

THE BROADCAST ENGINEERS' JOURNAL
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The Broadcast Engineers' Journal

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**JUNE
1945**

**VOL. 12
No. 6**



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

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Transmitter of America's Powerful Voice is Radio . . . awake twenty-four hours a day . . . talking to our friends and our enemies . . . transporting Broadway and Hollywood and the girl next door to the boys over there . . . building morale on the home front.

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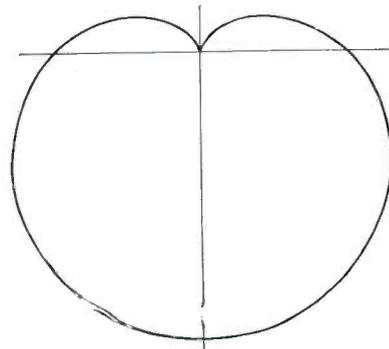
THE GOULD-MOODY COMPANY

RECORDING BLANK DIVISION

395 BROADWAY, NEW YORK 13, N. Y.

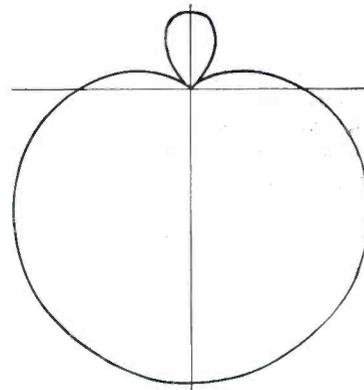
.. This is Cardioid

"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.



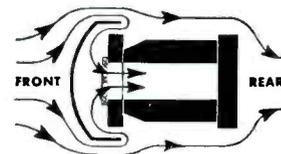
.. This is Super-Cardioid

"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.

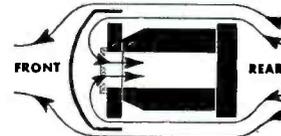


.. This is Uniphase

"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

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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.

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



Raymond K. Strong

1903-1945

THE untimely death of Raymond K. Strong, on April 1, 1945, came as a terrible blow to his many friends. On March 19th he underwent an operation for appendicitis and peritonitis set in. The infection was more than he could stand. He grew weaker day by day and two weeks later drifted out of this world.

Raymond was born to Mr. and Mrs. William Strong of Owego, New York, April 27, 1903. There he lived his boyhood, was graduated from high school and took a position as clerk in the Owego Postoffice. About that time he became interested in the then new science of radio, became an amateur radio operator, and built his own station. He was truly a pioneer in radio as in 1922 he was the first amateur to communicate with a moving train by radio. The conversation lasted while the train covered a distance of some twenty miles and was one of the first experiments using radio in that service.

On December 3, 1923 he joined the staff of WGY as technician. In 1931 he was transferred to the National Broadcasting Company for nine years, when the General Electric Company relinquished the management of WGY programs to them. He was a charter member of the Association of Technical Employees of NBC, and was the first secretary-treasurer for the Schenectady Chapter. Later he was elected chairman of that Chapter when A. H. Korb was granted a transfer to the west coast.

Ray had a very pleasant personality

and immediately won the friendship of those he met. He was held in high esteem by his fellow workers who often sought his advice in pertinent matters. He was soft spoken and always willing to help in any way possible, very reliable, and never got excited



in emergencies. W. J. Purcell, engineer in charge of WGY since 1922, paid him the highest compliment by saying "I could always rely on Ray, and cannot recall his ever missing an assignment." G. Emerson Markham, manager of Farm and Science Broadcasting, Frequency Modulation, and Television, said "I have worked with Ray for twenty years and have never known him to say a mean thing about anyone, or do anyone a wrong."

During the past two decades many

have come to WGY to start their climb to the top of the ladder. They will remember Ray and the many kind things he did for them. In that way he contributed much to the art of broadcasting and radio. His work and deeds will never be forgotten.

His amateur station, W2SJ, won him many friends all over the world, not that it was different from any other, but his personality even showed in the dots and dashes. He was very proficient in handling either the morse or continental codes. His "fist" with either key or bug made his signals sound like music in the ears of every operator who heard them.

In 1932 he married Theresa Crippen who at that time was Mr. Purcell's secretary. About a year later the number in their family jumped from two to five when the triplets, Raymond, Jr., June, and Joan arrived. From that time on Ray took a more active part in running the house and spent much of his time with his family. During the past several years his has been one of the popular families in his neighborhood. He was a member of the Scotia Methodist Church and Christopher Yates Lodge, F. and A. M.

His hobbies were many. Ever since boyhood he has loved to fish, hunt, and shoot with pistol or rifle. During the last few years he had taken up amateur photography. The story of the life of the triplets can be told with pictures which show the work of a photographer of no mean ability.

To us who have known and worked with Ray for so long, comes the satisfaction that our lives have been fuller for having known him. A better friend no man ever had.



Tech Laboratories, 337 Central Ave., Jersey City 7, N. J., announces the appointment of Mr. D. D. Jones as Assistant Chief Engineer. Mr. Jones comes to this position well prepared as he has spent the last six years in the Engineering Department of the Columbia Broadcasting System, and prior to that he was Chief Engineer at Radio Station WAAT, Jersey City.

OUR COVER

Turnstile radiator at WENA, the Detroit News FM Station, located on top of the Penobscott Building in Detroit—seven hundred feet above the street level.

NABET Activity

No word from the Nabet National Office this month, so we presume that no news is good news!

In Nabet's national elections, Mr. Harry E. Hiller has been reelected chairman of the New York Chapter, and Mr. J. Willard Dean has been reelected chairman of the Dixie Chapter. We should be able to report the remainder of the election results in our next issue.

Congratulations and welcome to the Engineering Staff at KFKA, Greeley, Col., latest addition to the Nabet ranks.

THE BROADCAST ENGINEERS' JOURNAL

Ed. Stolzenberger
Editor

Coordinator F. R. Rojas

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"The following is electrically transcribed.."



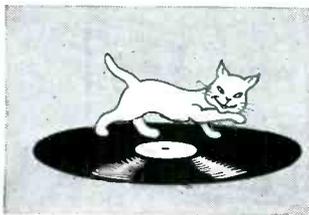
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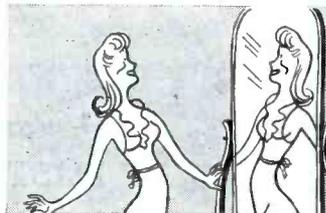
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important transcriptions are. For recording engineers know that PRESTO discs give finer results with less margin for error—*actually perform better than most of the recording equipment on which they are used.* That's why you'll find, in most large broadcasting stations, recording studios and research laboratories, the standard recording disc is a PRESTO.

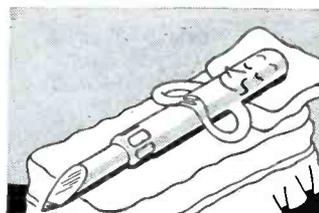
WHY BROADCASTING STUDIOS USE MORE PRESTO DISCS THAN ANY OTHER BRAND



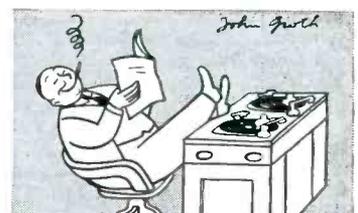
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Transcontinental Television Cable Progress

BY the end of this year the Bell System expects to have 2,000 miles of its coaxial cable network manufactured and at least three-fourths of this mileage in the ground, the American Telephone and Telegraph Company announced today.

One year ago the American Telephone and Telegraph Company announced a 5-year coaxial cable program involving 6,000 to 7,000 route miles of construction. The rapid pace at which the job is going forward has been dictated by the steadily increasing need for more telephone circuits between the nation's far-flung war centers.

In addition to its use for long distance telephone service, coaxial cable is capable of transmitting the very broad bands of frequencies required for television. The coaxial cable system now being built is therefore suitable to form the backbone of future nationwide television program networks.

By the end of this year the cable

crews on the new all-cable route to the West Coast are scheduled to be in the vicinity of Fort Worth and Dallas, half way across the continent. The aim is to reach Los Angeles in the spring of 1947.

The following tabulation, which includes the existing links in the coaxial network plus the sections to be installed or in process this year, shows the present status of the program announced so far:

In Service

New York-Philadelphia—A 2-coaxial cable, 90 miles long; installed in 1936 for experimental purposes; now in service for telephone purposes.

Stevens Point, Wis.—Minneapolis, Minn.—A 4-coaxial cable, 200 miles; installed in 1940; now in service for telephone purposes.

In the Ground—Not Yet Equipped

Baltimore-Washington—A 4-coaxial cable, 43 miles.

Philadelphia-Baltimore—A 6-coaxial cable, 100 miles.

Terre Haute-St. Louis—A 6-coaxial cable, 175 miles.

Atlanta, Ga.—Jacksonville, Fla.—A 4-coaxial cable, 295 miles.

1945 Program

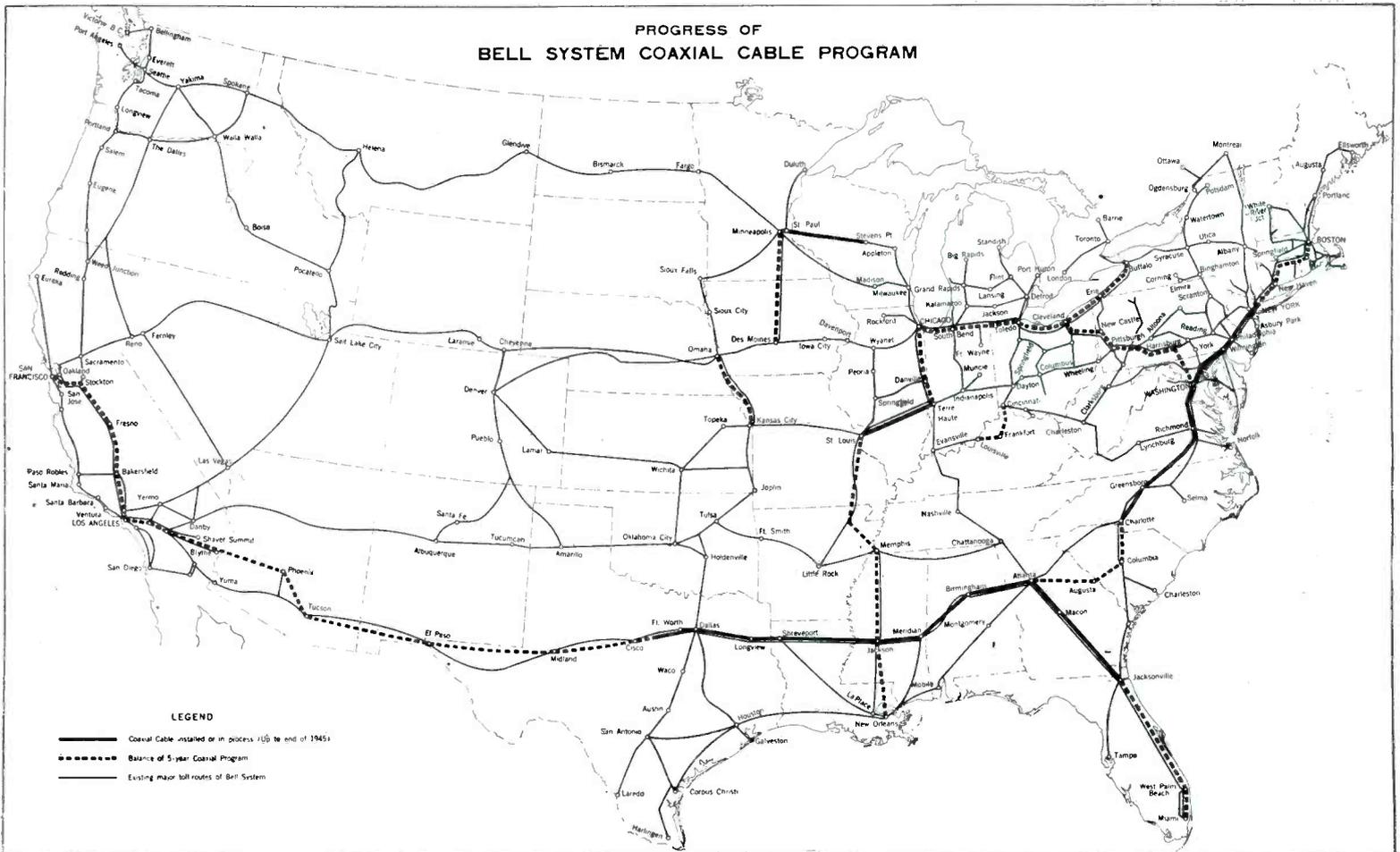
Atlanta, Ga.—Meridian, Miss.—A 6-coaxial cable, 310 miles.

Shreveport, La.—Dallas, Tex.—An 8-coaxial cable, 200 miles.

Washington-Charlotte, N. C.—An 8-coaxial cable, 400 miles.

Meridian-Shreveport—A 315-mile section, with 6-coaxial cable from Meridian to Jackson, Miss., and an 8-coaxial cable from Jackson to Shreveport.

Construction of the remainder of the coaxial program thus far announced is expected in the next four years. The order in which the remaining sections will be installed is yet to be determined. In general, there will be four interconnected backbone routes: (1) The Atlan-

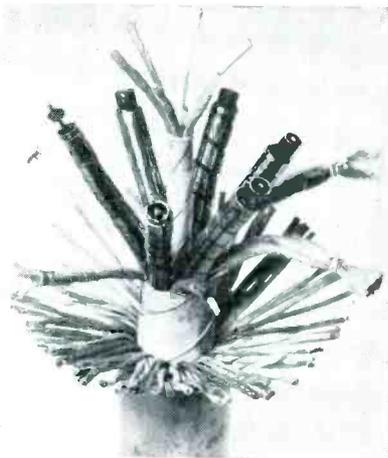


tic Seaboard route, from New York to Miami via Atlanta; (2) the Southern Transcontinental, from Atlanta to Los Angeles; (3) the Mid-Western route, from the East Coast to Chicago via Pittsburgh and Cleveland; and (4) the North-South route, from Chicago to New Orleans via St. Louis and Memphis.

