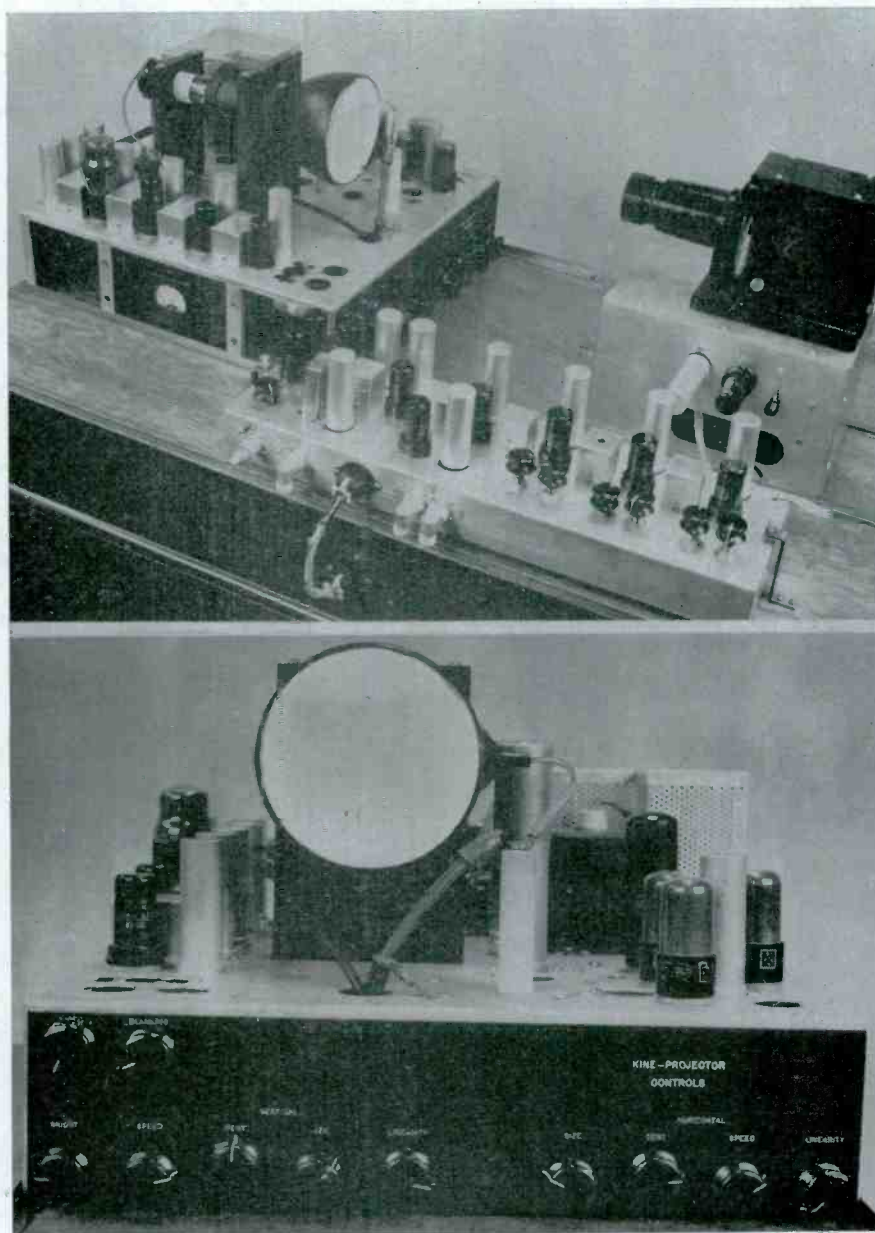


Fig. 1—Top. Fig. 3—Bottom. See test for details.

*Proc. IRE, September 1947, Kell, Ballard, Schroeder, Sziklai.

**V. J. Duke, NBC Staff Engineer.

scanners wherein the controlled motion of electrons is utilized as the scanning agent.

The advantage of electronic scanners, whereby the motion of electrons is used to scan the subject to be transmitted rather than moving mechanical parts, is due to the ease with which the electron can be accelerated to high speeds and controlled with a minimum expenditure of energy.

There are two commonly used forms of electronic pick-up devices where the electron is scanned by magnetic fields, namely: *Instantaneous* and *Storage* methods. The Electronic Flying Spot Scanner utilizing the luminescent screen of a cathode-ray-image-reproducing tube, or kinescope, as the light source, (Fig. 3) is an instantaneous electronic scanning device, and the Iconoscope and Orthicon are of the storage form. The Image Orthicon depends upon both principles for its operation.

In order to further explain the operation of the Electronic Flying Spot Scanner, a comparison with typical Iconoscope operation will be made.

In the production of video signals from film slides utilizing the Iconoscope, (Fig. 4), an optical image obtained from an ordinary slide and slide projector is focussed upon the Iconoscope "mosaic." The "mosaic" is a surface of silver-cesium-oxide deposited upon a mica plate of uniform thickness backed with a thin coat of conductive material. The "mosaic" after processing consists of many extremely small photo-sensitive globules and can be considered, each one, as a small phototube cathode. Each "cathode" is coupled to the external circuit through the electrical capacitance between the globule and the conductive coated side of the mica. The result is a photo-electric image consisting of varying charges corresponding to the initial light values falling upon each globule on the "mosaic." Scanning of the electron beam over the "mosaic" is accomplished and a minute video voltage results.

The Electronic Flying Spot Scanner, (Figures 1 and 5) differs in operation from other television pick-up devices in that the usual processes are reversed. The light source is the luminescent screen of a projection type kinescope. (Fig. 3). An electron beam within the kinescope forms a bright spot of light when it strikes the screen material and is controlled by an electro-magnetic deflection system in such a manner that the spot moves across the screen at the usual television rate producing a visible raster on the face of the kinescope. The raster is then imaged by a projection lens onto a slide or transparency and the transmitted light spot

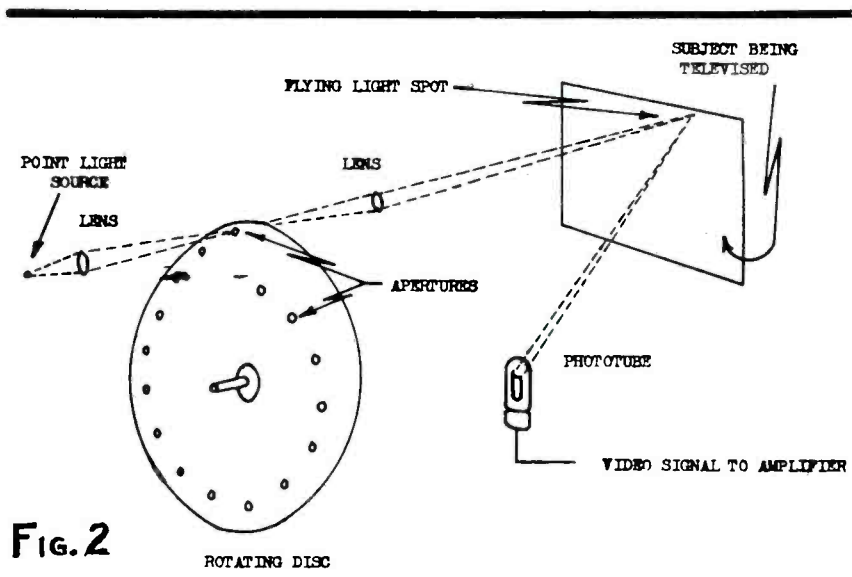


Fig. 2

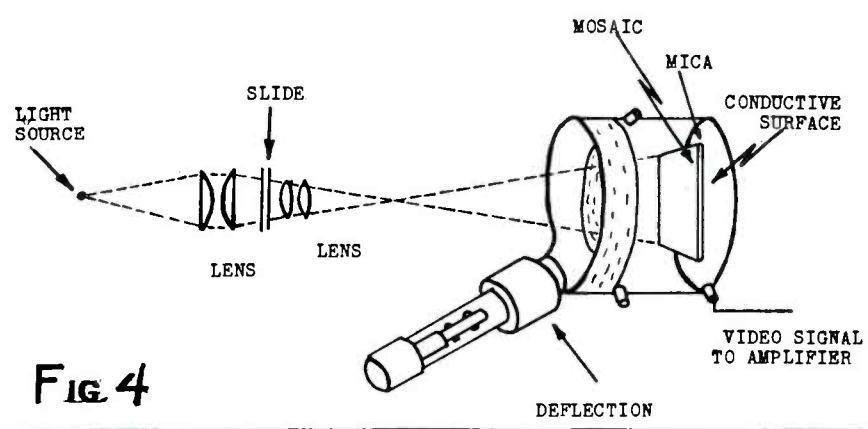


Fig. 4

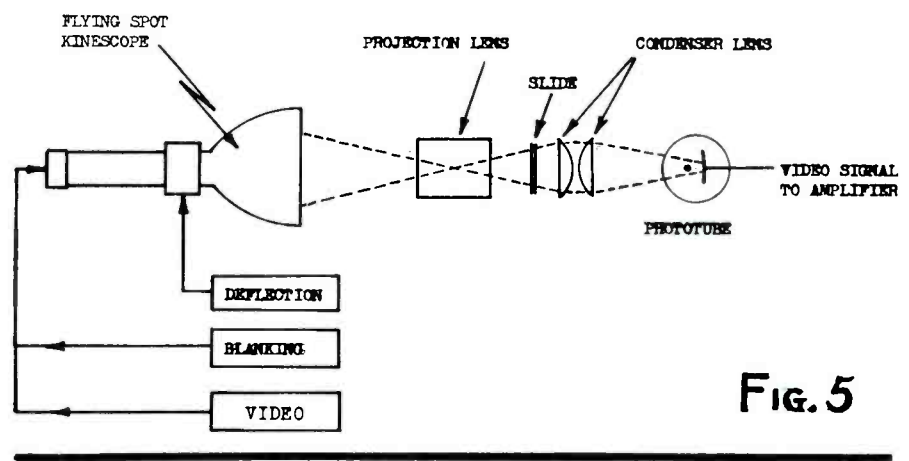


Fig. 5

Top—Fig. 2; Center—Fig. 4; Bottom—Fig. 5—See text for details.

is then collected by a condensing lens system and directed to the multiplier phototube cathode which converts the varying brightness of the "spot" into a video signal whose content is in accordance with the pictorial or subject sequence of the

slide. The video signal produced thus far is next injected into a video amplifier consisting of standard wide-band circuits peculiar to television application and results in a television picture signal of high level and free from spurious and

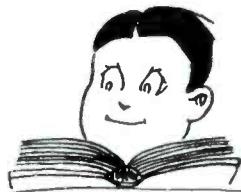
unwanted signals, such as encountered in Iconoscope systems, and containing excellent resolution, 600 lines or better depending on the band-width of the amplifier circuits.

While developing the Electronic Flying Spot Scanner considerable difficulty was encountered regarding the problem of equalization wherein the spot had a tendency of "hangover" as the beam moved across the screen. The brightness of the spot remained constant during its transition but the phosphor screen material did not have the ability to extinguish itself immediately after excitation by the beam. By using very short persistence phosphors in the projection kinescope, the problem of equalization is considerably simplified. However, it is necessary to provide correction for the decay time characteristic of the fluorescent material of the kinescope and a simple resistance-capacitance combination circuit in the video amplifier is inserted to provide for this correction.

The Electronic Flying Spot Scanner readily lends itself to the superimposition of two picture signals by applying one video signal to the grid of the projection kinescope, producing a picture on its screen, and scanning a slide in the manner described.

It has been demonstrated that direct scanning of opaque material such as titles, photographs, printed material, etc., can be accomplished whereby the reflected light from the kinescope is used to produce a video signal from various subject material.

If It Concerns
The Broadcast
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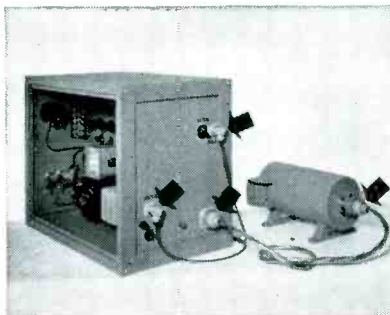
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General Electric announces a new mid-gate thyatron, GL-5663, intended for control and relay applications. Tube is 1½" high, 10 seconds heating time, 500 volt peak forward and peak inverse, 60 milliamperes instantaneous and 20 ma average anode current.

RCA announces new TV camera tripod dolly which adopts the field-type TV camera for studio work.

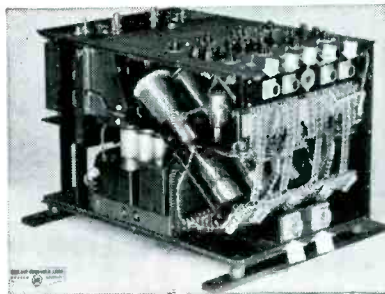
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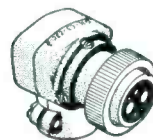
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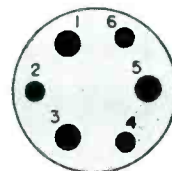


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Review of Current Technical Literature

By Lawrence W. Lockwood

Bell Laboratories Record—Sept. 1948

NEW VACUUM TUBES FOR THE VERY HIGH FREQUENCIES—E. Shower

A short discussion of the 5530 and 5541 tubes.

Communications—September 1948

WHAT IS WRONG WITH TV SOUND?—S. Helt

Full capabilities of studio TV audio facilities attained in few instances by the telecasters. Wide band 50-15,000 cps aural system standards demand extreme caution in handling and maintaining of microphones, dollies, and other equipment to eliminate studio noise, a serious cause of quality deficiency. Studio design with careful consideration of scenic sets, another

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video sound problem which must be overcome to assure fidelity outputs.

THE WNOW AM-FM INSTALLATION—W. Weaver and N. Kitchen

Cinder block building housing transmitter located in Penn. Woodland are 830 feet above sea level. Four section FM pylon erected atop 154 foot AM tower.

TRAVELING LIGHT ON REMOTE ASSIGNMENTS—G. Drisko

Compact, lightweight unit provides extremely flexible remote facilities affording low level mixing of three mike channels with sufficient battery power for a 30 minute show if AC fails.

CQ—Sept. 1948

UNDERSTANDING SIMPLIFIED SS—R. Norton

Simplified discussion of the theory of single sideband transmission.

Proceedings of the IRE—Sept. 1948

THEORY OF FREQUENCY MODULATION NOISE—F. Stumpers

The energy spectrum of frequency modulation noise is computed for different ratios of signal to noise. The suppression of the modulation by noise is also discussed.

AN EXPERIMENTAL INVESTIGATION OF THE RADIATION PATTERNS OF ELECTROMAGNETIC HORN ANTENNAS—D. Rhodes

A systemized set of radiation patterns of rectangular electromagnetic horn antennas have been measured and are shown as a function of electric and magnetic plane flare angles and radial length of the horn. This set of patterns reveals many characteristic properties which may serve as a guide in the design of electromagnetic horn antennas.

TELEVISION ANTENNA AND RF DISTRIBUTION SYSTEMS FOR APARTMENT HOUSES—H. Kallmann

The requirements of television antenna rf distribution systems for apartment houses are discussed. Amplifiers and distribution networks are described which supply boosted signals of all available stations on their original carriers to all receivers in an apartment house.

A BROAD BAND HIGH LEVEL MODULATOR—R. Rockwell

A class B modulator has been devised to assure a broad pass band having uniform gain with quite low distortion and noise level. Unique features include (1) a cathode follower, (2) no modulation transformer and (3) broad band feedback.

THE CATHODE COUPLED CLIPPER CIRCUIT—L. Goldmuntz, H. Krauss

The cathode coupled amplifier circuit is used as a clipper with some advantages over the conventional pentode and diode types. Regenerative feedback is shown to give considerable improvement in the clipping action and design methods are outlined for obtaining optimum clipper performance.

Radio and Electronics—Sept. 1948 *(New Zealand)*

FREQUENCY RESPONSE OF RESISTANCE COUPLED AMPLIFIERS—

This article explains why all resistance coupled amplifier circuits show a falling off of response at high and low frequencies and shows how this falling off can be successfully combated in order to achieve the desirable state of affairs usually described as "flat from 20 to 20,000 cycles" a second.

RCA Review—Sept. 1948

AUTOMATIC GAIN CONTROLS FOR TELEVISION RECEIVERS—R. Wendt, A. Schroeder

The general theory of automatic gain controls for television receivers is discussed. Several specific circuits are described in detail with the advantages and disadvantages of each.

THE PACK TRANSMITTER—J. Hathaway and W. Hotine

A portable, low-powered, high quality, high frequency transmitter is described which has its application in the remote pickup of sound broadcast programs when extreme mobility and freedom of action are required.

ELECTRO-OPTICAL CHARACTERISTICS OF TELEVISION SYSTEMS—O. Schade

This paper consists of an introduction and four parts (1) characteristics of vision and visual systems (2) electro-optical specifications for television systems (3) electro-optical characteristics of camera systems, (4) correlation and evaluation of electro-optical characteristics of imaging systems.

Tele Tech—Sept. 1948

TV CIRCUITS CAUSE INTERFERENCE

Radio reception marred by video and scanning circuits; RMA engineering report issued by I. Kaar, chairman, committee on TV receivers, recommends improved design.

INDIRECT MICRO WAVE RELAY SYSTEM—R. Wakeman

Point to point passive repeater system using flat surface reflectors requiring no external power source facilitates relays over obstacles from remote pickup to transmitter.

NEW DESIGN FOR MEDIUM DEFINITION TV CAMERA SYSTEM—J. Sherman

Equipment consists of special control panel unit and iconoscope with motor powered focussing; suitable for experimental, lab use.

Audio Engineering—September 1948

POLYETHYLENE PHONOGRAPH RECORDS—O. Smith

Describing the many superior features of this plastic as a record material.

THE PROBLEM OF SOUND DISTRIBUTION—O. Angvine Jr., R. Anderson

Valuable data on planning sound installations.

ELEMENTS OF RESIDENCE RADIO SYSTEMS—C. McProud

A push button operated, fixed tune FM receiver serving as a high fidelity source of signal for home radio systems.

DESIGN OF AMPLIFYING CRYSTAL UNITS—S. White

Practical methods of building crystal amplifier units.

FM TUNING INDICATOR—L. Keim

Features of a new indicator tube for FM receivers.

