

THE BROADCAST ENGINEERS' JOURNAL  
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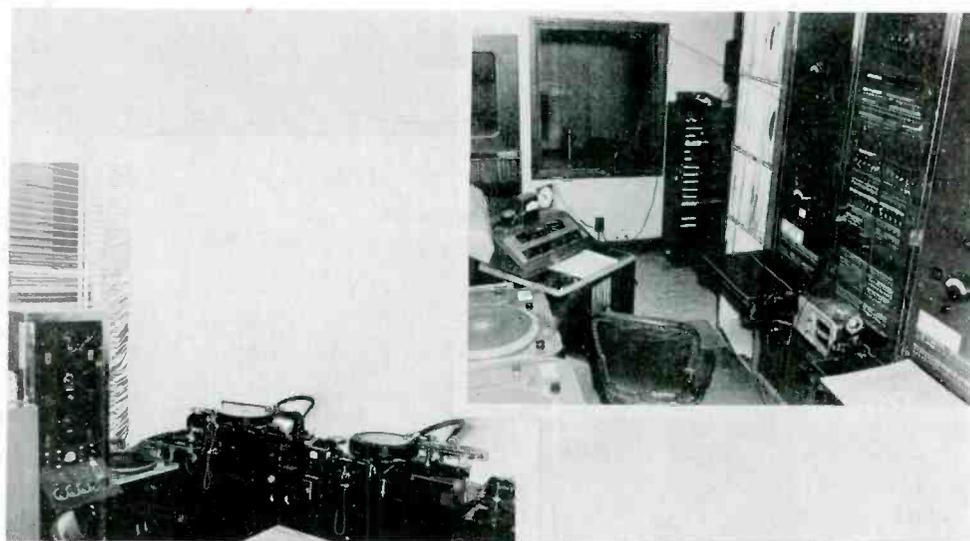
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# The Broadcast Engineers' Journal

*Since 1931 . . . Of, By, and For The Broadcast Engineer*

**MAY  
1945**

**VOL. 42  
No. 5**



WOW Photos by Munkhof

## This Is WOW

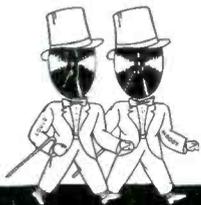
# GOULD-MOODY "BLACK SEAL" GLASS BASE INSTANTANEOUS RECORDING BLANKS . . .

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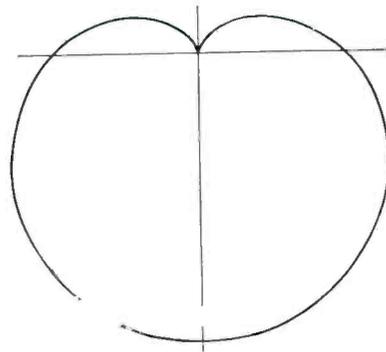
# THE GOULD-MOODY COMPANY

RECORDING BLANK DIVISION

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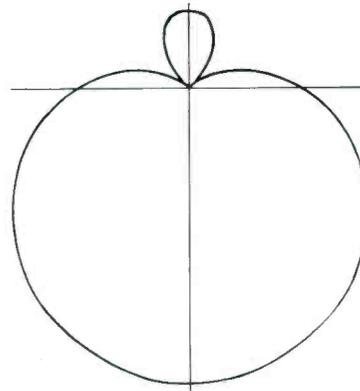
## .. This is Cardioid

"Cardioid" means heart-shaped. It describes the pickup pattern of a microphone as illustrated in this diagram. Unwanted sounds approaching from the rear are cancelled out and the pickup of random noise energy is reduced by 66%. The actual front to back ratio of reproduction of random sound energy is 7 to 1.



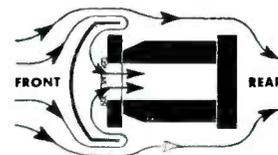
## .. This is Super-Cardioid

"Super-Cardioid" also describes a pickup pattern and is a further improvement in directional microphones. The Super-Cardioid has a wide front-side pickup angle with greater exclusion of sounds arriving from the sides and the rear. The front to back random sound ratio is 14 to 1 which makes it twice as unidirectional as the "Cardioid." A 73% decrease in the pickup of random noise energy is accomplished.

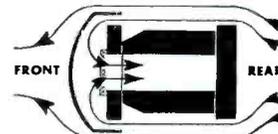


## .. This is Uniphase

"Uniphase" describes the principle by which directional pickup is accomplished in a single Microphone unit. This is a patented Shure development and makes possible a single unit "Super-Cardioid" Directional Microphone eliminating the necessity of employing two microphone units in one case—it gives greater uniformity in production, greater ruggedness, lower cost for comparable quality and more uniform vertical pickup pattern.



Sounds entering from front.



Sounds entering from rear.

## .. This is the result

### The SHURE Super-Cardioid

A decrease in the pickup of random sound energy by 73%—reduction of feedback and background noise—simplification of sound pickup are among the many advantages offered by the Shure "Super-Cardioid" Dynamic. These, plus faithful reproduction, are the reasons why Shure "Super-Cardioid" Microphones are used by more than 750 Broadcast Stations in the United States alone, by our Armed Forces throughout the world, and on thousands of Public Address Systems everywhere.

## SHURE BROTHERS

Designers and Manufacturers of Microphones and Acoustic Devices  
225 West Huron Street Chicago 10, Illinois



# NABET Activity

NABET elections will be held during the first week of May, and the results will be reported next month . . . NABET has just signed a contract with WMAL providing the highest scales in the industry, starting technicians at \$248 to \$395 in six years, with supervisors at \$500 a month. Welcome to WGRC, Louisville, latest addition to NABET.

## CHICAGO NEWS

By Arthur Hjorth

"Graveyard shift" Supervisor **Al Otto** has the distinction of being the only NABET member with a last name that spells backwards, O-T-T-O. He is very proud of this.

**Glenn Webster** of the Parkridge Webster's has been papering his home, also growing a mustache and was observed studying a book on **How to Prepare Your Income Tax** on March 16th. A very busy fellow.

**Lee Tolleson** on the Bowman Milk Company show is sent a quart of milk each day by the sponsor. Unable to drink it all since the draft board may learn of his gain in weight. **Lee** also took the first dip of the year in Lake Michigan, March 18th, to be exact at 3 AM, purposely too, in a bathing suit. A very rugged character.

At 5:20 AM, March 19th, an 862 with 22,971 hours went out at the "Q" transmitter. **Arryl Aldred** made the replacement in eight minutes with two minutes to go before air time. The world's record is six minutes.

**Ed. Allen** received a large (adult size) coffee cup with his photo in the bottom and a large bow and poem attached wrapped in yards and yards of tissue paper as a surprise on his birthday while doing his **Early Bird** show. From his NBC admirers.

Effective with next month's issue this Chicago column will be taken over by my good friend **Kermit Slobb** of the BLUE. Help him fellows, he's a swell guy. Thanks for reading.

## WGN on the Job

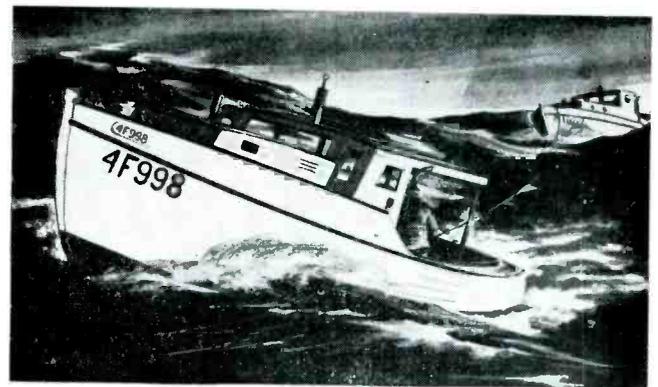
Eight of the top priority war plants in Chicago have been doing unusual promotion to keep the worker on the



job and to recruit new workers. In cooperation with the army, navy, wartime agencies, the Chicago Tribune and radio station WGN, the war plants have sponsored a series of Monday night radio programs entitled **AMERICA UNLIMITED**. The story of each war plant's heroic contribution to the allied war effort has been dramatized with actual sounds recorded at the production line.

With a full orchestra, chorus and dramatic cast totalling 75 entertainers, the **AMERICAN UNLIMITED** radio programs resulted in hundreds of new war workers and heightened morale, according to war plant officials. Beginning in mid-February, the half hour programs were sponsored by the Republic Steel Corporation, making ammunition; Pressed Steel Car Company, Inc., tanks; Ingersoll Steel & Disc Division of Borg-Warner Corp., ammunition; Aluminum Company of America, landing mats; Electro-Motive Division of General Motors Corp., Diesel engines; Western Electric Company, communication equipment; Buda Company, Diesel engines and transportation equipment; and Hallicrafters Company, radio equipment.

## Truth Will Out



Rescues man in rough sea . . . out all night in disabled boat . . . Chrysler Engine withstood critical test . . .

Hollis Young and George Webb of Scituate, Mass., are lobster fishermen. Daily for about ten months of the year each handles about 125 lobster traps. One night when there was a 35 mile-an-hour blow, George Webb did not return from his work. Next morning, although the Coast Guard had been notified, Hollis Young got impatient, started his Chrysler Crown engine and put out to sea in the storm in his own boat, the "Idle Along," to look for Webb. The sea was running very strong, but the engine did not falter and Young finally found Webb, whose boat had drifted far from his lobster traps.

In beating all other searchers to the drifting boat, Young says the Chrysler engine was superb. He had confidence in it even under the severe conditions encountered in making the rescue and towing in the other boat in the storm.

Young installed the Chrysler Crown engine last summer, replacing a marine engine of another make. He is exceedingly pleased with it, and George Webb is going to put one in his boat next spring also. He's had a lesson in engine performance.

MARCH, 1945



"My business of lobster fishing," says Hollis Young, "demands an engine that will cruise along all day, every day, in all sorts of weather, and service 125 traps. Besides, it must power the winch for lifting each trap. It must deliver speed and power to get me back to shore fast, with the day's catch to get a jump on the market. The Chrysler Crown does all I ask of it. It's a great engine, and I'm highly pleased with it. When I went out looking for George Webb that time, I knew I could depend on my engine to see me through."

### THE CHRYSLER MARINE ENGINES

ACE CROWN ROYAL DIESEL  
80 To 161 Maximum Brake Horsepower

Hollis Young's "Idle Along" is 43 feet long, has a 12-foot beam. The engine has a 2 to 1 reduction gear, and has an auxiliary pulley drive for a winch which raises the lobster traps, sometimes from a depth of 150 feet.

The dependability of the Chrysler Marine Engine is vital to any boat or fleet owner. Consult the nearest Chrysler Marine Engine dealer now. He's near you to help you.

61

No wonder why "Pappy" Young was always bragging about the very big lobsters he caught. We thought it was the hackneyed fish story, but quite by accident we saw the "ad" in "Motorboat" for March, 1945 . . . It's reproduced above. More power to you, dear Lobster Fisherman!

# THE BROADCAST ENGINEERS' JOURNAL

Ed. Stolzenberger  
Editor

Coordinator ..... F. R. Rojas

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## TABLE OF CONTENTS

	Page
NABCT Activity .....	2
Chicago News .....	2
How Large Screen Television Works .....	5
RCA Projection Kinescopes .....	6
Meet the Boys at Omaha .....	7
New York NBC/Blue News .....	9
Washington News .....	12
50 kw Chilean Station Opened .....	13
A. T. & T. Co. Relay Station Sites .....	15
Rochester News .....	16
From Hollywood .....	18
Feedback from KGO .....	21
From San Francisco .....	22
Doings in Denver .....	23
Hudson Chapter News .....	24
Dixie News .....	25
The Whale—Big Game .....	26
Paging Ripley—Poem .....	27
Detroit Chapter News .....	28
Omaha Chapter News .....	29
Los Angeles News .....	32

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# "Here's how Courtney checks up on Courtney!"

*Alan Courtney*



## "...via a PRESTO recorder"

"An announcer must check up on his technique constantly," says Alan Courtney, popular announcer of WOV's *1280 Club* program. "My own way of doing this is to make frequent recordings of my voice on a portable PRESTO recorder. Then, by listening to the records, I can get an idea of how I sound to the radio audience. Naturally, the accuracy of the recording is of the utmost importance. I find a PRESTO recorder

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# PRESTO

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# How Large Screen Television Works

Technical advances featured in RCA Victor Television Receiver mean much larger, brighter, clearer images.

THE size, brilliance, clarity, and steadiness of images reproduced by the new RCA Victor large screen home television receiver are made possible by four separate technical developments, the basic principles of which were developed by engineers of the RCA Laboratories and the RCA Victor Division before the war. (Size of the picture image on the advance development model that was demonstrated is 21-1/3" x 16".)

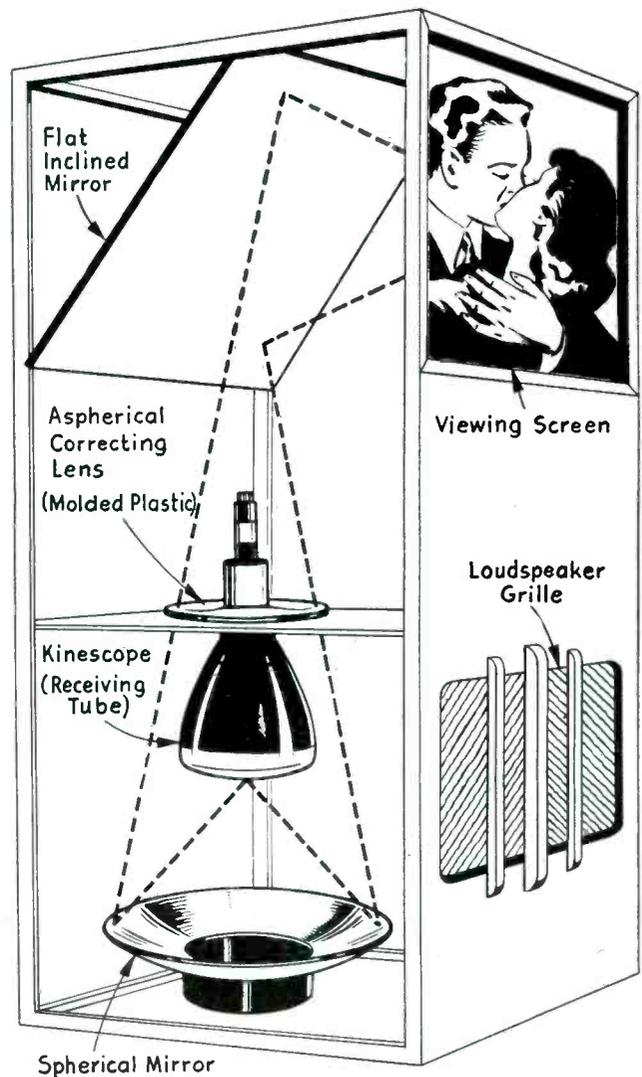
1. A reflective optical system which collects from the image on the receiving tube and projects onto the viewing screen about six times as much light as could be delivered from tube to screen by a conventional F:2, movie projection lens, without loss in image quality.
2. A built-in translucent plastic viewing screen with molded surfaces designed for even distribution of light over the area of the screen and distribution of transmitted light within the normal viewing angle.
3. An automatic frequency control system which virtually eliminates picture distortion caused by interference from automobile ignition and other noise impulses.
4. A new high-voltage type of cathode ray tube which produces a brilliant initial image on the face of the cathode ray receiving tube.

## The Optical System

The optical system, which was developed by RCA Laboratories engineers before the war, consists primarily of a spherical front surface mirror and an aspherical correcting lens. The mirror may be visualized as a shallow bowl, with its reflective coating on the concave surface facing the light source. The lens is flat on one side, with the opposite surface rising slightly at the center and at the edges, but depressed in the intermediate area.

The system is mounted with the picture end of the receiving tube facing downward through an opening in the center of the lens and facing the center of the mirror. Images appearing on the face of the tube are picked up by the mirror and reflected through the aspherical lens to the back of the viewing screen.