Of those segments of the network where additional long distance telephone circuits are most urgently needed, the Bell System has been proceeding with installation of the coaxial systems as rapidly as the cable and equipment can be manufactured.

In order to provide more telephone circuits to the West Coast with all possible speed, Bell engineers plan a temporary postponement of coaxial construction between Charlotte and Atlanta. In this section, existing cable facilities can be adapted to function with the New York-Los Angeles coaxial cable in the provision of telephone circuits. This would leave installation of the Charlotte-Atlanta coaxial cable until a later date.

Experiments with coaxial systems as a means of transmitting many telephone conversations simultaneously over one pair of conductors began more than a



The Bell Telephone System expects to have 2,000 miles of its coaxial cable network manufactured and at least three-fourths of this mileage in the ground by the end of 1945. The rapid rate at which the job is going forward has been dictated by the steadily increasing need for more telephone circuits between the nation's principal war centers. Besides its telephone use, coaxial cable can be equipped to carry television programs. Above is a fanned-out view of the six-coaxial cable, showing the construction of its various conductors. Aside from the coaxials themselves, the cable contains a number of regular telephone wires which provide additional long distance circuits.

decade ago. Use of the New York-Philadelphia cable for transmitting television images was first demonstrated in 1937.

The "coaxial" itself consists of a copper tube with a single wire in its center. With the present terminal and repeater equipment, a pair of coaxials can provide 480 telephone circuits. Or, the coaxial can be arranged to transmit both the visual images and the accompanying sound for television programs.

The Bell System's projected radio relay system between New York and Boston is also going forward. This trial of micro-wave transmission is intended to determine its efficiency, dependability and economy for multiplex telephony and for interconnecting sound broadcast and television stations. It will help to determine how large a role this type of system will play in the provision of additional links in the Bell System network of communication routes.

The Bell System has announced its intention to utilize either coaxial cable or radio relay systems or both to augment its nationwide telephone service and to provide network facilities for the radio broadcasting and television industries.

From Up the Mohawk

By Horton C. Mosher

STANLEY and Mrs. Godell are the proud parents of a baby girl. Susan Anne was born at the Ellis Hospital April 12th and weighed seven pounds four ounces. Mother and baby are doing very well. If you could see the smile Stan is wearing you'd know how proud he is.

Schenectady, N. Y., April 20th.—The War Labor Board, second district, held a hearing, on the wage dispute between NABET and the General Electric Company. Due to some technicality it could not be completed, and has been extended for two weeks. We hope to have a report on the outcome soon.

Miss Charlotte Frey (SE) left the General Electric Company April 29th to return to school. She plans to study radio broadcasting and script writing at the University of Oklahoma, at Norman, Okla. She joined the technical staff of WGY and WGFM in September 1943. Charlotte expects to retain her membership in NABET and return

to radio work after the completion of her schooling. She likes the West and its horses so we wish her the best of luck and happy landings, if she tries any bronco-busting.

Morey, Baker, Roylance, and Nickle, from the transmitters, tried a little bullhead fishing at Long Lake recently. Morey bet Nickle a quarter they wouldn't get any—he won the bet. Take it from an old timer boys, don't fish for bullheads until the apple trees are in bloom.

The month-early spring in this section fooled many of us. Morey and Vert thought the time was right for some trout fishing. They went north instead of south and found snow in the streams but no trout.

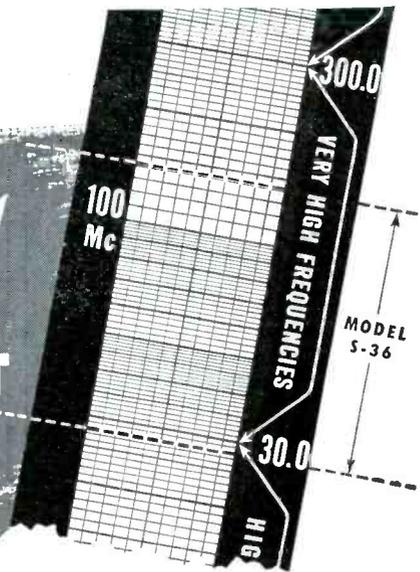
One fellow planted some of his garden on Mar. 27th. Fortunately the frost did not strike here and everything is coming fine. Tie Schumacher is watching the first blossoms on his dwarf pear trees. He can't decide whether to pick

them off or let them grow. In the meantime he is transplanting white birches. Jim Cornell is also doing some landscaping by planting trees and shrubbery. He is planting high growing trees with the hopes they will keep the planes from taking his chimney off as they takeoff from the airport.

April 12th seems to be a popular day around WGY. As we have said before Susan Anne Godell was born on that day. It was also the birthday of our supervisor Al Knapp, Ruth Wallgren (SE) and Deborah Cotton's Mother. Deborah cleverly arranged a little party for Ruth and her mother, with each thinking it was for the other. We heard that Al and Susan Anne were left out—Tsh! Tsh!

The WGY-WGFM technical staff has two new members. Miss Edith Hoffman came from Munson, Pa. She is a graduate of Williamsport Technical Institute and is the proud possessor of a second class ticket. Miss Jean Dunn, a native of Schenectady, was graduated from Middlebury College, Middlebury, Vt., and has a third class ticket.

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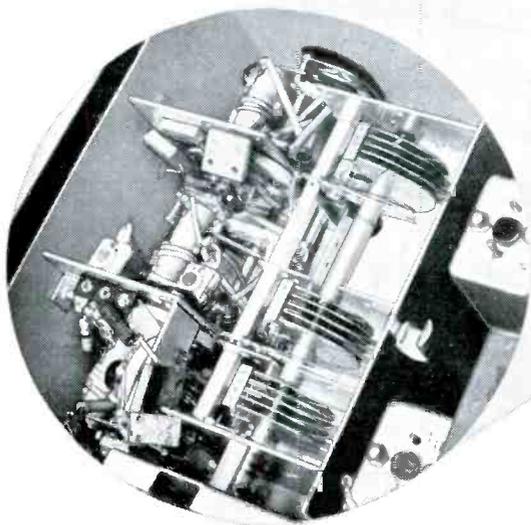
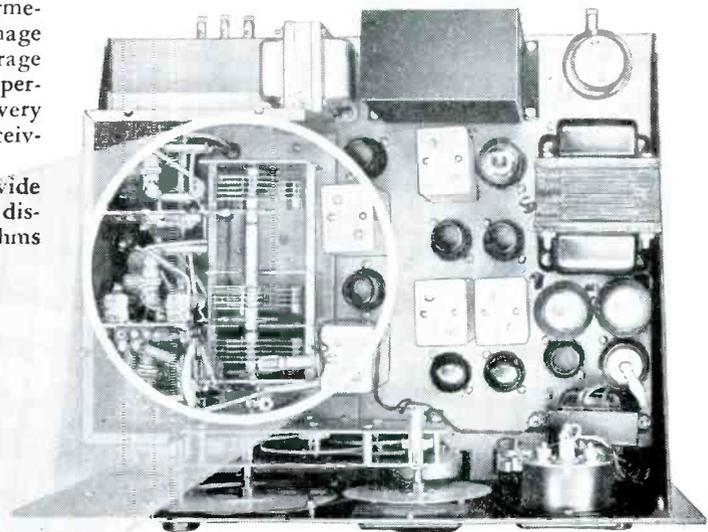
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—Photo by Joe Conn

N. Y. - NBC NEWS

By George F. Anderson, Jr.

IT IS officially unconfirmed that unofficial news is not official or words to that extent, of course, the reference is to the first VE weekend and to the second one. Here in New York it produced a bit of excitement and a flurry of overtime. John Pawlek, SE, was sent to Washington and stayed for several days, being replaced later in the week by Harry Alexander, FE.

Harry will be back in New York about the time that this mess of typing is due, the tenth of May.

The real VE Day saw Joseph Silva, SE, pushing his way through the crowds in Times Square with an ND 10, mikes, battery case and stands. The taxis could not get within several blocks of the Square and Oh My but those amplifiers are HEAVY.

Walter Mullaney, FE, was the lucky boy, he had a trip by ferry or rowboat out to the Statue of Liberty for the lighting of the torch on Tuesday nite.

George Anderson (Gotta get me name in) and James Hackett, FE's, were on the Mobile Unit and the RCA Roof, respectively, but did nothing but work each other. Felix Ghirlando, FE, also was on the roof of the International Building and later went out to Floyd Bennett Field.

Jerry Sellars has returned to NBC Master Control, after doing some Ultra-Ultra Secret work for Uncle Sam, and is now sweating it out in MCD again.

John Tracey, mentioned last month as having transferred from Soundeffects to Maintenance, has now transferred again, and this time he is in the Reference Recording department.

The golf tournament is beginning to gather momentum and before very long we will have the names of the winners of the first events.

Noticed in one of the local papers mentioning the award to DuPont that they gave credit to Henry Meyer, SE, Ralph Reid, SE, from Hillywd (Ex New York) and Henry Westover.

Neal McCarroll and Joseph Schmidlin went to Pittsburgh recently on a recording expedition and while there, Joe just missed becoming an ARMOUR Plate by this (-) much. Joe was holding a mike over the edge of a vat full of molten steel and he almost slipped.

Wazzamatta Clarence (Westy) don't they like you?

Also in the papers, was a little piece well hidden, about the fact that The Canadian Broadcasters now give credit

N. Y. - BLUE NOTES

By Gil McDonald

AFTER a hectic few days due to VE Day, things have quieted down to normal once more. The broadcast engineers did themselves proud in a job that included the greatest coverage of any event since the inception of radio. Things went very smoothly considering the magnitude of the job. Some of the other nets had lots of feedbacks that sounded like P-38s warming up (not the Blue of course).

Three of the field group are away on extended tours at present. **Harold Campbell** is travelling with **Guy Lombardo**, **Bob Dougherty** was in Washington to help cover VE Day operations there, and **Tony Hutson** was last heard from Kansas City, a stop-over on his tour with Town Hall.

Irving Grabo of Field is very happy getting to work at 6 AM to cover the Fitzgeralds because it gives him all afternoon to putter around his new garden. That's what **Anderson** says anyhow.

Bert (Oh, Henry) O'Leary has moved his "office" from 5C to the lounge, where he is designing some new aircraft radio equipment.

John Kinsel finding the housing situation so bad he can't bring his family here until he finds a house nearby. He threatens to move into the glass display case on the fifth floor but he can't find the key.

By the way, **Bob Dougherty** has some fotos in his possession of himself chasing a certain Blue producer through the Florida Everglades with an axe. Knowing the producer, I imagine Doc was justified in his intentions. He probably wanted to use 12 mikes with a four position mixer.

That's all the hooey for this month. So long.—Gil.

to the Technicians. After each broadcast when name credits are given for the cast and producer, they also give credit, where it is rightly due, to the engineer who cranked the knobs around and kept the VU meter from developing letter ESSES.

Gee what a fellow won't do to give someone a HOT-FOOT.

Incidentally Joe moved six Memovox recorders all by himself, and then installed two new Scully recording lathes where the Memo's usta was.

An addition to Master Control these days are Miss Katherine Reynolds, SE, Miss Ruth Thomas, SE, and Miss

Marjorie Allen, apprentice. Two of the young ladies matriculated from Whit Baston's Apprentice Training Group and are now SE's. Well the lounge is definitely male and so the girls sit in the Master Control room between assignments. Makes it look real Purty Too.

George Butler, FE, John Morrisey, REC, and Harold Schneider of Recording are in the land of the Golden Gate, where you must never say Frisco but always San Francisco,

and they are finding out what makes an UNCIO delegate an Uncio Delegate.

Does anyone have a Flashlight to loan John Pawlek? Johnny needs one for dark nights. The other night while looking for his car in a parking lot, he did not see a car in front of him and now he is walking around with bruised ankles and knees.

Support the Seventh War Bond Drive.

Doings in DENVER

By George Pogue

FLASH! The biggest news this month is that the entire engineering staff at KFKA in Greeley, Colo., has joined with NABET! The new members are **Kenneth H. Cooper**, **Charles C. Hay**, **Waid Johnson**, and **Claude Petit**. On April 17th, **Russell Thompson**, Chapter chairman, **Geo. Anderson**, transmitter councilman, **Carl Nesbitt** and **George Pogue** went to Greeley and had lunch with the engineers of KFKA to tell them about NABET. A discussion followed at which time Russ answered questions, and later the discussion was carried on further at Kenneth Cooper's home—as a good old fashioned "bull" session. Result: Andy and Carl pawing through Kenny's "Junk Box" and dealing in some high finance, returned to Denver with a Cardwell condenser and a VI. The following week KFKA informed us that they would join with us and application blanks were sent up which have come back signed in full. Radio Station KFKA is owned and operated by the Midwestern Radio Corporation. It is a 1000-watt regional station and has had a contract with IBEW since June 1941. The Denver Chapter and the entire membership of the National Association of Broadcast Engineers and Technicians welcome the KFKA engineers into our organization!

Fishing season opened a month earlier in Colorado this year. In at the opening gun were **Stan Neal** (SS), **Kenneth Raymond** (SE), **Earl Ferguson** (sales), **Ellsworth Stepp** (production), **Charles Baker** (announcer), and **Vincent Corjett** (SE from KVOD—Blue outlet). Vincent brought home the only catch after all had tried worms, salmon eggs, and flies to no avail. Though it was cold and a dismal rainy day, the streams were clear. Stepp says he is sure he got a strike anyway.

Something new has been added at KOA. She is **Bernice Williams** who is the first girl hired at KOA in Guest Relations. She operates the elevator on the day shift. Bernice came from Salt Lake City but says she has fallen in love with our mile-high city. She is about 5 feet 7, with dark hair and lovely green eyes. We think you will agree as you note the photograph that Dale Newbold, in charge of Guest Relations, is a good picker. Take it easy there, fellow; the boy friend in India is a B-29 bomber pilot!

Walter Morrisey (SS) can now qualify for the "little king" in the Pop-Eye cartoon as he goes around saying, "Worry, Worry, Worry!" Since **Clarence Peregrine** "Perry" (SS) has gone to San Francisco to give the Golden Gate gang a hand with the Peace Parley, the added responsibility of making out the engineering schedule has fallen on Walt's head. Mystery—who gets studio D today??? Perry's early days with broadcasting were KGO before he came to Denver when the General Electric Company started KOA. He will also be able to visit with his



Miss Bernice Williams, KOA's first girl employee in Guest Relations.

mother, daughter, and grandchildren who live in Oakland, while he is there.