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W1MPS George R. Townsend
 W1NKY Al Sagan
 W1NMS James McMahon
 W1OEM Ronald Berube
 W1OFZ Donald Shaw

Mohawk

W2AIX Ty Schumacher
 W2AVG George Hoffer
 W2AVJ Roy Stigberg
 W2DUH Joe Decker
 W2EGN Emil Nickle
 W2GM Neut Barnes
 W2HOA Tom McDermott
 W2HUB Ralph DeGraff
 W2ILA Stan Pawlic
 W2JHQ Frank Boudreau
 W2JRY Howard Wheeler
 W2KUF Maynard Cummings
 W2LOJ Elmer Scholes
 W2LRW Marcel Reeds
 W2NBF Joe Gagne
 W2OVY Bob Vadney
 W2PGV Don Morey
 W2TTN Gus Cooper-Smith

New York

W1ACQ John O'Neill
 W1KZ/2 Al Bradley
 W1QBO Geo. Anderson
 W2ADF Joe Silva
 W2AEB Irving Grabo
 W2ALB Jerry Sellar
 W2AMG Paul Gallant
 W2AMS Hank Treger
 W2AUR Ed. Stolzenberger
 W2BUY Bill Simpson
 W2BXY Ed Gundrum
 W2CCC Ted Cain
 W2CHK Gil McDonald
 W2CRA Andy Waddell
 W2DD Dud Connolly
 W2DIT Jack Flynn
 W2DZR Harry Greleck
 W2EP Art Holub
 W2ESP Maurice Kamke
 W2EYQ Vic Tervola
 W2FHR Millard Martin

W2FZQ Ed Geiger
 W2GVP T. Danielson
 W2GYJ A. Duffy
 W2HEJ Mel Lewis
 W2HHK Bert O'Leary
 W2HIO Phil Falcone
 W2HTW Merle Worster
 W2IP Harold Campbell
 W2IGB Bob Massell
 W2IOX Bob Johnston
 W2IPG Bill Pooler
 W2KB Ed Schabbehar
 W2JKO Sal Salanitro
 W2JRS Art Griffin
 W2KK G. O. Milne
 W2KP Nick Hagmann
 W2KCY A. J. Perry
 W2KJG Pat Simpson
 W2LYC Bill Teitz
 W2MME Tiny Sturhann
 W2MMS Willy Storrs
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 W2ND Chas. Younger
 W2NT Jim Hackett
 W2OMT Jim Cooke
 W2PRD Pete Narkon
 W2RK Chas. Francis
 W2SNN Vince Casselli
 W2TGW Ralph Bennett
 W2TXH Bill Haerer
 W2UUL Jack Ramsey
 W2ZA Geo. Milne

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 W2AKQ Stan Peck
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 W2CHZ Howard Eitelbach
 W2CQL Gene Hand
 W2EGD C. A. Snell
 W2HFZ Hank Folkerts
 W2JEA Cliff Paul
 W2KO Bill States
 W2LIQ Robert Potter
 W2NX Ed Costello
 W2PD Frank M. Hanna
 W2PMV Lou West
 W2SPK C. E. Read
 W2TFH Andy Hammerschmidt

W2TTC Larry Schwab
 W2UIE N. Sprecher
 W2WQ Bill Hotine

Hudson

W1ZL Carl Weidenhammer
 W2ADD Paul Reveal
 W2ADQ Don Hale
 W2BQJ George Ruckstahl
 W2CTQ Dick Davis
 W9DAI/2 Bill Flynn
 W2EOA Chas. Kibling
 W2HJY Jim Carter
 W2HTA Gene Clark
 W2HXQ Kay Kibling
 W2JW Al King
 W2JIC Cy Getter
 W2KGO Jim O'Connor
 W2KJF Bill Sakal
 W2KJJ George Riley
 W2KPG Howard Donniez
 W2KSC Alex Stamford
 W2LSS Bob Bergen
 W2LUK Danny Conover
 W2LZD Ed Scatterday
 W2MHP Bob Albrecht
 W2OHE Press Yoemans
 W2RJC Gordon Shaw
 W2SH Herman Berger
 W2VFM Hax Hadden

Syracuse

W2JY Wm. Cheley
 W2LYJ Thomas Crimmins
 W2PBP Earl Williams
 W2PGS John Stone
 W2PIV Herbert Rosenthal
 W2PLZ Ted Roberts
 W2PXA Donald Muir
 W2QAP Alf Carlson
 W2QVR Leo Harris
 W2QZK Robert Ardner
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To Page 14

GENERAL ELECTRIC FM TUNER

Engineers rave about it!

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SPECIFICATIONS (These specifications prove beyond doubt that this FM tuner excels... no other FM tuner on the market can compare.)

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Nominal voltage, 110 at 50-60 cycles, 65 watts. Has built-in tapped transformer with selector switch for voltages: 110 (103-117); 125 (117-133); 150 (140-160); 200 (185-213); 225 (213-234); 245 (234-260).

OPERATING FREQUENCIES:

88 mc to 108 mc. 300-ohm input for folded dipole antenna. Also has built-in antenna.

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R-F amplifier, 6AG5; Oscillator, 6AK5; Converter, 6AK5; 1st I-F amplifier, 6SC7; 2nd I-F amplifier, 6SV7; Limiter, 6SH7; Discriminator and audio amplifier, 6AQ7GT; Rectifier, 5Y3GT/G; Dial light Mazda No. 44.

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 W2BGN Ken Gardner
 W2BHM Wilfred O'Brien
 W2BIW Ed Stiles
 W2CNT Ed Schum
 W2DOD Elmer Grabb
 W2EB Yoe Seiler
 W2FBD Bert Allis
 W2PPQ Benny Kilpatrick
 W2PWY Charlie Snyder
 W2PYE Ed Pettingill
 W2PZH Walt Malone
 W2QCF Fran Sherwood
 W2QXH George Mousteller
 W2QZY Bob Tracy
 W2REA Craig Williams
 W2REC Ormond Bullis
 W2RHZ Alex Gressens
 W2RLE Tony De Lucia
 W2ROB Arthur Kelly
 W2RVS Hank Boyce
 W2TXB Al Keltz
 W2UBU Leroy Hartman
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 W2VVO Howie Mouatt
 W2WMD Dick Sanderl
 W8ZPC Charlie Leniak

St. Lawrence

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Pittsburgh

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 W3BCV William Sabo
 W3EDK Fred Claus
 W3KHL Clarence Fabian
 W3KJY Howard McClelland
 W3KPS Earl Sneathen
 W3KYO Kenny Walburn
 W3LFO Elvin Solley
 W3LJZ Clinton Prewitt
 W3LUK Gus Saldon
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 W3MUV Babe Stuebgon
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 W3CKH W. L. Simmons
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 W3MRK Jack E. Phillips
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 W6WIC K. W. Grinde
 W6YMD W. B. Guimont
 W6YRN W. H. Williams
 W6YVN J. A. Pierce

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 W7BSK/6 Bernard
 W6CRO H. C. Dunton
 W6DZP Sorenson
 W6ECW H. V. Kramer
 W6FVG M. D. Case
 W6GIS O'Neil
 W6IY Parkhurst
 W6MY Jefferson
 W6NXC Maxwell
 W6RRR Andresen
 W6UO Parks
 W6WOK Woods
 W6WPL Nichols
 W6YDC Martin

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 W0DCQ Al Maller
 W0EUT Bob Rudd
 W0GTC Roy Glanton
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W8JVN	Earl Holl
W8KJI	R. J. Plaisted
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W8RU	J. A. Cheeks
W8WBN	F. H. Anthony
W8WWB	C. Ames
W8WXU	H. A. Spiller
W8DUC	C. Bidlack
W8CCP	T. S. Van Deusen
W8DRE	D. E. Irwin
W8KLP	C. A. Draper
W8OOI	J. F. Ulrich
W8OOX	R. Macza
W8NYN	M. B. Bennett
W8TUR	J. Egan
W8VWD	C. Carment

Detroit

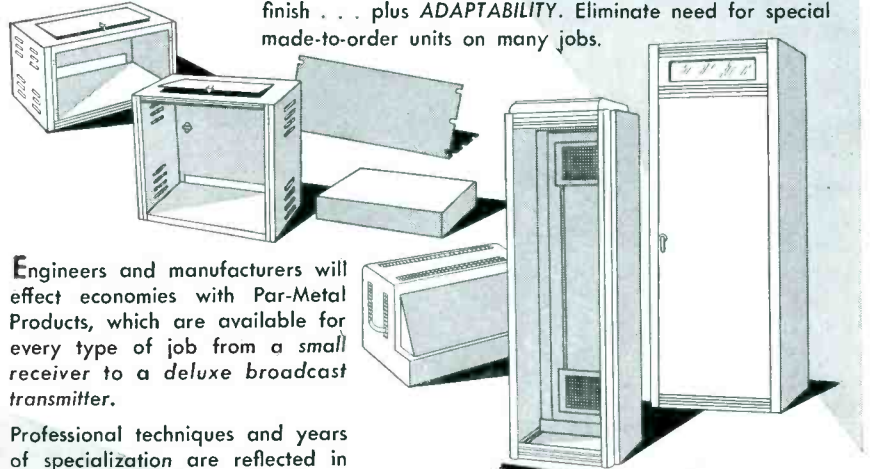
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W8UVH	Hal Heatly
W8ICM	Roy Miller
W8SX	Jim Norton
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W8CAT	Dick McNutt
W8YKC	Vince Bartell
W8VOO	Bill Ward
W8GTZ	Alex Doran
W8HFO	Roy Bridgeman
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W8NOH	Larry Heath
W8MDH	Wib Bruckner
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W8OHG	Bob Lynch
W8KI	Ken Robinson
W8RTZ	Cliff Ries
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W4JJO	J. B. Werkman, Jr.
W4JXM	C. L. Troutman
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To Page 17

MEET THE NABET EXECUTIVE BOARD AND FULL - TIME OFFICERS



Left, George Maher, Mid-West National Representative.
Center, Harry Hiller, National Secretary-Treasurer and Retiring Executive-Secretary.
Right, Cliff Gorsuch, Eastern National Representative.



John Hogan, Chairman Washington Chapter, and member of the NABET Executive Board

Seated, NABET President John R. McDonnell, member of the Executive Board; Vice-President Arthur W. Hjorth, Chairman Chicago Chapter and member of the Executive Board. Standing, Dick Parks, Chairman San Francisco Chapter and member of the Executive Board; Edward Lynch, Chairman Rochester Chapter and member of the Executive Board; Clarence Westover, Executive Secretary-elect.



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W9TBC	J. Ciezadlo
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W9ZWU	F. H. Kohnitz

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W0PZD	Aubrey Blake
W0YYO	Charles Eining
W0FA	Glen Glasscock
W0DSD	Al McClellan
W0LNB	Stan Neal
W0NWW	Kenny Raymond
W0IPH	George Anderson
W0FKQ	Garland Dutton
W0LYJ	Raymond Green
W0OLL	Conley Holcomb
W0PO	Carl Nesbitt
W0QKW	Russ Thompson
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"NETWORK" TV TRANSMITTER

A new 500-watt television transmitter, facilitating the extension of television to cities of 50,000 and enabling smaller stations to act as network outlets or to originate their own programs, is now in production and will be ready for delivery in the Fall, it was announced by the RCA Engineering Products Department.

Used with this transmitter (Type TT-500A), a three-section RCA Super Turnstile Antenna, which has a gain of approximately four, can radiate an effective output of about 2,000 watts. This will provide adequate coverage over a television service area of 1400 square miles.

Very compactly built, the entire transmitter is housed in two identical cabinets which can be installed as one unit measuring only 56 inches wide, or arranged as individual cabinets, each 31 inches wide. One of the cabinets contains all the components of the picture transmitter, while the other contains those of the sound transmitter.

The video section of the TT-500A con-

sists of the carrier-generating circuits, video amplifiers, modulator power supplies, and the necessary control circuits. High-level modulation is employed in the power stages, permitting simple meter tuning of the preceding r-f stage as straight-forward class C amplifiers. There are no critical adjustments, and neutralization is required in only one stage—the power amplifier.

Another feature of the video portion of the transmitter is the clamp-circuit type of d-c insertion used in the grid circuit of the modulator, which automatically maintains the proper black level.

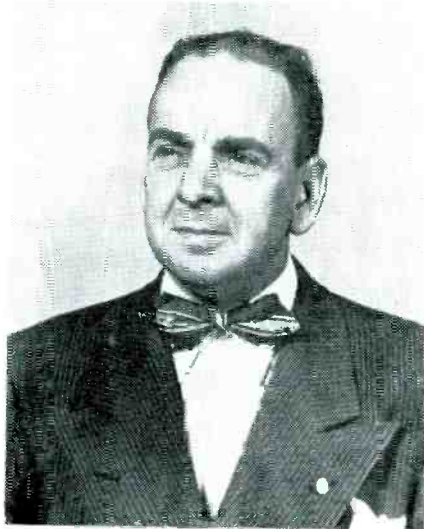
The sound section of the transmitter consists basically of an RCA 250-watt FM sound transmitter (Type BTF-250A). It employs the RCA "direct FM" exciter, which automatically maintains constant center-frequency stability. All the tuning controls and switches are conveniently located in the front of the cabinet at hand level.

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Holiday Greetings

From the Staff of

THE BROADCAST ENGINEERS' JOURNAL



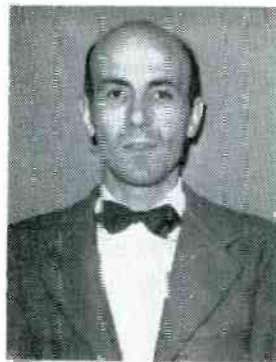
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Holiday Greetings

from

BILL HERSON

to the

WASHINGTON NABET GANG



Season's Greetings

and thanks especially to

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RAY GLENDON
GENE LYNCH
BILL POOLER
JOE SILVA
HOLLIS YOUNG

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HAROLD FORRY
GEORGE KECK

W
O
R

DICK QUODOMINE

from

Charles Paul

EACH YEAR I CONSIDER IT A GREAT PLEASURE TO WISH THE ENGINEERS A VERY MERRY CHRISTMAS AND A HAPPY AND PROSPEROUS NEW YEAR!

JACK (JOHN PATRICK) COSTELLO

with every good wish,

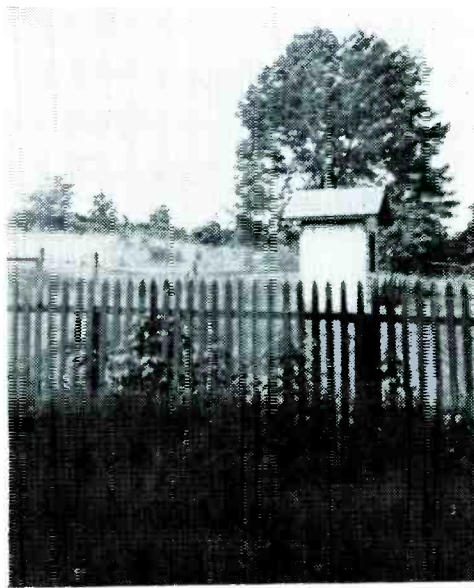
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The Season's Best To Everyone
from Walter, and Bob Hoops

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Frank Gallop



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CLYDE KITTEL



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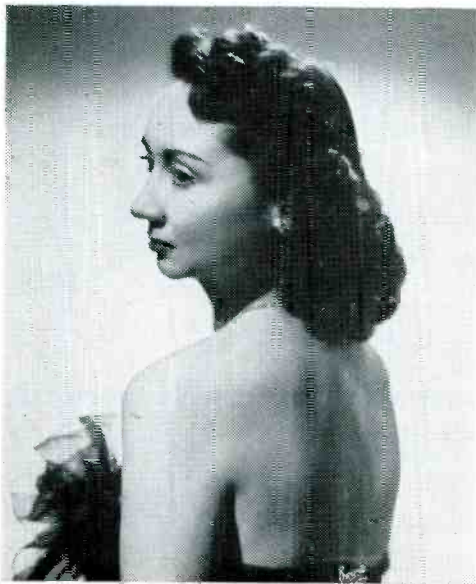
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John Gart



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APPRECIATIVELY

Jack Barry - Dan Ehrenreich

"JUVENILE JURY"



ROBERT

and

JESSICA

MAXWELL





*Thanks to
all the
Fellows!*

**CHARLOTTE
MANSON**

WYNN WRIGHT ASSOCIATES



Greetings, Fellows

Prescott Robinson

WOR
News Caster

*Season's Greetings
and Thanks!*

CY HARRICE

NEW YORK

Len Sterling

With fond memories
of Studio 5-B

LYLE VAN

WOR Newscaster at 6
p.m. - Kaltenborn's
announcer NBC

Owner of Station WDLF,
Deland, Florida



Thanks, Fellows!

BILL SLATER



Greetings

STAN LOMAX

WOR Sports

wassail, wassail, gentlemen
and many kudos^o to you*

WNBC NEW YORK at 660 k. c.* 

THE NATIONAL BROADCASTING COMPANY IN NEW YORK

* *singing of carols, etc. from house to house
especially at Christmas time*

^o *praises, extolations, glorifications*

* *and thanks for keeping it on frequency!*

KENNETH BANGHART . . .

REPORTING FROM THE NBC
NEWSROOM IN NEW YORK



—*Saying Merry Christmas
and a Peaceful
New Year.*

Your Story for EVERY day:

*Best Wishes and
Good Reading*

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Complete stock of nationally advertised products including Superior Electric Powerstats, Ohmite Resistors, Greenlee Punches, Merit Transformers, National Co., Sangamo Condensers, Triplett Meters and Middletown Metal Products.

EVERY GOOD WISH

f r o m

The Collyers



MARIAN SHOCKLEY

BUD COLLYER

TV TRANSMITTER

From Page 17

The control console provides the operator with complete fingertip control for both operation and monitoring of the transmitter. It consists of two units—one for switching and the other for monitoring. The switching panel includes a decibel meter for aural monitoring, and other controls essential to starting and shutting down the transmitter. The video monitor contains a 10-inch kinescope which reproduces the picture being transmitted, and a 5-inch cathode-ray oscilloscope tube which displays oscillograms of the video waveforms.



The new 500-watt television transmitter (RCA Type-TT500A) shown above, developed by the RCA Engineering Products Department, is designed for operation in cities of about 50,000 population and enables smaller stations to act as network outlets or to originate their own programs. Very compact in construction, the transmitter is housed in two identical cabinets, one containing the video picture transmitter, the other the audio transmitter. The control console in the foreground provides the operator with complete fingertip control for both operation of the transmitter and monitoring of the picture and sound output. It contains a 10-inch kinescope which monitors the transmitted picture and a 5 inch cathode-ray oscilloscope tube which displays oscillograms of the video waveforms.

Both the picture tube and oscilloscope input circuits of the console can be switched to the transmitter input or to the modulator output, or even to the detector of a visual monitor converter and modulation converter.



***SOMETHING
NEW HAS
BEEN ADDED***

**RADIO & TELEVISION
DIRECTORS GUILD**



1949

YEARBOOK

See the RADIO and TELEVISION DIRECTORS GUILD 1949 YEARBOOK

for Engineering credits on all Network Programs.

Copies obtainable 114 East 52 Street.



Flowers for the LiVIing

*The laugh line may wither and story line pall
 The engineer knows 'cause he hears and sees all
 But he works with his patch cords and watches VI
 And he's plugging with you that the program not
 die.*

*Without his sure hand and his knowledge of gain
 There's many a star would be out in the rain
 So here's to you boys on panel and table
 I'll sing out your praise as long as I'm able.*

WALTER KIERNAN

American Broadcasting Company

AM - TV - and programs for sale reasonable



Best Wishes

f r o m

D O N

M a c L A U G H L I N



Best Wishes

to our

Engineers

LUCILLE WALL

KARL SWENSON

o f

L O R E N Z O J O N E S



BING





Greetings

Harrison Wood

*This Changing
World*

Best Wishes from

STAATS COTSWORTH

THE STORE FOR Savings

- Refrigerators
- Television
- Radios
- Vacuum Cleaners
- Washing Machines
- Ranges
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- Luggage
- Diamonds
- Jewelry
- Bicycles
- Giftware

We're mighty proud of the hundreds of friends we've made among the readers of Broadcast Engineers. Here in our handsome new building we display a tremendous amount of merchandise . . . the finest products of America's largest makers — all offered at the lowest possible prices. Come in and let us show you the "special values" . . . (which we always have in reserve for readers of Broadcast Engineers). You'll appreciate the advantages of shopping . . . and saving . . . at Monarch-Saphin.

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"----- I said,
MERRY XMAS



from the Feedback Club"



- TEX ANTOINE
- KEN BANGHART
- RAY BARRETT
- MEL BRANDT
- JACK COSTELLO
- BOB DENTON
- DICK DUDLEY
- ARTHUR GARY
- BEN GRAUER
- RAD HALL
- ED HERLIHY
- WAYNE HOWELL
- CLYDE KITTELL
- BILL MALCOLM
- CHARLES F. McCARTHY
- DON PARDO
- LIONEL RICAU
- PETER ROBERTS
- BOB SHERRY
- ROGER TUTTLE
- BOB WARREN

Retirement Income — Part II. — By ED. STOLZENBERGER

It behooves the individual to prepare for his eventual retirement. In making investments, he must protect himself against inflationary trends. There are many and varied hedges. Any scarce item will do this for you, such as buying up new-used cars, real estate, etc., but this type of hedge requires much personal time, attention, specialized knowledge, and large amounts of money, and is not feasible for the average individual.

Many persons have felt that the major stock exchanges hold the key to the problem, but they recognize that the risk is unfavorable unless they can answer the questions: *When to buy? What to buy? When to sell?* We will cover these questions in that order.