The great light gathering power of this optical system makes it possible to transfer to the viewing screen a large percentage of the light produced on the face of the tube, whereas the efficiency of a conventional projection lens in such an application is extremely low. The function of the aspherical lens is to bring the light reflected by the mirror to a sharp focus on the screen. A major obstacle to the development of the system was the time and cost involved in making aspherical lenses from glass, RCA engineers



Large-screen television for the home, providing bright, high-definition pictures on a built-in screen 21 1/3 x 16 inches, is made practicable by this ingenious optical system, developed prior to the war by the RCA Laboratories. Broken lines indicate the path of light beams from a single picture element on the face of the cathode ray receiving tube to a corresponding point on the screen. A plastic lens is used to bring these light beams to a sharp focus on the screen. The combination of spherical mirror and correcting lens delivers to the screen about six times as much light as could be obtained if a conventional F:2 movie projection lens were used. An advance development model of this type of receiver was demonstrated by RCA Victor at the NBC Studios in Radio City.

solved the problem by devising methods and equipment for molding the lenses from a transparent plastic material.

## The Viewing Screen

Two different optical problems have been overcome by special features of the new translucent plastic viewing

screen developed by RCA. One problem faced by the designers was the tendency which the screen would normally have to develop a "hot spot," resulting in a glare in the center and insufficient light in other parts of the image. The other problem was the need for distributing a major portion of the transmitted light to the area which spectators would occupy in relation to the receiver.

Solutions were found in a combination of principles which have been incorporated in the molded design of the screen assuring both even distribution of light over the image area and proper distribution of transmitted light within the normal viewing angle.

RCA's automatic frequency control discriminates between the transmitted synchronizing impulse and any stray noise impulse, which otherwise might trigger the saw-tooth wave voltage prematurely, by fixing a time interval for the former and shutting out impulses which do not arrive on schedule.

Without some such control, noise interference could throw the scanning beam in the receiver out of synchronization with the one in the transmitter, causing the former

to "black out" and return on some lines of the picture before they were completed. "Tear outs" and ragged edge effects would result. Preventing this form of distortion, the RCA system regulates reception in somewhat the same way that a fly-wheel regulates machinery.

#### High-Voltage Cathode Ray Tube

The high-voltage cathode ray tube used in the new RCA Victor large-screen home television receiver is substantially smaller and lighter in weight than the pre-war direct-viewing picture tubes. This means smaller, lighter, and less costly home receivers, and may mean lower tube replacement costs.

Designed to operate at a rated voltage of 27,000 volts—nearly four times the voltage used in prewar picture tubes—the new tubes produce a much brighter initial image. This high initial brilliance, in conjunction with the efficiency of the optical system, makes it possible to obtain from a tube with a face diameter of only 5 inches a bright, clear image on the screen that is more than 5 times as large as could be produced on a pre-war direct-viewing tube with a face diameter of 12 inches.

---

## RCA Projection Kinescopes Solve Large-Screen Television Problem

The new "little giant" television picture tubes which RCA has developed experimentally to provide the post-war world with large-screen home television reception are the long-sought answer to a three-pronged problem, it was revealed last week by L. E. Swedlund, RCA Tube and Equipment Department engineer.

The problem, Swedlund told the Philadelphia Section of the Institute of Radio Engineers at a meeting (April 5) at the Franklin Institute, in Philadelphia, was that of reconciling the production of large, bright television images with the use of a compact, attractive receiver cabinet and reasonable tube costs.

The small-sized, high-voltage tubes which, in conjunction with special optical systems, have solved this problem, combine the essential requirements of high image brilliance and definition, small size, and reasonable cost. They are the product of continuous research and development spanning more than fifteen years and involving the solution of problems in phosphors, insulation, optics, and the generation and control of high-current electron beams.

In pre-war television receivers, images were viewed directly on the face of the picture tube or kinescope. The face of the tube most commonly used was 12 inches in diameter and provided an image  $7\frac{3}{8}$  by  $9\frac{3}{4}$  inches. It was recognized that the largest tube it would be practicable to make, with a face diameter of 20 inches, would provide a directly-viewed image only 15 inches wide. Such a tube would be costly and could only be housed in a large, bulky cabinet.

For these reasons, when means of producing larger images were sought, tube research was directed toward the development of projection kinescopes, rather than toward the use of larger directly-viewed tubes. The need for a small tube capable of producing a very bright image dictated the use of high voltages for the electron beam used to "paint" the image on the fluorescent face of the tube, but until several difficult problems were solved, the use of high voltages was found incompatible with other essential factors.

One such problem was the effect of high-voltage electron bombardment on the phosphors used for the fluorescent screen. It was necessary to synthesize a compound which, without sacrifice of light efficiency, would stand up and give long service under such bombardment.

Another problem was the tendency of high voltages to cause a voltage breakdown between electrodes in the tube. This was overcome by polishing all parts to remove any points or protuberances which might serve as terminals for an arc of current, increasing the spacing between electrodes, and achieving an extra-high vacuum when evacuating the tube.

There was also the problem of reconciling high current with sharp focus for the electron beam. Since the difficulty of achieving good focus increases proportionately with an increase in current, the solution of an intricate design problem was required to obtain the most satisfactory results.

Still another problem, in the field of optics, required the attention of tube engineers in connection with the design of face plates for the small, high-voltage tubes. A sealed-on flat face plate is incorporated in tubes to be used with refractive optical systems, while the more conventional curved face plate is used with a reflective optical system. It was pointed out that the curved face plate must be flawless, since it acts as a lens and any imperfection would be magnified in the projected image.

The success with which these difficulties have been overcome was indicated by the performance of a developmental RCA high-voltage projection kinescope in recent tests in an RCA Victor engineering model large-screen receiver at the NBC studios in New York City. With a face-diameter of only five inches, this tube produced on the built-in viewing screen a bright, clear projected image 16 by  $21\frac{1}{3}$  inches, or five times the area of images obtainable on the 12-inch face of a pre-war direct-viewing tube.

Because of the brilliance of the initial image on the face of the smaller tube, the projected image was comparable in brightness with the smaller image on the face

## Projection Kinescopes

of the pre-war tube. The small size of the projection tube largely compensated for the space occupied by the optical system, permitting the entire unit to be housed in a cabinet about the size of a large radio console. The tube was operated at 27,000 volts—nearly four times the voltage used in pre-war picture tubes.

Important features of developmental RCA projection kinescopes are:

1. Simple bulb design in soft glass which is well suited to low-cost quantity production.
2. An electrostatic-focus electron gun which avoids the added cost of a magnetic-focus coil and at the same time permits the use of a low-cost voltage supply.
3. Magnetic deflection is used; deflection angle is 40°. No more deflecting power is needed at 25,000 volts than for a 55° angle directly-viewed tube operated at 9,000 volts.
4. A spherical face to match the RCA reflection-type projection system provides uniform focus at high brightness.
5. A high-contrast white-light fluorescent screen.
6. Reliable performance and good life.

## First Public Showing of G.E.Co. Large Screen Postwar Television Receiver

The first public showing of General Electric's large screen post-war television set will be held in the near future for leading Schenectady citizens, company executives, and the press. The receiver produces a picture about 18 by 24 inches.

The public demonstration also will be the first to use a broadcast signal to demonstrate projection television on a post-war set. Previous private showings of other sets of this kind have used wire lines for transmission. General Electric will use its television station WRGB to transmit the Blue Networks' program "Ladies Be Seated" which will be picked up by the new large-screen set.

The new General Electric receiver operates on the principle of projection, like the movies, and has a reflecting optical system similar to that used in observatory telescopes. The set also uses a new cathode ray tube about five inches in diameter.

### A. R. R. L. HANDBOOK

The 1945 Edition of the now world-famous A.R.R.L. Radio Handbook is out! To us, each edition seems bigger and better than the last; this one contains 512 pages of pertinent data and know-how accumulated over the years, followed by a catalogue of 200 pages of manufacturers supplies, parts, and complete units of equipment. To those who usually obtain the \$1.00 paper covered edition, we suggest trying the hard-covered edition for an additional dollar—it's well worth it.—Ed. S.

## MEET THE BOYS AT OMAHA

By G. Flynn

**T**HIS month, the "Meet the Boys" column features one of WOW's veteran engineers, Frederick A. Rudd, better known in radio circles as Bob Rudd. Bob has been with WOW since May of 1935 and will receive the coveted ten-year service award from the station soon. His tour of duty has covered everything from field work to his present job of transmitter engineer, including some sound



"Bob" Rudd

effects and even the reading of the news one morning when the announcer failed to show. (The listeners are still writing in about that.)

Now for some of Bob's background. He was born in Bellevue, Ohio, February 3, 1909, moving to Ontario, Canada, in 1913. Back again to Ohio in 1919, this time to live in Kenmore, a suburb of Akron. His early schooling, which started in Canada, was continued at Kenmore. A sidelight of Bob's stay in Ohio was the fact that he won the State freckle

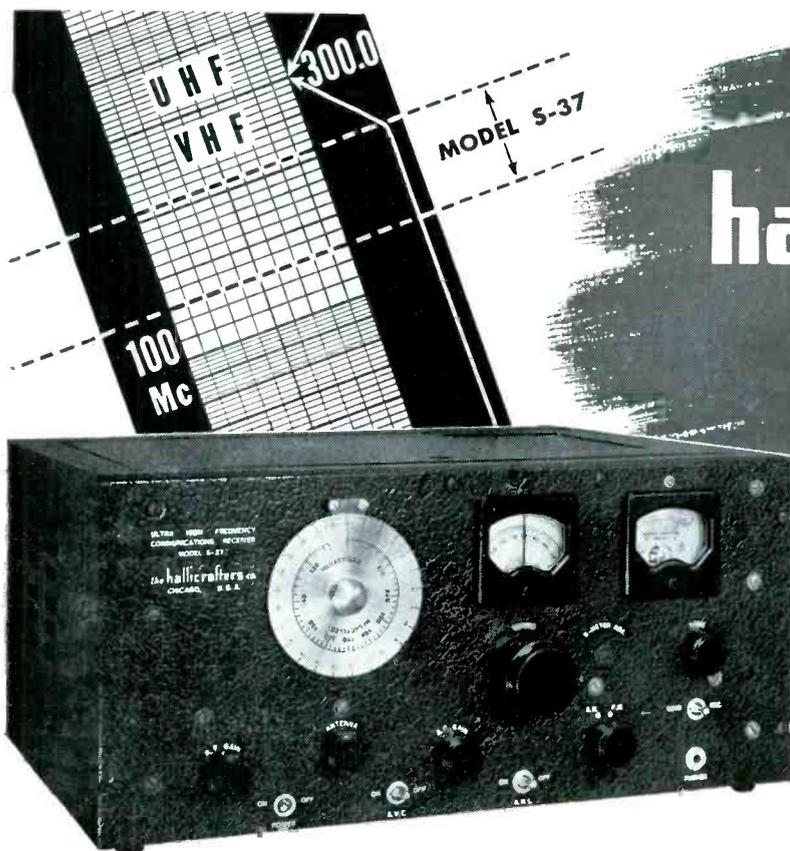
contest in 1922, the award, a \$25.00 Kellogg crystal set. (He still has the freckles but not the crystal set!)

In 1924, the family moved to Omaha where Bob enrolled in Technical High School. It was at Tech High that Bob met Orville Weimer, present Chief Engineer of the Blue outlet in Omaha, KOWH. Through Weimer, an amateur operator at that time, Bob became interested in the technical side of radio and in December of 1927 received his amateur license with the call W9EUT. Tech High at that time was operating an experimental broadcast station, KFOX, and so Bob enrolled in their radio course and was given the opportunity to help in the operation of KFOX.

After graduating from high school, Bob received his first commercial ticket, a Commercial Second. In 1933 this license was modified to a combination Telegraph Second and Telephone First. During the period before joining WOW, Bob helped with the installation of KGPI, the Omaha Police transmitter, and also did service work.

Now for the personal side. On September 26, 1931, Bob was married to Miss Edine Stephani, a schoolmaam from Rockwell, Iowa. Their fine little family answers roll call in the following order. Bill, age 11, Tom, age 9, and Janice, 7. The Rudds own their home on the north side of Omaha, high on a hilltop. At present Bob's main interest, aside from his work, is scouting. He is counselor for the Omaha Boy Scouts and a committeeman for Troop 19.

An active amateur for many years, Bob still retains his original call W9EUT. Prior to the war his main activity was on 10 meter phone and 40 meter CW. His list of countries worked is really something to see. During the war Bob's radio interest has trended toward more serious study of Wave Guides, Clamping Circuits, and the like.

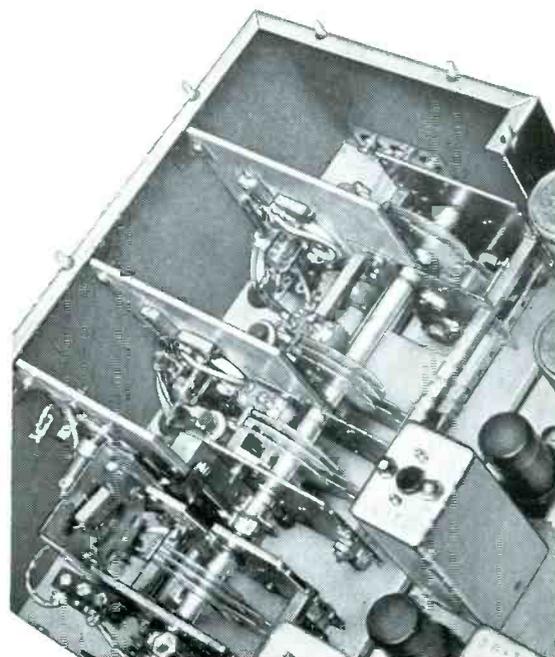


# HOW hallicrafters EQUIPMENT COVERS THE SPECTRUM

**T**HE new Model S-37 FM-AM receiver is an outstanding example of Hallicrafters pioneering work in the upper regions of the spectrum. Covering the frequencies between 130 and 210 megacycles, the S-37 provides VHF performance which is in every way comparable to that of the finest communications receivers operating in the medium and high frequency bands. The average over-all sensitivity of the S-37 is approximately 5 microvolts. The image ratio of at least 1000 times is achieved through the use of two pre-selector stages and an intermediate frequency of 16 megacycles. No band switching is necessary and exceptional ease of tuning is provided by mechanical band-spread with 2300 dial divisions between 130 and 210 megacycles. The pre-loaded gear train is completely enclosed and is equipped with a positive stop at each end of the tuning range. Hermetically sealed transformers and capacitors, moisture proof wiring, and extra heavy plating, all contribute to the long life and reliability of the S-37 . . . the only commercially built receiver covering this frequency range.

The amazing performance of the Model S-37 is largely due to the RF section shown at right. It is mounted as a unit on a brass plate  $\frac{1}{4}$  inch thick. The two type 954 RF amplifiers and the type 954 mixer are placed in the heavy shields which separate the stages. The type 955 oscillator is mounted directly on its tuning condenser. Exceptional stability is assured by the use of individually selected enclosed ball bearings, extra-heavy end plates, and wide spacing in the oscillator condenser — rigid mounting of all components — and inductances of  $\frac{1}{8}$  inch copper tubing wound on polystyrene forms. All conducting parts are heavily silver plated.

*Model S-37*  
**FM-AM**  
for very high frequency work  
130 to 210 Mc.



BUY A WAR  
BOND TODAY!

Write for Catalog No. 36J, describing  
Hallicrafters complete line of high  
frequency receivers and transmitters.

# hallicrafters RADIO



THE HALLICRAFTERS CO., MANUFACTURERS OF RADIO AND ELECTRONIC EQUIPMENT, CHICAGO 16, U.S.A.



—Photo by Joe Conn

## N. Y. - NBC NEWS

By George F. Anderson, Jr.

**A**H, SPRING, sunshine, birds, bees, flowers and trees in bloom. Oh, yes, must go up on the roof of the RCA Building and check the equipment. Beautiful view of New York Skyline also.

Well, let's see, ah here are the notes—Hmmm, we had a visitor this month from the South Pacific and also a returnee from Europe. **Captain James Coleman, USMC**, dropped in to look the place over again and see what had changed since he left NBC to work for Uncle Sam. Jimmie spent quite a few months in the So. Pacific area and saw quite a bit of action. He has added a few pounds of muscle to his frame and now he looks like the typical Leatherneck. Don't misunderstand, James is a very handsome young gentleman and he certainly looks like the excellent officer that he is.

**John Morrissey**, Recording, has also returned to NBC from the European theater of war, where he was engaged in recording on the spot, News Commentaries for rebroadcast here in the States. John spent several months abroad and was in several of the continental countries, among them Germany. He confirms all reports as to how the German city of Cologne looks. John is now back in recording and at the present has not said whether he will do any more traveling.