The maintenance trick at the transmitter is usually a very quiet one. However, last week the silence was broken by a crash and a tearing sound. This at about 1:30 A. M. **Garland Dutton** (TE) and **Dorence Stone**, guard, rushed to the window to see a car careening through the gate, breaking the chain which has been across the drive since Pearl Harbor. Stone tore out of the building with his trusty '45, followed by Dutt with a shotgun. It turned out to be a couple of sailors and their girls who were trying to lose a persuing carload of zoot suiters from the town of Aurora, a suburb of Denver. It seems there had been a heated argument in Aurora and as they left the zoot suiters had followed them with a view to ganging up on them, but they change their minds when they saw what had happened and drove on. Finally the country side had settled into its usual peaceful quiet, when a very inebriated gent turned his car over in the ditch in front of the trans-

mitter and crawled out without a scratch. Well, anyway, says Dutt, it makes the time go fast.

It being the month of May, election time has rolled around again for the offices of chapter chairman, studio councilman, and transmitter councilman. **Vern Andrews (SE)** and **Carl Nesbitt (TE)** have been appointed to the election committee. Last time Vern was on the committee with **George Anderson**. Both were elected councilmen! Hmhhh!

The old stork is still cruising around the rooftops of KOA engineers. On the 11th of April he perched on the roof of **Douglas "Finkie" Kahle**, leaving a lovely 7 pound 3 ounce baby girl. This is the third little girl for Pinkie and Polly Kahle. She is to be named Linda Alta. From last reports the father was doing just fine.

Every time we think we've pulled a good one, **Joe Rohrer (SS)** goes one better. The other night a car passed Joe at high speed crowding him over to the curb. Joe took after him to "Tell him a thing or two". As they raced through town Joe hoped that a cop would start after them so that he could report the incident. This

was one of those times when there wasn't an officer within blocks. As they raced along they wound deeper into a tough part of town which is called "Five Points" and populated mostly by colored people. Then Joe noticed another car following behind him and thought that it was the cops at last; it turned out, however, to be a taxi owned by a company in that section of the city. The car ahead of him suddenly swerved into an alley; however, it didn't quite clear and crashed into the telephone pole at the entrance. Car doors flew open and out rushed six husky colored boys. Joe threw his car into reverse, away from the alley and tore down the street with the cab following and having one of the colored gentlemen on the running board. After a merry chase Joe finally lost them in the maze of City Park, and still no policemen! Joe said it was a relief to be able to turn off and go home and not have a car following, but he wonders, "What do you suppose would have happened if that car hadn't hit the pole and I would have followed it up that alley." Well, we wonder too; also we wonder if it isn't about time to say "So long," until next month.

This Report Comes to You by Way of San Francisco

SAN FRANCISCO engineering was handed one of the toughest assignments in its history when it was called upon to provide facilities for the coverage of the United Nations Conference by NBC & Blue for regular transmission to the U. S. Stations and by BBC, CBC, ABC, (Australian) and Radiodiffusion Francaise. NBC also furnished lines on the two opening days of the Conference to



Checking equipment and stories just before air time in NBC's portable studio located in the anteroom to Box J at the San Francisco War Memorial Opera House, where plenary sessions of the United Nations Conference are held, are left to right: **George McElwain**, KPO-NBC engineering field supervisor; **Frank Schnepfer** of NBC-Chicago engineering staff; **George Greaves**, KPO engineer in charge; **Ben Grauer**, announcer; and **Richard Harkness**, Washington Commentator. Mikemen can sit in doorway joining anteroom to box itself and watch entire proceedings so as to give running commentary.

By
Jack
Van Wart



seventeen newsreels and to loudspeakers in San Francisco's famous Union Square, and to its City Hall.

Directed by **George Greaves**, KPO Engineer-in-charge, the department acquired another 100-pair cable which was installed in the NBC permanent studios and borrowed from NBC divisions across the country special equipment and special engineers. Augmenting the recording room staff, which is headed by **J. Alan O'Neil**, are **John Morrissey** and **Harold Schneider** from New York Recording. Loaned to the Field Operations Staff, which is headed by **George McElwain**, are **George Butler** from New York; **Frank Schnepfer** from Chicago; and **C. A. Peregrine** from Denver.

In conference working headquarters at the San Francisco Veterans' Building, two studios were constructed from which two programs can originate simultaneously and which are joined by a single control booth, furnished with portable equipment. Both NBC and Blue occupy studios such as these. Programs are beamed from these quarters from 8:00 a.m. to 9:00 p.m. daily.

Also at the Veterans' Building, besides news service teletype machines, is a cordless switchboard with five trunk

(Continued on Page Twelve)

No Acrobatics



in Advance Blanks

Advance Blanks can not swing from trapezes, nor turn somersaults, nor ride bare back through a burning hoop. But far from the splatter and dash of the circus, they perform like real troupers. So gracefully do they make it possible for cutters to pirouette across their flawless surfaces! With such dignity do they avoid growing old quickly! And their reproduction—how natural, how fresh, how clear! For their showmanship, their thoroughbred quality, Advance Recording Blanks have long been the stars in major broadcasting stations and recording studios from coast to coast. For long-run hits, order Advance now.

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

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SAN FRANCISCO

(Continued from Page Ten)

lines for incoming and outgoing calls. Switchboard has twelve local positions which connect with the various news desks and originating points within the building and with the Opera House boxes. NBC occupies box J and the Blue



Covering the rush of activity in NBC-San Francisco's Radio Recording Room during the Conference were Pathe Newsreel photographers Frank Vail (left) and Joe Rucker. Busy at work, for photographers, were, left to right: Allan O'Neill, chief recording engineer; Andy Mitchell, his assistant; George McElwain, KPO field supervisor engineer who was pressed into service to hold lights; and recording room apprentice Dale Gordon, in background

occupies box G in the Grand Tier, where is installed portable equipment. The anteroom is also equipped so that commentators and announcers may supplement delegates' speeches with on-the-spot descriptions and extemporaneous commentary. Lines lead from the boxes to the two speakers' rostrums on the stage, upper of which is used by the four



Testing portable field equipment in KPO's field shop, just before taking it over to NBC's special Conference studios in San Francisco's Veterans' Building and War Memorial Opera House, are George McElwain, field supervisor (squatting), and Russell Butler, field and studio engineer.

chairmen in turn and lower of which is used by the various foreign ministers.

The foreign broadcasting companies utilize various systems for transmission of broadcasts to their countries. British Broadcasting Corporation uses NBC studios and Blue network lines to feed their programs to New York headquarters which in turn relays the programs, either live or recorded, by shortwave to Great Britain. Canadian Broadcasting Corporation feeds from the Veterans' Building studios through KPO-NBC's master control board to its station, CBR, in Vancouver, British Columbia. Australian Broadcasting Commission uses facilities set up for its sister nets, BBC and CBC.

NBC affiliate stations use the local facilities regularly. From the Veterans' Building, KFI, Los Angeles, broadcasts a daily newscast. Other stations using KPO-NBC facilities, include KGW, Portland; KOA, Denver; KSD, St. Louis; KSTP, St. Paul; WOW, Oklahoma; KTAR, Phoenix; XEW, Mexico City; WSB, Atlanta; WKMO, Kokomo.

The power of the NABET membership card was demonstrated recently by HAROLD SCHNEIDER, NYRR, when he flashed it for admittance to the War Memorial Opera House wherein the Plenary Sessions of the conference are

KPO field supervisor George McElwain gives a few pointers to Ruby Hunter, who conducts the daily "Barbara Lee" column, just before equipment was taken over to NBC's special Conference studios in San Francisco's Veterans' Building and War Memorial Opera House.



held. The only difficulty Harold encountered occurred when he tried to leave. He was lost, and while trying all doors, he was accosted by the Military Police who demanded to know where he was going and when he told them he wanted to get out of the building, they wanted to know how he got in. He confessed and asked them if they wanted the pictures that he had snapped, and they said they wouldn't know what to do with them if they took them, and then further inquired if Harold wanted to take a really good shot, whereupon they ushered him to the foyer of the Opera House, posed on either side of the main door while Harold snapped the picture and then quietly as he entered, he left and reported to work in the recording room of Radio City.

We regret to report that Russ Pray has resigned the BLUE for a position with Don Lee-Mutual at KFRC. Vern Harvey, SE is being mentioned for one reason; he complained that he never finds his name in print in the Journal. Toby Hamma, SE, lives in San Rafael and commutes on the bus each day. We guess it gets sort of monotonous because he can tell you exactly how many passengers each type of bus will seat. Somebody ought to get him a library card or a subscription to Esquire.

San Francisco Chapter of NABET welcomes as new members, Messrs. STIREWALT, BENNETT, ANDERSON, SOUTHWELL, GARDNER, TOWNSEND and SHIELDS of the DIXON shortwave transmitters. Down at KPO in Belmont they welcome Mr. Walker.

Frank Oliver, SE, has been turning out some very beautiful lathe work on the mountings for the antennae on the Blue mobile unit. Mr. J. Wallace Downs of the KGO transmitter, has transferred temporarily to the studios and was assigned the graveyard watch on KGO when Frank Oliver went on the day watch.

Rodney Hawkins emerged from the rank of apprentice to a group two position on KPO. Congratulations . . .

Art McDermott and Dwight Maxwell are enjoying their vacations until May 6th when Norman Tapper, SE, and Elma Oddstad, SE, of NBC and Vern Harvey of the Blue, will start their rest period. (How did Harvey get his name in twice?????)

"Our Foreign Policy," the State Department's official program, was saved by a quick-thinking engineer and a janitor's vacuum sweeper, Saturday, April 28, when Sol Bloom, just before he was scheduled to go on the air, informed Sterling Fisher, co-ordinator of the program, that he couldn't read his lines without a desk lamp.

KPO-NBC offices were ransacked for the kind of lamp the Congressman wanted and one was found but the cord was too short. With all available equipment in use in the Opera House, Veterans' Building, studios, etc., etc., for NBC station affiliates, British Empire networks, etc., engineer Melnicoe was almost stymied—until he remembered the vacuum sweeper and its long cable. "Our Foreign Policy" went on, but the janitor is still looking for that lost cord.

HAROLD SCHNEIDER, Recording Engineer from New York, assigned to San Francisco during the conference, invaded the San Francisco Press Club one night last week and joined in the group who were vocalizing around the piano only to bring a complaint from James Cagney that Harold's tenor wasn't too good and would he please sing alto and Harold obliged. It was all in fun though, and after the concert, they all went down the street for a bit of food.

The Blue Network assigned two engineers to assist the local KGO-Blue engineers during the conference. They are Mr. Wyers and Mr. Jim Dougherty. Jim Dougherty is currently assigned to studio and Mr. Wyers has been assigned to the Vet's building. Tom (The Senator) Watson, SE, was helping Jim Dougherty find his way around our fair city one night last week, and when they were seen, they appeared to be having a very enjoyable time in the company of a fair lady and a juicy steak.

CLARK SANDERS, Blue Engineer, who recently returned from the South Pacific, is keeping himself busy with conference assignments.

The recording room has undergone a face-lifting operation recently, in an attempt to more efficiently utilize the small amount of floor space available. Those assigned would like to give the "Fireman's Treatment" to one of the walls, but since such action would only find them either in the staircase, the third floor lobby, the organ chamber or the mail room, they are stymied.

The Cable Cars, which are a tradition in San Francisco, still seem to frighten some of the newcomers. More than one has been overheard to say that he would not go to the inside of the cars, but would rather hang on the outside step; they say, "just in case," even when the night air turns



In the speedily constructed special NBC studios at working headquarters of the United Nations Conference, in San Francisco's Veterans' Building, NBC commentator Elmer W. Peterson and ace announcer Ben Grauer, broadcasting simultaneously, give transcontinental listeners vital commentary and colorful information on the opening of the historic meet. Engineers, left to right, are Frank Schnepfer from Chicago and George Butler from New York.

quite cold. Even the fact that the cars have been struggling up and down the hills since some time around 1873, doesn't put them at ease.

Harry Pucetti, SE, has been acting very suspiciously lately. He has been sneaking around corners with small packages which end up in the possession of some of the "powers that be." He should bear close watching by his fellow employees.

Feedback from KGO Transmitter

By Ken Martin

OUR "Jack-of-all-trades" and newest staff member, Wallace Downs, deserted the transmitter to fill in at SF studios during the Peace Conference. From all reports, J. Wallace is a crack platter jockey on the mid-watch. Wally plays a mean flute and we stand our watches in dread that he may break it out and start serenading us. He is due back on May 14th.

Commencing May 14th, Gene Nickels becomes our lead-off man for vacations this year and from this early date, Gene forecasts a sea voyage for his three weeks. Probably just wishful thinking but if things broke right a feller might make it to Honolulu and back. Too bad that Havana beer is beyond our reach, hey Gene?

Before this issue hits the mails, Gene will be back on the job with Chief Engr. Henry Dunton taking his two weeks simultaneously with Janitor Pop Perry. Plans unannounced.

Station grounds and plant were all slicked up for the Peace Conference and anticipated visitors from the East. The facelifting operation improved appearances considerably.

Jim Blanchet has a fascinating model railway set up in his attic. Office of Defense Transportation has no control over unnecessary trips on the Blanchet right of way and Jim frequently turns up at work giddy from ducking low bridges and tunnels.