When to buy? The right time to buy is at regular intervals with equal dollar amounts. This is known technically as dollar averaging. The long term lower average cost per unit of stock results from the fact that when prices are high, you are purchasing a fewer number of shares at the high price, and when the price lowers, you get more shares for the same money. The overall result is that your average unit cost is more favorable. The important thing is that this result is automatic. It results from periodic investment of given dollar amounts. No magic, inside tips, or other manipulation is required or desired. *The right time to buy is at regular intervals.*

What to buy? When to sell? When to switch? These questions directly follow, and help confuse the person trying to adequately but safely provide for his eventual retirement. Continual research and investigation is required to provide these answers, and only the very wealthy can afford to make these investigations for themselves. Several far sighted countries of Europe solved this problem thru the organization of investment cooperatives, which combined the small investments of individuals and which therefor could collectively afford to employ the necessary research staffs and specialists to keep in touch with all the economic trends. The co-op's funds are invested in diversified industries. The co-op member, in turn, owns a share of the cooperative. The portfolio of the co-op may be continually turning over, but the individual continues to hold his certificate of stock in the cooperative. The investor with only \$1,000 in such a cooperative, actually has his money invested in up to 250 different companies among dozens of industries. This is the practical limit of safeguarding investments, minimizing risk, and assuring highest possible rate of return. Caution: Do not confuse with *forced savings plans* which penalize the investor should he wish to convert to cash prior to the term-maturity or dollar-maturity specified in his forced-savings contract. Some forced savings plans may also have characteristics of investment co-ops because they, in turn, reinvest the saver's money in stocks, mortgages, etc. These forced savings plans are not usually traded in the public stock exchanges. These forced savings plans are suitable to some people, and the individual must make this decision for himself. They are mentioned here because their penalty features and redemption features are not typical of investment cooperatives, and this important distinction should be kept in mind.

There are many well known investment cooperatives which have operated in this country for many years. They are known as mutual open-end investment trusts, and your broker can

provide you with a prospectus on any of them. Most investment trusts operate as "regulated trusts" under the Investment Trust Act of 1940. These investment trusts provide the specialists and management staffs that determine the answers to *What to buy? When to switch? and When to sell?* You purchase these co-op shares at the net value of their holdings plus a charge that varies from 8½% downward, depending upon the amount of the investment. This is your only charge. There are no redemption fees. The buying charge covers broker commissions, transfer taxes, etc., and brokerage commissions during the period you hold the co-op certificate. When you choose to sell, your redemption price is the "net asset value" of the holdings, determined at noon and 3 p.m. daily, and published daily in the New York Times and other papers. Up to 4% and 5% returns are not uncommon. Some investment trusts offer the purchaser the option of automatic reinvestment of dividends, out to the third decimal of a share, which in turn earn dividends, compounded quarterly.

We have attempted to give one of the possible answers to *When to buy? and What to buy?* Investment Trusts are worthy of your most careful consideration.

DO WE HAVE YOUR ZONE NUMBER?

BURKETT, SANBORN & WOODIN, INC.

INVESTMENT SPECIALISTS

*Augment your retirement plans with
Mutual Investment Trust Funds
which are skillfully managed Investment
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Periodic Payment Plans Without Penalties

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In the Spirit of the Yuletide - Greetings to the Engineering Staff

FRANK BLACK

Thanks Fellas



DICK CHARLES

Production Director - American Broadcasting Company

A.S.C.A.P. Author-Composer - "Along the Navajo Trail" - "Mad About Him Blues" - "I Tipped My Hat"

Best Wishes

CECIL & PRESBREY,
Incorporated



247 PARK AVENUE

NEW YORK CITY



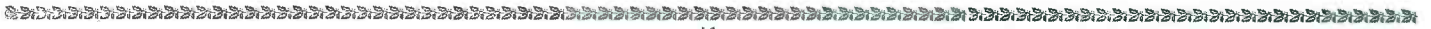
ALLEN PRESCOTT

Thanks!



FRED ALLEN

The Ford Dealers' Program

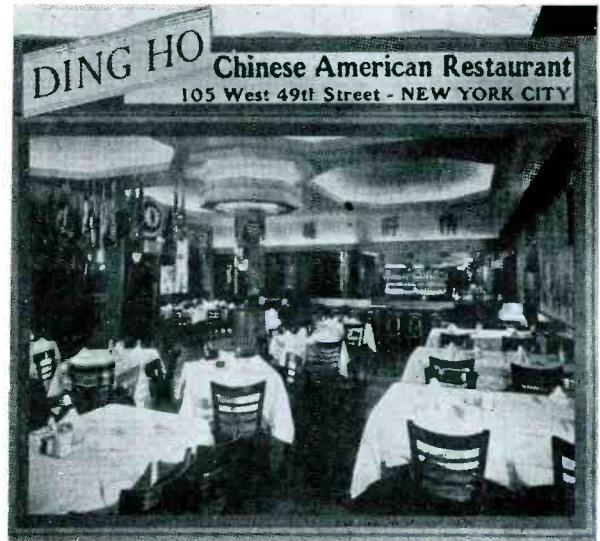


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With Compliments . . .



Bar — Cocktail Lounge





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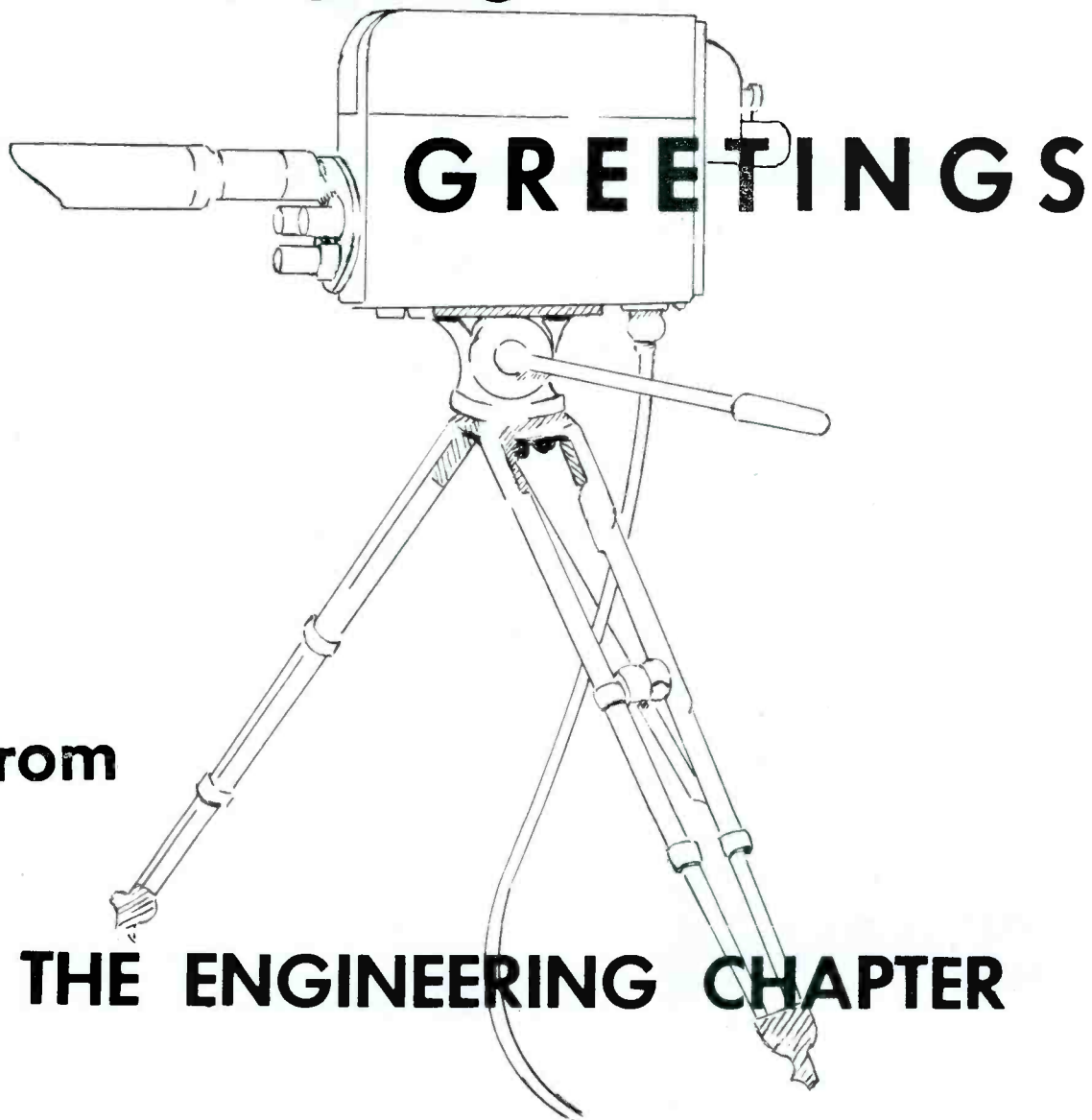
American
Federation
of
Radio
Artists



NATIONAL



SEASONS



from

THE ENGINEERING CHAPTER

**NATIONAL ASSOCIATION OF
BROADCAST ENGINEERS & TECHNICIANS**

The

ENGINEERS
N.A.B.E.T.

of

WOW

26

YEARS OF
PUBLIC SERVICE

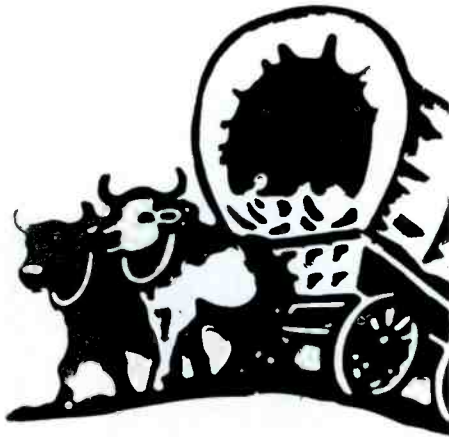
Basic NBC Affiliate

Extend the Season's Greetings
To Radio Engineers Everywhere!

RADIO STATION WOW, Inc.

590 KC OMAHA 5000 WATTS

JOHN J. GILLIN, JR., President



OMAHA NEWS

By Louis De Boer

Merry Christmas fellas, from the Omaha Chapter. It is the wish of the Omaha Chapter that NABET will grow and flourish in the coming year.

There isn't much news from Omaha for this month, however, we do have a few important highlights.....

Al Maller, S.E., is the proud father of a 5 pound 7 ounce baby boy. The little fella's handle is Robert James.

The late Indian Summer weather in October found the boys in the chapter enjoying drives in the country, putting up storm windows, and general yard work. This weather

made it easy for the field men who had to go out in the country with the farm director; they certainly hoped that it would last awhile longer, but it doesn't take long to run into bad weather in Nebraska.

No news from KSWI at this time. The new correspondent from KSWI is Roger Peters, who is a very active ham on 2 meters.

Congratulations:

Birthdays: Cy Hagrman, November 25; Al Maller, December 4.

Started at WOW: Glenn Flynn, October 1, 1935; Mark McGowan, December 18, 1937.

Wedding Anniversaries: Louis DeBoer, December 5, 1942
That's all the news for this time, see you next month.

J. B. Distributing Co.

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Electronic Equipment Distributor

Broadcast Supplies a Specialty

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HI MEN!

Thanks

Jim Gibbons

ABC-WMAL
Washington



In behalf of students and graduates of the National Radio Institute, and the N. R. I. Staff, I extend most cordial Season's Greetings to the N. A. B. E. T.

J. E. Smith
President

NATIONAL RADIO INSTITUTE, WASHINGTON, D. C.



Best From
"ROAMIN"
BILL BERNS

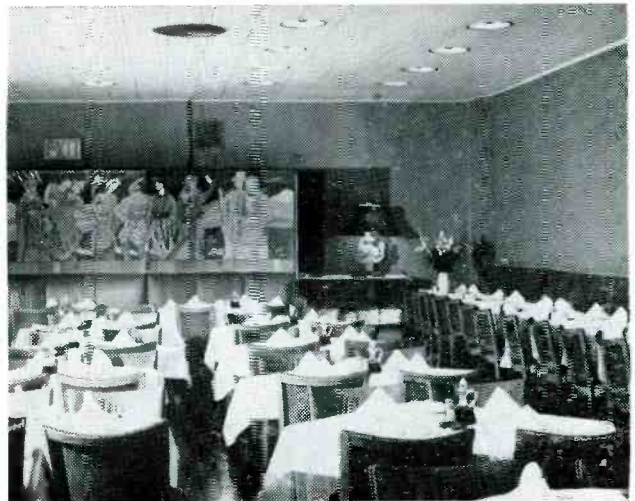
Greetings from

HUBER HOGE & SONS
and
SIDNEY WALTON

73 From an Ex-Engineer
and Brass Pounder



JOHN B. GAMBLING



OLD CHINA
137 WEST 52 STREET
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Famous eating place • Exotic Chinese cooking
 Well known to New Yorkers

Air-Conditioned
 Open All Night

Muzak
 Phone Circle 7-8963

Best Wishes
and
Thanks

LON CLARK



Without you fellows'
 help, it wouldn't be

Poole's Paradise

BOB POOLE

WOR - MUTUAL



EVERY SUNDAY ON NBC

With

MARY LIVINGSTONE • PHIL HARRIS
ROCHESTER • DENNIS DAY
DON WILSON

Writers

SAM PERRIN • MILT JOSEFSBERG • GEORGE BALZER
JOHN TACKABERRY

Producer

HILLIARD MARKS

Agency

Batten, Barton, Durstine & Osborne, Inc.

Sponsor

LUCKY STRIKE CIGARETTES

Jack Benny

Merry Christmas
and
Happy New Year To You's
From Us's

JOHNNY BRADFORD
JEANNE WARNER
RAY MICHAEL
ED McINTYRE

NBC

WNBW



Greetings from
"E I D
in Washington"

KENNEDY LUDLUM
NBC - Washington
Peter Paul Candy
Bond Clothes
Hahn Shoe Stores
General Foods
Kraft Foods
Hunting & Fishing News
Sportsman's Lodge—
WNBW—TV



Merry Christmas
to the Boys Behind the Dials
TRIS COFFIN



Thanks very much
—from—
BAUKHAGE

Detroit.....

NABET Convention City

AGAIN AND AGAIN.....To yours truly, Sunday is usually a day of rest and relaxation.....a day that always follows a rather rigorous Saturday evening.....which in turn is preceded by a simply hilarious weekend in the air conditioned mausoleum referred to by the more skeptical of the FCC brethren as WWJ. This past Sunday, October 24th to you precisionists, this tranquil pattern was changed.....I had to do some work.....and by that I mean rip roaring, hell-raising, 'my kingdom for a beer' work. The responsible rapscallion was a gentleman (cue for mental reservation) from one of NABET'S Chicago subsidiaries known to the trade as NBC. This astute character was mistakenly named CURT PIERCE by fond and doting parents; SIMON LE GREE would have been much more appropriate. During the first few minutes of the rehearsal I thought I heard the baying of his blood hounds—but it turned out to be the producer enjoying, and vociferously so, his asthma. The pre-program went it usual helter-skelter way. Mike cords opened up; levels went up and down; some pin head over at the telephone company kept screaming about line noise, and I got caught in the tuba after making a perfectly understandable mistake. CURT was serene through it all, however; even when the house PA system developed a rumble that would have had Mr. PEPTO and Mrs. BISMAL on a pinnacle of elation, CURT found time to gave with loving adoration at some bridging boxes we were using. It seems these bridging deals have a peculiar affinity for MRS. PEARCE'S boy CURT—or vice versa, for several times he would stop whatever he was doing, and with a deep and tremulous sigh stroke them with a soft glance. Now that I mention it, I think his ears lit up just a little, too. Could be some of you Chi guys have the explanation—and if you do—get it in the JOURNAL where we all can get it. After all was said and done I felt

pretty well popped (past indefinite of pooped)—I think someone in Chi incited CURT to give me the business, and to that person the following message is addressed—HE DID, BROTHER, HE DID. I felt like I'd attended an IBEW meeting without my brass knuckles. The show went off in fine shape and CURT took off for Chicago in a cloud of dust and flying equipment cases. It was—and will be—a pleasure to work with you boys—on top of which, the overtime is simply heavenly.

PERSONAL SCHEMATIC No. 4.....Some unkind people around here have been heard saying ALPHONSO (Adam Lazonga) FURGET is slow. We who know him disagree in every sense of the word. It's just that it takes such a long long time to get all that meat moving in one direction. AL is ample in every sense of the word.....roughly two hundred pounds of male beef (bull) on the hoof, and a real pair of hooves they are. Anything as big as FURGEY'S feet should have a heart, lungs and NABET card all its own. ALPHONSO has another distinction—his is the only nose in the world broken in a rear end collision, and if you think that's easy, try it sometime. This character can act with both speed and dispatch when properly inspired. This was proven quite recently. Said inspiration's source was a young lady who looked with some askance on AL's thirty plus years of single bliss and six meter activity. Being a woman with the courage of her convictions, this young lady, whom you have now guessed is Mrs. FURGET, in short order convinced AL that there was no Santa Claus and that two could live as cheaply as one. On this last adage ye ed contends this only applies to horses and sparrows—one of each completing the cycle. AL acquired a wife, a house, and that hangdog look of domesticity in a matter of six
(To Page 44)



National Council at banquet tendered in their honor by the Detroit Nabet Chapter. (Seated) Messrs. Ellis, Detroit; National Rep. Gorsuch; Exec. Secretary-Treasurer Hiller; President McDonnell; Vice President Hjorth, Chicago; National Rep. Maher; Hogan, Washington; (Standing) Brandt, Cleveland; Dean, Dixie; Pogue, Rocky Mountain; Sollie, Pittsburgh; Hale, Hudson; Cabasin, Engineering; Parks, San Francisco; Westover, New York; Lynch, Rochester; Rudd, Omaha; Morey, Mohawk; Muir, Syracuse; Lane, St. Lawrence; Heintz, Baltimore; Wilke, Philadelphia.

Best Wishes from



"THE McCANNS at HOME"

Sincerely

EDDIE DUNN

Compliments of

GABRIEL HEATTER

Season's Greetings

from the

NEW YORK CHAPTER

N. A. B. E. T.



CLARENCE WESTOVER
Chairman, New York Chapter

COUNCILMEN

WNBC Transmitter
W. Haerer

RCA-V Recording
F. Lynch

ABC Day Studio
R. Berrien

ABC Night Studio
N. O'Leary

ABC Traffic
A. Cusumano

ABC Communications
M. Kelly

ABC TV Transmitter
R. Marshall

WJZ Transmitter
H. Byers

Muzak
H. Conway

NBC Recording
N. McCarroll

Sound Effects
A. McGee

Master Control
E. Stolzenberger

NBC Maintenance
G. Windham

NBC Field
J. Hackett

Short-Wave Transmitters
M. Moon

RCA-Victor Matrix
P. Zupko

NBC Day Studio
R. Glendon

NBC Night Studio
J. Paine

NBC Traffic
W. Weibel

NBC Communications
J. Branagan

ABC TV Field
J. Stoodly

ABC TV Studio
J. Kinsel

Sec'y Treas., T. Kruse

Ass't. Sec-T., J. Paine

DETROIT—From Page 41

months, and that ain't slow, chums! FURGET was one of our more patriotic boys during the most recent fracas. By "patriotic" we mean it took only six MP's to get him moving. AL was streaking west when the MP's caught up with him. The cooperative army helped our boy on his way dumping him on some unholy spot of ground in the Pacific. Here AL shared his little island with three thousand brother GI's and three million unhousebroken and completely uninhibited gooney birds who acted anything but brotherly. As a result of this tender and lengthy association (AL and the gooney birds) AL FURGET and ED (look mom, I'm a canary) BOYES do not see quite eye to eye on the subject of our feathered friends. BOYES says they are our friends and helpers; STOLZENBERGER would not print FURGET'S response—let's just say that he (AL) does not agree. Be that as it may, it would be of extreme interest to get both these lads over a few dozen jugs of the foaming brew—and then start the discussion. It is our studied opinion that FURGET, with the descriptive terminology now considered standard equipment to a GI, would emerge on the high end of the stick.

ADDENDUM.....ROY (wctu) BRIDGEMAN, he of the eyes which look like twin road maps of OHIO, has sworn off all local bars, taverns and pubs. He says the television screens are killing him.