A newcomer to the maintenance department but not to NBC is **John B. Tracey**. John transferred from Sound Effects Department to Maintenance as of March 12, 1945 and he adds that on March 10, 1945, Mrs. Carol L. Tracey presented him with a seven and a half pound son, John B. Tracey 3rd. Johnnie the Third has light brown hair and is already in need of a haircut.

This last month saw NBC well represented in Florida. **George Butler, FE**, spent a week in Florida with Lowell Thomas and **Walter Mullaney** spent five weeks there with the Firestone Program. Both have returned safely but have lurid tales to tell, of the difficulties of transportation out

(Continued on Page Ten)

## N. Y. - BLUE NOTES

By Gil McDonald

**B**EGINS to look like we'll need a new name for this here column in a month or so what with the Blue being dropped in favor of American in a month or two. If any of you guys can think up a suitable title, send it to me and the best suggestion will be the proud recipient of a nice lovely seegar. I mean the guy who sends me the suggestion, natchery.

Due to the tremendous ovation and terrific mail response to "Cannonball" Storr's life history which was published as a major feature of our April issue, another picture of "Cannonball" was found and is shown on this page. He wishes to show proof that going to sea in the pre-engineer era was not all Wine, Women and song. On the contrary, my friends, because as you will see from the foto, "Cannonball" has just come off duty after a strenuous 4 hour trick and to quote "Cannonball," quote "that was the toughest watch I ever stood, burp. I held that catwhisker for four hours" unquote. Those were the good old days before the advent of 10 kilocycles to a customer.



**C. H. "Tony" Hutson** is roaming around the south with "Town Meeting" and expects to wind up in San Francisco where he will cover some of the World Conference for the field dept. It's lovely in New York now, **Tony Henry Meyer** from that network mentioned in the opposite column, says it's nicer here than in Florida and he should know. He spent his vacation there.

When **Ed Watkins** left the local scene a couple of months ago, one of the boys swore Ed was the victim of foul play. A brown coat and pair of pants were found in the shower in the lounge, and the aforementioned guy

(Continued on Page Ten)

# New York — NBC News

(Continued from Page Nine)

of Florida. **Henry Meyer**, SE, was in Florida at the same time on his vacation as was **Loyal Lane**, MCD, and Miss Louise Fogarty of recording.

You know what they say about rumors, well here is a tale. One day in March, a rumor began spreading about an NBC Engineer who was reported to be going to Europe with **Lowell Thomas** to do the 6:45 to 7:00 PM EWT program. It was further reported that **George Butler**, FE, was to be the lucky (?) person. Within a few hours the entire fifth floor was Abuzzin, and, someone, is supposed to have gone to see one of the powers-to-be, to see if it would be possible for him to go instead of GB.

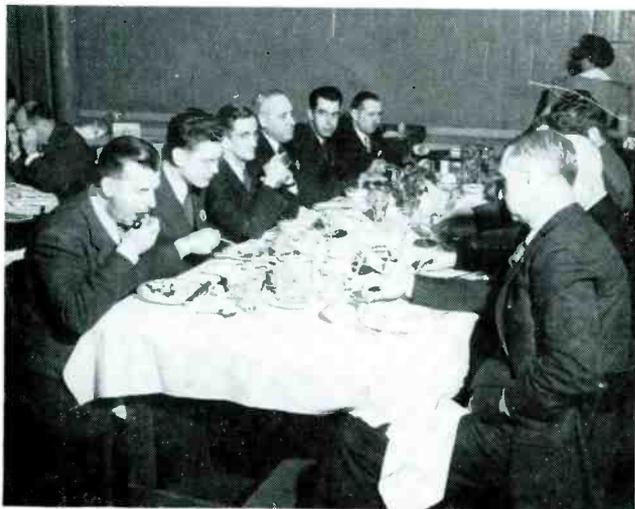
The moral of our little tale is—Don't believe everything you hear and only half of what you see.

**Dorson Ullman**, SE, traveled down to Duke University on Easter week end for the Friday Chesterfield broadcast and before he left he was reminded and very definitely so to be sure and bring back several cases of cigarettes. And do you know, he had the nerve to return with the story that the Chesterfield Plant was closed in observance of Easter.

**Jack Holmes**, Recording Supervisor, has joined the NY, NH and H Railroad, NBC commuting group. Jack has moved to Darien, Connecticut, and when queried about finding a house to rent, he replied, "For what I am paying I am not renting".

The lounge was the recipient of an Easter card from the Marrianas Islands and the donor was **Captain Charles Dickson**. Doc Dickson has returned to the Marrianas after spending a few months in Hawaii.

An excellent mystery is in the making here in New York and it all concerns Field Equipment or Who is opening a recording studio? Missing from the Field department is a Presto Portable Playback Turntable and a NBC ND 10 Field Amplifier. The Amplifier number is 15 and should anyone see an ND 10 No. 15, well you know where it belongs. In line with the mystery all the keys to the Field Shop door were called in and a new lock was installed.



The picture above is of the group that went to the RCA Plant in Camden last February. Those seen eating lunch are, starting second from the left, Messers **George Anderson**, **Henry Kenny**, **Charles Phelan** and **Mel Lewis**.

There is in the making a golf tournament and **John Pawlek**, SE, is the instigator. So far there are sixteen entrees and they are from Studio, Field, Maintenance, Master Control and Recording. As yet there are only two scores posted so we have nothing else to report regarding golf.

The trout fishing season opened here in New York the first Saturday in April and before long we will have some fish stories.

This tale was to be half in this column and the rest in the Blue Column but **Mr. Gilbert McDonald** is not available so the entire little item goes here.

Scene: Transmission.

Engineer: **Clarence Westover**.

Business: Dialing Phone.

Action: Phone rings in one of the Blue Net Studios and the engineer, **Mr. Norbert O'Leary**, answers with these now famous (we hope) words.

Dialogue: "This is the Great Lover."

The prize explanation that has been heard in a month of Sundays was offered recently by **Ed. (Sleeping Powder) Costello** of Maintenance one nite when he did not show up at midnite. **Charlie Phelan**, Mtce Supur., COULDN'T SLEEP so he covered Ed's midnite trick. Ed was finally located the next morning curled up soundly asleep in his private room. Upon being awakened and asked why he had not gone to work the nite before, he replied that he had decided to take a catnap earlier in the evening and to insure same he took a sleeping powder. Nuff Sed.

Mrs. Sara Ashmead, the mother of Robert Johnston, Studio Engineer for the National Broadcasting Company, passed away on Easter Sunday morning and on behalf of NABET we extend our deepest sympathy to Mr. Johnston and his family.

BUY BONDS AND DONATE BLOOD TO THE  
RED CROSS.

# New York — Blue Notes

(Continued from Page Nine)

swore Ed was last seen taking a shower and that he disappeared down the drain pipe. To those who didn't know Ed, he was over six feet tall but only about as wide as the drain pipe. However, a letter arrived from **WMJM** of Cordele, Georgia, signed by Ed saying things are perking along nicely down there and he wants to hear from his old cronies.

**John (Fila. Rheostat) Norton** transfers out of studio to Field effective May 1st.

**New Faces**—They come so fast around here you never get to know them until you fall over them in 5C so here are the two latest additions to Blue Studio:

**Millard Dickerson** started on March 19 and came over from WOR Mutual. Prior to that he worked at the AT&T and Sperry Gyroscope.

**John Henry (Call Me Harry) Smith** spent most of his time before coming to the Blue, with various recording companies including World, Universal, Musak, and General Sound.

Lots of luck, fellows. No more now, so see you next time.

# What is YOUR blank IQ?



What blank is absolutely flat in shape — but far from flat in tonal reproduction? \_\_\_\_\_

What blank is still alive and playing well when other blanks its age have already become past use? \_\_\_\_\_

By using what blank can you be assured of perfect fidelity? \_\_\_\_\_

What blank has well behaved threads? \_\_\_\_\_

By using what blank do you avoid unpleasant surface noises? \_\_\_\_\_

The answers — ADVANCE BLANKS, of course, the important ingredients in all high quality recordings. They have long been famous for their ability to reproduce with almost unbelievable fidelity. They're perfectly flat, and do not warp or deteriorate with age. In short, they fill the exacting requirement of recording engineers who demand the best on the turntable. So fill in the above blanks with the word ADVANCE (if you haven't already done so) . . . then fill in the same words on the order blank.

*While you're at it . . . fill in a War Bond application, too.*

**Advance**  
Recording Products  
Company

36-12 34th STREET • STILLWELL 4-7837 • LONG ISLAND CITY, N.Y.

WHILE the gang at NBC—Washington patiently waits for “VE-Day” to come, “M-Day” in the Trans-Lux Building is making itself felt with startling vehemence.

Not only in the engineering department, but in others as well, old faces are becoming noticeable by their absence and new ones are taking their places. So we feel not only obliged but quite pleased to mention two steps upward among those on the other side of the glass and in the more thickly carpeted offices.

First, our best wishes and congratulations to Fred Shawn, Program Manager of Station WRC, as he leaves Washington to become the Assistant to Mr. Menser, NBC Vice-President in charge of Programs in New York. This marks a truly deserved advancement for a man whose career in radio and its allied fields is both colorful and varied, and is an obvious criterion of his proficiency and ability to get along with his fellow workers.

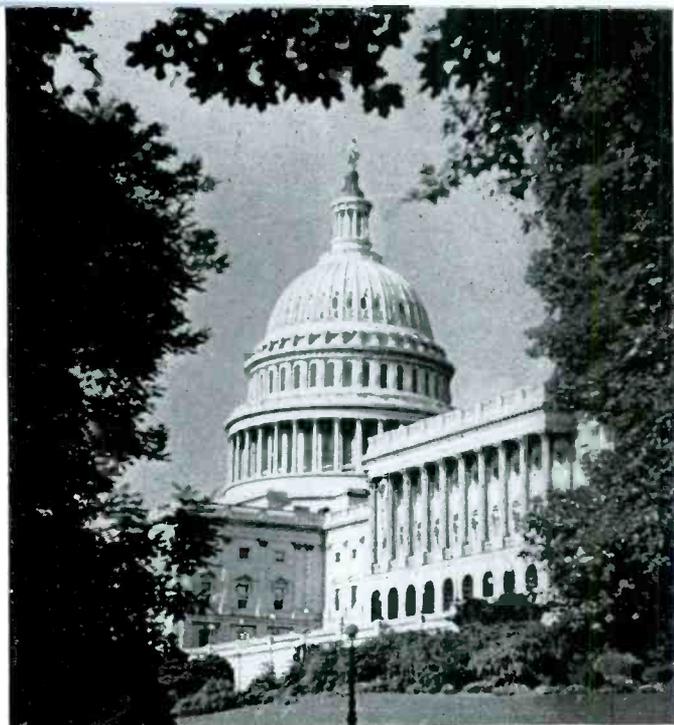
Mr. Menser’s beckoning hand has also attracted WRC’s top announcer Ken Banghart to the Big Town, and we’re quite confident that Ben Grauer had better keep a weather eye on his laurels lest our own Mr. Banghart sweep them delicately, but decisively from his head. Ken has put in ten eminently successful years here in Washington, and has been much sought after for a myriad of commercials hereabouts. In addition, his acting ability has made his voice doubly familiar in dramatic productions in Washington, both in radio and on the stage.

Mr. Shawn and Mr. Banghart were jointly feted at the annual Ten-Year Club Dinner, held in early April at the local Statler Hotel. Highlight of the evening excepting, of course, the cocktails and dinner, was a recorded sketch created by local talent covering the careers of Shawn, “The Human Stopwatch” and Banghart—him what maketh other staff announcers sustaining-type by his uncanny ability to cop top commercials. The presentation was fashioned after the format of DuPont’s “Calvalcade of America,” and was received with the enthusiasm which can only be given by those in the ether industry. Our hearty good wishes both to Mr. Shawn and to Mr. Banghart, tempered only by the fact that we’ll miss them very much here in the Capital.

And now to more familiar grounds

# W A S H I N G T O N

News  
By  
R. E.  
Shenton



—the engineering department. Two newcomers to NBC-Washington have appeared in recent months; both of the gentlemen have (and we’re duly grateful) interesting backgrounds in equally interesting fields so that their introduction to our readers becomes a journalistically interesting task.

First on the list is SE Al Sears, who came to WRO direct from the U. S. Navy, and more specifically as Aviation Chief Radioman from Floyd Bennett Field in New York. Al spent his 21 years in the Navy piling up 2,500 hours of flying time, and learning radio and gunnery on the good old ground. Since his graduation from Pensacola in 1929, Al has flown every conceivable type of ship from tiny 30 foot half-ton dirigible fighters to the mammoth 20-ton Martin Mariner, running the gamut from 75 horsepower to over 3,200. Here, then, is a recent addition to the staff who can swap stories with the best of the old timers. Someday we’ll ask Editor Ed. to let us take over a complete issue of the “Journal,” and fill it with the graphic stories that Al’s told us since his arrival.

Next on our list is Van Buren De Vries. (He meticulously spelled out his full handle to us so we felt obliged to put it in print.) Anyway, we’ll call him Van like the whole gang does, and hurry on to say that he comes direct from the Merchant Marine, having served with that outfit since September, 1943 as radio operator aboard, of course, U. S. Merchant ships. Although Washington has been his home since 1935, Van touched such remote spots as Africa, Italy, Sicily and France while in the service, and can join right in

with Al Sears and the aforementioned old timers who like to swap sea (etc.) stories during quieter moments in Master Control.

Van’s background, quite irrelevantly, as is our own, is in the field of writing; he does, however, outshine us in that he did something lucrative with it, having served at various times as Washington Correspondent for such publications as “Billboard” and “Film Daily,” as well as technical publications, including “Modern Packaging”. He has also been on the Washington staff of the “New York Journal of Commerce”. All of which makes us happy because we can cast our cloak of much-neglected responsibility as Washington Correspondent of the “Broadcast Engineers’ Journal” on the far more capable shoulders of Mr. DeVries any time pressure from the brass-hats becomes too compelling. Van also added in his interview that he’s very happily married and has a child, the aspirations of whom were left unmentioned. By the way, Van also has joined the studio group.

The Recording Group has been reduced by the departure of Ray Perkins, who now works for the Great Father RCA in Camden, but about whose work we can say very little because it is of a confidential nature. A recent letter from Ray orates as how he finds the work very interesting and that it frequently takes him quite far away from the home office. As the postmark was Norfolk, Virginia, we’re inclined to see what he means. Two newcomers have stepped in as apprentices to fill Mr. Perkins’ post; Ray Acton was transferred from Maintenance, and Dick

(Continued on Page Thirteen)

# Powerful New Longwave Station Will Cover Chile's 2600-Mile Length

## Station CB114 Opened on 1140 kc With 50 KW

CAMDEN, N. J.—With the Andes for a backdrop, a powerful new voice is about to rise on the South American radio front.

Station CB114, scheduled to go on the air within a few weeks, will be the first longwave broadcast station to reach cities and towns throughout the curving 2600-mile length of Chile, from Arica on the nation's northern border to Punta Arenas, southernmost city in the world, according to the RCA International Division, whose Chilean company designed and built the station.

Recently completed on the plains outside the capital city of Santiago, facing the snow-capped mountains, this 50-kilowatt station has been specially-designed and situated to overcome the longwave radio transmission problems presented by Chile's rugged topography and long, narrow geographical configuration. Because of these characteristics, the country heretofore has been dependent on shortwave broadcasting for national coverage.

CB114 was designed and built by Corporacion de Radio de Chile, manufacturing subsidiary of RCA in Santiago. It is now owned and will be operated by the Corporacion Chilena de Broadcasting, headed by Adriano Iz Reyes, successful station operator in Vina del Mar, Chile.

"Completion of the new station," says Mr. Iz Reyes, "is another major step toward perfecting radio coverage throughout the Western Hemisphere. It is an achievement in the interests of popular education, development of business, industry, and agriculture, and the building of a permanent and prosperous peace."

The Corporacion de Radio de Chile revealed that CB114's efficient national coverage was achieved largely by means of a special type of directional antenna and an elaborate ground system which concentrate broadcast energy generally northward and southward. Although the station has a rated power of 50 kilowatts, the special antenna and ground system provide an unmodulated carrier power of 135 to 140 kilowatts to the north and south. The antenna is designed in a special pattern to fit the curve of the county.