KFI—Los Angeles News

By

E. F. Wilmschurst

LOADED for bear and radio programs, Curtis Mason and Ray Moore left for San Francisco today (4-18-45), taking the KFI Mobile Unit loaded with enough gear to found Little America. I noticed Ray even threw in quite a few articles for light housekeeping, just in case those . . . "furrigners git all the store-boughten vittles" . . . And not to be outdone, Seymour Johnson has dashed off into the great desert with a flock of receivers and recording equipment to make a KFI field strength survey for use in the coming Clear Channel hearings. Oh, well, with life passing us by, we can at least have fun playing with that new morse wire that is being installed between our Los Angeles Control Room and the San Francisco Conference . . . Gee! It will be like old times . . . I wonder how many of you can still recall the old days back about 1929 when traffic and cues were handled by morse line and the calls BY NB NC and BX NX and SX were NBC's traffic and program cue calls . . . Charlie Kilgore . . . Eddie Wachter . . . Dinty Moore . . . Bill Bowen . . . Dave Kennedy . . . Steve Hobart . . . "Mitch" Mitchell . . . Paul Herrold . . . Jake Okelly . . . Ted Hahn . . . Jerry Sellars . . . and those Chicago Speedburners . . . was it No. 3365 . . . and No. 075 . . . Ah, Well! I fear that a lot of the romance of radio went out the door along with the good old morse wire . . . I'll always remember the time in San Francisco, when Bill Bowen was having a warm argument with Nash of KOMO (Seattle) and Nash, in that exasperating way of his, kept opening the wire on Bill just when Bill had thot of a good comeback . . . Bill would start to say something, and just when he got to the meat of his point, Nash would open the wire . . . Finally Bowen blew his top . . . In fact he boiled right over . . . Rushing furiously over to the North Orange Line Amplifier feeding programs to KOMO, he turned off the amplifier and cracked . . . "There, damyuh, start playing phonograph records! . . ." And strode majestically out of the Control Room . . . While Nash screamed . . . Nil . . . Nil . . . Nil . . . on the old No. 075 coast wire . . . Ah . . . me . . . As the international code man said as he tried to copy morse . . . Say, who is Salteen? . . .

Briefing: Richard Taggart

Our clipping from the finger-nail of fate for this issue, is one Richard Taggart, raconteur, artist and engineer. Mr. Taggart was born of parents and immediately moved to Pasadena for the duration which started quite a while ago. At a very tender age his outlook was distorted by the romantic writings of Nicolai Tesla as interpreted by Hugo S. Guernsback. Becoming anxious to participate in the first communication with Mars, Richard acquired his first commercial ticket in 1920. While he was up late one night sparking his "one-thousand-what" first love, 6-ALD, his far-away signal finally reached Honolulu.—And so—after an accident to the good side of his galena and the demands of the household that the bread-board be returned to its original use it was inevitable that Richard should look about for new worlds to conquer. This new world turned out to be art. Static was replaced by "helpful" criticism and the wind that used to do things to the antenna now knew when a nice wet oil sketch was finished and it was time to turn it butter-side down. After many battles with critics, the elements and disappointed sitters he accumulated

enough pictures which had survived these various ordeals to have a one-man show, first at Stendhals gallery in Los Angeles then in New York, Pasadena, Stanford University, etc. There followed various official positions in various art clubs. Later he learned that these honors were bestowed because no one else would accept them. Other people were smart enough to know about the hard work. And so this unpaid toil was replaced by \$\$\$\$ from Pomona College for being Visiting Artist and Instructor in Art for a semester.

Then along came Strength-Through-Joy and New-Asia's Co-Prosperity Sphere and Richard found himself standing too close to the war. We quote—"After Pearl Harbor I became active in the Aircraft Warning Service, borrowed old lumber from the City of Pasadena. The city dodged delivering the lumber by getting the army to do it for them. Since they were interested, the army contributed a platoon and equipment, our angel Mr. Lindley furnished the money, the Mt. Wilson Observation furnished an acetylene torch and good advice. So, by co-ordinating these elements I produced the Mt. Wilson Observation Post" . . . In his spare time Dick held jobs in the scenery department of M.G.M., Monogram and United Artists Studios. While working with the OSRD (Office of Scientific Research and Development), Mr. Taggart came in contact with KFI employees and this eventually led to Richard finding himself on the KFI payroll. If you are loitering around the hallway about 3 pm of a spring afternoon and you spot a mop of silver hair crowning a well tanned brow . . . if it reminds you somehow of Will Rogers . . . if he walks with a legatolike lope . . . Then that's him . . . That's Richard Thompson Taggart.

SHORT SHOTS: Lloyd Jones has been in evidence for a few days now and then. Seems like old times to see him drifting along the hallways. Decked out in a smart uniform (I think its Lt. Col.) he can be seen these evenings meeting his wife (who works here at the mill) and wineing and dining at the few remaining good spots. Lloyd is expecting to leave for Honolulu T. H. in the near future. He ran off some excellent Kodachrome at Charles Young's house the other evening. Comdr. Harold Christenson was in yesterday (4-23-45) for a brief visit . . . the way he flits from Boston, Washington, San Diego, Seattle, etc., makes it next to impossible to keep tabs on him. He seems to be holding up pretty good. Ernest Tavares who runs the Vermont Street Plant from midnight to six am for six nights a week has gotten himself the mumps. His wife has the mumps . . . His kids have the mumps . . . His house guests have the mumps . . . All that trouble and here am I griping about a trifling little swelling under me jaw! A recent proud acquisition on the part of the Engineering Dept. is a secretary . . . Miss Arline Nelson . . . She's tall . . . good lookin' . . . A brownette . . . single.

GUN SHOTS: "Wanna, Buy a Gun?" . . . Then see us! Just accost any ordinary Engineer around our place and you can make a buy. If the price is high, and it will be, but if you are a good chisler . . . you might get it for less. Floyd "Pop" Everett can show you a 30:30 Winchester or a 22 Remington but his 38 Colt Special he keeps to match his police badge. Dick Shroeter sports a nifty look-

(Continued on Page Seventeen)

"Our Foreign Policy..."



Why should this non-partisan weekly NBC series—presenting the State Department, congressional leaders of both major parties and public spokesmen—be required listening for every citizen?

EDWARD R. STETTINIUS, JR., Secretary of State, answers:



"It is to put before the people of the United States the facts about the proposed world organization that the Department of State has undertaken this series of broadcasts. I like to think that our people will study these proposals which are so significant to the destiny of all mankind.

"It is my belief, and the belief of my colleagues in the Department, that our duty in this regard is to put the facts before the country and let the facts speak for themselves. This is the democratic method. It is the only method that will be acceptable to our people."

NILES TRAMMELL, President of NBC, answers:



"The prime concern of every American citizen today must inevitably be America's foreign relations.

"Winning of the war comes first. But as vital as winning it is the necessity for finding means of keeping it won.

"The search for these means is, in a democracy, the responsibility of the citizens, who must provide enlightened support for their leaders.

"It is for the purpose of contributing to the enlightenment of all our people in this vital field that the National Broadcasting Company launches this series, 'OUR FOREIGN POLICY'."

ON THE NBC NETWORK SATURDAYS, 7:00-7:30 P.M. (EWT)

See local program listings for time and day on your NBC Station

An NBC University-of-the-Air feature series presented by the independent radio stations affiliated with the NBC network and the National Broadcasting Company

National Broadcasting Company

America's No. 1 Network



A Service of Radio Corporation of America

1945—RADIO'S 25th ANNIVERSARY—PLEDGED TO VICTORY!

SHADES of the PAST

By Sergei de Somov

ODDLY enough just before I was going to let you, good people, in on a strange case involving the Black Angel—Ted Malone comes out with a version of an ancient story embracing the same subject—here it is to refresh your memory:—One day when the Sultan was in his palace at Damascus a beautiful youth who was his favorite rushed into his presence, crying out in great agitation that he must fly at once to Baghdad, and imploring leave to borrow his Majesty's swiftest horse. The Sultan asked why he was in such haste to get to Baghdad. "Because," the youth replied, "as I passed through the garden of the palace just now, Death was standing there, and when he saw me he stretched out his arms as if to threaten me, and I must lose no time in escaping from him". The young man was given leave to take the Sultan's horse and fly; and when he was gone the Sultan went down indignantly into the garden, and found Death still there. "How dare you make threatening gestures at my favorite?" he cried; but Death, astonished, answered: "I assure your Majesty I did not threaten him. I only threw up my arms in surprise at seeing him there, because I have a tryst with him tonight in Baghdad."

Well, that's the classical version; this is what happened to me in 1916: While

The author as a cavalry officer in 1917.

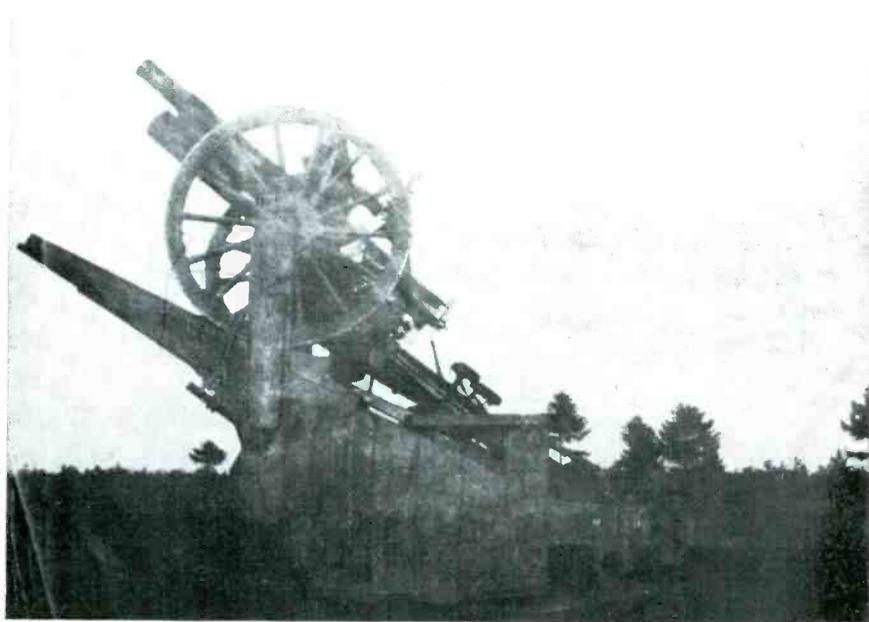


Commander-in-Chief of all armed forces of all Russias, Tzar Nicholas II and the Grand Duke Nicholai Nicholayevitch at the front. Note resemblance to his cousin King George of Great Britain.

on the Russian-Western front an officer friend of mine showed me a snapshot which you see reproduced on this page and said, "After the battle the commanding officer took this snapshot of two of his soldiers who were killed by a German shrapnel; upon developing the film he saw a human figure on

the horizon line. Mind you, there wasn't anybody around but the two dead soldiers when he took the picture."

And that was that. I asked the snapshot be given to me for a while. Then, during a leave in Petrograd, Count Kamarovsky and myself sent this snap



Western-Russian Front—1916. One of the units of a "Zenith Battery"—now we call it anti-aircraft gun. It was nothing but a 3 inch (75mm) field piece mounted on a crude wooden contraption. Directions given to artillery officers were: "Do not forget at anytime that the airplane is in motion."

(Right) The Black Angel on the horizon, as photographed by General Lodi. Two dead Russians of another war appear in the foreground.



(Below) General Lodi (Cossack headgear) stopping at a village in Galycia. The automobile is a "Russko-Baltisky"—the only car made in Russia and the only one, except the model "T" Ford, which could negotiate Russian roads.



to the "Synod" (Holy See) in Moscow asking for an explanation of this phenomenon. The reply by the Holy Fathers came short and precise: "Undoubtedly the figure was that of Saint George."

Back in the trenches I showed this photo to some of my soldiers—"Yes,"

they said without the least astonishment—"it is the Black Angel who shows himself to those who are to die within twenty-four hours." I lost the snapshot some time later. The years rolled by, and then on one dark night in November 1943 while paying a first visit to my old alumnus General

Lodi in Great Neck I was shown by the latter his album of war snapshots. Coming to the middle of the album he stopped and said: "And here is a photo which I consider extremely strange. You see, I took it in 1916 on the front, and it shows the Black . . ." But here I finished his sentence and told him the story about the snapshot I had in 1916. You should have really seen the expression on Lodi's face when I was telling him about myself! I only asked him whether he "faked" the negative. His answer was "No". I am inclined to believe it for the General is a very poor photographer, besides he gave me his word of honour that he did not do anything to the negative (or positive). We both felt rather uneasy; first because of the fact that out of a total of only six prints which he made—I had to have had one (the one I lost). Mind you that Russia is immense and we were fighting on totally different fronts. Secondly, because of the accidental nature of our meeting at Great Neck. I still feel a bit uneasy when looking at this picture, it brings back memories of the Old Fronts and superstitious Russia. What do you think of it?

LOS ANGELES

(Continued from Page Fourteen)

ing nickel plated Super 38 Colt Automatic, a Winchester 30:06 model 95 and a 20 gauge over and under (the table) Savage. Ed. Starr just bought a Winchester model 52 target gun from Seamans. Clarence (from the hip) Seamans has the main arsenal consisting of a 16 Gauge Belgian-Browning with Cutts-compensator . . . a 357 Magnum Revolver (page the FBI) . . . a 25:20 Winchester and a Winchester Model 70 of 270 calibre. I am afraid to ask Seymour Johnson what he's got due to space limitations, but I do know he has a 38 Colt special. Me? Oh, I use Montgomery-Ward 22 shorts.

BRUERE REPORTS the first take of the season in

fish . . . a couple of dozen perch and halibut . . . He used rockworms, mussels and sandcrabs and fished from the beach . . . I forgot to ask him if he used a hook . . . He did say the albacore are starting to run but the weather is too cold for a California fisherman. And as we drop this column into place, the San Francisco United Nations Conference is getting underway . . . It seems to be anybody's guess as to how long it will last . . . Milne, McNamara, Moore, McElwain, Mason . . . everyone up there seems to start with M . . . wish it was me! And I don't mean you! Pau!

BUY MORE BONDS

Chicago-Corn from a Cob Reporter

By Kermit A. Slobb



Photo by R. R. Jensen

ART HJORTH finally got tired of trying to squeeze blood out of a turnip (meaning trying to get news from way out at the transmitters) and has given up his job as Chi Editor. Yours truly will now attempt to give out with some corny news (Breakfast Club type). May not be a member of the Fourth Estate for long, as Y.T. has just been stamped O.K. by the Meat Inspection Department at the Induction Center. Read on for sample of corn . . .

Suppose you heard about the large perfume company in New York that is thinking about plugging their product on a television station. Seems they have to find a tele station that is doing its broadcasting on Channel No. 5.