LOCAL STUFF.....The Fort Shelby, scene of the recent NABET convention, was redecorated this past week. The motif is sack cloth and ashes. In addition to this trial they are suffering from a personnel shortage. It seems that many of their old and trusted help-men and women who have stood the roughest gaff of hotel service, are collectively suffering from nervous breakdowns. This could be mere coincidence.....it's got to be coincidence. Another strange thing—having been appointed some kind of a sales promoter, or some such thing for the NABET yearbook, I strode purposefully into the hotel manager's sanctum sanctorum, there to put the bee on him for at least a full page ad in the year book. After a short wait I was ushered into the sumptuous room with its Varga murals, and its framed Spicy

stories cover pieces circa 1922-23-24. The manager, let's call him Mr. Stolzenblotz, gave me one of his SAE 30 smiles—good for ten thousand miles. Not to be outdone, I shot my Prestone dental special right back at home (that's the one no one can freeze out) and proceeded to give him the STOLZENBERGER treatment complete with whooping and hollering, and a dead steal at three bucks. Things were going swimmingly until I mentioned this publication was the literary brain child of NABET, the astute group who had just completed their convention under the tender and expensive ministrations of his hospice. That, gentle reader, was a big mistake, or as the flowery French say, "un blippe supreme." His smile lost its SAE 30 smoothness, and took on the color and character of old crankcase oil. A queer green glow began to play about his ears, and his eyes turned a filmy gray. He twisted and squirmed while his prominent adams apple beat spasmodically against his left elbow. A more disconcerting sight I have never seen. At this pregnant moment a nurse zoomed into the room, and while reassuring me with a smile, swiftly slipped Mr. Stolzenblotz' arms into a long sleeved wrap around jacket. This tied him up for the moment. "It's alright," she said, "these spasms are usually short and as yet are not too violet. We are keeping Mr. Stolzenblotz under close observation. He underwent a terrific mental strain a few weeks ago, during one of these conventions. His recovery has been delayed but we feel that he will come around without resorting to confinement." The hypo she had meanwhile been administering had begun its soothing effect and the green glow about his ears has been substantially subdued. Needless to say, I did not sell the hotel an ad in the year book; I was extremely fortunate in getting out of there with my skin still on me.

CONVENTION TAIL LIGHTS.....For a short time we Detroiters thought that Al Capp had brought his schmoo herd to town—friendly little characters who dashed frenziedly about the Fort Shelby lobby hellowing at the top of their voices as they greeted other friendly characters. On closer inspection, these busy little people turned out to be NABET councilmen from all over this land of ours. Summing it up, the week went hectically on its alternately serious and frivolous course.

(To Page 48)



The National Council in session. Center, at head of both tables, President McDonnell. Clockwise around left table: Messrs. Parks, San Francisco; Lane, St. Lawrence; Muir, Syracuse; Hogan, Washington; Ntl. Rep. Gorsuch; Exec. Secretary-Treasurer Hiller; Rudd, Omaha; Wilke, Philadelphia; Sollie, Pittsburgh; Lynch, Rochester; Pogue, Rocky Mountain. Clockwise around table at right, Messrs. Cabasin, Engineering; Hale, Hudson; Morey, Mohawk; Westover, New York; Stolzenberger, Journal Editor; Ntl. Rep. Maher; Heintz, Baltimore; Vice President Hjorth, Chicago; Brandt, Cleveland; Ellis, Detroit; Dean, Dixie.

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and

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WOR

AARON LIPPMAN & CO.

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DICK
WILLARD



Best Wishes
Season's Greetings
to
The Engineers
VAN DEVENTER
WOR

"What Makes You Tick?"

ABC Monday through Friday 11:45
to 12:00 for Proctor and Gamble,
with

JOHN K. M. McCaffery

Written and Directed by

ADDISON SMITH

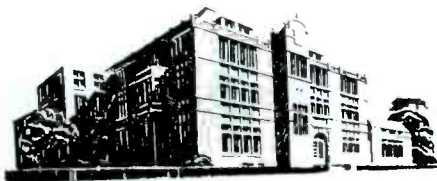
JACKSON BECK

To the
Friends
of CREI

Holiday Greetings

from

E. H. RIETZKE
and the
CREI STAFF



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Great Hotels*

AND HOME OF STATION

WNBW

NBC TELEVISION



*Best of luck with the new
and here's looking at you*

RAY MICHAEL

WNBW—NBC Television

Thanks:

**HOLLY
WRIGHT**

NBC—Washington





*Thanks and Best Wishes
to our Engineering Friends
from Coast to Coast*

FRED WARING
AND HIS PENNSYLVANIANS

Greetings



Paul Lavallo



DETROIT—From Page 44

ulous way with the chips falling where they willed—and the week's business being handled with a minimum of screaming, mental and bloodletting and bull. The bull had its turn however, for each day saw the pile growing a little higher and wider. The first few days of the session's span saw it thrown with some degree of accuracy—in later days it was thrown with a joyous and carefree abandon that transcended all thought of marksmanship. This is as it should be—relaxation when the work is through.....

SATURDAY, OCT. 2, 1948.....This, the last week prior to the gathering of the brains, has been tumultuous, to say the least. It was replete with meetings of the Detroit boys, emergency gatherings and still more meetings concerning emergency gatherings. For lo! these many days we have silently knocked our collective selves stupid in an attempt to outdo all other conventions, and while we think no stone has been left unturned, some Siberian is sure to turn up in the milk house. That always happens. This day we rest and pray that the travail of the past week will bear fruit all over the joint. Tomorrow the onrushing NABET hordes, in their purple and gold (especially under the eyes), will drop on us "enmasse" and the festivities will commence.

SUNDAY, OCT. 3, 1948.....This day yours truly scamp-ered down the long hall in the general direction of main control—joyously facing another day among wonderful co-workers.....with tremendous opportunity for advancement.....and become at least a station manager.....in air conditioned studios, too.....but my course was blocked. Someone had built a partition across the hall and had upholstered it in a delicately woven burlap in technicolor. The road block turned out to be none other than CLIFF (whatta hunk of meat) GORSUCH, beaming benignly down on me from his 'head in the clouds' position. It has always amazed me how little that rarified air bothers him. The usual social insults were passed and I continued on my precipitous way—ramming smack into a pair of piercing eyes riding sort of side saddle on a scrubby Mustache. Guess who—right! It was none other than ED (bedroom eyes) STOLZENBERGER of the NY Stolzenberger's and peripatetic editor of the one and only NABET journal. I had never met this genial cherub before but you'd never have known it to hear the boy pitch. In nothing flat he had me backed into a corner and almost promising to sell every page in the year book. He missed his calling. The state department could use STOLZIE to good advantage in converting Joe Stalin of the baggy red drawers. The day ended with the clan gathered at the Fort Shelby—but the skirling of the pipes was replaced by the swirling of the brew, the clinking of glasses and the fine scratching of teeth and finger nails being filed to a sharp point.

LATER SAME DAY.....In the evening of this holy day, TED PENNEBAKER, rotund and roistering ex-WWJ AMSE, pitched a small tea and crumpet gathering for the assembled gentry. It is not true that the fourteenth floor, on which level TED'S suite is located, will never be the same. Look at the leaning tower of Pisa—it took five hundred years to achieve that slant, while the side cant on the fourteenth floor was accomplished in a matter of hours. The writer had to close WWJ down for the night, as usual, and didn't get to the scene of the gathering until the wee hours when most, but not quite all, the councilmen had left for their rooms—natch! One bucolic individual remained, but as I approached and introduced myself—he floated by me

mumbling something about going to bed and sleeping until the next convention. I turned to find TED busily engaged in filling out a NABET application for the porter cleaning up the hundreds of tea bags (it was a tea party, you know). Giving credit where credit is due, hats off and a loud fanfare for Mrs. TED PENNEBAKER, the guiding light and general overseer of this little clam fry. She was everywhere when needed and gone again when the need no longer existed. One hour, three arguments with TED, and four tea bags later, I went home, sadder Bud-weiser.

WEEK IN BRIEF.....Meetings were called at all hours of the day and night. Bags under the eyes were common and the trailing end of any meeting would find delegates asleep at both ends. The boys had a rough time. The NABET membership in its entirety can take off its collective hats and be damned proud of the delegates they elected and sent to the automobile city for this chowder fest. There were arguments and agreements; back baiting and back clapping; cussing and discussing, and anyone even slightly surprised at this must still believe in the stork and Santa Claus in addition to voting republican. The boys met to fight out controversial issues—and battle they did—all to our aggregated good. New likes and dislikes were formulated, respect was both won and lost—but in the final analysis the chapters stuck with what they thought was the right thing. If they didn't win out this year, they will be back next with re-grouped forces and added zeal. How can anything but good come from such a system.

SOCIAL SWING.....The social aspect of this convention came to a pointed head on Wednesday evening at which time, the NABET gladiators convened in the Fort Shelby's pigeon roost. With its walls lined with blue mirrors to keep you from seeing yourself turn pale at the sight of your check, this lofty position is referred to by DAVEY (let's get a beer) STEWART as Ali Baba's headquarters. The preparations leading up to this feature event were anything but peaceful. First the room was available Friday but the boys wanted to eat Wednesday; then the room was OK for Wednesday at which time the convention wanted to eat on Friday. It was strictly an IBEW situation (e.i. completely screwed up). In passing this brief mention of IBEW, let us scotch another rumor. It is not true local 1212, more than slightly worried about NABET membership success, is recruiting and taking into their 'union' all short order cooks. There is a stipulation and this is it; only short order cooks who do their work on electric ranges or work under electric lights are eligible for the multitudinous 'benefits' offered by IBEW. It may be readily seen that this stringent regulation automatically rules out all cooks who work in total darkness; who use kerosene as a source of cooking heat; or those who want more than thirty dollars per week pay. Enough rumor scotching—let IBEW protect itself. Why should we do it? The boys stuffed the food away at a great rate. Davey Stewart was not seen for the first part of the evening, but he was finally discovered sitting behind a bowl of potato salad, oblivious to his surroundings (only insuring that he wouldn't have to eat at home for at least another week). Yours truly got in on a feed and a fast "Hello" in between station breaks. That's what an MCR man gets when he works nights. (That ten per cent means nothing to me!)

F-L-A-S-H.....A few months ago, the Detroit column mentioned something that was going to happen—and quickly. Well, it did happen. On the 21st day of October at station

(To Page 52)

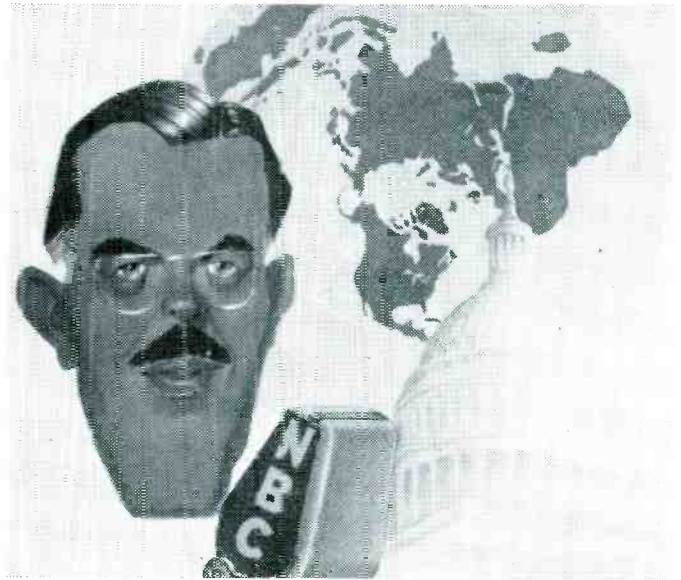


THANKS TO THE BOYS

From

Morgan Beatty

"News of the World"



Best Wishes to a Fine Bunch of Fellows!

The Editors of

SUNOCO 3-STAR EXTRA

RAY HENLE • FELIX MORLEY • NED BROOKS • FRED MORRISON
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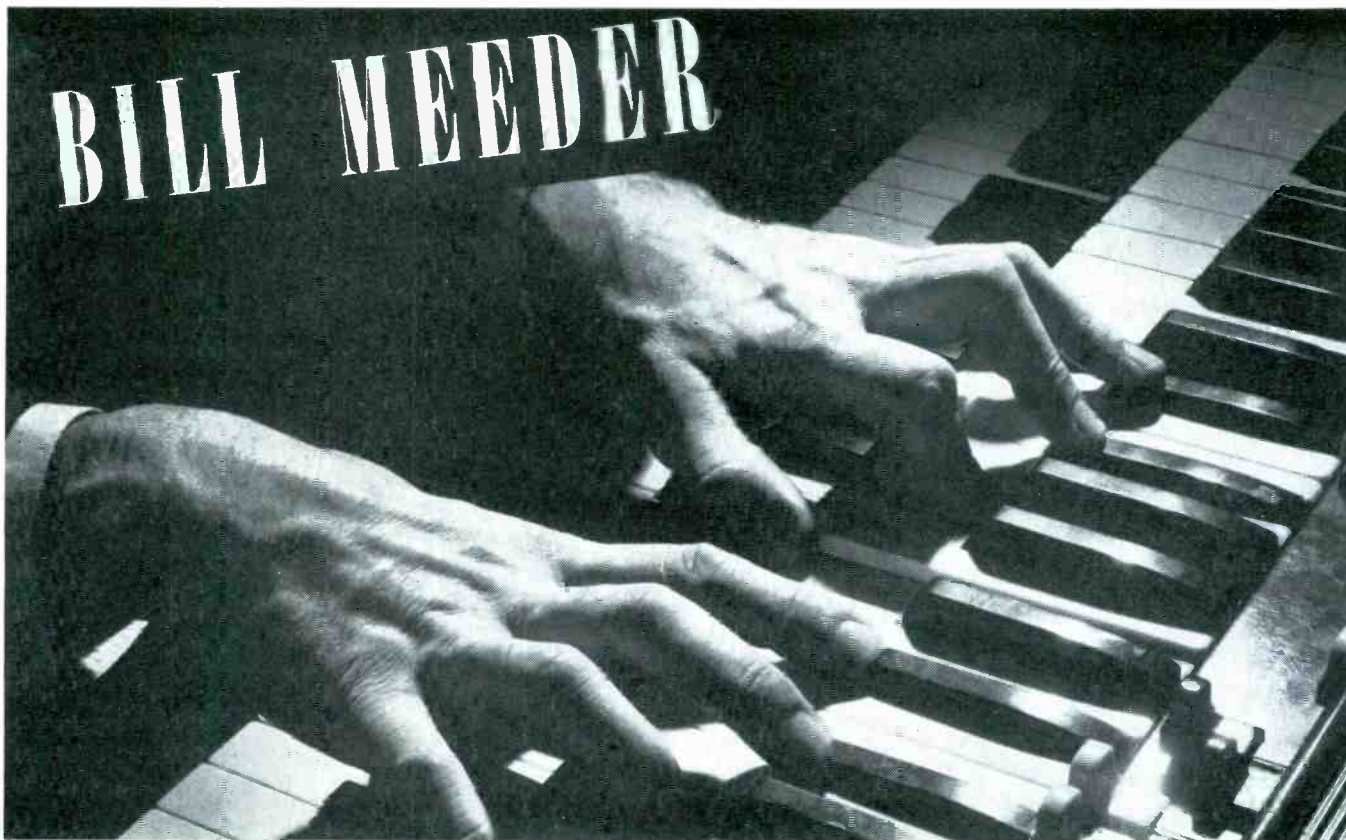
A Salute to All Radio Engineers
LOWELL THOMAS

HELP WANTED

ENGINEER — to ride gain on high Hooper news program. Must have own AIR WICK. Apply DON GARDINER — ABC — NY.

STUDIO OPERATOR — must have experience on six-mike setups. Opportunity for qualified man. Long hours, low pay. Must wash sox in P & G TIDE. Write DON GARDINER — ABC — NY.

STUDIO MAN — 10 yrs. console experience necessary. Familiar ABC operations. Must have contacts interested in Title Guarantee and Trust bank accounts, Garcia Y Vega cigars, and Crawford Clothes. Send broom size to DON GARDINER — ABC — NY.





CHICAGO

By VERN MILLS

Minor J. Wilson, our former Chicago correspondent, has gone from the fold of NABET to manage a new broadcast station, KBOR, at Brownsville, Texas. The station, owned and operated by Minor and two of his brothers, is expected to be on the air in a few months. Lots of luck, Minor, in your new venture.

In Chicago the local chapter of NABET has been involved in several disagreements with management, the most recent being that of a tape program, "It's Your World," for Johnson and Johnson, by the Young and Rubican Agency. The tape is being made on a recorder owned by the Chicago Industrial Health Association by Mr. Ben Parker, an announcer on the program. The tapes are being cut for playback on WMAQ exclusively and are being dubbed off on lacquer by NABET personnel on NBC equipment. The local chapter contends this constitutes an infringement of contract on the part of NBC in having contracted work for WMAQ done on the outside. The Company contends this is just another record. NABET has applied for arbitration before the American Arbitration Association on the matter. There are those in the Union who can see the danger to both the Union and Company if such practices are allowed to exist.

Transfers, promotions, and changes in personnel have come to Chicago so rapidly with the advent of TV that it is hard to keep up with them. Note the following: R. B. STURGIS has transferred to N. Y. Studio, being replaced by F. C. Shidel in Master Control. P. J. MOORE has just returned from N. Y. TV training and is to be TV Maintenance Supervisor, although it has not been officially announced. V. D. MILLS has taken Moore's Transmission job with C. V. CORLISS moving to Jr. Control Supervisor. D. J. WILSON and C. P. LONIE have been seen working at the TV transmitter.

New TV men transferred from N. Y. include C. L. TOWNSEND, TV Operations Supervisor, COURTNEY SCHNELL, TV Field Supervisor and C. E. REED for TV Studio. HUGH WHITE is being transferred to Hollywood Maintenance.

HAD YOU HEARD?

Chicago Chapter is in compliance with National Labor Board, having filed all necessary forms of financial and non-communist affidavits.

It is reported that WGN, Chicago, has just signed a new contract with IBEW with considerable gains in working conditions and salary—\$125 a week top for (staff) Group 2 and four and a half years escalator.

Also reported is the death of BETA (Broadcast Engineers Technical Association), started in Chicago by a few thinking

members of opposing unions with the idea of organizing an affiliated union to which all broadcast engineers could belong, the death being due to opposition by IBEW to any association of IBEW members with NABET personnel. It is reported IBEW heads were afraid a merger might occur with IBEW members becoming NABET.

That Frank Schnepfer, after cutting a hole in the roof of his house in order to install a new dormer, got called to work by the Field Supervisor, to go out of town for three days.

That F. O. Genereux, W9FDL, is trying to find out how to get a sixteen foot antenna he bought from Pete Cavanah in a 9 x 12 living room.

That Chairman Art Hjorth and Supervisor Al Otto are building adjoining cottages on a lake in the Sturgeon Bay area. They are looking for used well-digging equipment after pricing the cost of a new well.

That Betty Genthner of Communications wants to build a TV set. Any advice freely accepted.

That E. G. Squires of WMAQ transmitter almost has a new ham tower. He has his wife pouring cement, or shall we say, helping.

—NABET—

DETROIT—From Page 48

WJLB, 250 watts in Detroit; and at WBBC, 1 kw in Flint, NLRB elections were held. The ticket gave the voters two choices: NABET or nothing. While for a short time there was a slight question on which way the thing would swing, the final result showed it to be NABET 100%. The boys at WJLB and WBBC were just as happy as the Detroit Chapter was. The newest members are: ROBERT LEWIS, W8 MQU; WALTER WIERZEICKI, W8DTZ; WILLIAM CALDWELL, W8ZEH; and FRANCIS BROWN, NO CALL; all of Flint. The new Detroit members are STAN BABIUK, W8TFB; FRANK EDWARDS, W8CXT; JACK TRAVERSE. BUD HOYT, W8ZFF; and TED HEDGES. no call. These two new member stations are both owned by the Booth Radio Stations, Inc. Welcome to NABET, WJLB and WBBC. We know, and you soon will know the association cannot help but be beneficial for us all.

DETROIT NOTES.....The Detroit gang are at this time busily engaged in negotiating for more of several things, one of the more important being "dough." Possibly have more pertinent information next month—if so, we will pass it along. So long from Detroit.

—Red Lewis.