CB114 is one of the most powerful stations in the Western Hemisphere and one of the most modern in the world. As its designation indicates, it will operate on a frequency of 1140 kilocycles. It is the custom in Chile to designate a broadcasting station by its call letters plus the first three digits of its frequency. Shortwave facilities are planned for later installation and use.

Designed by J. C. A. Nonnekens, RCA engineer in Santiago, the plant incorporates the latest style of vertical panel construction, an RCA 50-E Type transmitter, the same type as used by many United Nations broadcasting stations, complete automatic protection, air-cooled power tubes, a modern two-color streamlined enclosure, and a high-efficiency modulating system.

Two transmitting masts, each 300 feet high and having a dead weight of 36 tons, are surrounded by an underground network of 22 miles of 4mm copper wire to assure high antenna efficiency.

Situated in the valley seven miles from downtown Santiago, on the road to the outlying village of Puente Alto, the neat, white transmitter building is of steel, concrete and glass brick construction, with a sloping roof—higher in front than in the rear—which helped to cut construction costs, eliminate waste space, and enhance the architectural beauty of the building.

Housed in the transmitter building, in addition to the equipment, are an emergency studio, an apartment for the chief operator, an office, a storage room, and small work shop, and other conveniences. Excellent acoustics were provided for the studio by building the walls so they are not parallel.

Modern studios in downtown Santiago, equipped with modern high fidelity RCA equipment, will pipe the programs to the transmitter either by telephone lines or by an ultra high frequency link transmitter built in RCA's Santiago plant. Facilities are provided for handling four studios simultaneously, as well as for recording.

The site for the transmitter building was selected only after exhaustive field strength tests. Because of Chile's long

and narrow form—2600 miles long and an average of only about 150 miles wide—it was necessary to find a site north or south of Santiago, in order to assure good reception in the nation's capital and at the same time reach the far-away extremities of Arica in the north and Magallanes in the south. There were many hills and peaks in the valley to be avoided, and the tests finally led to the plains along the Puente Alto road.

The engineers gained from these field tests some significant data on the influence of even minor elevations on good reception strength. While checking the suitability of one likely site near the Santiago airport, for example, they found that a ground rise of a mere 15 feet cut reception strength by nearly 89 percent.

L. A. Humphreys, General Manager of Corporacion de Radio de Chile, says, "The new station will be of value to Chile as a nation. It will help to raise broadcasting standards in Chile and that is of interest to the manufacturers of radio sets as well as to the public and the Government."

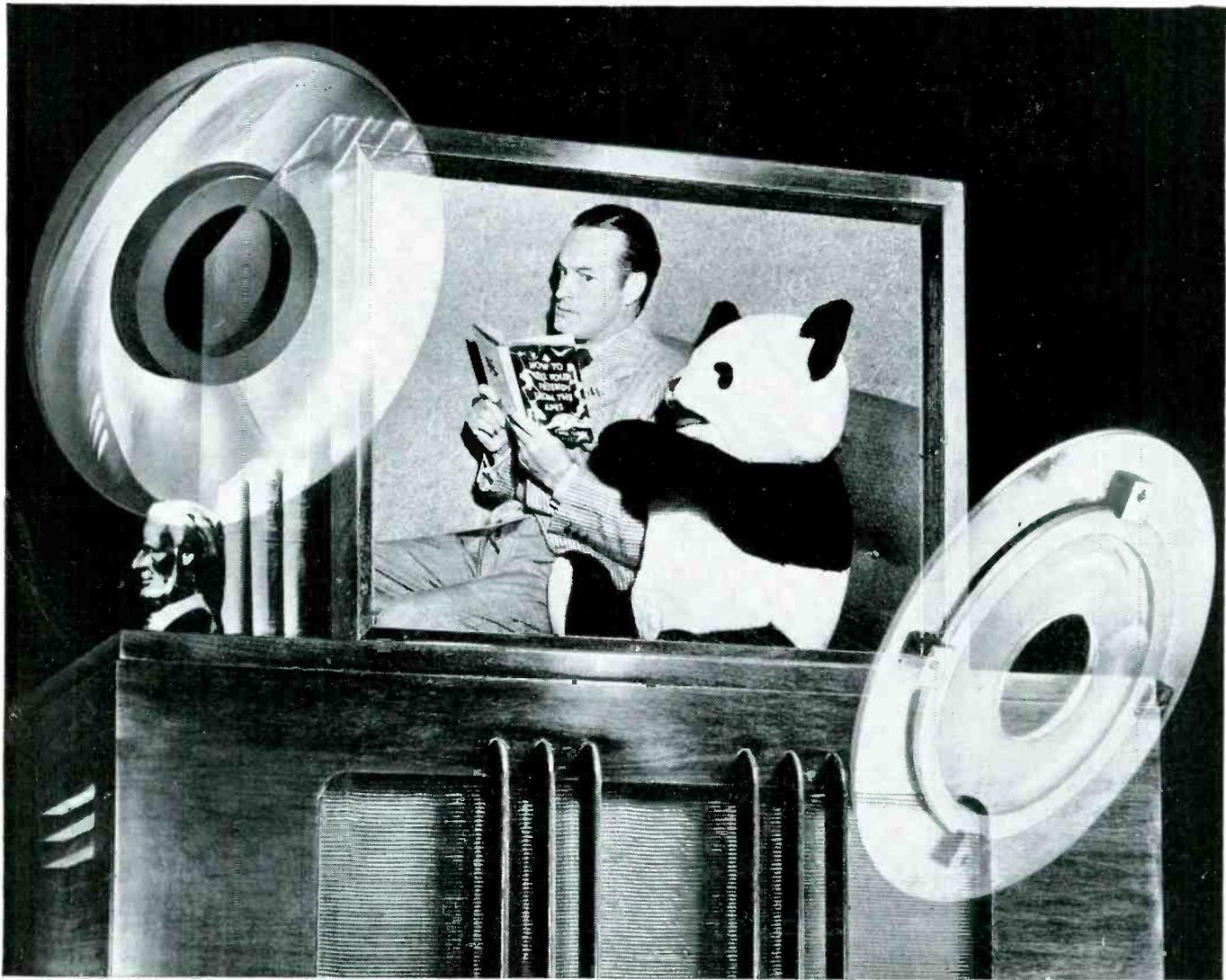
In addition to providing national coverage for Chile, programs broadcast by CB114 will reach other Latin American countries to the north of Chile, points in a wide circle around Santiago, and the southern regions of Argentina. It is expected to assure good reception for Valparaiso, a Chilean port city about three hours by train from Santiago, which has always been an uncertain spot for Santiago longwave stations.

## Washington

(Continued from Page Twelve)

Tolmie migrated from mid-west station service to accentuate the acetate. Permanent plans for the Recording Department are still tentative, but the new faces motif persists.

And with this philosophical note we rewind the ribbon on the mill and turn it back in for a new stylus for the Scully. If the glorious spring days and daily watch list permit, we'll re-regale you next month with flimsy whimsy and new faces of the places during May.



RCA Laboratories model with an 18 by 24-inch screen showing how Bob Hope may appear on future home television.

## ***New Projection Television - Bob Hope's face "big as life"***

Can you picture Bob Hope on television . . . seeing his face *big as life*—right in your own living room?

Well, you will—for now, thanks to RCA research, all limitations on the size of home television screens have been removed.

RCA Projection Television sets can have 18 by 24-inch pictures, or for that matter, pictures as large as the screen in a "movie" theater!

When you tune in an NBC television broadcast you'll almost think the actors are in the same room with you—and trust NBC, America's No. 1 network in sound broadcasting, to bring you the best in television entertainment.

This revolutionary improvement was achieved in RCA Laboratories by development of an entirely new reflector and lens, shown in phantom above. This lens, of inex-

pensive plastic, is 8 times as efficient for the purpose as the finest optical lens.

When you buy an RCA radio, phonograph or television receiver—or any other RCA product—you receive the benefit of the latest research development of RCA Laboratories. It is this *plus value* which is your assurance of lasting satisfaction.

The widespread public recognition of this plus value has given to RCA world leadership in the radio, phonograph, television and electronic art.



Dr. D. W. Epstein with a projection television tube, reflector and lens unit. Here the image on the end of the tube hits the reflector, is corrected by the lens, projected to the screen, then enlarged . . . making possible larger and clearer television than ever before.

**RADIO CORPORATION of AMERICA**

PIONEERS IN PROGRESS



# A. T. & T. Co. Announces Sites for Seven Radio Relay Stations

THE A. T. & T. Company moved ahead on its trial of microwave radio transmissions by filing application with the Federal Communications Commission for authority to construct seven relay stations between the terminals of the New York-Boston radio relay project. FCC approval on the two terminals was granted last year.

Purpose of the trial is to determine in practical operation the relative efficiency and economy of radio relay for transmission of long distance telephone messages and of sound and television programs, compared with transmission over the familiar wires and cables and the recently developed coaxial cable.

Bell System scientists view radio relay as a promising means of attaining very broad bands of transmission which can be carved up into different channels for telephone and telegraph messages

and for sound broadcast and television programs. A technique by which this can be done on the new coaxial cable systems has already been developed by Bell Telephone Laboratories.

Sites for the relay stations, about 30 miles apart, were chosen for their elevation. This not only takes into account the fact that microwaves do not travel much farther than the horizon, but it also puts the transmitting and receiving antennas well above intervening obstructions so that the waves can be beamed from hill to hill.

The intermediate stations will be built on the following sites, reading from left (New York) to right (Boston) on the map:

Jackie Jones Mountain, 35 miles up the Hudson from the New York terminal in lower Manhattan. The mountain, west of the river, is in Haverstraw

Township, 5 miles west of Stony Point, N. Y.

Birch Hill, in Patterson Township, 5 miles southeast of Pawling, N. Y.

Spindle Hill, in Wolcott Township, 4 miles southwest of Bristol, Conn.

John Tom Hill, 7 miles east of Glastonbury, Conn.

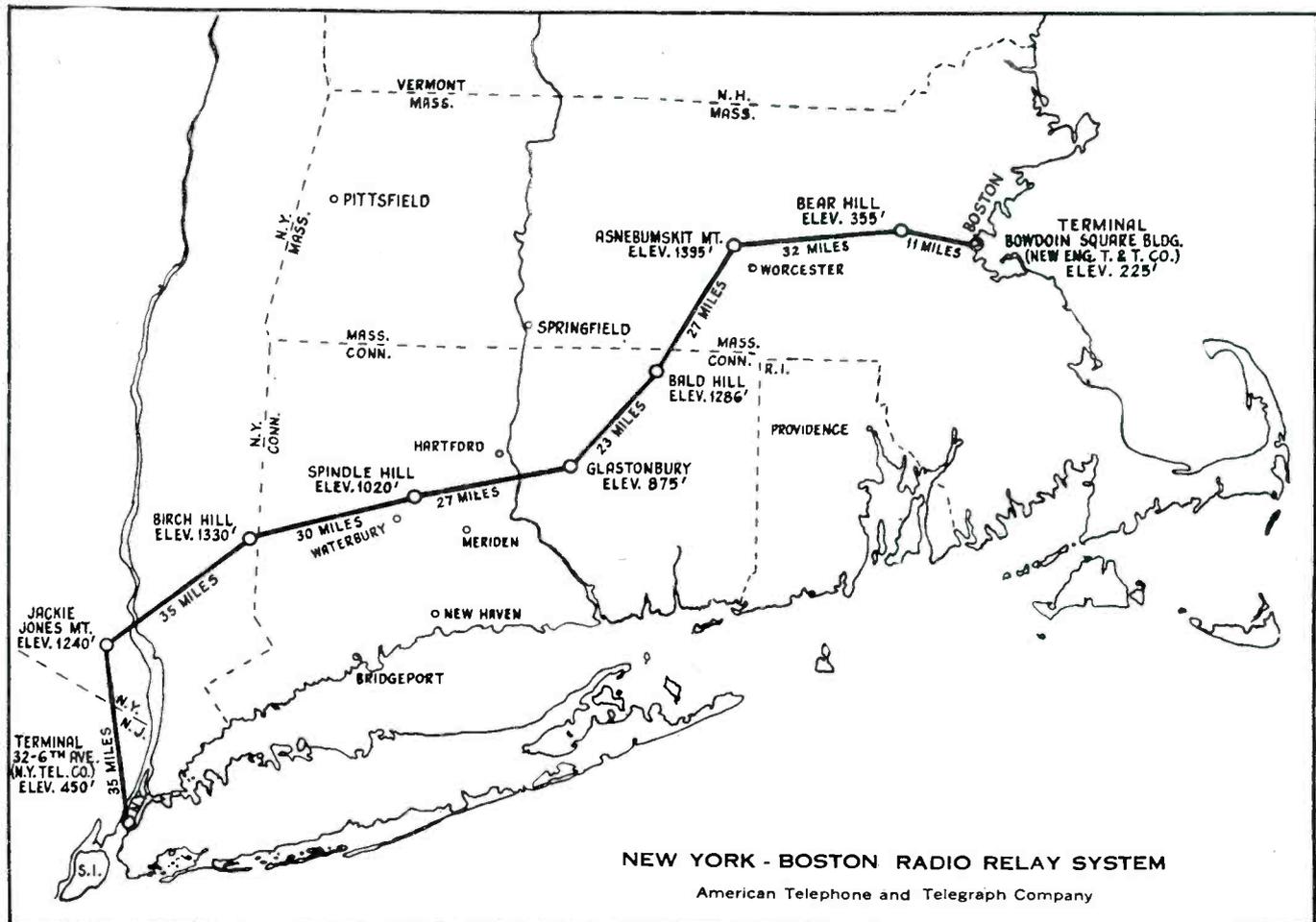
Bald Hill, in Stafford Township, 3 miles east of Staffordville, Conn.

Asnebumskit Mountain, in Paxton Township, 5 miles northwest of Worcester, Mass.

Bear Hill, one mile northwest of Waltham, Mass., and 11 miles west of Boston.

The New York terminal will be atop the A. T. & T.'s Long Lines Building at 32 Sixth Avenue, while the Boston station will be on the Bowdoin Square

(Continued on Page Sixteen)



Building of the New England Telephone and Telegraph Company.

Buildings will be erected at the seven relay points, to house transmitting and receiving apparatus. At each station, highly directive antenna systems will pick up and amplify the radio waves and beam them on a direct line-of-sight path to the next station.

Field work on the project this year is expected to include building roadways up the hillsides to the relay stations, and preparing for connections with power and telephone lines.

The New York-Boston experiments are planned in three parts of the radio frequency spectrum—near 2,000, 4,000 and 12,000 megacycles. Eight channel assignments, each 20 megacycles wide, are being requested from the FCC in each of these parts of the spectrum. It is planned to use the eight channels to provide two simultaneous transmissions in each direction, with different frequencies in adjacent relay sections.

If the experimental facilities prove

as satisfactory as the radio engineers expect, and if this method of transmission is found to be economically feasible, apparatus will be standardized in order that the Bell System may be prepared to install similar systems on other routes throughout the country as the need develops. The same set of frequencies can be used over and over at alternate relay stations on these systems. In cases where two or more systems radiate from one terminal or where branch circuits connect with the backbone network, additional frequent assignments may be necessary. The probable later addition of spur connections to nearby cities and towns points to a spreading out of radio relay channels in all directions from a backbone network. It is entirely possible that the radio relay systems eventually will be connected with the Bell System's coaxial cable network for nation-wide telephone service and for sound and television program transmission.

The New York-Boston route was selected for the experimental trial of microwave radio relay because of its nearness to the Bell Telephone Laboratories in New York and because of the continuing need for additional facilities between these two cities. Also, with coaxial cable already in place between New York and Washington, completion of the radio relay system would provide very broad band transmission facilities all the way from Boston to Washington.

It is expected that at the completion of the experiments, the facilities will be available for commercial use. At that time applications will be filed with the FCC for commercial licenses.

The radio research and development personnel of Bell Telephone Laboratories is now engaged almost entirely on war work. The New York-Boston project will be carried forward as rapidly as personnel may be released from this work.

## from the Rochester Chapter

By Arthur Kelly

**L**AST month, if you recall, I mentioned that I was going to try to get WHAM's Chief Engineer, Ken Gardner, to give us some of the low-down on Rochester's biggest post-war project, the Flower City's Radio City. Ken was very cooperative about the matter so here is his report on the technical layout of Rochester's future Radio City, the home of WHAM.

"Looking forward to an expansion of studio facilities for FM and AM, and the beginning of television in Rochester, we are planning a new building to house both studios and offices of WHAM. A design of studio facilities has been decided upon, which will give maximum of flexibility for AM and FM operation.