Who says war-time real estate prices are high? Two of the studio engineers here in Chicago have bought new homes in the suburbs. Herb Wyers purchased a home in Broadview which I understand is right back of Minor Wilson's place. I trust they won't both try to get on 3905 KC at the same time after the war. Al Scarlett finally swung a deal for a home out in Glenview.

In this obviously unposed picture, Art Hjorth (on the right) is handing over the Chicago editor's job to Kermit Slobb.



Speaking of ham radio, the Panoramic Radio Corporation tells me they will have some ham gear after the war which sounds very interesting. Particularly the combination Panoramic adapter and oscilloscope. When receiving, the gadget will act like a Panoramic receiver, and when transmitting it will act as a scope for modulation and distortion monitoring.

Then there was the announcer who tried to monitor Studio X . . . he thought the net was on a flush basis.

Harold Jackson told me a cute story about his little boy, aged three and a half. Seems Harold was checking a new amplifier with a scope and getting the familiar sine waves, figure eights, circles, slanting lines, etc., and his young son pops up and says, "Daddy, now make it write Larry". No wonder they call it a silly scope.

Poem:

Motors seem to have more tork

When they're built in the state of New Yorque.

Although I didn't get to meet him, understand our own Lt. Marvin Royston was in town . . . just back from the Pacific Theatre. Maybe he was the one who told the story about the Jap prisoner who committed har-kari. Seems an American M.P. told the Jap he had a white streak down the middle of his back.

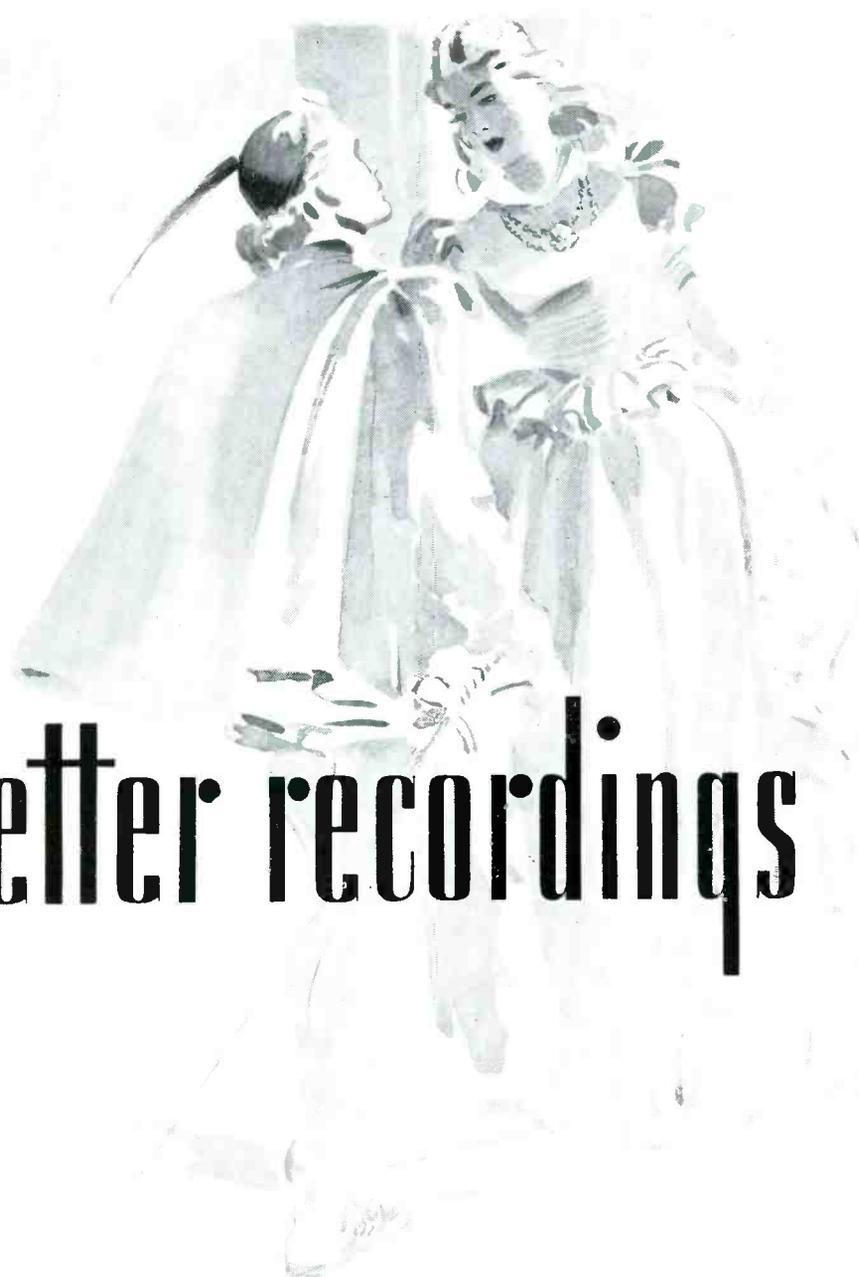
Department of Vital Statistics: Carl Cabasin announced at the April Council Meeting the birth of a daughter on April 12. Name, Lorraine. Weight, six pounds, seven ounces. Congratulations, Mr. and Mrs. Carl Cabasin.

What with the San Francisco Conference and V-E Day, people are busy these days. Studio engineers all had to stay to the end of their tours, which irritated some. Herb Wyers, Jim Daugherty and Frank Schnepfer went out to San Fran from here at the Mart. Charley Nehlsen of WLS is sending a lot of recordings back to Chicago from the Conference, too.

Pete Cavanah and I have been getting name credits coast to coast lately. You may have heard some actor on the net saying, "For Pete's sake!" or "Look at that big fat Slobb!"

Larry Balsley, ye olde maintenance man, pulled a fast one on Ralph Brooks, same department. Larry, who is an amateur actor on the side, had a part in a television show over WKBK here, and made sure that Brooks was listening and watching the broadcast. Larry played the part of a stage door guard in an ad lib drama, and when during the broadcast he was asked his name he said, "Ralph

(Continued on Page Twenty)



better recordings

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Friday the 13th was a lucky day for Frank Schnepfer. Frank, watching the birdie above, was Chicago Chapter Chairman for three years and Bev Fredendall is presenting him with a shotgun as a token of appreciation from Chapter members. The gun, complete with case and accessories, has a small plate on the stock "suitably inscribed".

CHICAGO

(Continued from
Page Eighteen)

Brooks". Then, when asked if he didn't get lonesome watching the theatre door, he said, "No, I always keep a bottle of Southern Comfort handy," whereupon he pulls out a big bottle he had stashed away just for such an occasion. Brooks is seeing his lawyer soon. Incidentally, Larry expects to see his puss in a series of pictures in the Roto section of the Chicago Daily News in the near future.

Don Fitch had the mumps and was out for a week or so. I guess he was the one who told me the definition of a syringe . . . man's worse enema.

Vern Mills is the new Secretary-Treasurer of the Chicago Chapter. All because Frank Golder is retiring from the job of wrangling with the budget. Mills, by Spiers and Harry Johnson have been put on the election committee. Vern says he is raring to get the election over with.

FLASH! Finally got an item from one of the transmitters. Harvey Kohnitz out at the WLS-WENR transmitter has built up a motorcycle. (The Army Supply Corps calls it scrounging.) At least it's one way to beat an A card.

Here's one from "Zeke," Hunter Reynolds. At one of the "Meet Your Navy" broadcasts from Great Lakes they were expecting part of the show to come from Okinawa but had no cues, copy of speech, etc. Production men were going mad trying to find a message from Okinawa. They eventually discover a message in the Coding Room which had been laying around all day because none of the men could decode it. Finally it had to go all the way to Washington to be decoded. Yep, it was the message from Okinawa.

As you other Chapters may or may not know, all ABC and NBC engineers here in Chicago are taking a Companies-sponsored course in television. Clarence Radius, of RCA Institutes, is our teacher. Besides being a good instructor, he's a swell guy. Here's a sample of what he has to put up with. In class a couple of weeks ago he was lecturing on co-axial transmission lines and impedance matching pipe networks. Trying to get over the idea of what the input impedance was in a certain section of co-axial line, he asked the class what they would see looking into the pipe. Some wisenheimer pops up and says, "A hole!" Then there was the time Mr. Radius was lecturing on lenses, and asked the class if one particular lens didn't have parallax, and again some guy has to

quip, "Betty Grable has the finest parallax I've ever seen".

Jim Lato works a few hours a day at one of the wholesale radio supply houses in Chicago here. The other day a fellow came up to Jim and said he wanted to buy a certain piece of test equipment. Jim said immediately that the gentleman could have the gear with an AA-1 priority. Whereupon the guy says, "OK, write me up one of those priorities and I'll take it".

Chicago Editorial:

Your budding reporter had a great idea. He would include in this column ideas from our guys here in Chicago which you other Chapters would be interested in. So I write letters to the WLS-WENR and WMAQ transmitters and to WLS studios. I post notices on the bulletin boards for Studio, Field and Maintenance engineers here in the Mart. I ask for opinions, especially on the contract which will be coming up soon. Do I get one letter? No.

Well, what conclusions do I draw from this? You may draw the conclusion that the idea is lousy, which I agree may be right. But the conclusion I draw is that the guys who are always shooting off at the mouth about what we should or should not do are afraid to be tagged with their own ideas.

For instance, here's a sample of what I would say about the contract. I think a proper wage scale for NBC and ABC engineers would be \$90 a week to start, six year spread, and \$150 a week for Group Six. I think also we should make sure that the Negotiating Committee gets everything we ask for, and I mean **everything!**

There are plenty of things around Chicago that the boys gripe about . . . indefinite action by the Council on members delinquent on dues and fines . . . hot patches on shows which need only a few mikes . . . fees . . . to mention but a very few. But do we do anything about it? Now multiply our Chicago situation by the number of Chapters in NABET and you get the gist of my idea on wanting a little concerted action nationally among you guys. Hence my reason for wanting you other Chapters to know what we think about in Chicago.

If my first initiation into a Chicago Council Meeting is any sample of what goes on in other Chapters and in the National Council, it is no wonder that we have been waiting these many years for an eight hour day with no minus time. I'm writing this on V-E day, but if you think the war is over for NABET you've got another think coming.

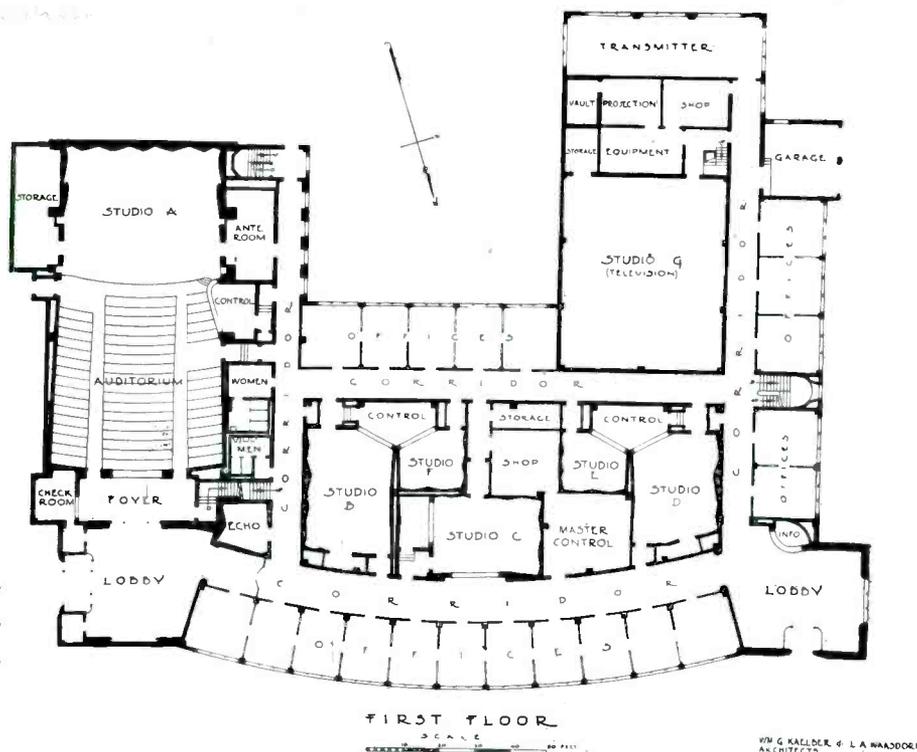
The commando type recordgraph, recently added to technical equipment of Chicago's Station WMAQ, is tried out by M. W. Rife, engineering field supervisor of the NBC Central Division. The recordgraph, which records sound impulses by means of a sapphire stylus run on 35 m.m. film stock, is new to radio station operations and is used in making special events recordings.



from the ROCHESTER CHAPTER

By Arthur Kelly

(Right) This is the floor-plan of WHAM's post-war project, a Radio City for Rochester, New York.



IT WAS hoped that the Rochester Chapter could announce its new roster of officers for the coming year with this issue but by the looks of things, at this moment, our column will barely make its deadline without holding it for another day. So . . . news of elections next issue. The most active bit of electioneering has been carried on by this weary reporter. I have gone so far as to offer a carton of cigarettes to anyone who will offer his name to the ballot for this time honored position of scribe but I have no doubts that any takers will be forthcoming.

The Rochester Chapter did have a party on Sunday, May 6th, but due to cold weather the turnout wasn't too good. What the party lacked in numbers it made up in extra good fellowship, for we all brought our wives and the crowd was very lively. All our guys have a little extra spending money this week for we got the girls into a Black Jack game and because of excessive skill gleamed through long years of smoke-filled rooms we took all their house money away from them. O happy days!

Here's good news of a material nature. The Rochester Chapter has expanded into the city of Syracuse. Charlie Snyder has been working with the boys at WOLF and negotiations have already gotten under way. Seven operators have signed with NABET.

Two new ops have joined WHAM-WHFM. Allan Barons is going to cover vacation tricks in the WHAM Control Room. Bob Brethen will operate at WHFM, taking

the place of Les Minor who now stands watch at the WHAM transmitter.

May 1 to 14 was Rochester's Community and War Chest week. Nelson Smith, WHAM control and Art Kelly (scribo loco Nabeto) represented the WHAM technical staff as campaign workers.