NABET

OFFERS ONE UNION FOR RADIOMEN

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 union, if their place in radio is to be bettered.

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

Season's Greetings

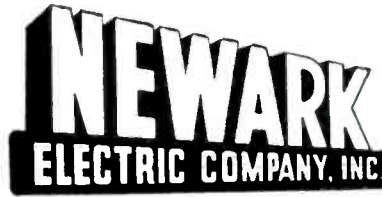
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GREETINGS

TO THE BROADCAST ENGINEERS

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from

ABC Sports Director

Harry Wismer

Control Room Consultation with Alice Clements,
Producer of Horn & Hardart

CHILDREN'S HOUR

and Child Comedians, Bobby Hookey and Kenny
Best and Engineer George Peters Regarding
Greetings to the Boys.

Result:

“GOOD LUCK AND MAY
ALL YOUR PEAKS BE
LITTLE ONES.”



KEEP US ON THE AIR
KEEP US IN FOCUS
WE LOVE YOU
HOKUS POKUS

LEE—*Dead Air*—DAYTON
JACKSON—*Pick Up*—WEAVER
HAL—*Step Switch*—STEPLER
TED—*Dump Out*—DUNLAP
CHAS.—*Nemo*—EDWARDS
BAX—*Feed Backs*—WARD
DEAN—*Dead Cans*—LUCE
FRANK—*Southern Leg*—HARDEN
JACK—*Off Mike*—HENRY



ABC WASHINGTON ANNOUNCERS

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*Greetings
and
Best Wishes
to
The Engineers*

ARTHUR J. "Dutch" BERGMAN
WRC, Washington, D. C.

*Season's
Greetings*

To
A Bunch of Good Sports

Steve Douglas

NBC Sports
AM - FM - TV



ROBERT McCORMICK

"With the News of
the Day"
from Washington



DAVID BRINKLEY

NBC in Washington



Season's Greetings

FROM THE ENGINEERS

HOLLYWOOD CHAPTER

N. A. B. E. T.

NBC
Hollywood

ABC
Hollywood

KFI
Los Angeles

KFSD
San Diego

KECA
Los Angeles



"THE BETTER HALF GANG"



Tiny Ruffner Sam Morse
William Wirges Ralph Paul
Bill Treadwell Jack Byrne

"THE JESTERS"

Dwight Latham
Wamp Carlson Guy Bonham



Season's Greetings

and

Thanks Fellows

from

Bill McCune

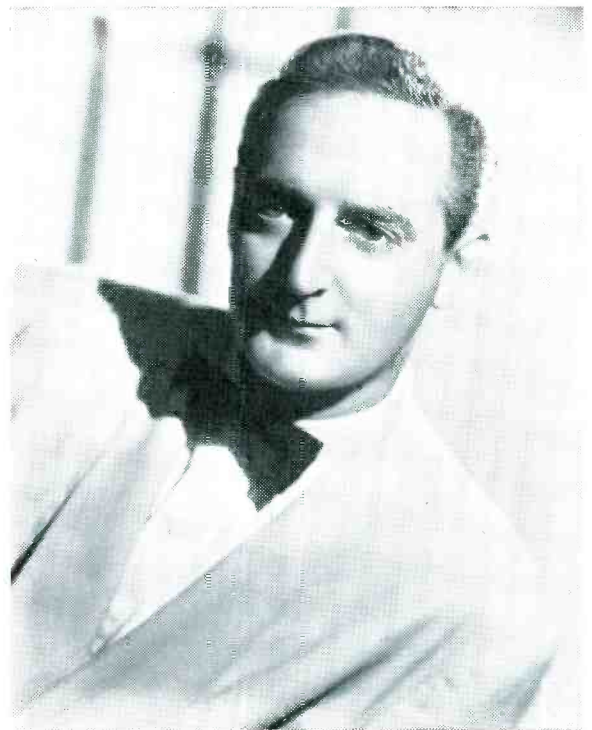
and His Orchestra



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44th Street and Broadway

New York City



Members of the NABET National Council



DONALD MUIR

Chairman

Syracuse

Born in Syracuse on May 20, 1912 and educated in Syracuse public schools, Don received his first Amateur license and call letters in 1936 being assigned W8PXA. He is presently known as W2PXA and is still quite active when not attending to NABET duties in Syracuse and the surrounding area. Shortly after receiving his Commercial Telephone

license in 1936, Don went to work at WMBO in Auburn but not for long. Seeing a chance to stay on the right side of the law, he accepted a position with the Department of Engineering, Police Radio Division in Syracuse and stayed put until 1944 when he joined the engineering staff of WOLF as transmitter engineer. Shortly after, WOLF engineers signed with NABET and Don was elected first Chairman of the Syracuse Section affiliated with the Rochester Chapter. In the Spring of 1945 NABET issued a Charter to Syracuse and Don was elected Chairman of the Syracuse Chapter of NABET. He has guided NABET along in Syracuse since infancy and deserves all the credit for building the Syracuse Chapter to what it is today and any member will tell you so. Don was instrumental in organizing WENY, Elmira and WINR, Binghamton. The breaks come for all "good men" and Don is no exception. By the time this is read in the Yearbook, Don Muir will have resigned as Chairman of the Syracuse Chapter and taken over the duties as Chief Engineer at WOLF. The next Chairman will have to keep up a pretty fast pace to fill Don's shoes. The members at WOLF should have little trouble getting along with their new Chief as he is well founded in NABET matters.

—J. F. C.

DAVID LANE

Chairman

St. Lawrence



David Hall Lane, chapter chairman of station WWNY, was born the son of a paper mill supervisor at Brownsville, New

York. His father worked at Black River, and David spent most of his time there with his maternal grandparents. He graduated from Black River High School in June, 1937. In the fall of the same year he entered St. Lawrence University, where he majored in psychology. He did a lot of work in the field of experimental psychology, working with electronic equipment in the laboratory.

David became interested in radio while at the school. Under the supervision of Dr. and Mrs. Bloch, he was one of a group who did folk songs in guest appearances over station WFBL Syracuse, and a series of shows over WWNY and the school station, then WCAD. He graduated from St. Lawrence in June, 1941.

He went into radio immediately upon graduation, and in February, 1942, he went to work as a control engineer. He studied engineering on his own, and secured a license in January, 1943. At the present time, Dave is studying the CREI course.

In 1935, he took a better position at WLAK, Lakeland, Florida, and during its construction, he acted as assistant construction engineer.

Late in 1936, Hogan went to Washington, D. C., to accept a position at NBC as studio and field engineer. He continued at NBC in this capacity until 1942 when he was commissioned in the United States Naval Reserve as Lieutenant (jg). He was on active duty in the U. S. Navy from 1942 to 1946 as Aeronautical Electronic Design Engineer in the Bureau of Aeronautics, Washington, D. C. He went on Inactive Duty as Lieutenant Commander, USNR, in 1946, and returned to NBC as studio and field engineer in which position he is presently engaged.

John Hogan was elected Chairman of the Washington Chapter of NABET in 1946 and has been re-elected each year since. He presently serves the NABET membership nationally as a member of the NABET Executive Board and National Council, and in Washington as Chapter Chairman.



JOHN HOGAN

Chairman

Washington

John H. Hogan went into broadcasting in 1930 at WSUN-WFLA, St. Petersburg, Florida. This was his first permanent position following several courses in radio engineering, and he remained in this position until 1935.



NOW HEAR THIS!
NOW HEAR THIS!
on Mutual's Flagship in New York —

TO THE BOYS IN THE ENGINE ROOMS,
FROM THE DECK-APES AND SWAB-JOCKIES

SMOOTH SAILING!!

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Best Wishes

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73 for a **Merry Christmas**

de

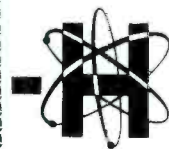
Bil Harrison,

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The Broadcast Engineers

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Like these guys have done so well for us—
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ART LINKLETTER

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HOLLYWOOD



Thanks, Fellas

ZEKE MANNERS

ABC—Hollywood

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With Many Thanks

from

GARRY MOORE



CENTRAL NEW YORK

By C. F. Cleary

This is the initial column for the Syracuse Chapter since NABET was born here in Central New York way back in chilly November of 1944. Quite a lot has happened since that historic month and we would like to tell you about it.

It took our little "ole 1/4 KW", WOLF to start the ball rolling back in '44 when all members signed with NABET after Paul North "spark plugged" the initial contact. Paul, by the way, who was studio super at WOLF recently left them and at present is employed at WFBL as transmitting engineer. By the time you read this in the YB, Don Muir will have resigned as Chapter Chairman taking over the position of Chief Engineer at WOLF. Don was the first Chairman elected here in Syracuse when we were just a Section and has held the job for the past four years, and we might add held it well. He deserves all the credit for building this chapter into what it is today. The local NABET members bid you a "fond farewell, Don, and wish you the best of luck in your future undertakings."

Several months ago WOLF "chopped" down their 1/4 wave vertical and installed a new 1/2 wave in its place. From all reports the increased signal strength is just what was expected.

Since signing with NABET, WOLF has moved their studios but more about that later.

It was about a year after WOLF engineers became NABET members that the engineers at WAGE decided to look into things and in late 1945 WAGE signed 100% NABET. Earl Williams, transmitting engineer, was handed paper and

typewriter and put to work as Sec.-Treas. Earl held down the job until August of this year when he decided that building a house, working a regular transmitting trick, and being Sec.-Treas., plus other duties was too much. Yours truly now has the typewriter, etc. Earl designed a radio control garage door into the house and it works quite nicely, press a button, and presto! up she goes.

When WAGE entered NABET, Syracuse was not yet a Chapter but a Section, affiliated with the Rochester Chapter, but it was only until March of 1946 that Syracuse came into its own and was granted a Charter, ever since being known as the Syracuse Chapter of NABET.

Shortly WAGE will be pushing the watts out with a 5 KW Doherty final and using the old 1 KW as an auxiliary transmitter. A television CP has been granted them and this will undoubtedly be their next project.

In November of 1947 NABET increased its power to 5 KW here in Syracuse by signing up the engineers of WFBL, a basic CBS station. We think we can boast of a "first in radio" here in Syracuse but if not, drop us a line. WFBL entered their new studios a short time ago after spending 23 years on the 11th floor of the Onondaga Hotel. The VA was waiting to get into WOLF studios in the Chimes Building but poor WOLF had no place to go. The wolf was at WOLF'S door so to speak. As WFBL moved out, WOLF moved in and as far as we know this is the first time two stations moved at once, one waiting for the other to vacate. It was quite hectic for awhile but everything is back to normal again, that is as normal as anything can be in this business. WOLF is utilizing some of WFBL's old Western Electric equipment and WFBL has a complete new layout

TO PAGE 69

Syracuse AFRA GREET'S Syracuse NABET

JIM DELINE	Musical Clock Show
RON CURTIS	Coffee With Curtis
BILL THORPE	Xaviar Cugat Time
ED BRYANT	Songs Of Our Times
BOB IVES	Starlight Symphony-News
RAY OWENS	Today In Syracuse
TOM DECKER	Sports Journal

THANKS FELLOWS

W.F.B.L. 1490 Kc/s

Season's Greetings

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CHAPTER NABET

Art Hjorth, *Chairman* L. L. Washburn, *Sec.-Treas.*

RCA RECORDING

WGRC

WOWO

WROK

Holiday Greetings





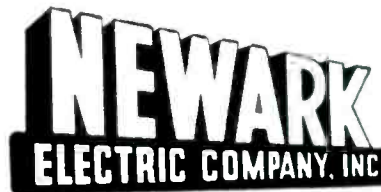
Season's Greetings
TO THE
BROADCAST ENGINEERS
FROM



SAM PONCHER
ABE PONCHER
DAVE ORMONT
ADOLPH GROSS

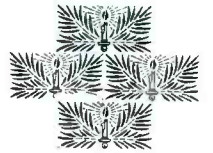


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THANKS AND GREETINGS TO ALL THE ABC STATION
ENGINEERS THROUGHOUT THE COUNTRY WHO FOR
THE LAST 15 YEARS HAVE MANAGED TO WAKE UP
BETWEEN 8 AND 9 CST AT LEAST EVERY 15 MINUTES.

DON McNEILL

BREAKFAST CLUB



WASHINGTON

By Warren Deem

It's now time to reflect back through the year of 1948 at this Yuletide Season and note some of the achievements of the stations in Washington.

The new station that Bamberger is erecting in Northwest Washington, WOIC, is very close to completion. The WOIC transmitter was ordered last August and at the time it was noted that Bamberger purchased a General Electric transmitter for the new station WOR in New York and an RCA transmitter for the Washington station WOIC. Mr. J. R. Poppele, Bamberger Vice President in charge of Engineering, explained that by dividing its purchases between two of the leading companies in that line of manufacturing that Bamberger would be in a position to take advantage of any advances that either RCA or GE might make in the future. Washington welcomes WOIC and expresses yuletide greetings and best wishes to the new NABET engineers there.

WMAL and WMAL-TV have had an interesting and progressive year. During the year they tried out a new type micro-wave unit commonly referred to as the "Chicken Brooder." This 200-lb. monstrosity proved, after experimentation, to be inferior to the standard micro-wave units that they have installed at their American University Campus tower at present. The latest addition that WMAL has made to their equipment is the new complete mobile unit. The new Dodge van is fully equipped to furnish coverage from almost any remote point around D. C. with three camera chain operation. Chief Engineer Harvey thinks that more studio space would be quite an asset. The mike has limited space and there is sundry scenery stuck in with the master boom control equipment but on the whole much progress has been made since WMAL's first telecast October 3, 1947 when they televised the Georgetown-Fordham game from Griffith Stadium.

On Lincoln's Birthday 1946 television interests inaugurated the coaxial cable. The cable extended from New York to

Washington, D.C., thus was the first telecast of a general nature made by NBC from D. C. The local inhabitants didn't see this or any other telecast picked up by NBC engineers until the opening day July 1, 1947 at the Continental Room of the Wardman Park Hotel. Since then the original NBC television crew which consisted of Messrs. *Charles Colledge, Wm. Simmons, L. McClelland, Wally Ward, Wm. Vessler, W. D. Deem, Bill Wells, Jim Weaver, and Frank Gaskins*, has been expended and some of the original men have been transferred. The NBC television crew first set up their equipment on the stage of the Wardman Park Hotel theatre—no mike boom—2 cameras, 1 view finder. The audio equipment was an ND 10 system. Now the theatre has been leveled, the stage has been turned into Studio B, and the theatre into Studio A. A complete and ingenious lighting system has been installed under the engineering and planning supervision of L. MacClelland. It took about a month to finish the lighting equipment installation and has been approved by all who have seen it so far. There are five cameras now and more on the way and more studio equipment forthcoming. SO—I would say that it's been a good year for every engineer in television and radio in the Washington area and here's hoping that next December this journal has just as much progress and good news to report.

Walter Godwin and Mr. Tomlinson are two of the WNBW engineers who have recently transferred to the transmitter. Art Seming is now permanent at WRC after showing excellent ability in the studio and recording room this summer while he was a "summer relief." Gene Beall is now a permanent employee of NBC at the transmitter of WNBW after serving this summer as a "summer Relief." Sherman Hildreth enjoys the transfer of duty from WRC to WNBW television.

————NABET————

CENTRAL NEW YORK—from page 65

making use of some GE and some RCA equipment in their 3 control rooms and 5 studios.

Several months ago the boys up at WINR, Binghamton, called us up and said they would like to join NABET. We rushed a couple of men up there and everything was taken care of in good time. WINR engineers are quite pleased with the outcome as are all members here in Syracuse. They are now a Section connected to the Syracuse Chapter.

At the present time we are still on the look-out for prospects here in Syracuse but at times it's hard to sell a good product but once bought it's hard to do without. It has been rumored that there also exists two other broadcast stations in Syracuse but until this can be verified by signing their engineers as NABET members we will have to let them remain a "rumor." There are several other "hams" in broadcasting in the area who we hope someday to include in the "Hams call list" as fellow NABET members. We would welcome just as heartily their non-ham associates.

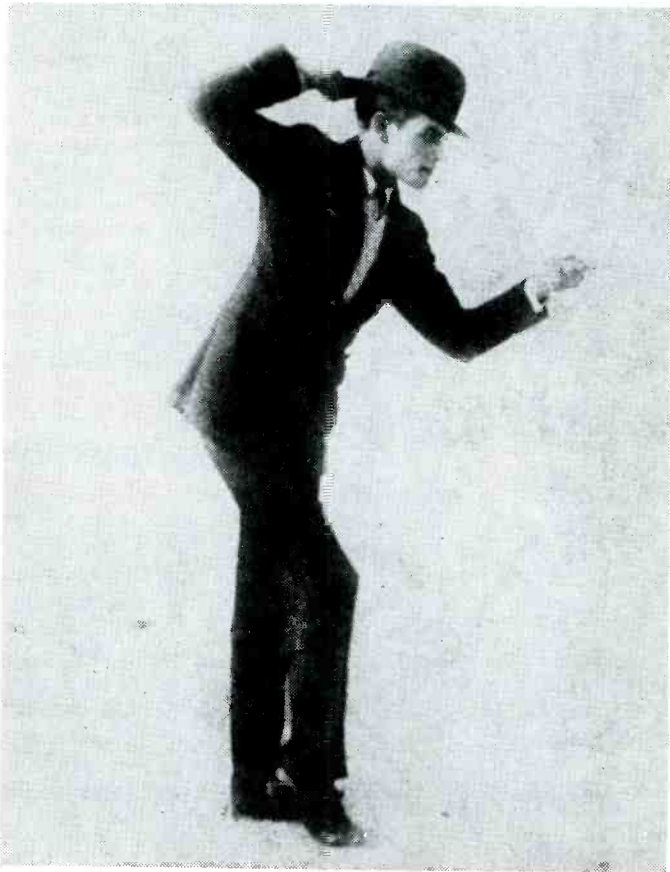
Robert Downie, one of the engineers who went on strike at station WKJG of Fort Wayne, Indiana has been employed at WOLF as studio and transmitter engineer. The members of the Syracuse Chapter welcome Bob with open arms and would like to say, "make yourself 'ta home, Bob."

This concludes this brief history of NABET in Syracuse and we hope that when the next Yearbook is published we can add to our history that "we are NABET all the way here in Syracuse, New York."

The members of the Syracuse Chapter of NABET and the Binghamton Section wish one and all a Merry Christmas and a Joyous New Year.



Season's Greetings



Bob Hope





73 HANK SYLVERN

McCarthy's Tavern

Fine

FOOD *and* LIQUORS



147 W. 40th Street, N. Y. C.

*opposite the
Metropolitan Opera House*

Season's Greetings



MARIAN YOUNG

WOR's Martha Deane



GOOD LUCK GUYS



ALICE FAYE
and
PHIL HARRIS

REXALL PROGRAM
Sunday Afternoons
NBC

We Almost Named Him NABET!



*JINX and TEX and PADDY
and now KEVIN
Thanks for another "Assist"*

Season's Greetings

From:—

**RADIO CITY BAR & GRILL
HURLEY BROS. & DALY**

Where Stage,
Screen and
Radio Stars
Meet

Finest Wines and Liquors

N. E. CORNER OF 49th STREET and AVENUE OF THE AMERICAS
NEW YORK CITY

Featuring GOOD FOOD and DRINKS
Served in a Friendly Atmosphere

Under Management of
CONN HURLEY

Over a Decade of Service

to the

BROADCASTING INDUSTRY

As another year rolls around we take this opportunity to extend to our many friends in the Broadcasting Industry our deep appreciation and our sincere wishes for a successful year to come.

Radio Specialties Company

Los Angeles 7, California

TELEVISION

?

BUT DEFINITELY!