Three general purpose studios have been laid out with individual control rooms, and associated with two of these studios, are two auxiliary talk studios. From a control room it is possible to view both a general purpose studio and a talk studio. It is evident therefore, that from a studio performance, it is an easy step into a transcribed program or a network show, using the talk studio for announcements, standbys, etc. The general purpose studios are planned to have equal room volume and acoustical

characteristics. In this way, rehearsals and programs may be scheduled interchangeably.

For musical combinations or shows requiring larger space or an audience, an auditorium type studio seating 385 people will be provided. The stage of the auditorium is large enough to accommodate a seventy-five piece orchestra.

For smaller combinations, the stage may be divided approximately in half by means of a very light curtain.

The television studios and associate equipment spaces are tentatively planned to provide only enough space to get started. Expansion into larger facilities is a simple matter with the large land area available at the building site.

The technical equipment will, of course, be the latest and best that money can buy. Here again, flexibility is the keynote.

Each studio control room will contain pre-amplifiers, mixers, switching equipment, talk-back and outside communication facilities. Duplicate audio channels will be provided for each control room, plus a monitoring system that will enable the operator to thoroughly check program and cue circuits. Each studio control room will also be

equipped with dual transcription turntables. Sufficient floor space and large viewing windows will be provided in the control rooms so that an operator is not jammed directly beneath a loud speaker. He may sit back at a distance in order to obtain some perspective of what he is monitoring."

Mr. Gardner's report continues: "Recording apparatus will be located in the main equipment room which will also contain all amplifiers, line terminating equipment, power and telephone equipment, measuring devices, etc.

Particular attention has been paid in the entire layout to association of working offices and the studios. The transcription department office will be provided with turntables so that recordings may be played and piped into the audition room, executive and business offices."

The only thing Ken left out of his report is the fact that there is going to be a beautiful terraced garden in back of Radio City. Naturally this garden, located close by the snack bar, will contain deck chairs, sun umbrellas and all the conveniences of an Adirondack summer resort. These "relax and grow charming" facilities will be especially for the operators in off-duty moments. Ah—Utopia.



Whether for Radio's finest programs or amateur auditions, best recordings are made on

**audiodiscs**

AUDIO DEVICES, INC. • 444 MADISON AVE., N.Y.



*they speak for themselves* **audiodiscs**

# from HOLLYWOOD

By Norman Dewes

WEATHER . . . Spring . . . Ciggies . . . Hatchet Men . . . Cows . . . Raffles . . . Television . . .  
Storks . . . ABC . . . and THINGS

**W**EATHER . . . you like it or not, we're going to mention the fact that **SPRING** is here in California . . . and at the risk of boring you stiff back East, the weather is likewise and Spring is in the air, in our steps and in our hearts . . . and in **OTHER** places, too . . . including the eyes of our Hollywood maidens, or our maidens in Hollywood, or maids in Hollywood, or Made in Hollywood, or . . . **YES**, Spring is simply **EVERYWHERE** . . . just look up the definition of "maiden" in the Funk and Wagnalls and see what we mean? In nowhere else as in California is the coming of spring so unobtrusive . . . they ought to have **FIVE** seasons: Summer, Autumn, Winter, Spring and Calif . . . 'cause out here there are no separate seasons . . . it's just Calif all the time . . . (song title, "When It's Calif in California, I'll Gallop Home to You" . . .) **OR** . . . look up the definition of "gallop" while you're in the **F & W** . . . ahaw! **ANYWAY** . . . one day it's cold and rainy, or foggy, or something . . . and it's still winterish and the next day the sun comes out and it's warm and bright and everybody has decided to get out their white shoes at the same time and the gals get out their shorts and the birds whistle and . . . Suddenly It's Spring . . . and you know what happens to a young man's fancy **THEN** . . . yes, it's Calif in California and we're **GLAD** . . .

**AROUND THE BUILDING** . . . as we take our typewriter in hand this seventeenth day of Spring, there are still recent memories of April showers, which **ALWAYS** bring May flowers (why don't they ever take the old girl some **CANDY**, or a couple of tickets to Earl Carroll's?) . . . and the most pleasant part of a showery day at NBC is to walk along the halls and corridors amid the rows of gaily colored posies . . . huge blossoms of every hue, planted there by the office gals, to be picked again at closing time . . . they're really umbrellas, but they look like posies . . . A new ciggie deal has been inaugurated for the hall machines formerly found one on each floor and

placed there for convenience of building employees by the Athletic Association . . . it **SEEMS** that certain ones persisted in robbing the things **BLIND** whenever they were filled, leaving nothing but empty spaces for those who came too late, so **NOW** the machines are locked up in a **SECRET CLOSET** on the second floor and packs are dispensed at certain times on certain days and you have to show yer Membership Card to get one . . . this is a **FINE IDEA** and helps to distribute the wealth, etc., but **AS USUAL** leaves the Blue out in the cold, since Blue employees are not allowed to be members of the **NBCAA** and hence git plenty of **NUTTIN'** . . . while we're thinking about ciggies, we were rehearsing in Studio "A" the other day when the stage men wheeled thru a dolly load of cartons for the next ciggie show and **NOBODY NOTICED** until the dolly tripped and spilled packs all over the floor . . . you never **SAW** such a scramble . . . no dignity on **ANYBODY** . . . The L.A. Fire Department has been cracking down on regulations and now big signs are posted in all Studios saying "**NO SMOKING**" . . . this edict includes control booths too, and the ladder and hatchet men say they will get tough about violations, even threatening to call the Black Maria and drag you off to the pokey iffen you don't **DO RIGHT** . . . So far, nobody has been **DRUG OFF**, but then nobody has been **CAUGHT** yet . . . other regs include no more audience overflows on the stage, special trick locks on the corridor exit doors, sealed behind little panes of glass which you break with a cute little red hammer when you want to **ESCAPE**, and a rule re: blocking passageways which reads in part, "No person, object or thing, except an usher, shall be ollew in any passageway or portion thereof . . ." We never let **THINGS** in anyway . . . they scare everybody and cause too much trouble . . . and just **WHAT** do they mean ushers are . . . as far as **WE'RE** concerned, the usherettes are **OBJECTS** . . . they alway object most strenuously whenever we **TRY** anything . . . Drop-

per into "C" to see the "Truth or Consequences" show and they had a **COW** in the act who was **NERVOUS** and frequently had to attend to Mother Nature's Call . . . phones rang and people wanting to know if the **ROOF** was leaking down there, or What . . . Here's a Teehee from **MCD** . . . a bunch of the boys were standing around waiting for their shows to come up and gazing out thru the invisible glass at the lobby-lookers and along comes a **REAL** looker in a white sweater and the fellows are watching **INTENTLY** and waiting for her to turn around and confirm their expectations when they are joined by a **VOICE** who sez, "What's going on, fellows?" and it's **Sax** (Western Division Engineering Chief) . . . just then she **URNS AROUND** and **Sax** sez, "H-m-m-m-m, not bad!" and everybody quietly goes back to work. And then, down in "Fig-gins' Diggins'" the other day **Bob Jensen**, NBC SE, FE, and NABET CC, is fixing a radio and plugs a soldering iron into the Shop workbench and **ZOWIE!!!** sparks fly and flame shoots out and smoke pours forth. Everybody comes arunnin' and it turns out that there is a short in the outlet which takes off like a roman candle when you go near it. **Frank Figgins**, Maint. Super, immediately takes charge and directs **Murphy** to the next room where the breaker panel is located and they start calling numbers back and forth, to locate the right circuit and thus avoid shutting off the recording machines or something . . . well, they are yelling pretty loud and pretty soon a **CROWD** collects in the corridor outside, wondering just what the hell is going on . . . and then a gal sez, "I think they're raffling off something" and steps up and tries to get **Frank** to sell her a ticket. More sparks and smoke and flame, but **THIS** time from **Frank** . . .

**TELEVISION** . . . on the West Coast is progressing slowly toward the potential **BIG BUSINESS**, as prophesied for after the war, with the application of Twentieth Century-Fox for an experimental television station C.P. This is

the fourth television application by a motion picture company with theater affiliations. Raytheon Mfg. Company of Massachusetts has also filed for permission to conduct tests from the top of peaks in California, Washington and Oregon with a view toward estab-

### Another Hollywood Entry

for the title of "Sweetheart of the Broadcast Engineers". Honest-to-gosh sisters, Lucyann Polk, left, and Elva Polk, right. The Misses Polk constitute 50% of "The Town Criers Quartet" heard on the Kay Kyser College of Musical Knowledge radio show. Now, do you see why television is going places?—Ed. S.



lishing a chain of Television and FM stations serving not only broadcasters but also furnishing service to police, highway and weather systems in a very elaborate program of West Coast radio expansion. None of this can be begun, of course, until the war in Europe is over at least, and things pictorial out here are still in the workshop stage, INCLUDING the telecasting at Paramount and Don Lee. The ACT (Affiliated Committee for Television) is ACTIVE and adds new guilds to its roster from day to day. At a recent meeting of the BTMG (Broadcast and Television Mixers Guild) it was voted to become affiliated with ACT, thereby getting the broadcast men in on the ground floor for any sound or audio activity, as the movie studio sound men are still unaffiliated. At this writing, it looks as though the Blue (ABC) may be the first net to take up video seriously out here, as they have reached Chicago and are planning further westward moves, with the telecasting of suitable net shows in view. HOWEVER, it seems to US that the boys back East are getting all the breaks in this Television racket, since the network stations back there are admittedly being operated as part of a training plan, to provide personnel for future serious business. Maybe when the shows and stations come out here, they'll give us TICKETS to 'em . . .

NBC . . . under the heading of Special Events this issue comes the arrival of a Brearley blessed event the morning of March the nineteenth . . . a baby boy, name of Bobby and checking in at 7 lbs. 9 oz. at the Huntington Memorial Hospital in Pasadena . . . this is TWO for Janet and Art, Bobby having

a brother Davie who is three. "Ranchito Barhite," the Brearley hacienda up in the Sierra Madres near Altadena, now has a very fully complement of progeny, since IT SEEMS the goat, the hen and the goose and Janet were expecting, ALL at the SAME TIME, and it turned into a RACE, with Janet coming in THIRD. The goat has twins two days before, then the hen hatched, but Mrs. Brearley beat the goose, which was the MAIN thing she was worried about, sez Art. A VERY nice letter was received by Sax from Mr. George McElrath of NY re: Mr. George Foster of Hollywood, prominent NBC engineer and TRAVELING TALESMAN . . . letter was full of plaudits for George's work in connection with the eastern tours of Jack Benny and Kay Kyser, and Mac 'n Mr. Cullen maintained that it was "a real pleasure" for them to work with our Mr. Foster . . . understands George has letter framed and hanging over his bed, next to his Varga calendar . . . speaking of TRAVELERS, glanced at daily schedules of engineers for March 25th and there were seven NBC men out on the road and two Blue fellows . . . Fry and Durham over in Luke Field, Ariz. with Chase and Sanborne, DeGrazzio up in San Fran with Fitch Bandwagon,

Johnny Morris and Hal Platt down in Whittier with the Standard Hour, and Foster and Murphy with Benny in Santa Barbera . . . on the Blue, Powell was with "Breakfast in Hollywood" gang on tour in middle west and Ragsdale was due to get back from SOMEWHERE with a Coke Show. These LUCKY STIFFS (and we DO mean BOTH . . .) return with many interesting TALES to tell, NATCHERLY, but the heck of it is, by the time we've CLEANED them UP there's nothing left to print . . . so in the interests of good, CLEAN reporting and preserving domestic relationships, they'll have to be passed along by word of MOUTH, with keeping the SOAP handy . . . The new NBC chimes deal is causing NO END of pfun around the studios, and some CONSTERNATION on the part of producers who are used to saying, "DON'T cut it . . . let it RUN OVER, we'll pay for it, etc., etc." only NOW it's all automatic and done by electronics and NOTHING runs over any more . . . system was installed and put into use at all division points April 2nd . . . they were AFRAID to start it April 1st . . . and F. Y. I. the chimes now ring automatically at the end of any regular 15, 30 or 60 minute program, 30 seconds before the start of the

next period, no matter WHERE you are in the script . . . and thru the magic of electronics, that ain't ALL that happens, for thru relays the program vernier (master mixer fader) and the announce fader are shorted out and yer carrier and channels are dropped and yer ALL THROUGH, brother . . . according to the official proclamation from Pickett, Operations Super " . . . nothing you can do will delay or prevent this operation!" . . . and he AIN'T KIDDIN' . . . only exceptions are for programs where special dispensation has been granted (which takes a signed letter from Mr. Tramell) and then you call McDesk and they will DE-ARM the thing. System had one IDIOSYNCRASY however, in that due to delays in relays, after the bells ring and before the faders are shorted out, the studio is HOT again for a second or so and unless you close your faders manually to fade out the show and LEAVE 'em closed until the relays have finished their act, stuff from the studio will GO OUT on the line, that usually SHOULDN'T . . . the other ayem the announcer was signing off the program of a lady commentator on fashion or something and he sez, "Thank you, Miss So 'n So. The National Broad . . ." and CLUNK! THAT is covering a lot of TERRITORY, wewouldsay . . . Visi-tors this month included Jimmy Coleman, ex-studio NY and now a Captain in the Marine Corps . . . Jimmy stopped by on his way back from a 15 months' tour of duty in the South Pacific . . . saw Captain Dickson while passing thru Hawaii . . . KFI, local NBC outlet has renewed with National for another 2 years, cancelling rumors that KMPC was to be the new outlet . . . Mr. Anthony has also reportedly turned down a purchase offer from NBC . . . Benvenuto, NBC SE seen waking his leg up in the Parking Lot . . . went to sleep on him on way to work . . . Ben has a big sack of silver dollars that he has been collecting . . . sez he plans to PLANT them in his backyard and water 'em with a SPECIAL SOLUTION, so that when he digs 'em LATER there will be little DIMES among the dollars . . . why not? . . . down in "G" they have a weekly religious series they do for transcriptions and everything is very solemn and just before they go on everybody gathers around the mike and sends up PRAYERS for a good broadcast, no mike failures, etc., including a special mention for the engineer . . . this provides a WONDERFUL alibi, for if

you miss a cue or have a slow fade, well, the Lord just wasn't WITH you, thass all . . .

ABC . . . effective June 15th, the Blue Network is no more and we officially become the American Broadcasting Company . . . and thus passeth the oldest name in network designation on the air today . . . NBC organized the first net way back then, and soon saw that for utility reasons, it would have to be divided into several branches, the most famous having become the Red and the Blue . . . when the two were separated by F. C. C. order in January of 1941, NBC dropped the "Red" designation and the "Blue" became a separate entity, growing from a start of 92 stations to its present status of some 197, four of which are O & O . . . WJZ, WENR, KECA and EGO . . . so now, the Blue is no more and we are the American Broadcasting Company . . . snif, snif, hooRAY!! Among the many new orders and proclamations is one which increases our traveling meal allowance to six bucks (\$6.00) per day, which is good, good, GOOD . . . and nice, nice, NICE . . . speaking of traveling, our man Powell has just returned from several weeks' tour of the middle east with the Breakfast in Hollywood gang and reports many interesting happenings, most of which are UNPRINTABLE as usual . . . ran into several interesting UNION deals during stays in Denver, Omaha, St. Louis and K. C. . . . in St. Louie everything is STRICTLY and it took THREE organizations to get the show on the air . . . Powell, NABET, two "stand-bys" from the LATSE and one from the IBEW . . . which is a bit THICK, don't you think? Maybe the boys felt they needed PROTECTION . . . Powell is VERY grateful, we might mention, to Mr. Bob Rudd of Omaha, who VERY obligingly turned out at one ayem one ayem to meet him at the train . . . Very nice Easter Card from Roger Love, Lieutenant in the Signal Corps . . . thing was a VERY big "V" mail deal in color, with a pic of Bugs Bunny chewing on a carrot and caption saying, "Happy Easter from the India-Burma Theater" . . . new man on the Blue ( . . . mean the ABC) staff . . . Mr. Bill Erickson, a former KFI/KECA man and more recently with the Overseas Division of the O. W. I. . . . Bill is vacation relief, but will probably replace one of our men who just got DRAFTED . . . nice pahty for the gang on the Charlotte Greenwood show . . . cocktails and things at the Green-

wood hut in Beverly Hills, then to the Beverly Hills Hotel for a VEDDY swanky dinner of stuffed squad and accessories and then to the El Capitan to see Ken Murray's Blackouts . . . o-o-o-o-OH that Marie Wilson . . . whatever we say about HER will be deleted, we know, so we'll just REPEAT o-o-o-o-OH . . . they're simply UNBELIEVABLE . . . speaking of HOT things, the Thrifty Drug Store kitchen caught fire recently across the street . . . our R. P. McGaughey was eating dinner there at the time, when FLAMES started bursting forth . . . not wanting to waste all that good food (it was the BLUE plate special). Bob just kept on eating, while sirens roared and firemen tore thru the joint with water squirting, etc. . . . McGaughey chews while Thrifty BURNS . . . and then there's the ABC engineer who smokes STOGIES, but SO SHORT that he carries around a little pocket mirror to light 'em in the FINAL STAGES without igniting his FEATURES . . . WELL, the long-feared has finally happened . . . one of our engineers is MISSING . . . our man Powell has passed everything with flying colors and is now IN, as of the 4th of April . . . the thing was looming, but was delayed until Harold returned from his trip East . . . the kid just recently got hitched too, and when interviewed, his only COMMENT was "AW,—" Sez it never rains but that it just POURS all over him . . . and then we have one Carlos Lorenzo who is dashing to work one early ayem and being in a HURRY, pulls into the Parking Lot space, jumps out and slams the car door, but finds that he has left the motor RUNNING, with the keys on the INSIDE and the door has LOCKED . . . this presented a bit of a problem, NATCHERLY, so Carl just gives it up and motor runs for several hours until he has time to come out and OPERATE . . . yamf, yamf, yamf . . . TAG . . . and Neatest Trick of the Week Dep't . . . a couple of our engineers were risking ALL and jay-walking across Vine Street to a sandwich at the Bowling Alley and had just gotten a little past DEAD CENTER when they notice a prowler car unobstrusively parked just opposite . . . it being TOO LATE to retreat and thinking VERY FAST, the boys hail a cab which just then comes along and DRIVE AWAY, just as the officers were about to tap 'em . . . a couple of block's cab fare is cheaper than the two bucks toll charge ANYDAY, huh . . . BCNU.