Freddie Ambrose, WHAM Control op. has just finished a very fine-business vacuum tube volt meter.

Miss Beryl Shay, Rochester's glamorous op at WSAY had a nice vacation present. Her brother, long away from home in the armed forces, popped into town to help her celebrate.

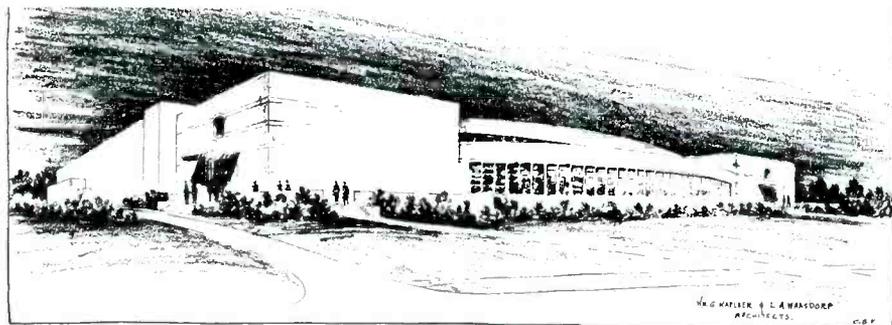
I understand WSAY has two new glamours on duty at the Control Room but so far I haven't met them.

Over at WHEC we hear that Al Keltz has had a tough session in the hospital. A tummy ache turned out to be appendicitis so zip and now Al is back on the job. Al was on the sick list for nearly six weeks.

Here is a review of the chief features of the floor plan of Rochester's soon-to-be-constructed Radio City . . . home of WHAM, WHFM and WHTM.

On the extreme left is the auditorium with seating capacity of nearly four hundred. Stage will be approximately 43 by 52 ft. It will accommodate a large orchestra or, by using special partition facilities, can be divided for use with small groups. The auditorium's control room is seen at front right.

The offices across the front of the building will be



(Left) Here's the architect's idea of how WHAM's new Radio City will look upon completion.

the executive offices. The business lobby is at the building's right, the public lobby at left.

Behind the executive offices is the main studio grouping. Notice the identical layout of general purpose studios on either side of this portion of the floor plan. This makes possible rehearsing in one studio and going on the air from another without a change in physical surroundings, acoustic conditions, etc. Also, one studio group can be used to feed WHAM, the other to feed WHFM, our F.M. station.

The rear office group, behind the studios, will house news, announcers lounge, transcriptions, etc. The layout affords easy access from this portion of the building to the studios.

The offices to the right will be used for traffic, business, writers, etc. The right rear, the Video wing.

Music library, musicians' lounge, instrument storage, air conditioning equipment, general storage, etc., will be built into the basement.

Expansion, if needed in later years, is possible to an unlimited degree at the rear of the building.

A delux lounge and clients' observation room will be built into the second floor area over the auditorium.

Rochester's Radio City, new home of WHAM, WHFM, WHTM, has been designed by Kaelber and Waasdorp of Rochester. It is of conservative modern architecture. The general plan is one story with the exception of the auditorium which is two stories and the studios which are a story and a half.

A double drive extends around each side to a parking area in the rear which will hold around two hundred and fifty cars. The television antenna will be mounted on a two hundred foot steel tower which will be situated in the rear of the building.

The FM transmitter will either be situated at this location or in the city's downtown area according to the needs that will prevail when the building is actually built.



By Bob Rudd

MEET THE BOYS

THIS month it is a pleasure to introduce another old timer in the radio field, Mark L. McGowan.

Mark was born September 19, 1906 at Oto, Ia. He attended Oto grade and high school and graduated at the age of sixteen. During his Freshman year in high school, he worked in a grocery store after school and on Saturdays and it was during this period that he became interested in radio.



Oto is near Sioux City, Ia., and Mark had a friend there that owned and operated station 9ZU. The station was located in Grand View Park, on the grounds of the city water works. The transmitter was set up in the pump building and the antenna was stretched directly over

the reservoir, between the building and the water tower. This

proved to be an excellent location and Mark spent most of his spare time here learning the fundamentals of the subject. This was at the close of World War I and Mark was about thirteen.

He kept his job at the grocery store all during his high school days and managed to save a sizeable sum of money. Sometime before his graduation in 1922, Morning Side College in Sioux City decided to discontinue the use of its broadcasting station KFMR, and Mark purchased most of it with the money he had saved. Shortly after his graduation he took the exam and received his first ham license with the call of 9DEA. The parts from the old broadcast station provided him a fine transmitter which he operated on both 'phone and cw. Much of his operating was done on 80 meters and for a short time, he operated on the 200 meter band before it was allocated to broadcasting. Like most of the old timers Mark was fortunate enough to be in radio at a time when the battle of Spark vs CW was being waged. He has seen the art develop to its present state and he often wonders why some of the early equipment ever worked. He remembers well when most of the gang was using crystal receivers to pick up the spark rigs, and then when the first tube transmitters started springing up how the crystal sets wouldn't bring them in. This meant either working nothing but spark stations or else building a tube receiver and keeping on top of the pile. This was progress and its responsible for the art as it is today.

Mark progressed with the art and between 1922 and 1928 his station grew in power and size until he was one of the best known hams on the 80 meter band. He worked during this period in Sioux City but maintained his station at his home in Oto. These were busy years for Mark but despite this, he managed to find time to take a post graduate course in mathematics. This was in 1924. An interesting fact is that his station made the B.P.L. and was O.R.S. which is no easy feat.

In 1928 he came to Omaha and joined the U. S. Naval Reserve as RM/1c. Upon his return to Sioux City, he was made Commander of that unit. During summer vacations he spent much of his time at the Great Lakes Naval Training base and aboard Naval Training ships on the great lakes. He operated NAJ, the Great Lakes Training station and at various times served as operator aboard the USS Paducah,

(Continued on Page Twenty-four)

DETROIT

By Dave Stewart

SOMETHING must be wrong with your short legged reporter, here we are actually getting out two columns in succession to the Journal.

We all wish to extend our sympathies to Alex Doran on the death of his father on May second.

Nothing much seems to happen here in Detroit these days, Frank Lesinsky hasn't been seen for three weeks seems he's on vacation and is spending it properly by staying away from radio entirely.

Ronnie Fisk is completely recovered from his operation and doesn't have to eat his meals off the mantle any more.

Your writer had a very odd experience one nite not so long ago. In the company of Frank Lesinsky we left the environs of WWJ's studio to catch a bit of nourishment at the Bulgarian type hot dog joint at the corner. Upon emerging from the front door we perceived a commotion in front of Louis Smith's Club Adams which adjoins WWJ's property.

A milling crowd was gathered, so—curious like, we decided to see what cooked. Worming our way thru the crowd we soon had a ringside seat at an alcoholic set—to in fisticuffs. One of the contestants we recognized as a perpetual customer of the "club" a gent we shall call Grogan. Both of these gents had difficulty maintaining their equilibrium, and were taking weavy round house swings at each other, and doing no better than make loud swishing noises in the atmosphere. Finally this characted named Grogan swung too far and wound up in state of collapse flat on his back.

About this time his opponent sobered up enuff to realize he held a strategic advantage, and immediately took steps to take advantage of same, by lifting his right foot in an effort to stomp Grogan's molars down his throat. The effort of this guy trying such a thing proved too much for his sense of balance, however, and he collapsed in a heap about 180 degrees out of phase with the passed out Grogan. At just the split second this guy hit the deck, Grogan opened his glazed eyes and took in the whole scene. Yours truly happened to be standing in just the right spot—because Grogan looked at his erstwhile opponent then at your dear author—shook his head,

(Continued on Page Twenty-five)

Broadcast Engineers' Journal for June, 1945 **23**

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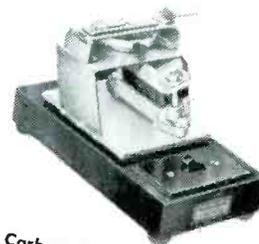


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OMAHA

(Continued from
Page Twenty-two)

a Great Lakes Training vessel. On one hitch, he served aboard the Naval Training Flagship Wilmette.

On November 11, 1929, he received his first commercial license, then known as Commercial Second. On the same day he was hired by KSCJ at Sioux City, then a Columbia outlet. He was a combination man and worked both controls and transmitter—a fairly common practice in those days before the fields became specialized.

He had only been with KSCJ a short time when he took on the additional job of operator at the Sioux City Police radio station. A new transmitter was installed and Mark assisted in its installation.

After a year with KSCJ he left for three months and flew out to the west coast to work for the, then, Boeing Air Transport Co. He served in the laboratory there until his return. He got quite a kick out of the work and especially liked the flights out and back.

He remained active in the Naval Reserve and in 1931 his unit received the call of 9NZ. This call was assigned to Mark personally at the time, because calls were not permitted to be issued to groups. When his enlistment in the Reserve was up the call became his own, and he holds it to this day.

Mark remained with KSCJ until 1933 and then old man depression came along and he found himself without a job. He had given up the police work previously, finding it too difficult to serve both jobs efficiently. Many businesses in those hard days, were forced to reduce their operating staffs and radio received its hard knocks, the same as any.

Mark was not out of a job long, however, when he went to work for KGBZ, a kilowatt station at York, Nebr. He was with KGBZ only a year when he was offered a job by station KOIL, located in Council Bluffs, Ia. This was in 1934. Mark spent three years there and took part in many engineering activities. His work at the transmitter gave him plenty of opportunity for building, and many equipment jobs were turned over to him. His work included construction of portable field equipment, both transmitters and amplifiers, studio gear and in fact most anything that is used by a radio station. When he came to WOW in 1937, he came with a vast knowledge and a lot of experience. He has built many things while here, principally among them being, mobile transmitters and antennas. He has worked studio, recording, and transmitter and has taken his turn at the mike, when the announcer failed to show. One morning he was used by one of the announcers, to read a commercial announcement extolling the virtues of a well known poultry remedy. Mark says he was "fowl" on that one.

The last three years have been spent at the transmitter where his skill and experience have served him and the station well.

"Mac," as he is known to all, has many hobbies, but mainly they are in the order of their importance: Ham Radio, Photography, Hunting and Golf. We can testify for his ability in the first two, as Mac can get more results out of a low power rig than any man we have known for a long time. As for his photography, his color photos are superb. He loves especially pictures involving filters to bring out contrast of sky and earth. His LIECA was

always handy when he covered a special event and many of his pictures have been used in the station's monthly publication, "The WOW News Tower". The last two hobbies are his greatest pursuits these days due to restrictions necessitated by war. He has a fine Remington shot gun, a target pistol and a rifle with a telescope sight. He manages to get out every fall for a little hunting but of course its not like it used to be. He golfs quite regularly during the summer months and we imagine he is rather good at it, though an illness has prevented him from getting out as much as desired. He is a 32 Degree Mason and is very active in Masonic activities.

Mac's views on the future are optimistic. He feels that the possibilities of the short waves are as yet practically untouched. With the advent of Television will come the beginning of a new era of prosperity for the radio industry. Mac feels that all now in the radio field and many more not now in, will have more work than they ever dreamed of. His philosophy is that when a man is busy, he is happy.

There is one thing for certain, when that era comes Mac will be in there lending his skill and experience to make those possibilities become realities.

Glenn Flynn (Studio Chief) took an early vacation this year in order to be at home when Millie returned home

(Continued on Page Twenty-eight)

DIXIE CHAPTER NEWS

By Rex Coston

AT THE May meeting of the Dixie Chapter, the annual election of officers was held, with the following men taking office: Chairman, J. Willard Dean; Sec.-Treas., Gordon McCrary; Councilmen, John Sherwood and Rex Coston.

Joseph Stephenson and Howard Suggs, retired Councilmen, have served excellently in the past and we are looking forward to an equally cooperative year with the incoming officers. The WDNC councilman is Ed Norman; publicity to be handled by Rex Coston and Gilmore Bowers.

The recent NABET-WPTF contract which was submitted to the regional War Labor Board for approval, after having been signed by the parties concerned, was not approved in its entirety. An appeal has been filed with the WLB.

Alton P. Tripp (CS) has been walking around on air for the past few weeks, and I dont mean in front of a mike. It is just that he is the proud papa of a seven pound, twelve ounce boy, born on March 17—Saint Patrick was really beaming, I'll bet, especially since baby brother Edwin Reade Tripp, III, is nick-named "Pat." Congratulations go to Mr. and Mrs. Tripp and the other two children, a boy and a girl.

Even though the much looked-for VE-Day has arrived, and things are beginning to seem quieter, Uncle Sam is still in there pitching—we know, from first hand information given to us by Tommy Sox and John Sherwood, both of the WPTF transmitter. Sox, who joined the staff two years ago when he was one of the youngest 1st class operators in the country, is planning to go into the Navy in a few weeks, and hopes to see radar in action. Sherwood has been standing in line at Fort Bragg for the past two days, at the time of this writing, going through the old "1, 2"—maybe he couldn't find his clothes at the end of the line!

DETROIT

(Continued from Page Twenty-three)

scrambled to his feet and sez, "Thanks, pal". The excitement being over, we proceeded on our way with Lesinsky and grabbed some chow.

A couple of nites later we had occasion to go into the Club Adams to use the fone or some such thing—and we noticed our friend Grogan lapping up schnapps and getting ready for another duel. When we came out of the fone booth we sat down to enjoy a milk and coca-cola, when Grogan discovered us and staggered over to our table, "Lishen, pal," he sez, "lemme Buy yuh a drink, you dun me a favor an' I wanna show yuh I apreshiate it". We acted dumb, just like we felt, and finally to get rid of the guy, let him have his way. This, however, didn't end things—every time we encountered Grogan he started setting up, milk and coca cola, in spite of our protests that we hadn't done a thing for him. After a coupla weeks of denial we finally gave up, and modestly hung our head and told Grogan that "We Dunnit with our little hatchet". The poor guy still thinks we knocked his former opponent for a row of Chinese flower pots just as Grogan was about to get his teeth knocked out. So-o-o we are taking milk and coca-cola under false pretenses.