Live and Film



Carlton E. Morse Productions

1500 VINE STREET, HOLLYWOOD 28

Hollywood 6161



Fibber McGee and Molly

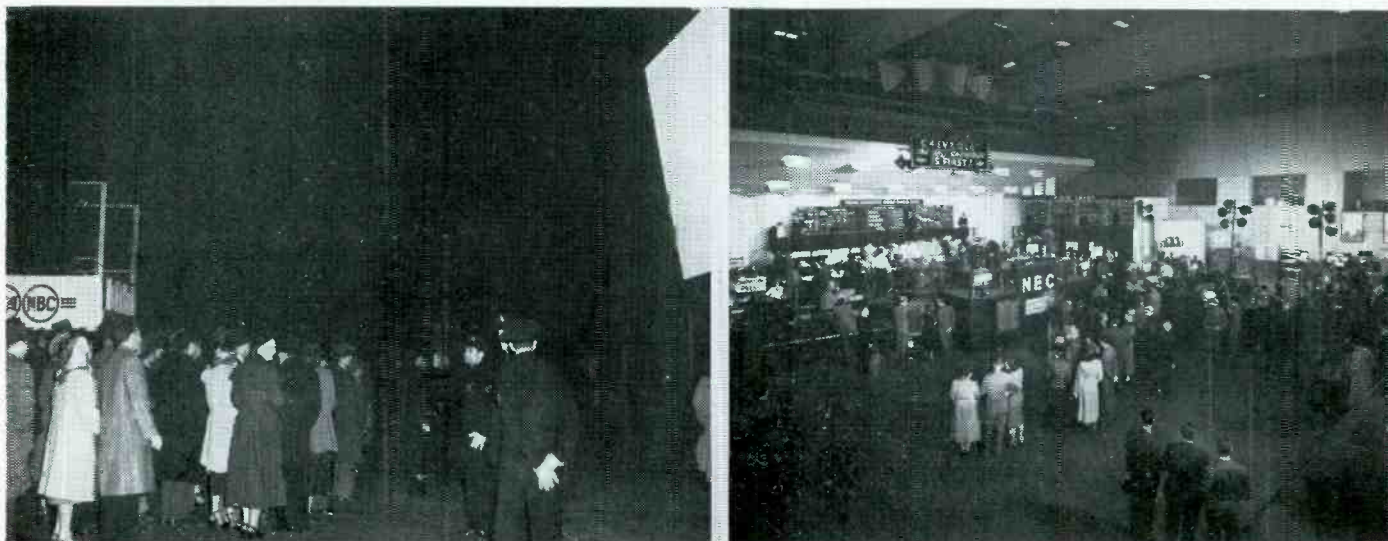
(MARIAN and JIM JORDAN)



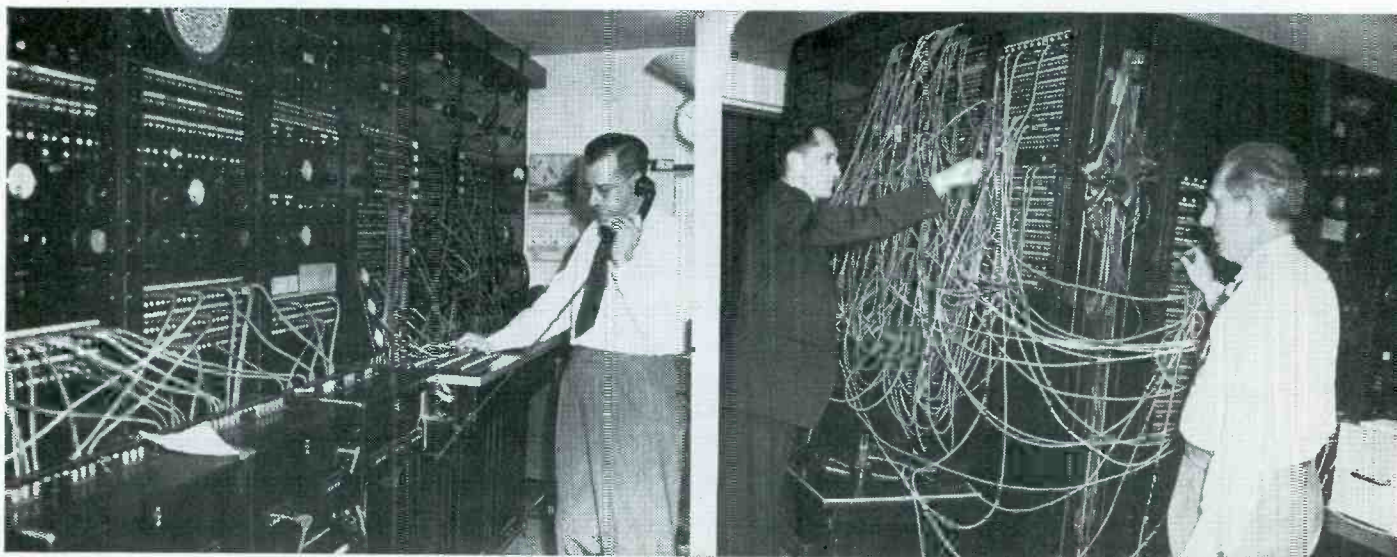


"BROADCASTING CONTINUES AS USUAL"

ELECTION NITE IN NEW YORK'S RADIO CITY



Left, Projection TV receiver set up in the Plaza. The photog at NBC almost cropped out the entire screen, but in the upper-right hand corner you will notice a bit of the 15 x 20 foot screen and its size may be judged from the viewers. Picture quality was good. Right, Election results were coordinated by NBC in Studio 8-H, with tally boards and department heads on stage for quick coordination. Microphones were profuse on stage, with Field engineering crews at the Party Hotels. Silhouetted at the right are several TV flood light standards for the TV cameras set up at that end of the studio.



Master Control coordinates the engineering. Left, Stolzenberger gets set for the next switch in the transmission corner of the MC Room. At the right, Art Holub and Supervisor Ted Hahn rapidly run out of patch cords in the Test Board corner of MC. "The nature of the work" has taken an unusually heavy toll of MC engineers around the country. Statistics are being transcribed for later broadcast.



Left, ABC TV and Networking of elections were handled from Radio City studio 3-B; it is regrettable that the ABC photog did not take several record photos to show the extensive layout of the entire studio, with overhead TV lite rigging, sound switching neatly handled by Messrs. Trevarthen, Fisher, Cooke, et al., at other end of 3-B not shown at all. Right, more ABC TV programming of election progress from studio 3-G, with specially prepared charts for easy TV-reading and proper aspect ratio.

HUDSON NEWS

By R. A. SCHLEGEL



Here is a photo of the WOR bowling team, which plays in the Radio Broadcasting League, and just completed the 1947-8 season. Standing, left to right are: Paul Baldwin, Dan Conover, Ralph Schlegel, Capt. Kneeling, Walt Shaver, and Frank Ennis. Other teams competing in the Radio Lague are the American Broadcasting Co., CBS, MBS, Radio Executives Club, News Week Magazine, WINS, Fred Waring's Pennsylvanians.

—Ralph Schlegel.

ST. LAWRENCE

We recently secured a room at the Hotel Woodruff in which to hold general meetings. Chairman David Lane called a meeting after the national meeting in Detroit to pass on to us the new labor information he had garnered at that time. He kept us posted not only on the effect of the Taft-Hartley Law, general wage levels in comparison to the strength of unions, but showed us an elaborate chart on the construction of NABET. To augument the work of the meetings the union has purchased a mimeograph machine with which we hope to keep members posted on all pertinent questions at all times.

On October 28 we had an election to determine whether or not the members of the local chapter wished to enter into negotiations to bargain for a union shop. We were very happy when it was found that, despite the fact that we have had to work in an open shop for the past two years, the union shop proposal received a resoundng majority.

—Aleen A. Corbin.

FULTON LEWIS, Jr.



Season's Greetings
To Our Engineers and Technicians



Radio's pioneer weekly one-hour broadcast of fine music, now in its twenty-third year on the air. Shown above is the San Francisco Symphony Orchestra on a Standard Hour in San Francisco's famous War Memorial Opera House, broadcast by NBC.

THE STANDARD HOUR

(Affiliated with the Standard School Broadcast Course in Music-Enjoyment)

Standard Oil Company of California

TO ALL OUR FRIENDS

Christmas
Greetings



and Best
Wishes

for a
Prosperous
New Year



THE BONANZA STATION OF CALIFORNIA

KNBC

50,000 WATTS
680 K. C.



“HERE’S THAT BAND AGAIN”

with

OUR SINCEREST THANKS



DICK JURGENS

*Best Wishes
to the
Engineers*

ELMER W.
PETERSON



Season’s Greetings

CHARLIE MILLER

“The Host to the Coast”

The Hunt Room

BELLEVUE HOTEL

San Francisco

Season’s Greetings

FROM

NBC Announcers in San Francisco

Ed Brady
Joe Gillespie
John Grover
Bud Heyde
Hal Wolf

Clarence Leisure
Dud Manlove
Bill Roddy
Gene McCann
John Bowles

They Say That—

ENGINEERS HAVE HAIRY EARS
AND LIVE IN CAVES AND
DITCHES.
THAT MIGHT BE TRUE,
SO TRUE’M DEARS
BUT HOW THEY WORK THOSE
SWITCHES

Greetings from

BOB LETTS,

KNBC





Greetings from
San Francisco Chapter



KGO	KNBC	KGO-FM
KNBA	KNBI	KNBX
KNBC-FM	KSMO	KGO-TV

*National
Association of
Broadcast
Engineers and
Technicians*





N
E
HOLLYWOOD by NORMAN DEWES
S

WELL.....another YEARBOOK has rolled around—and again 'tis time to recount in poetic prose, or prosaic posey or SOMETHING, the Outstanding Events of the Year—this is going to be a little HARD to DO this year, for we seem to have been a little LOST last year. In looking thru the last twelve issues of the Journal and reading the OTHER fellows' columns for inspiration as is our WONT, we notice that WE seem to have sent in some stuff during the early months of '48—at least those fine articles have our BY-line appellated thereto—altho the scrivenings seem to have somewhat of a GHOSTLY aspect, as NONE of it looks familiar.....as to the last semestral lapse, it must be attributed to such time and thought-consuming activities as BOAT BUILDING, vacations and *Mabel's* NUPTIALS.....and the enervating effects thereof.....for further DETAILS, just KEEP READING.....

HEADING.....pic shows the very beautiful panorama of lights that can be seen on a CLEAR EVENING just after sunset from the summit of the *Magic Mountain*.....this is the view toward the blue Pacific and encompasses a goodly hunk of Southern California.....in the foreground can be seen the lights of Pasadena, Montrose, Glendale and La Canada, then further back those of Los Angeles, Hollywood and Beverly Hills, and in the final sweep the twinkling eyes of the beach and harbor cities of San Pedro, Long Beach, Redondo, Venice, Ocean Park and Santa Monica.....the dark shadows off the Coast are the silhouettes of the Channel Islands, Catalina and Avalon. *Mount Wilson* is truly a Magic Mountain, for on the opposite side lies the fabulous San Fernando Valley and on more spacious grounds just below the summit are the Eyes of the World, the sun and stellar telescopes of the Observatory.....the tips of the Television towers can see for many miles around, but the great 100 inch eye of the second largest telescope in the world peers nightly across the countless billions of miles

of our tiny Universe. There is a great STORY about to break on the Mountain, and we hope to attempt the telling in our inadequate words soon.

SO.....as one Old Skate said to the other, "It's been a LONG TIME between RINKS!" let's get to the business in hand..... (New York type joke.....) The BIG NEWS out in THESE PARTS now and forsometimetocome is TELEVISION, variously nick-named Video, 'Scope and TeeVee.....hereinafter we will refer to it as "TV," to save space. The Los Angeles area has been allocated seven of the PRECIOUS CHANNELS and all are assigned to stations either now ON, testing or under construction.

NBCENES.....have been SHIFTING rapidly lately, with many changes in personnel due to TV aspirations and accompanying ASPIRATIONS. ANYWAY, a whole PASSEL of fellows have transferred over to the NEW MEDIUM, including *Ralph Clements* and *Sil Caranchini* from Recording, *Frank Ausman* and *Louie Onofrio* from Studio/Field, *Hal Platt* from the Field Shop and "*Rick*" *Rieckeberg* and *Varn Alston* from Maintenance.....these are in ADDITION to the New York Nabobs, namely "*Miv*" *Adams*, Field Super, Messrs. *C. W. Comegys* and *Oscar Wick*, Maint. and NABET./Treas. *Ross Miller*, Hlyd Chapter and Recording.....these characters left last May to join the TV Training Group in NY and have JUST returned with lots of BIG WORDS and INTENSE LOOKS.....a chronicle of THEIR experiences back in the BIG TIME would fill this whole issue, so we'll just call 'em *The Authorities* and follow 'em around at a respectful one to the right and two to the REAR.....these various QUICK CHANGES have aced in *Joe Dessert* from Sound Effects Maint. to the Field Shop, *Frank Figgins* as Field Super from Maintenance Ditto and 'ole ol'e 'ole *Jim "Harvey" Brown* from

To Page 86

*"Smilin' Ed
and his
Buster Brown Gang"*



*"The
Lassie Show"*

Produced by—

FRANK FERRIN

VALLEE - VIDEO

Films for Television

Offices, cutting rooms, sound stage

6611 SANTA MONICA BOULEVARD

Hollywood, California

With best wishes to all our friends of

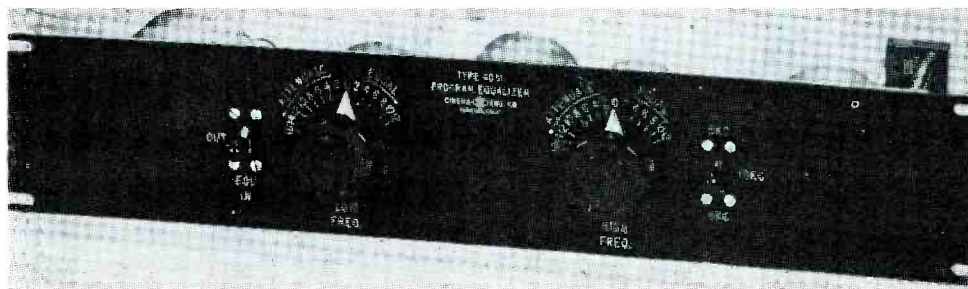
N. A. B. E. T.

CASTLE'S, Inc.

Photographic Supplies & Equipment

HOLLYWOOD, CALIF.

MODEL 4031-B PROGRAM EQUALIZER



INSERTION LOSS ONLY 14 D. B. !

Capable of providing variable regulation over a range of 16 D. B. attenuation and 12 D. B. equalization in calibrated and detented 2 D. B. steps at both ends of the audio spectrum, the 4031-B Program equalizer is one of the most advanced units on the market today.

Designed to fit the needs of motion picture, recording and broadcast industries, this distortion-free equalizer can be cut in or out without changing the signal level at the center of the range. Variable high-frequency positions are selected at 3, 5 and 10 K. C. by a panel key. A separate control permits independent equalization and attenuation over the low-frequency spectrum. Designed with a constant "K" circuit, the impedance remains constant over the entire range of control.

Toroidally wound coils are used to eliminate hum pickup. Controls may be operated while the program is in progress without causing clicks or apparent change of average level.

Send for literature and complete set of curves.

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ESTABLISHED 1935

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WITH CONTINUED
BEST WISHES



EDGAR and CHARLIE

Season's Greetings



EDWARD ARNOLD
"MR. PRESIDENT"
ABC

Season's Greetings

—from—

**AMERICA'S LARGEST
INDEPENDENT RECORDING
CO.**

Complete Studio Facilities for
Disc - Tape and Film Recording
Plating - Pressing - Shipping

Radio Recorders

7000 SANTA MONICA BOULEVARD
Hollywood 3917 Hollywood 38, California

Season's Greetings



HOLLYWOOD

SAN FRANCISCO



Season's Greetings

and Thanks to
All the Boys

ROMELLE FAY

Organist & Composer

Musical Director of Na-
tion's Leading Daytime
Show "Today's
Children"

Merry Christmas

and

a Happy New Year

to the

Broadcast Engineers



for your Electronic Supplies

DOW RADIO, Inc.

1759 E. Colorado, Pasadena 4, California

Dial — RYan I-6683



LOUISE ARTHUR



LINDA CHRISTIAN

HOLLYWOOD—from page 82

MCD where he couldn't STAND answering those phones any LONGER to Maintenance Super, where FYI James, they ALSO have telephones over which can be heard the SAME silly chatter and not ALL of it from ABC.....As for the TV Brass, Mr. R. W. Clark, formerly TV Operations Super in New Yawk has transferred to Hlyd in the same capacity, (1.0 mfd. two quarts, 5 gals per hour.....) Mr. J. E. Burrell has been appointed Field Super, with Mr. W. L. States as MC Super and Mr. Frank Somers Maint. Super.....notice we call 'em ALL "Mister," they being on the OTHER network and WE hoping to create a FAVORABLE impression.....In the NBC department, KNBH up on the Hill (Mt. Wilson, that is.....) is installed and putting forth test patterns as of this typing..... Messrs. John B. Knight, Station Engineer and Rob't. Barnes, Asst. have one of the LUSHEST shacks up there, really a NICE looking joint, and should be very COSY come winter.....(Note to our dear readers: Dear Reader: Keep reading yer Journal and watch for special features on Hlyd TV and the Mountain, with much GREATER DETAIL on those guys and their activities, if we should LIVE so long.....UNote) ABC is, as ————, (insert yer OWN adjectives) just a little BEHIND, having just finished their shack and expect the Transmitter any day now.....tower is up and m.g. set in however, with living quarters just about finished and on the LEE side of the Hill, which should make for a little less SHOVELING this winter.....wonder if Transmitter chief Rex Bettis will be doing any of it?? ABC HAS acquired what may be safely called the LARGEST TV studios in the world, so when we DO catch up, LOOK OUT.....Back to town, Radio Citee in Hollywood is REALLY a busy joint these days, speaking 'specially from a VIDEO viewpoint.....some months

ago one of the two new AM studios "E" and "F" was taken out of service and Studio "F" is now nearly rebuilt for TV..... the Austin Company again moved in and set up their shacks on the poor, long-suffering Parking Lot and proceeded to rip the seats 'n innards out of "F," installing new flooring, walls and whatnot and building an adjacent concrete addition to house film projection and storage rooms. Also, holes were punched in the floor down into the basement below, where the TV MCR is to be. Meanwhile, nearly in old "B-7" wherein not so many moons ago we ALL were being exposed to Television thru the classes conducted for RCA Institutes by the genial Clarence Radius, daily meets a veritable SWARM of budding TVE's or VE's or whatever, who spend their hours jumping around among a whole SLEW of gear under the expert cueage of Mr. R. W. Clark, TV Operations Super. Place is STUFFED with cameras, cases of Field Gear, racks of sync generators and testing equipment, all being FURIOUSLY connected up for DRY RUNS.....more about these characters later..... BEFORE we leave TV for this issue, here are few cute ANTICDOTES we've noticed on various local SCREENS..... one of the early efforts of Paramount's KTLA was a tennis match, which was as USUAL very well covered, but apparently being played without any BALLS.....this didn't seem to bother the players any, who were giving a SPIRITED performance, but it made the game a little hard for us VIEWERS to follow, so just to CHECK UP we foned the station and a very SWEET girl-type voice ASSURED us that BOTH the players had balls and were USING them but that the cameras were unable to pick them UP, due to the swift motion, white color, etc. This seems to be a rather SERIOUS problem that will have to be solved, for a tennis match isn't much without

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Season's Greetings to the Engineers

from Guy and the boys

Guy Lombardo And His Royal Canadians

Currently appearing at Hotel Roosevelt Grill

New York



To

John O'Neill and
Carl Lindquist



HERB SHELDON

"Luncheon With Maggi & Herb"



otes on

My True Story
Ted Malone
Second Honeymoon

By

ROSA RIO



Gleeful Regards

GLENN RIGGS



GREETINGS

from

FORD BOND





"We love yez all dearly"

ED and PEGEEN FITZGERALD

W J Z

Best Wishes

**PAUL
TAUBMAN**



Season's Greetings Engineers

CLUB GARAGE

"Where NBC Cars Live"

Ruby Falk

Morris Silverstein

108-10 WEST 53rd STREET

Circle 7-1289-90

New York 19, N. Y.

BOB EMERY

Producer of Youth
Programs

**DUMONT TELEVISION
NETWORK**

"Small Fry Club"

Monday Thru Friday - 6 6:30 P.M.