## Feedback From KGO Transmitter

By Ken Martin

**B**ACK from his recent sojourn in the hospital, Jim "Feets" Blanchet is giving regular organ recitals—just a hangover from his operation.

Wistfully "Taking it easy" following his recent illness, George Irwin has decreed "no more bowling". George is having a whale of a time trying to sandwich holiday paybacks between the recent siege of absences and coming vacation schedules.

When recent plans for NABET get-together at Claremont Hotel in Berkeley folded for lack of reservations due to heavy studio work schedules on the selected date, three representatives of KGO Transmitter and their wives, attempted to uphold the honor of the Union and the Network on Saturday evening, March 17th, coincidentally St. Patrick's Day. Gene Nickels cut a mean rug and Herb Kramer is no dud either. A good time was had by all. Other details are a bit hazy to your reporter. Recommendations: If and when NABET roundup is held, and it certainly should be held—some other night than a St. Patrick's Saturday be chosen. Irishmen with sharp elbows and high heels are legion.

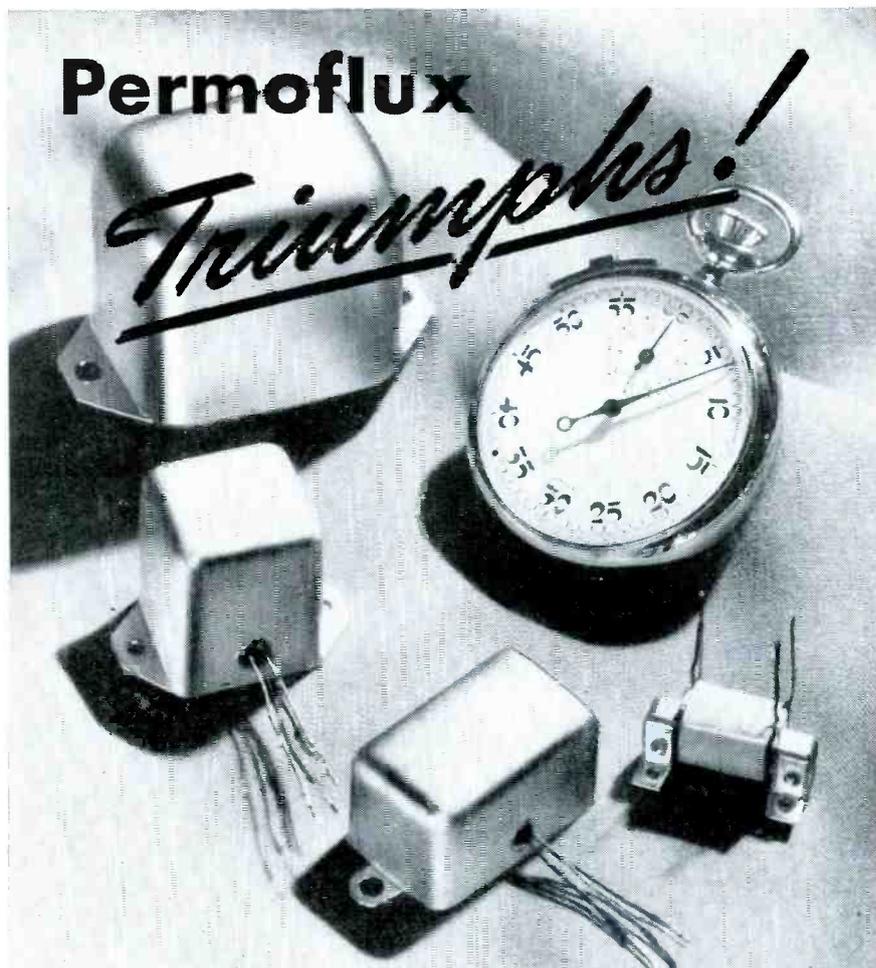
Wallace "Stargazer" Downs doubles in glass by grinding lens for a local optical concern sparetimes. This lad boasts a number 14 shoe on each foot—who can top that? Wallace also toots a mean flute of symphonic calibre.

In the case of Pop Perry's Case (car), Case (TE) took time out to look the job over and found a gear in the Case worn so badly as to be inoperative. The Case (Car again) is so old that parts are no longer obtainable and the gear has to be specially cut. No doubt it will be case-hardened. Doesn't this case make you shudder when you stop to think it may happen to any of us if automobubbles don't start pouring off them assembly lines soon.

Hank Dunton, our Chief, is busy overseeing regravelling of the drives and parking strip and managing some landscaping of the grounds.

For these many war years, KGO Transmitter building and grounds have been protected by a high wire fence and a PADLOCKED gate. Such security, we have known. Then someone STOLE the lock!

Broadcast Engineers' Journal for May, 1945 **21**



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# This Report Comes to You by Way of San Francisco

THERE is just one program that sanctions the playing of 33 RPM ET's at 78 RPM. That unorthodox production is jockeyed by **Ray Lewis** with **Art McDermott**, SE, usually at the controls. On this opus, the older and scratchier (good word) the disc the better, but when Art feels like it or they are late they always save a 33 and play it at 78. Good practice . . .

Who says the recording department isn't appreciated? They were the recipients of 1/4 gal. of pre-war "Old Forester" with the good wishes of the Blue News and Special Events Dept. in consideration for the cooperation shown during their numerous overseas pickup recordings.



Ted Lenz, conductor (left) and Norman Tapper, engineer (right) prepare to leave on another scheduled run of the "Midnite Special." The cardboard model train was constructed by Mr. Moore (center) watchman at the NBC studios.

Walking by the marquee at the entrance to the San Francisco studios, the unwarned hypo-condriac may diagnose his condition as a case of "ringin' in the ears" but the sonorous "B.E.G." he detects is merely the handiwork of our maintenance department who installed the horn on the marquee through which the chimes sound every 15 min.

When the heroic men, who were released from Jap prison camps in the Philippines, were disembarked in San Francisco, the Special Events Departments of both nets scheduled pickups from the ship while in the channel and at the dock. **Russ Butler**, FE, and **George McElwaine**, Field supervisor, were on the job with the ND-10's, etc. They had to herd transmitters, amplifiers, battery boxes, and all the asso-

ciated gear from the bow of a rolling water taxi to the small landing at the foot of the ship's ladder and then up the ladder which was rigged approximately at a 60 deg. angle over the side of the ship. Once aboard, they encountered considerable difficulty trying to locate space suitable to set up the rig, when finally they were allowed to occupy a space 2' by 8' on the after deck of the boat. Mc hoisted the antenna on a flag halyard and fired it up. He had just gotten it tuned when the ship's radioman screamed like an eagle that he was blanketed and somebody had to change something. After all this labor, they finally got 30 min. of program to the receivers atop the studios in town.

**Earl Sorensen**, ME, has enrolled in the University of California and is currently struggling thru courses in CE., ME. and EE. Earl works the graveyard shift in maintenance and attends the university during the day (don't know when he sleeps). A yen for intellectual advancement is also apparent in **Rod Hawkins**, Apprentice, who can be seen in his unassigned time with mat book and slide rule.

**Norman Tapper**, SE, is the engineer of the "KPO" Midnite Special," the only train that runs on time, which departs every midnight and arrives at the KPO sign-off at 2 A.M. We couldn't be positive, but is Norm taking treatments in an attempt to regain the skull matting lost while worrying about the "Special" or the secret love affair with a famous warbler whose picture he still carries in his wallet?

Classic among the gripes that can be overheard in the lounge was "Well, I'll be %\*(' this new shirt I bought has one sleeve longer than the other . . . where's the tape measure?" Maybe it is **Mr. T. Dwight Maxwell**, SE., and not the shirt.

So many things happened to Don

**Hall** lately that he is a little dizzy. It all started by Mrs. Hall presenting him with a 7 lb. boy. Next he presented the recording room with a very fine audio oscillator and then to top it off the company presented him with a group 4 status in the MCD. Everybody is happy about everything.

Other promotions were welcomed in the Engineering staff this month. **Ernest Jefferson** went from group 4 to group 5 in MCD; **Charles Kilgore** went from group 5 to group 6 in the MCD; **Eddie Parkhurst** went from group 2 in maintenance to group 4 in the MCD, and **Elma Oddstad** went from apprentice to group 2 in studio, replacing **Bryan Fuhrman** who with **Sam Melnicoe**, who was transferred back from the Dixon shortwave station, and **Earl Sorensen** were assigned to maintenance.

Our chief spy and propaganda minister **Leland B. Kolm**, known from coast to coast as "Gremlin" (FYI CHI TFC), forwards info concerning **Clark Sanders** who is attached to the Navy in the Pacific as a technician. The last we heard Clark was flying over Okinawa in a B-29.

**Russ Butler**, our most rugged engineer, ascended Mt. Davidson Easter Sunday to handle the pickup of the Sunrise Services. Could it be that the person responsible for the assignment of field pickups is trying to streamline Russ?

**Larry Sheppard**, RE., took an early vacation in his home town of Fresno, Calif., so as to be on hand for the increased activities in recording when the San Francisco Peace Conference begins.

**Harry Puccetti**, SE., was heard cussing **Art McDermott** in the lounge recently when the shavings from the model airplane Art was working on fell on the green Easter egg Harry was eating. Oh, well . . . never a dull moment.



# Doings in Denver

By George Pogue

**C**HIMES OF SPRING" would be a very fitting song around about MCD these lovely, sunshiny Colorado days. The new "on the clock" chime deal has brought out a few extra gray hairs—or at least quite a few missed heart beats. KOA does not have its sync clock in operation yet so the supervisors have become expert clock-watchers. Sometimes the announcers have forgotten so chimes come out ahead of MCD; sometimes in the middle of a break, there are the chimes; sometimes music stops short—and then the chimes. It sounds like Big Ben on a spree. The supervisors, at any rate, have been punching so many buttons lately they are becoming punch drunk. Oh-h-h-h! (Groan-groan!)

The stork express has still been hovering around KOA. This time the stop was at the **Vern Andrew's** home, leaving a lovely little girl, their second. Mother, child, and father are said to be doing fine. Vern says she was a husky six pounds and three and a half ounces. Her name is Verna Joyce. Mighty good choice of cigars, Vern, for a guy who does not imbibe in the filthy habit!

**Aubrey Blake** has been taking out trees around his yard and got his spring planting done just in time for our Easter blizzard. We had 11 inches of snow and felt like Christmas had come again, but as usual the good old Colorado sun came out again and in two days it was all green again. (Note: Attention chamber of commerce—no extra charge!) All the gardeners were glad of the moisture except **Stan Neal**, who says that you can't sail boats around in a snowstorm.

Some of the gang has sandwiched in a little skiing this winter. **Stan Neal** made it with a little car pooling and, of course, there could be no skiing without **Clarence Peregrine**. "Perry" got stuck up in the mountains due to a sudden blizzard and had to wait until the snow plow went through to get them out. No casualties except a severely chapped face! **Joe Rohrer** was up in the hills too, but all he did was tramp around in the snow while the others skied—casualty—very wet feet!

(Continued on Page Twenty-four)

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# Hudson Chapter NABET News

By Richard H. Davis

**S**PRING is here or at least the high temperatures say so with the attending activity around the victory gardeners with new reports as to how high the lettuce in the cold frames is getting and good attendance during lunch hours at the windy corners. Frank Garuffy TE is the proud pappy of a son born on St. Paddy's day. The Mrs., the offspring and Pappy are all doing fine. Frank is passing out cigarettes instead of cigars . . . hi . . . Yes, spring is here . . .

Bill Boher now has MC all to himself these days after midnight. The curfew you know . . .

Ted Kasna, Maint., and Pappy Davis, also of Maint., are still holding the WOR bowling team up and getting some good scores . . . Pappy sez that he will challenge any body . . .

Joe Waldschmitt ex-FM passed through the other day after an 8-day trip by air from the CBI theatre where he wasn't looking at pictures . . . Joe looked good even though a little tired . . .

"The Better Half" show of which Jack Byrne MC is the author, now is back on as a MBS feature each Monday night at 9:30 PM. . . . This is a husbands' and wives' participating show which various stunts and gages are the order . . .

New NABET members admitted recently to membership are Driesbach SE, Robt. Bergen, no relation to the famous

Bergen, also SE, Cavigga, Newmann and Mullins, completing the list, all in Studio Operations . . .

We welcome back Lowell Frank from the Navy who is back in the studio after a Med. Discharge . . . Also Romo SE back from L. S. U. . . .

MacBenoit SE sez that he has a lot of studio news as follows: "Quote—Unquote" thanks . . .

Eric Herud SE . . . believes he has the problem to solve his appetite requirements, he is going to design a control desk, not with hot and cold running water, but coffee and doughnuts . . . he must have been looking at the Mayflower doughnut machine . . . or was it the machine? . . .

Si Gamblin TE who is an ardent Victory Gardener has plans for a two plant tomato patch. He has a method of growing a tomato plant to giant size which will produce two and a half bushels of lucious tomatoes!

Al Stanford to Carteret Transmitter from FM . . .

Giff Campbell ex-SE now U. S. Army in on a short furlough from Pine Camp according to Donniez MC.

A nice gesture was made by 81 associates of Jim O'Connor ex-MC who recently entered the Navy. Jim received a scroll signed and attached to a 120 buck check to be used for phone calls to his wife and children here in the east while he takes his boot training at Great Lakes, Ill.

When you pass Johnnie Cooke he always says "Hello, Joe". Well, no wonder, when you take a glance at a typical day's schedule of Johnnies' life. Johnnie takes care of the gym classes and is half way through the day's work by the time most people are getting to work. As Johnnie leaves the house at 4:45 AM he says "Hello, Joe" to a milkman named "Joe". Then a quick walk to the early train where he gives his ticket to a conductor named "Joe". Once in NY he stops at "Joe's" for his morning coffee and toast . . . Then to work . . . At 2:10 PM Joe of "Joes" pours a beer for he knows that when Johnnie comes in at 2:11 PM he will have 5 minutes before train time. On the train Johnnie again gives his ticket to a conductor named "Joe" and home. Thus ends a nice quiet day of "Joes" according to "Johnnie".

Sam Morse Sound Effects reports that all is quiet with everyone working like the chickens . . . Miss Langly of Sound is running a temporarily running a pigeon hospital . . . A squab was rescued with broken leg recently and was put up in the bird box . . . It is now at a pet hospital . . . I wonder with the meat shortage as it is . . .