Frank Koster, formerly with WWJ and now with Raytheon on hush-hush stuff, in furtherance of the war effort, is located at New Orleans and living at the Jhung Hotel. Ted Pennebaber, former stormy petrel of WJ's engineering staff is still in London and doing a fine job as chief at the O. W. I. studios in the British Capital. Cal Leedy, another of our ex-partners in crime here at Detroit's first station—dropped in on us the other day all slicked up in his civilian uniform as an attache to the Navy, and field engineer for Western Electric Co., Cal., was on his way to Pearl Harbor to take charge of the whole Pacific Ocean in his particular line—more hush-hush.

We now have an M. C. R. man at WWJ who can't read. Guess who?

At this time we wish to extend the hand of welcome to the engineering staff of WSAM at Saginaw, Michigan, to the democratic ranks of N.A.B.E.T. We hope to hear from you boys upstate regularly and have some news to report from you in the Journal.

This must be getting very tiring to read, so think we'd better sign off for another month—73 and 30.

A

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WEATHER . . . crosswalks . . . uniforms . . . motorcycles . . . bubbles . . . vacations . . . new faces
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WEATHER . . . this month we're not going to mention ANYTHING about the weather, 'cause we can take a hint as well as the next . . . and you snarks back in Noo Yawk don't WANT to hear about our truly wonderful California CALIF, (see Journal for April, 1945, page 12, N. Y.—NBC News, by some character named Anderson, Junior) why-y-y-y all WE got to say is, "PHOOEY" . . . you're in the minority and outnumbered ANYWAY, as we receive 1000's of letters EVERY WEEK from all parts of the world, requesting MORE of those "fascinating" weather reports . . . (some say "thrilling," "sensational" and "never read anything LIKE them," etcetc) so if youse insist on being derogatory, disparagatory and depreciatory about our Calif climate, youse can just find yer TREE out in Brooklyn and go CLIMATE . . . bad ccess and DOUBLE phooey on yuh . . .

NBCEENS . . . most sensational gnuets this month is news that we now have a CROSSWALK 'cross Vine Street . . . after ALL these years of watching, waiting and DODGING, we came to work one ayem to discover that the Seven Dwaris or SOME-

BODY had painted two beautiful broad white lines across the street from the Artists' Entrance driveway to the OTHER SIDE . . . making a crosswalk in which any and all may walk across to wherever they're GOING, free of toll charges. It's very nice LOOKING, but we allus thought that such a set of white lines constituted a SAFETY zone or something, wherein one was relatively secure while in transit . . . but SUCH does not seem to be the case in this case, for the Vine Street maniacs seem to look upon the space between the lines as sort of a GAME PRESERVE, and if you can catch anybody inside, he's FREE GAME and scores you 25 points . . . since it's been in, we've not seen a single soul stop or even SLOW DOWN . . . in fact, when they see that they're ON TARGET, they throw on all the coal and try to get you in the side pocket before you can reach the curb. However, we feel that we've won a MORAL victory anyway . . . and are in the RIGHT in the white, even iffen it turns out to be WHITE SILK . . . and are VERY grateful to whomsoever is responsible for the lines. Speaking of lines, our beautiful staff of Page Gals and Mail

Room Lassies are beginning to blossom forth in summer garb . . . this year's models being soft blouses of white slink, and right-length skirts of bresniff blue . . . lovely combinations and eye-fufully appealing . . . will try to catch a few of 'em for a pic, if we can catch a few of 'em . . . it's pretty easy to catch 'em, but try to HOLD one . . . g'wan, TRY it . . . it's FUN-n-n-n-n-n . . . the BEST time is about four o'clock in the afternoon, when they have an arm-full of sorted mail and won't struggle very hard, not wanting to drop the letters all over the floor . . . Speaking of visions, certain of these Mail Girls like to be TAKEN for rides on motorcycles, and are always needling our go-bang boys for hops around the Parking Lot, but Jim Thornbury, Recording is usually RELUCTANT, so one of the gals goes gets some transfer letters and sticks the message NO RIDERS on his windshield, which looks vairee silleee . . . Hal Lea and Howie Cooley are more OBLIGING, however, and Hal has a seat built for TWO and when HE takes 'em for a ride, it is a SIGHT to SEE. Speaking of things to see, the other aft we met beauteous Betty Boyle, ex-Sound FX cutie outside the

When NBC Hollywood held its annual Ten-Year Club dinner for employes with the company a decade or more, Vice-President Sidney N. Strotz acted as host and welcomed new members.

L2R (standing): James Thornbury, NBC engineer; Kenneth Hicks, NBC engineer; Alfred Korb, NBC engineer; Isabel Menden, Traffic Dep't; A. H. Saxton, Western Div. Engineer; Max Bauman, Purchasing; Paul Gale, Traffic Manager; M. O. Smith, Engineer on leave to U. S. Gov't; Kay Hardesty, Payroll Personnel; Jennings Pierce, Manager NBC Station Relations and Public Service; Ralph Reid, NBC engineer; Jane Burns, Supervisor of Typing & Duplicating; Craig Pickett, Eng. Operations Supervisor; Alex Robb, Manager NBC Package Sales; Donald A. DeWolf, Supervisor, Sound Effects; Lester Culley, Western Division Recording Supervisor; Edward J. Ludes, Ass't Supervisor of Sound Effects.

L2R (seated): Evelyn Hale, Ass't Manager Station Relations & Public Service; Lewis S. Frost, Ass't to the Vice-President and Program Manager; Sidney N. Strotz, NBC Vice President, Western Division; William J. Andrews, Ass't to Radio Recording Manager; Frank M. Figgins, Eng. Maintenance Supervisor; Archie Presby, Announcer; Harold J. Bock, Western Press Manager; Lt. Robert C. Schuetz, NBC Radio Recording, on leave.



Artists' Entrance and creating quite a COMMOTION with her BUBBLE machine . . . a wire gadget which you dip in a jar of gonk and then run up and down and spin around in circles and out comes beautiful, big bubbles, in TECHNICOLOR yet . . . a couple of twirls produces dozens of 'em and they float around in the sunlight for a long time and make you feel very care-free and irresponsible, but sort of SAD, and wishing that you TOO could be a beautiful blue and green and yellow bubble . . . especially a Betty Boyle bubble. We've FELT like a big bubble on SEVERAL occasions, but we always float around awhile and then go "POP" and wake up to find Mabel beating us over the head with something for coming in upside down again . . . but it's FUN while you last. Vacations are in progress and several NEW FACES have made their appearance around the Engineering Department . . . vac relief and/or permanent additions to the staff include Guy Glenn, Jr., Studio and ANOTHER grad from KFSD in San Diego for two years and follow on the heels of Gene Durham who moved up last month; Wally Rippe, Recording and former instructor in radio at National Schools; Frank Ausman, also Recording and recently with the U. S. Coast Guard where he tried to get a Radioman's rating but ENDED UP changing bulbs and fuses in the electrical gang . . . also owned own recording studio previously; Joe Desert, new addition to Sound Effects as Equipment Maintenance Man and transferring from a transmitter job at the Blue's KECA. Joe has charge of keeping all the sound trucks and equipment in shape, a mighty BUSY job which has needed filling for a long time. OTHER New Faces on Blue staff, which we will mention later. Haven't had time to even SHAKE HANDS with these citizens, so no dirt yet but will keep diggin' and SOMETHING will turn up, we betcha. WELCOME to our City, fellows . . . and ever strive to uphold and maintain the high mental and moral standards of We, the Engineers . . .

(MUSIC)

We are the hardy EnginEERS . . .

We never wash behind our EARS.
We always look at girls with LEERS . . .

And never stop at fifteen BEERS.

(MUSIC UP)

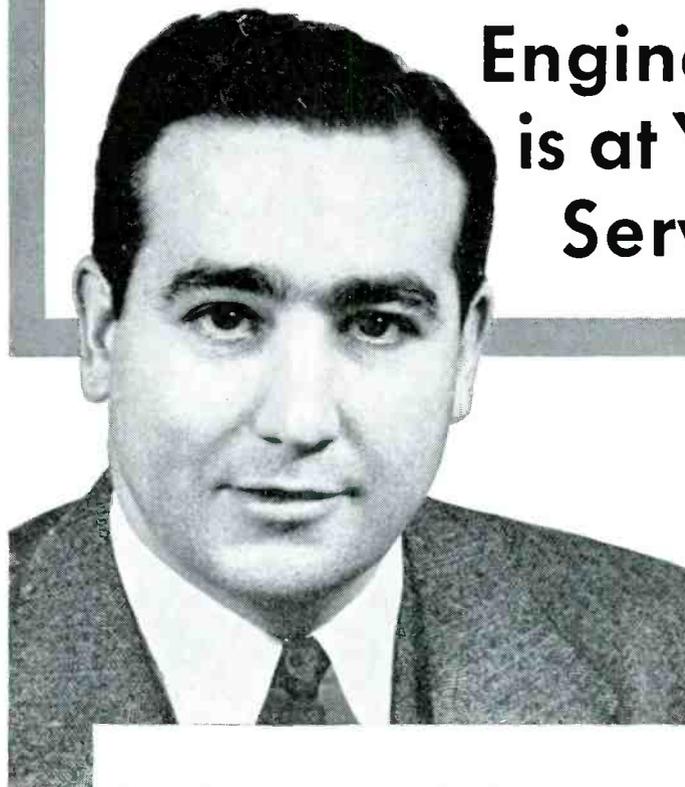
(APPLAUSE)

May be more N.F.'s on NBC too,
iffen the draft gets any warmer . . . our

(Continued on Page Twenty-eight)

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

"Our Staff of Acoustical Engineers is at Your Service"



M. Heineman
President
Permoflux
Corporation

Permoflux engineering is directly responsible for many history-making war communication improvements. Our dynamic headphones, speakers, microphones, midget transformers and other acoustical products have made notable contributions in performance, dependability and progressive design.

If in your development of communication equipment requiring acoustical components, you are interested in availing yourself of exceptional engineering, design and manufacturing talent, we invite you to turn over your problems to us. Our staff of competent acoustical engineering experts is ready and able to give you immediate cooperation.

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PERMOFLUX
PERMOFLUX CORPORATION
4900 WEST GRAND AVE., CHICAGO 39, ILL.



PIONEER MANUFACTURERS OF PERMANENT MAGNET DYNAMIC TRANSDUCERS

Hollywood

(Continued from
Page Twenty-seven)

Benvenuto heard the CALL and reported for pre-induction but was detected to be rejected, due to bum back . . . probably contracted from bending over BACKWARDS for the Company. **Bud Wilkins**, Air Conditioning passed his however . . . the man sez, "Bud, you air in condition. STEP down . . ." **Julius Riekeberg**, Studio subbing in Maintenance for **Al Gage** on vac and first day on duty going around with earphones checking things right and left and MAKING SURE everything is functioning. Summer definitely here, with **Charlie Norman** striding down the halls with NO NECKTIE and sport shirt open at collar . . . a GOOD idea and we're all FOR it, we're sure, for the engineer is the ONLY guy in the place who is supposed to anyway wear a necktie, does the MOST work and gets the LEAST . . . what are we SAYING . . .

ABCEENS . . . lotsa Blue Notes this month, and probably the last time we dast mention the Blue, for by the time most of this is read, it will be the ABC officially, transition day being June 15th. By that time too, Allah willing, KECA should be in operation in their new studios at Sunset 'n Highland, and in anticipation thereof, several parties have been annexed to **Mr. Denechaud's** staff, to wit: **Robert A. Binkey** from back east, WCAE Pittsburgh, 5 months in Army, WTOP in Washington, D. C., then in big for himself and now on vacation relief; **Harold D. Durham** (no relation to the NBC Durham) KECA/ABC Studio also and also from back yonder, WGRC, KBIX and KOCY way, where he was chief at; and **Paul E. Miller**, KECA Transmitter, from WOWO in Ft. Wayne, Indiana, and to replace **Joe Dessert**, departed. !Hola! gents, and CARRY ON . . . During the lull between **Mr. Dessert's** departure and **Mr.**

Miller's arrival, our **Mr. McGaughey** has been doing a trick at the KECA transmitter and sez he feels like in Siberia . . . Chief **Rex Bettis** is very P.O.'d at **Bob**, howsomever, for it seems **Rex** had a SECRET CACHE of ciggies out there that he had stood in line for a half-hour or more and **Bob** RUNS OUT one PM and gets on the prowl and FINDS 'em . . . was perfectly HONEST about the whole thing, leaving 20 cents in payment, but **Rex** sez THAT'S not the POINT . . . **George O. Milne**, ABC Chief of Engineering Operations out from the Empire State by way of San Fran and the United Nations Conferences, and dropped down to see the new KECA installation and visit awhile . . . also **Jack D. Colvin**, RCA Plant Engineer from Indianapolis out to see that there aren't any BLUE SURGES when the stuff is turned on for the first time . . . brought along a lot of VERY NICE testing gear we wish he would LEAVE when he leaves . . . installation is shaping up nicely, with lots of amphibious switching arrangement, including a SPECIAL invention of **Ragsdale** and **Eilers** . . . studios are adjacent to the Highland Avenoo tracks of the trolley line to the Valley and when the Big Red Cars go by, it's PERCEPTABLE, so-o-o-o-o the boys get together and work out an interlocking connection with the mike relays so that when a mike is turned on, it activates a DISTANT RELAY up the street which operates a switch and DE-RAILS any approaching street-cars . . . Several letters from **Bro. Powell**, recently deleted by the Army . . . sez he's in the middle of the Ozark Mountings about 150 miles from St. Louis and 30 miles from the nearest town . . . in hosp but didn't say WHY, and misses those cozy mornings in Studio "M". (While we THINK of it, the fellows have a NEW NAME for this studio, where the transcribed play-backs are played-back . . . THIS one

can be told and it's **The Sapphire Room**, which is rather good, we think . . .) **Tony Hutson** also out here from N. Y. and traveling with the "Town Meeting" program . . . understand **Tony** is a Field man from 'way back and is found afield alot . . . just noticed **Carl Lorenz** sending off an order east for "1 doz asst. nympha" . . . WE'LL take a dozen OURSELVES and find out what they are LATER . . .