Merry Christmas

Happy New Year



HUGH JAMES



*Merry Christmas
Happy New Year*

Harvey Harding

Baritone

WOR

Mutual



Season's Greetings

Freeman F. Gosden

Charles J. Correll

AMOS n' ANDY



AIR CONDITIONING REFRIGERATION
AUTHORIZED WESTINGHOUSE
DISTRIBUTORS

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&
REFRIGERATION, Inc.**

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Engineers - Contractors

SERVING THE AIR CONDITIONING NEEDS
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BROADCASTING INDUSTRY
ALONG THE PACIFIC COAST

THIS IS A REAR VIEW OF OUR
RACK-MOUNT TAPE RECORDER!
WE HAD YOU FELLOWS IN MIND
—ALL PARTS ARE AVAILABLE FOR
MAINTENANCE PURPOSES.

73'

**WILLIAM V. STANCIL
COMPANY**

NORTH HOLLYWOOD
CALIFORNIA



Season's Greetings

FROM

RADIO TELEVISION SUPPLY CO.

341 W. 18th STREET

(Between Hope and Grand—near
Olympic Auditorium)

Los Angeles 15, Calif.



Best Wishes from the Cast of

A Date With Judy

LOUISE ERICKSON

DIX DAVIS

MYRA MARSH

JOHN BROWN

DICK CRENNAN, "Oogie"

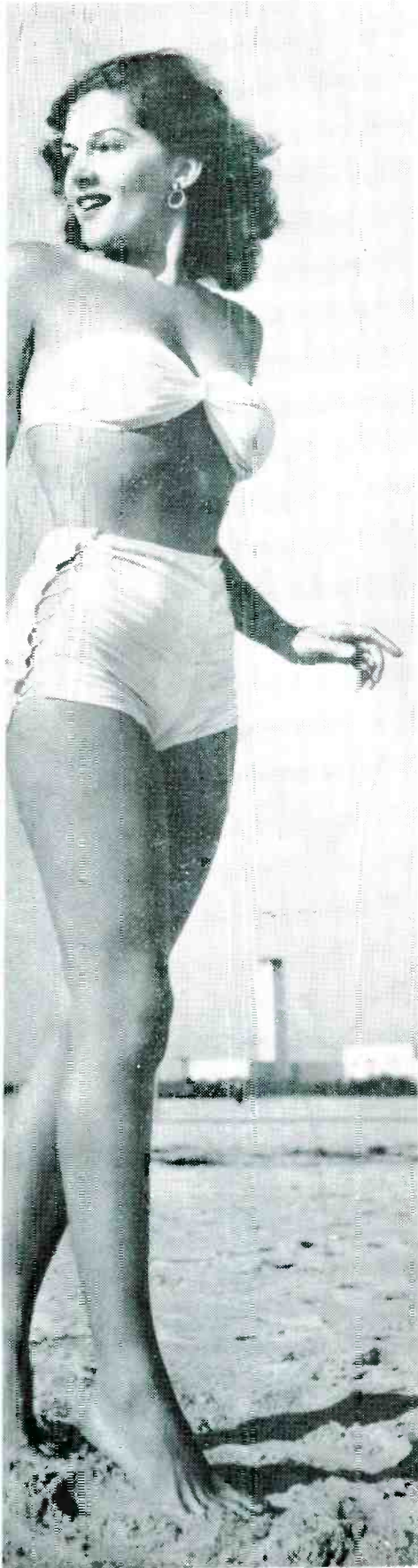
SANDRA GOULD, "Mitzi"

HELEN MACK, Director

Music by
HAL BORNE

Sound Effects
BOB CONLAN

Engineer
BOB MORRIS



HOLLYWOOD

from Page 86

BALLS, to OUR way of thinkin'... THEN there was the Ice Hockey game we witnessed via the video and all durnig the game it seemed as tho the silly players were following the WRONG PUCK and even at times there seemed to be TWO pucks, one of which seemed to be the RIGHT one being IGNORED completely and finally the camera shifted to the stands to show the audience and the puck sailed RIGHT up

SOTCH TROBBLES!

Can't concentrate on Mr. Dewes' column?

This page has been specially magnetized with a special-type optical magnereaser that makes linear scanning of the reading matter almost impossible because of the curved-type stresses inherent in certain specially-stacked curved-type magnetesasers.

If your vision is especially non-magnetic, on your left you will observe a charming view of Jones Beach, L. I., its soft, warm sand, cloudless sky, and invigorating surf just beyond...and on your right (leave your left eye where it was) please observe the warmth of Southern California's mountains, cloudless sky, and the scrubby brush just below, as seen from the top of Mt. Wilson.

Also seen in the scenes of these two well known sites, are these sights: Jones Beach, Frances Vorne, Mt. Wilson, Nina Bara.

Shall we get on with what *was* Mr. Dewes' column?—*Stolzy*.

into the boxes but NOBODY DUCKED and by CLOSE observation we finally determined that the WILD puck was a spot of some sort on the camera tube, which another fone call confirmed, the poor gal crying "Why don't they FIX it, I'm going CRAZY answering this telephone!"...but the most SERIOUS problem of ALL we think is CELERY interference...we first noticed this one pleasant evening over at ABC Producer friend *Dick Woollen's* house for a TV soiree and we were all sitting around watching and sipping his HEAVENLY Manhattans when *Donalda* (his sweet missus...) brings in some hor duerves among which is our FAVORITE, stuffed celery...well, as soon as we started chomping on this ceelry the picture started JUMPING...and by chewing faster or slower we got all SORTS of interference patterns, which we looked up in his Instruction Manual and identified as "dia-

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GREETINGS
from the
 NATION'S CAPITAL

NBC Studios "A"

COOPER, M. S.
 FUGAZZI, F.
 HAMILL, R. L.
 HOGAN, J. H.
 HORTON, P.
 SCHNEIDER, R.
 SHENTON, R. E.
 SMALL, J. N.
 WILLIAMS, J. K.
 SPAIN, F.

WRC Transmitter

STAHL, B. E.
 GALVIN, M.
 LEISNER, V. A.
 MEYERS, P. F.
 YATES, H. W.

WOL Studios "A"

NEFF, J. L.
 HERMAN, W. D.
 PARRISH, L.

WOL Transmitter

MENGLE, K. L.
 BOGAR, Z. T.
 MILLER, B.
 STARK, H. L.

NBC Studios "B"

SEARS, A. P.
 CHEW, W. H.
 CLARK, C. M.
 KRISS, J. G.
 CLOSE, N. J.
 MELINE, J. F.
 McCOLLOM, J. A.
 MCGINLEY, E. W.
 SEMMIG, A.
 WILLIAMS, K. B.
 EDWARDS, W.

NBC TV Field

WARD, W. C.
 ARGENTIERI, A.
 BOLSTAD, C.
 BOYD, C. D.
 BUTTS, J.
 CHROMAK, L.
 COLLEDGE, C. H.
 McCAUL, E.
 MacCLELLAND, L. A.
 ROGERS, J. G.
 SWEIGER, V.
 VOSSLER, W. M.
 DEEM, W. D.
 HILDRETH, S.
 BUSH, W.
 INGERSOLL, V.

NBC (WNBW Transmitter)

THOMASSON, H. B.
 BOSTWICK, W. H.
 ANDERSON, P. E.
 DeVEAU, A.
 GASKINS, F. J.
 GODWIN, W. L.
 MORGAN, F.
 PLATT, STEVENS, G.
 WEAVER, J. M.
 WELLS, W. E.
 ULLMAN, D. A.

WOL Studios "B"

DOWD, J.
 CORNNELL, W. A.
 HALLAM, A. H.
 BOOK, W. H.
 BALLINGER, J. E.
 KAPLAN, R.

WMAL Transmitter

WILLIAMS, J. C.
 BURG, E. W.
 FISHER, C. S.
 NAGY, J. J.

WMAL TV Transmitter

FIELD, J. H.
 DURKEE, K. M.
 ENNES, I. G.
 FULLER, R. L.
 PHILLIPS, J. E.
 TEUTSCHBEIN, E. S.
 VERT, H. F.
 WILDEBOOR, F. W.
 SMITH, L. S.

WMAL Field

FOWLER, W. P.
 BENTLEY, EDMONDS, P.
 EGBERT, L. L.
 HALL, E. S.
 MENG, C. W.
 MORARRE, D. T.
 PLUMMER, I. R.
 POWLEY, A. T.
 SEMYAN, G.
 SILBERT, D. T.
 WICKRE, P.

Washington Chapter NABET

GREETINGS
to the
 ENGINEERS
from
The Chaotic Members of the

N B C
 NEWS ROOM
 C H I C A G O

Best Wishes

For Continued Longevity

D O N A L D
 G A L L A G H E R
 C H I C A G O

Greetings

Art Van Damme
 and his
 Quintette



Greetings
and
Best Wishes
to
N A B E T



AXEL GRUENBERG

"TODAY'S CHILDREN"
 "THIS IS YOUR LIFE"

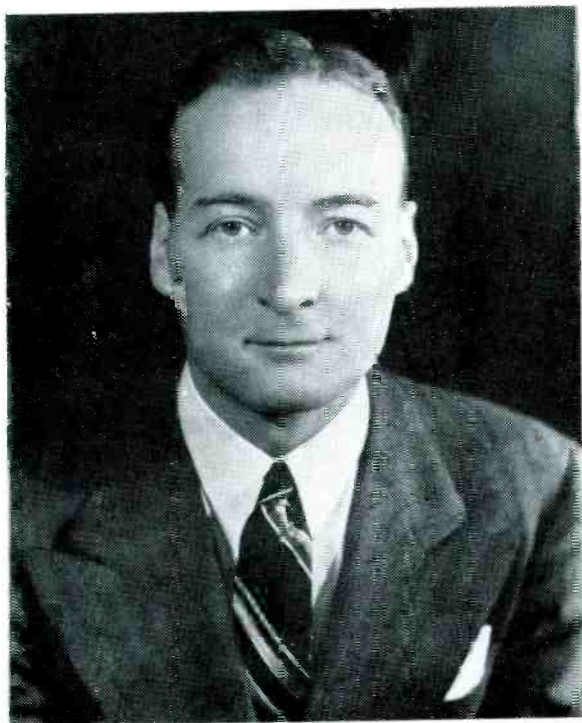
The following is transcribed from last year's release for presentation at this time:-

"MERRY XMAS AND A HAPPY NEW YEAR"
 . . . and thanks a lot!

- | | |
|-------------------|----------------|
| Walter Arnold | Irving Howard |
| Reed Browning | Mel Hunt |
| Jim Butters | Owen James |
| Lou Cook | Ralph Langley |
| Bill Crago | Burleigh Smith |
| Bob Cummings | Bill Spargrove |
| Dresser Dahlstead | Bob Swan |
| George Fenneman | Harry Walstrum |

**ABC-KEGA HOLLYWOOD
 STAFF ANNOUNCERS**

and Our Girl Friday, Margot Duba



*Greetings Through
 the Glass*



Fleetwood Lawton

News Analyst

- | | | |
|-----|------|------|
| KHJ | KERN | KMPC |
| | KMJ | |



Season's Greetings

John Scott Trotter



TO THE ENGINEERS!

The Guys Who Make Us Or Break Us

BEST WISHES AND HEARTFELT THANKS

Ozzie and Harriet



THE RADIO WRITERS GUILD *of the*
AUTHORS LEAGUE OF AMERICA, Inc.

EASTERN REGION



Christmas Greetings

Martin Block



Greetings

BEN GRAUER

THE RADIO WRITERS GUILD OF THE AUTHORS LEAGUE OF AMERICA, INC. EASTERN REGION



HOLLYWOOD—from Page 91

thermy," "other carrier" and "audio in our video".....this proved somewhat DISTURBING as the evening wore on and more and DIFFERENT patterns kept developing. We finally had to switch to olives, altho we DID discover that some types of CHEESE in the celery seemed to have a DAMPENING effect, which helped us stay in SYNC better.....Lots of KEEN NBC-type gossip, such as *Ralph Reid* raising GOLDFISH in his apartment at the *St. George*, which now looks like a ZOO as the goldfish turned out to be some rare GIANT strain which he now has to keep in the BATHTUB, they having outgrown their bowls LONG ago, and *Missus Reid* says they're a DAM NUISANCE when she wants to take a bath.....and *Ray Ferguson* getting a BIG SPREAD in local "Radio Life" mag.....two pages and pic yet, BOTH of which could stand some RE-TOUCHING as *Ray* looks SEXY but needing a SHAVE and article a fine expose of the travails of the studio engineer but containing a few inaccuracies, which matter NOT to the LAYman ... we THANK *Radio Life* for the very NICE publicity and only wish it could happen OFTENERand *Eddie Miller* having a poor fishing season and only catching a 23" four and 1/2 lb TROUT up at Jinx Lake ... and the new NBC station wagon ... Buick Roadmaster, which has been dubbed the *Sax-mo-bile* on account of its being used almost EXCLUSIVELY to drag BRASS up and down Mt. Wilson by *Mr. Saxton*..... and *Jake O'Kelly* being now a Deppity SHERIFF up at Columa, Placerville and them partswith *Star 'n Gun* and a MEAN LOOK ... address is 'General Delivery, Camino, Calif.'..... but NO SPACE for gossip this issue, so will have to carry these items OVER to next time.

ABCENES ... still have somewhat the OLD LOOK, as no catastrophic TV veerage has taken place YET, altho much BEHIND-the-scenes activity is rumored with the production

staffs having Workshop Sessions weekly wherein TeeVee is harangued and a'hemmed and DECISIONS made such as, "When can we get SOMEONE to uncrate the GEAR which we understand is HERE???", etc.....we DO take pleasure in presenting, however, *Mr. Philip Caldwell*, who has come out from Syracuse and Manager of G. E. Transmitter Sales to be ABC Western Division Technical Manager following the resignation of "*Bev*" *Palmer* several months ago.....*Phil* is a grad of Stanford, and a BUSY MAN.....will be abetted by a chap named *Cameron G. Pierce*, whom we UNDERSTAND is in charge of Hlyd TV, and *David Atkins*, ev-KGO some time ago and now a Hollywood-type TE.....to this typing, NOTHING has been said about utilization of or opportunities for EXISTING Engineering personnel in Hollywood.....To take yer mind off things in GENERAL, however, have a LOOK at some particularly FINE views of our TV Sites up on the Mountain ... these shots were taken a couple months ago, but with the weather we've been having lately are STILL believable ... when we showed the proofs to ONE engineer before forwarding them to THAT WOLF *Stolz*, he IMMEDIATELY got the WRONG IDEA, exclaiming, "CRIPES, what a site for SORE EYES!!".... musta that we were building a CLINIC of some sort up there ... Would like to mention some late editions to our AM/FM staff, includnig *Bill Freutel*, ex-KMPC and *Kent Young*, ex-San Louis Obispo FM to the transmitter staff, *Tommy Ashton*, ex-Universal-International Studios Sound Dep't., *Frank* (we mean *BOB*) *Buck*, ex-Universal Recorders, etc., and *Harvey O'Conner*, ex-vacation relief to the Studio/Field staff, AND *Tommye Meyers*, NOT an "ex," D—— it, to the OFFICE force ... *Tommye* is the NEW sweet voice who calls us up about schedules, *Trudi* being so BUSY with other things that we scarcely SEE her anymore except to collect our OT checks ... also to the KECA studio staff

To Page 101

EUGENIE BAIRD



MICHAEL MAUREE



SUSAN THORNE





Greetings

THANKS BOYS

Derry Como



Greetings

Mitchell Ayres



Merry Christmas Fellows



The Fontaine Sisters

MARGIE - BEA - GERI



Season's Greetings



From the Proprietors of the Jot Em Down Store - Sundays on C.B.S.



WITH BEST WISHES
TO ALL THE BOYS



Smilin' Ed McConnell

Sam Hayes

wishes you a

MERRY
DECIBEL



BEST WISHES
To the Boys



BARBARA EILER
"Life of Riley"
"Dennis Day"



Terry
O'Sullivan

wishes you a

HAPPY
NEMO



HERE'S TO YOU ENGINEERS —

We couldn't do without you!

RALPH EDWARDS



Best Wishes to Ray Ferguson and all of the great N.A.B.T. gang

from

the "GREAT GILDERSLEEVE" gang

Harold Peary — Walter Tetley — Una Merkel — Mary Lee Robb — Lillian Randolph — Earle Ross — Richard Le Grand — Arthur Q. Bryan — Andy White — John Elliotte — Jack Robinson — Gene Stone — Jack Meakin — The Parkay Quartette — Monte Frazer — Frank Pittman — Fran Van Hartesveldt
Max Hutto.

on N. B. C. Every Wednesday Night

for the

KRAFT FOODS CO.

Carnation Contented Hour



BUDDY CLARK



TED DALE

HOLLYWOOD—from page 96

we welcome Mr. *Don McCroskey*, ex-back east somewhere, and to *Hockin's Grotto* (ABC Recording Senor *Verne Green*, an EXPERT wax wielder.....which about DOES it for the ABC staff..... Our really BIG news of the year, tho is the acquisition by ABC of the old Vitagraph movie studios and associated buildings, located just off Sunset Boulevard and down a piece from Vine Street.....the property includes offices, shops, dressing rooms, film storage vaults, etc., and two HUGH stages, one with a theater type fly gallery and bagstage on which the largest musicals and productions would have room to SPARE.....these stages have been used until recently for the shooting of big technicolor productions, and will give ABC space for what will undoubtedly be the largest Television studios in the WORLD.....there is ALSO acres and acres of outdoor "lot" adjoining, where whole "Westerns" could be shot, providing unlimited space for outdoor production, expansion, etc. ABC plans extensive alteration and re-construction proceedings, eventually anticipating the centering of all TV and most AM operations at this one location. TV facilities will be installed first, however, and meanwhile the KECA Playhouse at Sunset 'n Highland is due for re-furbishing for continued AM expansion.....which leads us to the TAPE machines.....the joint is simply STUFFED with 'em..... we now have some fourteen of the new *Ampex* console jobs where NONE were before, and we were crowded THEN.....in fact, most of the FRONT OFFICE force has been moved OUT to make room for the contrivances.....all of the big shows are now recorded and played back on tape, most with disc protection,



".....and we all thank Mr. Jones for his fine sportsmanship!"

Season's Greetings

—from—

MOHAWK
CHAPTER
NABET

which makes the playback engineer rather BUSY at times, trying to keep two tapes and a record all in SYNC, making changeovers on both, etc. But the REAL fun comes when you REWIND the stuff.....tensions have to be right or suddenly you notice a beautiful spiral FOUNTAIN rising from the center of the 5,000 foot roll, and ZING! it's HAPPY NEW YEAR! The stuff rewinds or "fast forwards" at the rate of 25 feet per second or some 1500 feet per minute, ten times its normal playing speed, so it doesn't take very long for something to HAPPEN at those speeds.....the quality of reproduction is really MARVALOUS, tho, and under the expert tutelage of *Jack Mullin* of the Palmer Company, now attached to the ABC staff for Crosby and other tape operations, MOST of us have been checked out on Ampex and look upon it with only 70% trepidation now.....Messers *Hal Durham* and *Dick F. Wilson* have been lifted from Recording and assigned exclusively to Tape Editing, and are MUCH in DEMAND these days.....just HOW much, they won't say but it's OUR guess at LEAST three figures.....had some extra CHOICE items of TRIVIA on the hook for ABC but have a feeling that we are typing on borrowed space NOW, so will have to hold OVER, but we'd like to mention that *Ben Doty*, ABC SE has been elected Chairman of the Hollywood Chapter of NABET, and is doing a FINE job in a TOUGH spot.....*Jim Brown* declined the re-election several months ago, due to pressing outside activities and *Ben* stepped in.....*Jim* is an exceedingly hard man to follow, but *Ben* is holding his OWN and merits the respect of the entire membership.

FX.....as mentioned LAST time, we believe, the Hlyd NBC Sound Effects Department are now members of NABET, and if have not ALREADY, we say WELCOME to our MIST.....they number some 17 or 18 men and a GAL, all bossed

To Page 106

Greetings



From

JACK CARSON

CBS Friday Evenings

Groucho Marx

"You Bet Your Life"

A JOHN GUEDEL PRODUCTION

Thanks for Everything



HENRY RUSSELL

Director of Music • Western Division • N. B. C.