Recording . . . Things are spinning . . . at least that's what Doug. Hawkins reports . . .

As we said before spring is here so 73's.

## DENVER

(Continued from Page Twenty-three)

Douglas "Pinkie" Kahle got his greeting from Uncle Sam; however, after his physical exam, he was reclassified 2AF—whatever that means. Vern Andrews at present is also among those chosen.

If ever you want to commit a murder, choose Joe Finch to be on your jury if you can fix it. Joe lately spent a week on the jury of a murder trial. The fellow was acquitted, at least according to Joe, "so that I could go home and get to work".

Blair Dobbins (TE) is leaving KOA for a "sweeter" job. He is resigning to be part of the sales department for the Curtiss Candy Company. Good luck, Blair, on your new venture and lots of kisses.

Carl Schuknecht (SE) has really been busy these days putting up and tearing down. Mr. Yoder has returned from his duties with the U. S. Navy to again take up his place as manager of KOA. Mr. Macpherson who was acting manager during his absence, has moved from his office into that of Mr. Moore. Mr. Moore moved into Miss Wright's office. Miss Wright moved to a new office built on sixth floor, etc., etc. We seem to be bulging the walls at KOA. This has meant moving and hooking up speakers and more speakers. On the side, just for relaxation "Shookie" has been replacing all the tube sockets in the Memovox.

Here and there around the place, you'll find the boys fighting a bad case of spring fever. Gene Carpenter can be seen drawing the rear end of a tractor

between rehearsals of the Public Service Show; Milt Hall, enjoying the birds in the wee hours Easter morning at the Easter Service program at Lowry Field, and wondering after months of research, why glass will break; Vern Andrews and Aubrey Blake, getting in on some good basketball games while covering the AAU tournament with Bill Stern as announcer; Walter Morrissey, riding the street car home because he lost all his anti-freeze out of his car; Russ Thompson and Blair Dobbins getting in a little pre-season golf on these balmy days; George Anderson reducing his waist line by swearing off beer; Garland Dutton, nibbling on his lunch throughout a tour of duty at the transmitter, and yours truly banging on a typewriter to get this edition wound up to meet the deadline. Soooo-o-o long!

# DIXIE News

By Rex Coston

WALDO ROOD (TE) has a distinct liking for eggs, especially if they are scrambled. Working on the graveyard shift makes Rood awfully hungry (it must be the heavy maintenance work), and in order to satisfy that wee hour of the morning hunger he keeps a sack of eggs in the refrigerator. Did I say "keeps," well, at least he tries to keep some eggs around, but it seems that the next day they are always gone!

After buying some three dozen in one week, Rood decided it was time to put a stop this disappearing act—figuring there must be a practicing magician in the house. On his next sack of eggs he attached a friendly greeting, "These eggs cost me money—6 cents for 1, 2 for 11 cents". That, he figured, would stymie the "egg borrowers". The next day, when Rood was in the mood for a delightful breakfast, he opened the refrigerator door and reached for an egg, but withdrew a hand full of money!

And now for our next item of news we switch you to our commentator from WDNC in Durham, Gilmore Bowers, who says:

I find myself in a somewhat embarrassing position. It seems I am guilty of a slight case of misrepresentation. Last month labeled Herman Norman a gay bachelor, he is not a bachelor. He fouled me up by getting married last January, which has not yet given him time to acquire that beaten-into-submission look. My apologies, Herman.

Speaking of the Normans, Ed. Norman has a very interesting hobby. When he gets bored at night, he calls up girls and says, "Will you please raise your shade a little higher? I can't see a thing."

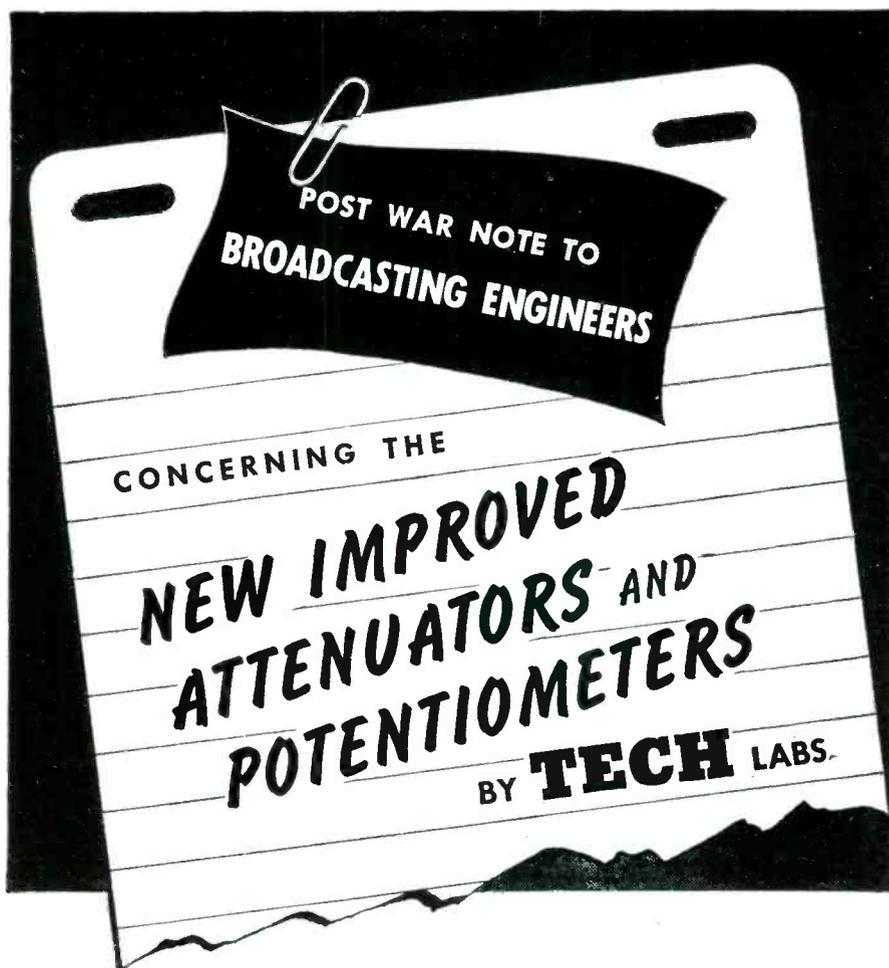
A former navy pilot joins the WPTF announcing staff. He is Arthur Fazzini and comes to Raleigh from WEED (in Tobaccoland) Rocky Mount, N. C. Arthur hails from New York, but he seems to like the south—maybe it's the weather.

Howard Sugg (TS) has quite a reputation as a photographer and has promised to let us in one some of his samples in the near future.

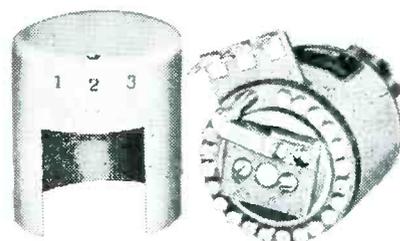
WPTF's console artist Kingham Scott is known in this section as "Carolina's favorite organist". He is even more noted to the members of the staff for

(Continued on Page Twenty-seven)

Broadcast Engineers' **25**  
Journal for May, 1945



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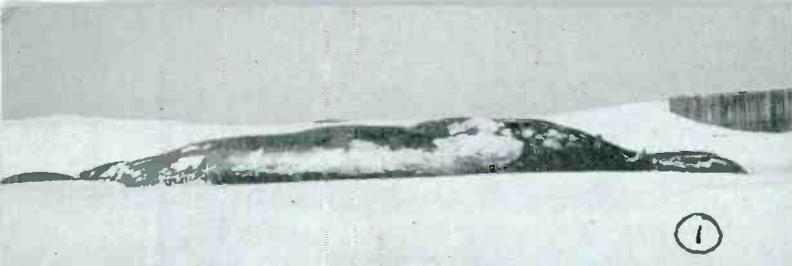


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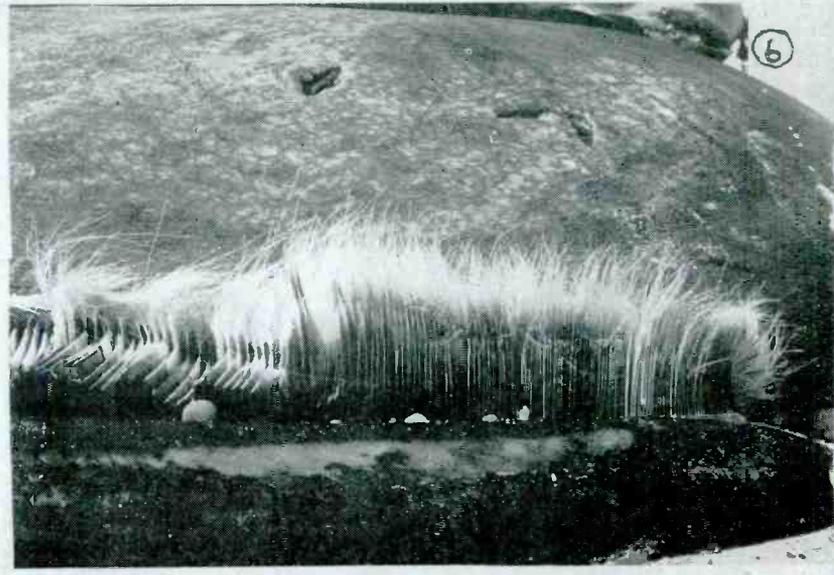
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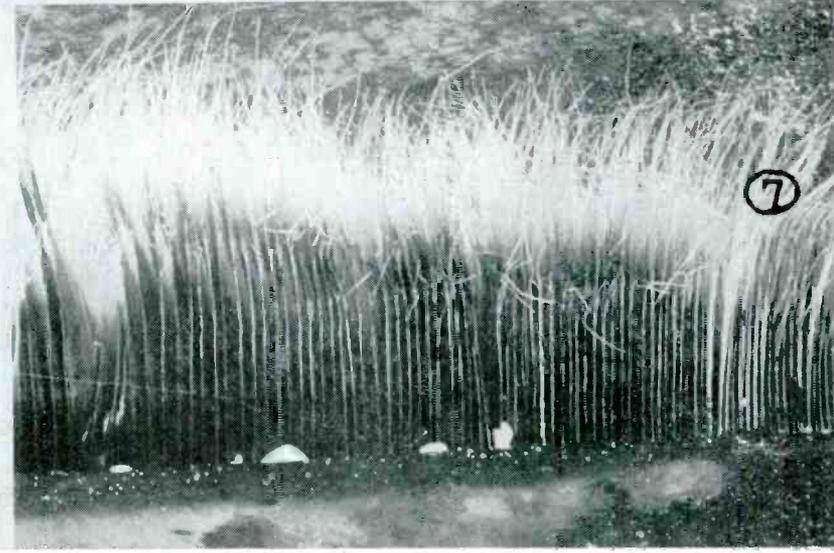
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Photos by De Somov

# The Whale — Big Game

By Sergei de Somov

Photo number one shows the hulk of a sixty-four foot whale cast by the high tide on March 6, 1945, on the beach of Southampton, Long Island, just east of Shinnecock Inlet—as seen from the ocean.

Photo number two, same as one, but as seen from the beach. At the time picture was taken all of the whale's

tail was buried in the sand (just where you see the shadow on the right bottom of this photo).

Photo number three, exposed left side of body and mouth (upper jaw).

Photo four, half of whale's back, white spots are hide damaged by pebbles and sand.

Five, people are funny, they have to

carve their initials on the whale's skin.

Six, right jaw of the whale showing "whiskers" used to trap small fish in the enormous mouth of the sea giant. The lower jaw weighed about two tons; on left part of picture, you see some of those whiskers cut off by souvenir-hunters.

Seven, enlarged portion of whiskers

as shown in number six. The latter are nothing but a horny growth topped by something like very course hair. This growth is about 4 to 6 inches wide and 10 to 24 inches long. It is used to make ladies' corsets, but they call it "whale bone". This is not so, for whale bone is not pliable or resilient. Out of real whale "bone" many other things are commercially made. We, fishermen, make "jigs" or squids out of them.

## DIXIE

(Continued from  
Page Twenty-five)

his keen wit and delightful humor, to say nothing of his practical jokes. "Scotty's" latest contribution to non-sense known as **Scotticism**: "Have to hurry down to the bus station to see Rachmaninoff."

That seems to be all from down Dixie way this time, but we will be back next issue with a bit of chatter and a list of new officers for the Dixie Chapter.

## PAGING RIPLEY!

I read a poem recently  
And now I'm in a whirl—  
Just what in heck, friend engineer,  
Is an N.B.C. mail girl?

I read of pointed ears and such  
And pinches in the hall—  
But what in heck, friend engineer,  
Is a mail girl, short or tall?

The ditty said announcers are  
An awfully tricky clan—  
But that is neither here nor there,  
Is a mail girl, girl or man?

This ditty, said the office force,  
Present some evil gleams—  
But that is not the question boys,  
Is a mail girl what she seems?

And as for all those pinches? Well,  
A bruise is just a blot—  
But tell me, is a male girl, girl,  
Or buddy, is she not?

A pinch would be OK, she said,  
If the pinching ended there—  
But boys, I'll pinch myself for months  
Or solve this riddle rare.

This ditty knocked me for a loop  
And my brain is in a whirl—  
For I wonder what in heck, my friends,  
Is an N.B.C. mail girl?

—Bert Pruitt.

Broadcast Engineers'  
Journal for May, 1945 **27**

*Crystals for  
the Electrical...*

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By Bob Rudd

### Omaha Receives Charter

**I**T'S now the Omaha Chapter, if you please. The Omaha section has been part of the Chicago Chapter since joining NABET in December of 1941.

The Charter was granted March 15th and was due mainly to the efforts of Councilman Tex Glanton. It's a long haul between Omaha and Chicago and as a result, correspondence and the handling of business between the two cities was laborious and slow. For this reason it was felt that Omaha could better serve NABET and the area by becoming an independent unit.

Councilman Glanton introduced a motion, by mail, before the 1944 National Convention at Cleveland to the effect that stations having less than fifteen members be allowed Chapter status if circumstances warranted such action. The motion was read by President Powley and a concession was given, allow the Omaha section Chapter status. A vote then by the Chicago Chapter made it final.

We are grateful to the Chicago Chapter for the aid and encouragement it has given us the past few years. We especially wish to thank Ed. Horstman, Frank Schnepfer, Frank Golder, and Bev. Fredendall for their efforts at different times. Ed. Horstman came to Omaha in early December of 1941 to explain NABET to us. Before he was able to complete negotiations with us, an advancement to an executive position forced him to resign from NABET. Frank Schnepfer was selected to fill the job and he took up where Mr. Horstman left off. Frank sent application blanks and instructions and eventually all were signed up. He kept us informed on procedure and helped us get started as a working unit.

In 1943 Councilman Glanton was invited by the then President Jim Brown, to attend the National Convention, to which the Chicago Chapter were hosts. Mr. Schnepfer and the officers of that Chapter extended every courtesy to Councilman Glanton and invited him to participate in the proceedings. In the Spring of 1944, Joe Herold and Councilman Glanton were invited to come to Chicago to participate in a special meeting for the purpose of establishing before the NLRB, NABET's bargaining power. This was a most successful meeting and definitely established NABET as the bargaining agency for both BLUE and NBC Engineers and Technicians as well as all other NABET member stations.

The courtesy and the warm friendliness that Mr. Herold and Councilman Glanton received, will not soon be forgotten. In our more recent relations with the Chicago Chapter we are indebted to Mr. Golder for keeping us informed on the Chicago meetings and to Mr. Fredendall who negotiated the final proceedings that resulted in our charter.

As we assume Chapter status, the road ahead does not look smooth but thanks to being started out correctly by a tolerant and fine bunch of fellows, we hope to be able to cope with the problems that are sure to confront us.

### WOW Celebrates Its 22nd Birthday

WOW passed its 22nd birthday, April 2nd, quietly and without fanfare. It's big job now is helping to win the war by keeping the up-to-date news before the public, by giving all assistance and aid in the numerous drives and recruitment programs, and by bringing to the public morale-building programs.

In past years WOW birthday parties were common and weeks of preparation were made before broadcasting the ceremonies. Cake cuttings and all sorts of fanfare with numerous and expensive special events were common practice in those peaceful dear days. As the war goes on, radio becomes more and more important in the part that it plays. There is no time for fanfare and frolic as radio is pledged to winning the war. So it is with WOW.

In a letter to the staff President John J. Gillin, Jr., expressed his appreciation and thanked them for making the station what it is today:

March 28, 1945

To the Staff:

Monday, the day following Easter Sunday, is WOW's twenty-second birthday. Just as those who were here at WOAW (changed to WOW in 1926—Ed.) on April 2, 1923, could not visualize the radio of the future, we today can only glimpse the new arts of the radio of tomorrow. It is now a certainty, however, that within five years after the war radio will bloom into its full significance as the greatest force in the world.

In the twenty-two years of its existence WOW has progressed a long way in the public service for which it was licensed by the FCC. The good work and loyal cooperation of its staff throughout the years made this progress possible. You individually are a very integral part of WOW and I know that each and every one of you resolve with me to make WOW's twenty-third year the greatest in its history.

The Board of Directors join me in Easter Greetings and in sincere thanks to each of you for a job well done.

JOHN GILLIN, JR.

### Our Cover

The pictures on the front cover of this issue show a portion of WOW's recording and Control room. The recording room has four recorders and the control room has another channel which does not appear in the picture. The transmitter building and grounds are delightful and one of the beauty spots of the city. This is the WOW of today. It will be interesting to compare the photos with those taken ten years from now.

### Things and Stuff

A nice three page letter from Dick Peck, with the Army Engineers in Italy. By the way, it's Cpl. Dick Peck

(Continued on Page Thirty)

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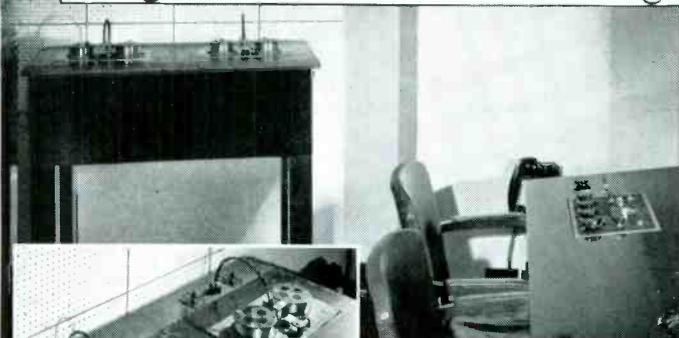
## OMAHA

(Continued from  
Page Twenty-nine)

now. He describes a five-hour trip called "Air Tour of Italy," over several invasion beaches and over the ruins of ancient Pompeii. He said many soldiers that are lucky enough to get a pass take this trip and it's well worth the time spent. Some of the bombed areas look like a huge sieve from above, so closely have the bombs been layed together. Dick says it gives everyone a lot of respect for the Air Corps.

Signs of spring are definitely here. "Tex" Glanton is talking about getting a new ham receiver as soon as they are available. Not only that, he has purchased \$30.00 worth of seeds, plants and shrubs for the spring planting. If that isn't a sign of spring we've never seen any—Mark McGowan is building a "High fi" amplifier that will be the cat's whiskers. It will put out twenty-five watts and will match any load from 3 to 500 ohms—Mark is also doing his share to relieve the manpower shortage. He is working part time for All-State Co. as a shipping clerk! Owner Johnny Brown says that Mark does a fine job—Rudd is going to raise a few baby chicks to can this fall. His boys, Bill and Tom, raise pigeons but Dad is taking over their pen for his chicks. "Now boys, wait a minute—now please wait a minute—oh, OK, I'll move my baby chicks out. Now let me see where will I—Oh, yes, I can put them in the basement"—Kids, BAH.—Mrs. Joe Herold spent a few weeks with her parents in Detroit, Mich., during March. Mrs. Herold, OK Lee then, has been busy with Canteen, Red Cross, and home Nursing work this last year and certainly earned a respite from her duties. Joe was a good boy during her absence—we'll swear to it—President John Gillin, Jr., spent a few days in Washington on station business—Orville Weimer, Chief of KOWH, has discovered that it's not a good idea to take a pickup apart with improvement and repair as the object. He finds those little rubber dampers don't go back in at all. "The things just like a watch," says Orv. Ha—Fred Frye (WOW Relief Engr.) has been repairing and rebuilding old radio sets for resale. He is amazed at the demand for them—"Tex" Glanton got a letter not long ago, addressed to "Rev. Glanton". "Tex's" initials D. R. probably caused the slipup—Paul McDonald (Surprise—not with WOW) full NABET member, spent two days in Milwaukee on business for his company—Al Maller lost that nice antenna we were telling you about in the March issue. One of those nice Nebraska Blizzards came along and swept it to the ground. Al plans to rebuild it and put it back up, as it's the best 2½ meter antenna he has ever had—The blizzard also effected the Glanton family. They found a little waif on their front door step. They took it in and fed and comforted it. They wondered who might have done such a thing and attempted to find from whence it came. After several days of trying they decided to keep it themselves. They called it spot. Spot was a dog. Tex made a collar for Spot and at the same time made an identification tag to fasten on it. He let Spot out that very same day. That evening a phone call informed them that Spot had come back to a broken hearted little boy and would return no more. "He sure was a nice dog," said Tex—Our gratitude to Soren Munkhof (News Chief) for his cooperation in getting and fur-

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nishing pictures for the Omaha Sections' news column. Soren took the fine picture that appeared on the cover of the March issue and the pictures of the WOW control and recording rooms that appear in this issue—Cy Hagrman is building a miniature control room for his oldest son Dick. Dick is a chip off the old block and is a radio experimenter of the first water. Dick, ten years old, actually works on radios and does all kinds of work on them. CY is building Dick a four channel mixer that will mix the output of a radio, two turntables and a mike. If Dick doesn't turn out to be a good control man, it won't be CY's fault—Louis DeBoer (SE) is house happy. He has the land to put it on and its all paid for. He even has the priorities to buy the material but he don't know what to do. If he builds now, will it be wise? Maybe the lumber won't be any good. Maybe if he waits for a year or two, it will be cheaper. Oh, Dear. The last we heard he planned to build. Cheer up Louis as we know how you feel. We have been wanting to do some remodeling—A fine letter from Lt. Bill Dunbar (USNR). Bill says he is working with the finest bunch of lads in the Navy and that he and the boys are getting in plenty of Lab. time. He and his boys have built a lot of Lab. equipment from odds and ends and it has helped to make many a tough job easier. Wish we could tell you more about Bill's activities but he is too darned modest—dadgum it—As this column develops from day to day all sorts of things turn up. As we came in to relieve Mark McGowan the other eve (March 24) we could hardly believe our eyes; there he sat with "Tex" Glanton's pet bantam rooster on his arm. The rooster seemed to be enjoying himself and was all puffed up at being allowed this rare privilege—Chief Bill Kotera spent a busy week in Colorado, the later part of March, doing some recording work for the Army.

#### Fourteen Year Veteran Leaves WOW for New Post

Assistant General Manager Harry Burke left WOW April 1st to take a new post as General Manager of KFAB, a Columbia outlet with studios in Lincoln and Omaha, Nebr.

Mr. Burke got his start in radio at WJAG, Norfolk, Nebr., in 1927. He was hired as Commercial Manager of the station and aired the first sponsored program over WJAG. When he was not working on accounts, he did



Harry Burke

announcing and control work. The only other announcer at the station at that time was Karl Stefan, now Congressman Stefan from the 3rd District. He stayed with WJAG for four years and then in Dec. of 1931, he came to WOW as part time announcer. In the fall of 1932 he was put on a full time basis and worked as a regular announcer until 1935.

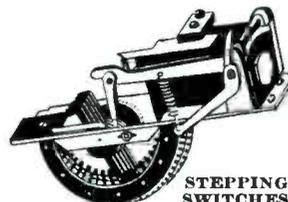
When WOW moved its studios and transmitter in the fall of 1935 he was made Program Manager. Harry did a splendid job as Program Manager and the proof of this was his promotion to Assistant Manager in Charge of Sales, in January of 1942.

(Continued on Page Thirty-two)

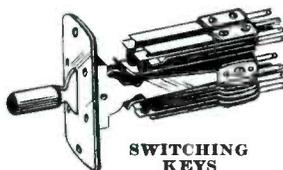
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# KFI—Los Angeles News

By  
E. F. Wilmshurst

THAT seemed to be Lloyd Jones hurrying thru the KFI hallways . . . That he was in Burma . . . Yes! It was Lloyd . . . he's bound for San Diego, thence to Honolulu and a new job. (4-2-45)

The San Francisco International Conference is getting to be a subject of talk around here. Program personages have made trips north to case the town and KFI will be up there giving an "unbiased" account of the doings. The station will have news "Analysts" . . . or its "Commentators"? . . . covering the story from all angles and bringing the listener a "blow-by-blow" account of the "meeting". Pax vobiscum!

Shortshots from Buena Park (KFI transmitter): We have a new man on the transmitter staff. He is Mr. Ed Woods whose previous work was the business of motor-winding. He replaces Norol Evans. The 50 has been getting some repairs of late, with complete overhaul of the water cooling system, also the KFI towers are in for a new coat of paint. The mice have been getting over-bold of late, chawing up tube cartons, so a nice hefty Tom cat has been added to the staff. He is doing a good job on the mice but his relationship with the police dogs is rather strained . . . provided with an escape chute into the transmitter room, he can duck thru the small entrance when the going gets tough, and make faces at the police dogs. Market quotations: Jumbo Eggs, 45 cents per doz. No more Chick-

en fryers . . . Sturdy says its too much work . . . just freezin' his own. Lyman Packard is going thru the chairs of the Elks Club to become an "exalted ruler". (I made a crack on that but Lyman ignored it.) He said the weather was fine and warm today . . . could see Mt. Wilson Observatory from Buena Park . . . a perfect day for golf . . . hnnnnn—hnnnnn.

Dave Kennedy is deep in the throes of color photo development and is using some of the station beauties for his subjects.

There is a beautiful color chart on the bulletin board and on close inspection it proves to be the "Vacation Schedule". It seems to run all the way from here to there, and back again . . . why shouldn't it . . . our new setup spreads the vacation periods over 12 months. One person has already taken a week of his vacation . . . I'd mention him by name except that he hasn't paid his dime for last month's mention. I can wait!

H. L. Blatterman (co-boss . . . No, I'm not calling a cow) . . . is back from the East. He was in New York and Washington, D. C., for quite a long stay . . . He seemed happy to get back to California to treat his N. Y. cold with a spot of sunshine . . . What tall engineer with the initials RGS had to feel his way to work at 5 a.m. after that Chapman Park "El Morrocco Room" super-doooper. Also seen that night were, Dick Bull, John Sutcliffe,

Ed. Starr, Curtis Mason, Ray Moore, Ernest Wilmshurst, Wayne (don't fence me in) Johnston, H. L. Blatterman, Richard G. Schroeter (ahem), Dave Kennedy . . . let's see that's ten names . . . at ten cents a name . . . hmmm . . . one buck . . . It's a hell of a way to make a living . . . beside it's too slow . . . Maybe I oughta use "CAPS" and get a quarter like that feller Dewes.—PAU.

## DETROIT (Continued from Page Twenty-eight)

busy cutting up gunny sacks for new sails—Ronnie Fisk at WENA is in the hospital at this writing where we understand he had his tonsils or some-such thing out—he's doing very well and we all expect to see him standing at his old job in the near future. Olin Lapham has taken over the job of Studio Alternate left vacant by the departure of Frank Koster to toil for Raytheon in Waltham, Mass.

We note from the latest issue of the Electronic Reporter that some one on the west Coast is calling our Chapter Chairman and your short legged reporter uncomplimentary names. Who was it said they didn't care what people said about them—just so long as they said something.

Well, this is about enuff from here for now—we would appreciate hearing from anyone in upstate Michigan who has any news for future issues of the "Journal".

## OMAHA

(Continued from Page Thirty-one)

Mr. Burke has been a friend to the Engineers and is widely known among the Engineering profession in this

area. He understands the Engineers' problems and he always has a friendly smile and a welcome hand. His presence will certainly be missed by all of us here at WOW.

Fortunately Harry is not leaving Omaha. His office will be located across the street from his present one where we can drop in and visit him once in a while. Goodbye and best wishes to you as you take over your new duties.

### Vital Static

Tex Glanton nearly hit the jack pot this month. His birthday is May 2 and on May 24 he completes sixteen years of service with WOW. He waited until June to get married so he will be in here again next month. Congratulations to Paul and Rowena McDonald who will celebrate their twelfth wedding anniversary May 11. Congratulations to Glenn and Mildred Flynn on the arrival of a new baby boy born to them at Jennie Edmundson Hospital in Council Bluffs, Ia., March 25th. Glenn is now a man of double papament.

If you require information on

## INSURANCE

of any kind, call

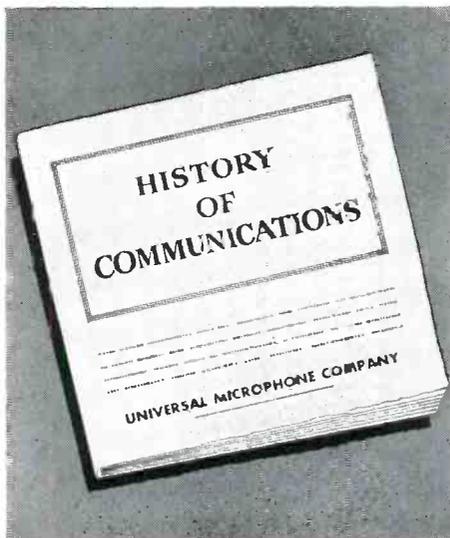
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## UNIVERSAL'S NEW D-20 MICROPHONE



The stage was set for something new and here it is. Universal's new D-20 Microphone . . . soon on your radio parts jobbers' shelves to fill your essential requirements . . . uses Universal's "Dynoid" construction . . . A dynamic microphone of conventional characteristics built to fill the utility requirements of war time plus advance styling of the many modern things to come. Orders placed now with your Radio Parts Jobbers will assure early delivery when priority regulations are relaxed.

*Write for Bulletin 1458 covering this new microphone.*

◀ **FREE** — *History of Communications Picture Portfolio. Contains over a dozen 11" x 14" pictures suitable for office, den or hobby room. Write factory for your Portfolio today.*

**UNIVERSAL MICROPHONE COMPANY**  
INGLEWOOD, CALIFORNIA



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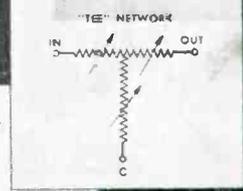
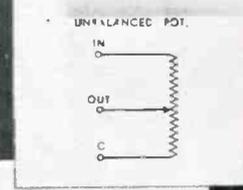
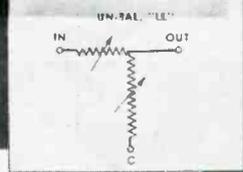
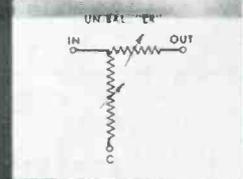
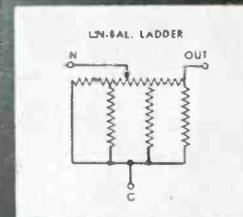
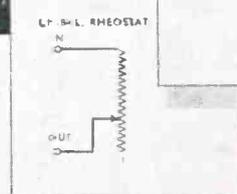
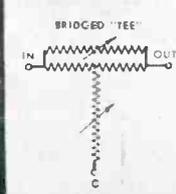
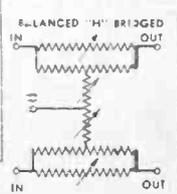
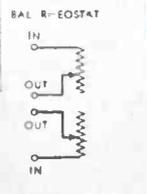
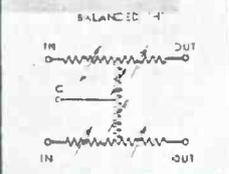
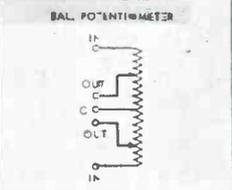
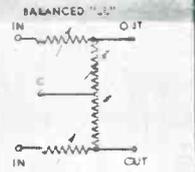
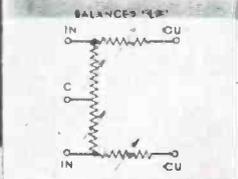
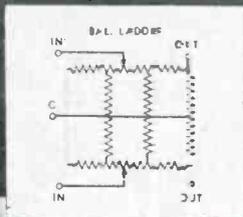
# DAVEN

## ATTENUATORS

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