MEREDITH WILLSON

For JELL-O



"AND THERE I STOOD
WITH MY PICCOLO"

Merry Christmas

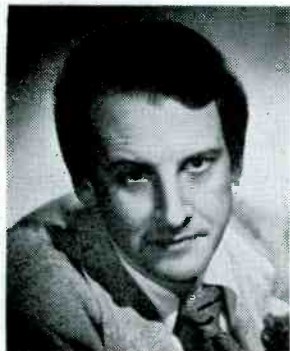
from



Red Skelton

Greetings

DAVE KLEIN



Many Thanks for
adding a

HANS CONRIED

and mixing well

CONGRATULATIONS!

WE LOVE OUR EGBERTS

(Engineers to You)

BOB McGAUGHEY

HARVEY O'CONNOR

NORM DEWES

HAWTHORNE

ABC Coast to Coast

RCA-Victor Records



William Morris Agency, Inc.

EST. **XXX** 1898

NEW YORK • BEVERLY HILLS • CHICAGO • LONDON



HOLLYWOOD—from page 101

by genial *Don De Wolfe*, formerly NBC Operations Super..... they are all pretty CAGEY fellows, altho most of them run LOOSE most of the time, making queer noises, etc., but are LOATH to part with any NEWS.....have managed to glean however that many are sportively inclined, *Bud Tollefson* and *Monte Fraser* going in or rather OUT for the inter-departmental soft-ball league, *Tiny Lamb* coaching the men in the football ditto and *Floyd Caton* a fisherman of some renown, having caught a swaft of 22" trout in the Colorado River last vacationapproached *Fred Cole* on the subject of sports, but he sez that ".....he has ALL that he can HANDLE!....." The TAPE bug has bit the department, and some of the boys are making safaris with one of NBC Field's portable jobs, searching for better and NEWER sounds.....WE know where they could go for some interesting NIGHT sounds, but then that wouldn't be CRICKETS, would it.....(Yowlf, yowlf, yowlf.....) Will try to dig up MORE turf (Oyes, some shoot some pretty good GOLF, too.....) on these men next time.....they are all REAL CHARACTERS.

AROUND 'N ABOUT Page Boy, pushing *Lionell Barrymore* out thru the halls is his wheelchair after his "Mayor of the Town" show several months ago and JUST as he was going into the FAR TURN to the Artists' Entrance, Page Boy turns to look over his shoulder at a pretty girl coming down the line and CRASHES into one of those sand-filled umbrella stand ash stands.....you should have heard the LANGUAGE.....*Barrymore* at his BEST.....and up in Music Rights, they have some VERY beautiful creatures whom we ALL WONDER whether they are ASCAP or PD.....or per-

To the Engineers who
make bad voices like
mine sound good

Ira Blue

ABC San Francisco



HELLO, AGAIN

Dwight Newton

Schoolcast
KGO

Newton News
KNBC

haps BMI (Be Mine Instantly.....).....when WE tried to find out, all we got were some Music LEFTS.....and the little polite signs over the exit doors of the Sunset buses cautioning, "Please Do No Leave Arm in Door When Alighting".....and the neatly lettered ones tacked on the bases of some palm trees on the corner of 1ST and New Hampshire near KFI's Studios reading, "Chemically Treated—Dogs Beware!".....and the brake shop advertising, "Brakes Relined—While You Sleep".....and a car dealer on Sunset Blvd. "Atwater & Fish".....and the sign out in the Valley, on the road to Van Nuys, "For Sale: Nine Red Laying Hens and One Red Rooster, In Fair Condition".....and the one over the door of the linoleum store, "LINOLEUM LOUIE.....I'LL FLOOR YOU!".....and the one that REALLY worries us, "No Parking Only".....just THINK about it for awhile.....and the multiple jacks in Studio "G's" console jack strip which are marked "XXX" and "YYY" and then in the upper right hand corner there are four sets marked "ZZZ".....soHELPlus, everytime we glance up and notice these we find ourselves FALLING ASLEEP.....it's VERY embarrassing.....they should be CHANGED.....ZZZ.....ZZZ.....ZZZ.....and the sign in front of the Burbank Real Estate Office, "Geiger Counters for Sale or Rent—Your Speciman Analyzed for Uranium".....sure hope OUR'S wouldn't show any.....any, we haven't been NEAR any radio-active uh.....uh.....uh.....and ABC News Chief *Frank LaTourrette* enquiring if we knew the Engineers' Motto and we said, "No, Frank, what ICS the Engineers' Motto?" and Frank sez "Twirly to Bed and Twirly to Rise!".....get it.....engineers, knobs, dials.....and WHAT HAPPENED to the pickture we were supposed to see in the BEJ of the St. Lawrence Chapter reportess *Aleen Corbin??*.....and WHY don't we hear from her OFTENER??.....bet she's a CUTE KID.....and the new occupational disease, Engineers' Arthritis....."sometimes too stiff to do the remotes".....and the new Superlative for a Super-Gal, "Hubble, Hubble!!!!".....and the Slogan on the side of our pencil, "Half the Pressure—Twice the Speed".....and announcer *George Fenniman* strolling into KECA Master Control and picking up a small 6 DB can type pad and asking, "What is THIS?" and the MCRE sez "That's a PAD" and George sez "What does it DO?" and the MCRE replies, "Why it introduces insertion loss, OF COURSE".....and the sign over on Vermont Avenue, "Free Dirt. Apply ——— Mausoleum Co.".....and over on Pico Blvd., "The House of Slumber—Everything for the Bedroom" and out of CURIOSITY we stopped and WENT IN, but the clerk glared at us and said, "Certainly, NOT!".....

VERY..... best of Season's Greetings and Luck for the coming year, to all Ships and Stations.....BCNU

Merry Xmas and Happy New Year

—from—

"JOLLY" BILL STEINKE

And His

"MAGIC CABLE CAR" - KNBC



A High-Level In-Focus

Holiday

To You All

Ed Herlihy



THANKS, FELLOWS

from

Galen Drake



Merry Christmas and
Happy New Year

The Smoothies

BABS MASON

CHARLIE RYAN

LITTLE RYAN

Telephone Exchange

J. J. FREKE-HAYES

Executive Director

Lexington 2-1100

595 FIFTH AVENUE

NEW YORK 17, N. Y.

In Appreciation

W. W. CHAPLIN

Season's Greetings

—from—

Rocky Mountain Chapter NABET

KOA

KFKA



Sincerely

VINCENT LOPEZ



Well Howdy Doody!



Thanks for Everything Fellas

BOB SMITH



MILTON BERLE



Meet the Men at NABET's Helm



J. R. McDonnell

President
NABET

John R. McDonnell was born at Spokane, Washington, in 1911. In 1926, he was first exposed to radio broadcasting as a member of the Radio Club at the North Central High School, Spokane. Mac obtained his first broadcast license in 1929, and when the school station was sold to commercial interests, Mac went along with the station as its first employee. In 1933, he migrated to California—in quest of BIG PAY IN RADIO—and worked as technician, announcer, salesman, etc., until 1941, when he joined the NBC Engineering Dep't in San Francisco; he subsequently transferred to ABC San Francisco Engineering, to date. McDonnell has served NABET as Chairman of the San Francisco Chapter NABET, Member of the Board of Trustees of NABET's *Broadcast Engineers' Journal*, as NABET Vice President, Member of the National Council, and he has been President of NABET since January 1948.

Arthur W. Hjorth

Vice-President
NABET



Arthur William Hjorth was born in Philadelphia, 1905. He attended the Philadelphia School of Wireless Telegraphy 1922-1923, obtained his ham license in 1922. Worked at WIP with his first commercial license, 1923. Hjorth shipped out as "sparks" between 1923-1926, when he became a newspaperman with the Houston Chronicle. Built and was part owner of KFVI—in search of BIG MONEY IN RADIO. Went with KPRC Houston, and joined the NBC Chicago Engineering Dep't in 1942, and still there as Studio Engineer. His hobbies include ham radio, commercial photography, and he is a member of the Society of American Magicians. During the war, he taught high frequency techniques and math at Illinois Institute of Technology for three years. Hjorth has

served NABET as Councilman, Chairman of the Chicago Chapter, Member of the Executive Board, and Vice President of NABET, and still trying to get BIG MONEY in radio!



Harry E. Hiller

Secretary-Treasurer
NABET

Harry E. Hiller is well known to radio. His first training was acquired at the YMCA Radio School. During the First War, he was a code instructor. Hiller's vast career includes the Edison Company, I. T. & T., and the then Westinghouse stations WJZ, WBZ, and KDKA. He was in charge of remote pickups and alternated as announcer at WJZ in 1922. He was with WNYC from 1924 to 1927 when he joined "Roxy" and handled the Roxy Theatre sound until 1931, when he followed Roxy into the Radio City Music Hall and Center Theatre. Hiller remained as Sound Supervisor at the Center Theatre until 1937, when he joined the NBC Engineering Dep't as Studio Engineer, with a brief leave of absence as Sound Engineer at the New York World's Fair 1939. Harry is a Member of the IRE, and served NABET as Chairman of the New York Chapter, Member of the Board of Trustees, Secretary, and Treasurer of NABET's *Broadcast Engineers' Journal*, National Councilman, and is now National Secy.-Treasurer, and Executive Secretary of NABET.

Cliff Gorsuch

National
Representative
NABET



Cliff Gorsuch was elected a NABET National Representative at the 1946 NABET National Council Meeting. He was born in Pittsburgh in 1917, and attended Keystone Engineering Institute. Gorsuch was employed in the engineering operations of a number of broadcast stations including KDKA; he installed and put on the air a number of new stations, and served as Chief Engineer at several of these stations. He

served as Instructor in the ESMWT war training program, and was commissioned in the Signal Corps, AUS. He served as engineering officer, and was active in Africa and the Middle-East, and India-Burma theatres. Cliff believes that broadcasting and NABET are here to stay!



George Maher

National
Representative
NABET

George Maher was elected a NABET National Representative at the Special Meeting of the NABET National Council, January 1948. He was born in Kansas City, 1911. He attended high school in Arkansas, and enlisted in the U. S. Navy, specializing in radio. In 1933, Maher joined the NBC-San Francisco engineering staff. After three in San Francisco, he transferred to NBC-Chicago, and in December 1944 he resigned to get into the advertising agency business—in quest of MONEY—he couldn't feed himself and family on the salaries paid to broadcast engineers. From Agency to Free-lance producer, and finally set up his own agency. George had kept an eagle eye on the whole broadcast engineering picture, and is now serving the NABET membership in the Mid-West area, still in quest of BIG MONEY in Radio!



Bob Rudd

Chairman
Omaha Chapter
NABET

F. A. "Bob" Rudd was born at Bellevue, Ohio, in 1909, and has lived in Omaha since 1924. His radio career started via amateur radio in 1927. He was graduated from Omaha Technical High and has pursued the elusive electronic art and today he is one of WOW's qualified TV engineers. Rudd's first commercial experience dates back to 1931 and a police installation at Omaha. He has been with WOW Engineering Dep't since 1934. His prime hobby is amateur radio, he is a member of the IRE, Old Timers' Club, ARRL, and the Pioneers Club.

His NABET service includes Journal Associate Editor for Omaha, and Chairmanship of the Omaha Chapter of NABET.



Donald Hale

Chairman
Hudson Chapter
NABET

Don Hale was born in Camden, N. J., in 1915, and got into radio via graduation from RCA Institutes. He joined the WOR Engineering Dep't in 1936, handling studio, field, and theatre broadcasting. He was commissioned Ensign in the Navy in 1943, and served variously as Radio Officer, Naval Research Labs, and the Electronic Field Service Group, and returned to civilian broadcasting at WOR in March, 1936. Hale was elected Chairman of the Hudson Chapter NABET in August 1948, and he has served on the Nabet National Council since. His hobbies are ham radio and small children.

C. Westover

Chairman
New York Chapter
and
Executive
Secretary-Elect
NABET



C. Westover was born in the Gopher State, 1905, and got his start in radio via the Western Electric Co. in Chicago, left to join the Navy, took the Navy Radio Course ... and finally decided to get into BIG MONEY after enlistment expired. He serviced radios for a while, married, and after marriage found he needed BIGGER MONEY, employed by CBS Engineering Dep't 1929-1932, still looking for BIG MONEY. Joined NBC Engineering 1933 to date, STILL looking for big money! Westover has been active in NABET for the past several years, losing sleep and hair, getting paunch but NOT big money. He is presently Chairman of the New York Chapter NABET.



N. A. B. E. T

OF - BY - and FOR the

BROADCAST ENGINEER

—SEE PAGE 4—

DIACOUSTIC LABORATORY

Reproducer and Cutting Styli Service
Diamond and Sapphire Replacement
Points, Micro-Groove Cutters and Play-
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FOR
TELEVISION

Write for Bulletin No. 53

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33rd St. and 7th Ave. — across the street from
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- Ideal for BROADCASTING
- RECORDING
 - PUBLIC ADDRESS

"The ultimate in microphone quality," says Evan Rushing, sound engineer of the Hotel New Yorker.

- Shout right into the new Amperite Microphone—or stand 2 feet away—reproduction is always perfect.
- The only type microphone that is not affected by any climatic conditions.
- Guaranteed to withstand more "knocking around" than any other type mike.

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List \$42.00



"Kontak" Mikes
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Season's Greetings

« To »

NABET

« From »

Bruhn Bros.

91-20 - 146th STREET

JAMAICA, N. Y.

Tele. JAMaica 6-3928

Printers

of the

Broadcast Engineers'

Journal

and this

YEAR BOOK



FOR FINER ALL-WEATHER RECORDING



Now **audiogram*** lacquer provides permanent resistance to humidity

Excessive humidity has long been one of the industry's major problems—both to the manufacturer and to the recordist. Humid conditions in factories have frequently held up production and caused excessive spoilage. Also, discs which have absorbed too much moisture make poor recordings. The noise level increases progressively while recording and the cut gets greyer and greyer.

Air conditioning has been tried by several producers, but this does not prevent moisture absorption during transportation and storage. The real solution lies in the formulation of a lacquer which will provide permanent resistance to humidity. This has now been successfully accomplished by our research laboratory. Here are the facts:

1. THE IMPROVED AUDIODISC FORMULATION has eliminated all production difficulties due to excessive humidity. During the past summer no trouble was encountered, even with humidity as high as 90%.

2. COUNTLESS TESTS in our "weather room" have proved the new AUDIODISCS to be remarkably resistant to moisture absorption. Discs subjected to a temperature of 90° at 80% to 90% humidity for many weeks show no increase in noise level while recording. Ordinary discs, under the same conditions, show a noise level increase of from 15 to 25 db. The most conclusive proof of all, however, has come from the field—for during the past summer, one of the most humid on record, our customers have reported no difficulties in recording or reproduction due to humid conditions.

3. THIS "WEATHER-PROOF" FEATURE has been achieved without any basic change in our lacquer formulation. Recordists will therefore continue to note the outstanding qualities in recording, playback and processing which have made for AUDIODISC leadership.

This improved humidity-resistant lacquer is now used on all AUDIODISCS. It is your assurance of finer, all-weather recording—with the same consistent, uniform quality which has characterized AUDIODISCS for a decade.

*Reg. U. S. Pat. Off.

Audiograms are manufactured in the U.S.A. under exclusive license from PYRAL, S.A.R.L., Paris.

Audio Devices, Inc., 444 Madison Ave., N.Y.C.

EXPORT DEPT: ROCKE INTERNATIONAL, 13 EAST 40TH STREET, NEW YORK 16, N. Y.



they speak for themselves **audiograms**

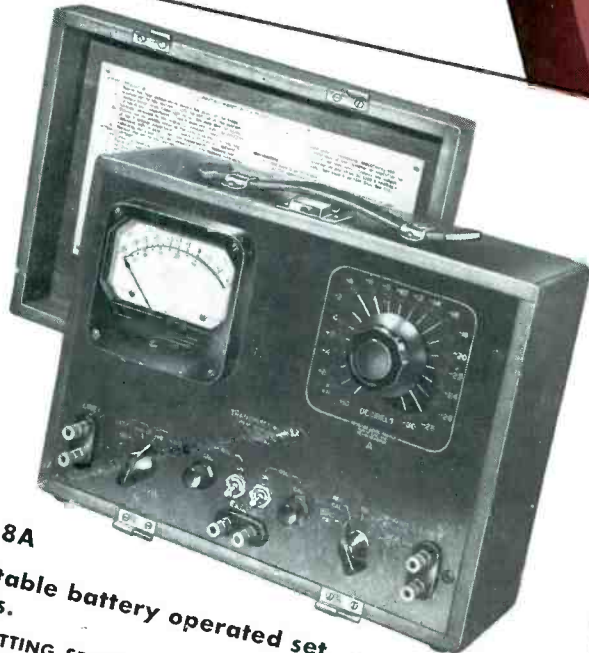
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TRANSMISSION MEASURING SETS

To accurately measure transmission characteristics of audio systems and their components

These transmission measuring sets are accurately designed instruments for the measurement of the transmission characteristics of audio frequency communication systems. This equipment may be applied to measure gains or losses through amplifiers, repeaters, attenuating networks or communication lines without the use of laborious calculations, complex setups, or sensitive meters.

The sets shown here are sturdy compact units built to exacting specifications. Your further inquiry is invited. Technical questions will be answered by our Engineering Department.



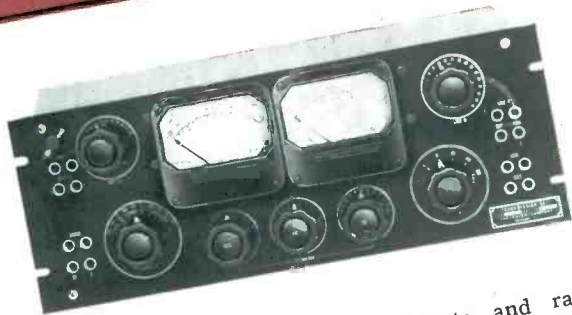
TYPE 8A

A portable battery operated set . . . weight 14 pounds.

TRANSMITTING SECTION: Contains an internal oscillator, operating at a frequency of 1000 cycles. Output impedance is 600 ohms either balanced or unbalanced to ground. Output levels are 0 DBM* and -20 DBM*.

RECEIVING SECTION: Frequency response is ± 0.3 DB from 30 to 10,000 cycles. Input impedance is 600 ohms terminating, and 6300 ohms bridging either balanced or unbalanced to ground. Will measure levels of -30 to +10 DBM* at zero VU meter indication, when terminating a line.

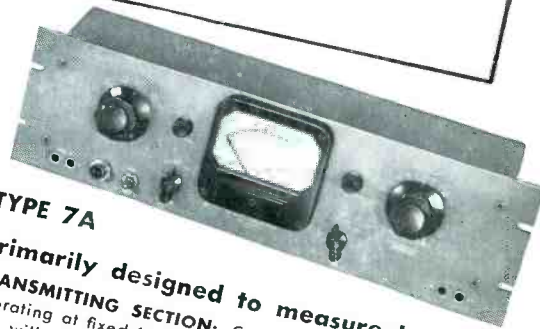
DIMENSIONS: 9 3/4" high x 6 1/2" wide x 12 7/8" long.



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1. Completely shielded wide range isolation transformers used in the Input, Source and Load networks. Set functions equally well from balanced or unbalanced oscillators and measures balanced or unbalanced systems.
2. Accuracy ± 0.1 DB, 50 cycles to 15 KC.
3. Accuracy independent of level over the range +26 to -100 DBM.
4. Attenuation steps of 111 DB in steps of 0.1 DB.
5. Source and load impedances within $\pm 2\%$ over range 50 cycles to 15 KC.



TYPE 7A

Primarily designed to measure losses.

TRANSMITTING SECTION: Contains an internal oscillator operating at fixed frequencies of 500, 1000, and 2500 cycles and will provide output levels of -13, 0, +4, and +10 DBM*.

RECEIVING SECTION: Frequency response is ± 0.3 DB from 30 to 10,000 cycles. Will measure levels of -30 to +10 DBM* at zero VU meter indication when terminating a line. Impedance is 600 ohms in both the transmitting and receiving sections.

* DBM is based on a reference of 1 MW into 600 ohms.

THE **DAVEN** CO.

191 CENTRAL AVENUE
NEWARK 4, NEW JERSEY