AROUND THE BUILDING . . . in "Figgins Diggins" (Maintenance Shop) they have a vice named **Oscar** . . . in Recording, next to Scully No. 12 there is a box containing a stock of folded TOILET TISSUE . . . wonder why . . . probably to wipe off the records, after some of the shows . . . and on the Artists' Entrance bulletin board there is an ad which sez "For Sale: Mercury Station Wagon, etcetc . . . Special Meyers MARINE CONVERSION job . . ." Maybe it runs on water????? And speaking of RUNNING, you shouldaseen the Parking Lot not long ago . . . but let's go back to the beginning . . . IT SEEMS Producer **Don Bernard** was driving along on his way to the studio one morning and sees a couple of kids with a SNAKE . . . stopping the car, he offers them a dollar for it, thinking that you never can tell when a snake will come in handy for SOMETHING . . . arriving at the studio, he parks the car in the lot and leaves the snake INSIDE, with the windows rolled up. Sometime LATER, parking lot attendant gets in to move the car and looks over shoulder to see where he's backing and finds the snake regarding from back of seat . . . guy BAILS OUT, but QUICK and car plunged down lot and stalls against fence. When **Jack** the head parker gets there, snake has disappeared, but the other guy INSISTS that he saw it and the word gets around and soon there is a crowd of people who want to go

(Continued on Page Twenty-nine)

OMAHA

(Continued from
Page Twenty-four)

from the hospital with their new son James, born March 25th. Glenn's vacation was from April 3rd to 21st.

Roy Glanton came across an old diary that he had when aboard the SS Topila. It told of his many trips up and down the east coast and across the Gulf of Mexico to Galveston and Corpus Christi and of the experiences he had.

The diary starts out with Roy's arrival in NYC to attend radio school and covers his school days clear through until he finally left the ship to return home. It tells of the storms and the weather from day to day as well as the

business at hand. It gives the number of miles covered each day with a neat total of miles that had been traveled up to that time. It's as thrilling a thing as we have read in a long time. The diary closes with a total of 25,000 miles traveled.

A 'phone call from **Beuf Eaves** (Chief) at KODY, North Platte, Nebr. **Beuf** is Councilman for that section and is very enthusiastic about NABET. He plans to send in news as regularly as is possible and is now working on Biographies of the fellows there.

Send in the material to **E. Stolzenberger**, **Beuf** and

(Continued on Page Thirty-two)

Hollywood

(Continued from
Page Twenty-eight)

home, but won't get into their cars until the snake is FOUND. Finally, they get Don from his rehearsal and the last WE heard, he was crawling around between the cars with a shoebox, looking for the—\$%&!!! SNAKE. Snamf, snamf, snamf . . .

STREETSEENS . . . in Hollywood, you become accustomed to seeing some very strange things, and are seldom surprised at ANYTHING . . . but once in a while something seems a little UNUSUAL, perhaps . . . such as the very beautiful blond creature, looking like Veronica Lake and getting on the Valley Street car carrying a beautiful big white knitting bag, full of RHU-BARB . . . and the guy riding down the MIDDLE of the Boulevard amidst all the traffic, with his arms folded . . . on a motorcycle . . . NO HANDS . . . and the soldier in commando rig joy-walking across Vine Street in broad daylight and carrying a fancy OIL LAMP . . . both lit up . . . and the service station on the corner of Highland and Franklin where you get full pre-war service . . . tires, water, windshield and even they brush out the floor carpets with a whisk broom . . . or maybe we're a little out of DATE and post-war re-conversion has started. And going home one night on the Valley trolley there was this fat 'n jovial G.I. with glasses on . . . and very OBVIOUSLY from Texas and he had an enormous guitar and was sitting in the back of the car playing the guitar and singing cowboy songs, with a dozen or so civilians and other G.I.s joining in . . . and then there were the two YOUNG THINGS walking down the Boulevard one Sunday afternoon in bright red 'n yellow BATHING SUITS . . . nothing else . . . and no place to SWIM within MILES . . . see what we MEAN??? But WE like the sign in the camera shop across from Radio City . . . it's painted on a piece of cardboard, with accompanying notes of music above and it sez, "Some—day, my Prince—will come—" Get it? . . .

DEWES'

DAFFY

DICTIONARY

WAVELENGTH: How far a WAVE will go . . .

FREQUENCY: How often . . .

ANTENNA: A guy who raises you ten . . .

ERG: What you feel in the Spring . . .

SHIELD: A she who yields . . .

Broadcast Engineers' **29**
Journal for June, 1945

*Crystals for
the Entertainer...*

Headquarters for SPECIAL Crystals!

The men of The James Knights Company have been designing and making special precision crystals since 1932. Their extensive experience with crystals for every conceivable purpose, coupled with an active participation in Radio dating back to 1913, is available to you. These men are interested in your special crystal problems — they have the knowledge, equipment and research facilities to help you. Why not get them working on your special crystal problem today?

JK
CRYSTALS

The JAMES KNIGHTS Co.
SANDWICH, ILLINOIS
Sixty Miles Southwest of Chicago

CAPPS*

SAPPHIRE is, and has always been, the only material for making cutting styli for high class recordings.

CAPPS* Patented Sapphire Styli (2187512) are the original and accepted standard for high class professional acetate recordings.

Imitated but not equalled

FRANK L. CAPPS & CO.

244 W. 49th STREET NEW YORK CITY

Telephone Circle 6-5285

* Reg. U. S. Pat. Off.



MICROWAVES the scheduled for post-war use in at least one important communications field: relay transmission. Western Union has been granted authority to begin experiments between Philadelphia and New York using RCA equipment; pulse modulation will be used, providing 32 separate circuits on a single carrier of between 2000 and 12,000 megacycles in frequency. The American Telephone and Telegraph Company plan a New York-Boston circuit using 2000, 4000, and 12,000 megacycles. Raytheon plans an even more ambitious program: a coast-to-coast circuit using carrier frequencies of between 30 and 26,000 megacycles.

* * *

The Army Signal Corps recently completed the installation of a six-link long-wave radio communication net connecting America with the United Kingdom—via the northern route.

* * *

EIMAC recently announced a v-h-f tetrode—type 4-125A—with a power gain of about 150 for only 2.1 watts input. Two of these high-frequency tetrodes in push-pull will deliver 500 watts of power at a frequency of 215 megacycles.

* * *

Commercial or amateur operators holding licenses dated to expire in 1945 now have until December 31st of this year to file a renewal application. The extra time is to accommodate operators in the armed forces or those employed in war industries distant from their homes, many of whom do not have their licenses with them and therefore can't file timely applications for renewal of their licenses.

* * *

A recent British patent has been issued for a device to replace ordinary antennas used for receiving centimeter wave lengths. Incoming signals are intercepted by a slotted baffle plate, giving rise to a diffraction pattern at the rear of the slots—where crystals are used to detect the signal. The baffle plate eliminates the need for the usual type of resonant circuit, and is particularly suited for the reception of frequency modulated signals.

* * *

Sylvania has issued a 20-page tube manual to assist radio servicemen in making wartime tube substitutions—in most of the more popular makes of radio receivers. Might be of use to those who are **not** radio servicemen, too, what with the shortage of many tube types these days.

* * *

A 35-mm camera for photographing motion pictures under combat conditions has been developed by the Army

(Continued on Page Thirty-one)

Magnetic Wire Recording



**Wire Recordings from
General Electric
Models 50, 50A, 51
Rerecorded to Discs.**

*Write for
complete
details and
prices.*

L. S. TOOGOOD
RECORDING COMPANY
221 N. LA SALLE ST. CHICAGO 1

Hudson Chapter News

By Richard H. Davis

WELL, VE day has arrived with the varied feelings to the fact that half the job is done, and well done.

We all in Hudson Chapter feel glad even though VE day was one of our busiest days . . . After two false starts VE finally arrived bringing with it the World as a remote. Master Control was a bedlam of phone calls, instructions and engineers. At times it appeared that there just wasn't enough patch cords . . . The remote crew were out in full force with their gear to all corners in NY for on the spot reactions . . . The recording gang were on deck with all tables going full blast . . . at 33RPM! . . . WBAM was on the FM band with the full schedule of events . . . Comments from all sides claimed a good show . . . well done . . . we can only say that when VJ day arrives that then we can really "go to town".

Speaking of town, NYC certainly looks fine with all the bright lights now that the "brownout" is lifted. One can spot their favorite bar from three blocks away . . .

Don't forget that 7th War Loan which will be started soon.

Ed Franke TE back from the Pacific getting his vacation before starting regular operations . . . Ed made a lot of on the spot recordings with the Navy in the Pacific for Mutual . . . He looks fine . . . Glad to have you back . . .

Pat Miller SE also back recently after some European operations with OWI . . . Has a flock of good stories . . . Sez that USA looks darn good even with the rainy weather . . .

Bill Ulrich Maint . . . VJ gardening like anything but we suspect that some of his efforts are for worms since a nearby stream has been stocked with speckled beauties . . . hi . . .

Dick Borner Maint dashing through the corridors swinging a soldering iron again thinking of Bassball but stymied because of the wet weather . . . well, Dick, the sun will shine again . . .

Tom Mullins . . . SE . . . beefing (no red points) about tube train schedules since he has the early morning watch . . .

Passing thought . . . Wonder how the singing commercials will look on television . . .

Jerry Barton looking around for a 117Z6 canya imagine?

Recording . . . New face John Barney lives in Hollis, LI, attended Rutgers . . . ex-US Army . . . Worked at World before coming to recording. Pres Yeemans must have broken his camera when he took pictures of the recording gang . . . He Claims that film was bad and will try again . . . we wonder . . . Paul Baldwin and Frank Ennis running up plenty of strikes at the Radio City Alleys for recording Bowling team . . . They beat Mutual twice . . . and what scores!! . . . Ralph Schlegel is putting on weight . . . Part of reference room is being removed for Ralph . . . Poppy Hawkins has passed his induction exams and we are expecting news soon . . . He ought to look good in uniform . . . George Corey buying summer furniture for his bungalow . . . put us down for the last week in July . . . Bob Dougherty infanticipating but he hasn't gotten the news at this date . . .

Gordon Shaw . . . TE . . . having lots of fun cleaning the cooling ponds at Carteret . . . Chas. Thropp MC gets home just before sunrise but he hears the boirdies . . . F. Garuffy still one step ahead of the draft . . . Well, more next month so CUL . . .

WHAT'S NEW

(Continued from Page Thirty)

Signal Corps which, with its portable battery power supply, weighs only 16 pounds when fully loaded with a 200-foot film magazine.

Aaron Lippman & Co.

246 Central Avenue Newark, N. J.

Radio and Electronic Equipment

We Expedite — Ask Anyone

Courmettes & Gaul OPTICIANS

55 West 49th Street
R. C. A. Building (Main Floor), New York

EYE EXAMINATIONS

Prescriptions Filled . . . Prompt Repair Work

Invisible Contact Lenses Fitted

If you require information on

INSURANCE

of any kind, call

HERBERT LEROY RICE AGENCY

10th Floor, RCA Building
Suite 1017

Telephone
Circle 7-1456 — 1457

OMAHA

(Continued from
Page Twenty-eight)

no doubt he will find a place somewhere in the Omaha Chapter News for your gleanings.

A letter in Mid-April from Lt. Bill Dunbar (USNR) found him just ready to shove off for points westward.

He wrote of the improvements made to his cabin on the Platte River. Bill says that his dad has been working hard on it and has added many things. The cabin is a three room affair with bunk room kitchen and large living room. It's all modern and has an outdoor steak fryer. It contains a large fireplace with a mantel piece made from a cedar slab, hewn from a tree that stood on the spot which the cabin now occupies. Bill is waiting for the day when he will return and he plans to soak up plenty of sunshine and do lots of loafing.

Louis De Boer is planning a big garden this year. Potatoes, Sweet Corn, Onions and Beets will be his main crop. This is the lot that he plans to build a house on when OPA gives him the go ahead signal.

Another letter from Cpl. Richard Peck, stationed somewhere in Italy. Dick has been doing a lot of studying from the books his wife Katherine, sent him. He wants the latest books on television so that he can keep up with the latest trends. Dick says he gets the Journal and Electronics regularly. Hope to see you home before too long, Dick.

Cy Hagrman is walking to the transmitter these days (Apr.). His car was wrecked in an accident and he is using shank's horses until he is able to get another.

BATES AND KOTERA TO COLORADO SPRINGS

Al Bates of KFAB and Bill Kotera of WOW spent several days in Colorado Springs, Colo., the later part of March. They were assigned there as part of a crew to make recorded interviews of the soldiers at the Carson General Convalescent Hospital.

One of the recording setups at Colorado Springs showing Bill Kotera at controls with Virgil Sharpe, KOIL announcer at mike. Men unidentified.

Photo by Al Bates. KFAB



They were given living quarters with the officers and were extended every courtesy. Their recording equipment was set up in a theater, where the men were brought to be interviewed. Major Howard Peterson, formerly publicity Director of WOW and now Public Relations officer attached to the 7th Service Command, handled the arrangements.

They made eighteen recordings while there to be distributed to several midwestern networks for transmission. Though Al and Bill were busy, they did manage to get around and see a bit of the country. They were fortunate to get in on trips to the Garden of the Gods, Seven Falls, and even managed to eat (once) at the Broadwater Hotel.

They both enjoyed the trip and the scenery but they were glad to get home to rest up.

Perc Zeigler of KFAB's Omaha studios, had a bit of bad luck in his family. Mrs. Ziegler was taken to the Clarkson Hospital Apr. 13 for an operation. She was home only a few days when complications caused her return where another operation was performed. Perc says she is getting along fine now (Apr. 24). It is hoped by the time this is in print, she will be fully recovered.

Gramo'phones

Today our record player has an automatic arm
That does the playing for us. Years ago, out on the farm,
It wasn't quite that simple . . . Back then our gramo'phone
Was minus fancy gadgets . . . Not to mention decent tone!

Back then you had to wind 'em like you'd wind a watch
or clock,
Or else you'd hear some noises that would give your ears
a shock.
And brother, just a vision of that Morning Glory horn
Provides you with the theory that another goose was born.

Its neck was bent and twisted like a pretzel, but the sound
Came out and proved the statement that "the music goes
around".

And we often sat and listened to the "Two Black Crows,"
for they
Were famous for the chuckles they could garner any day.

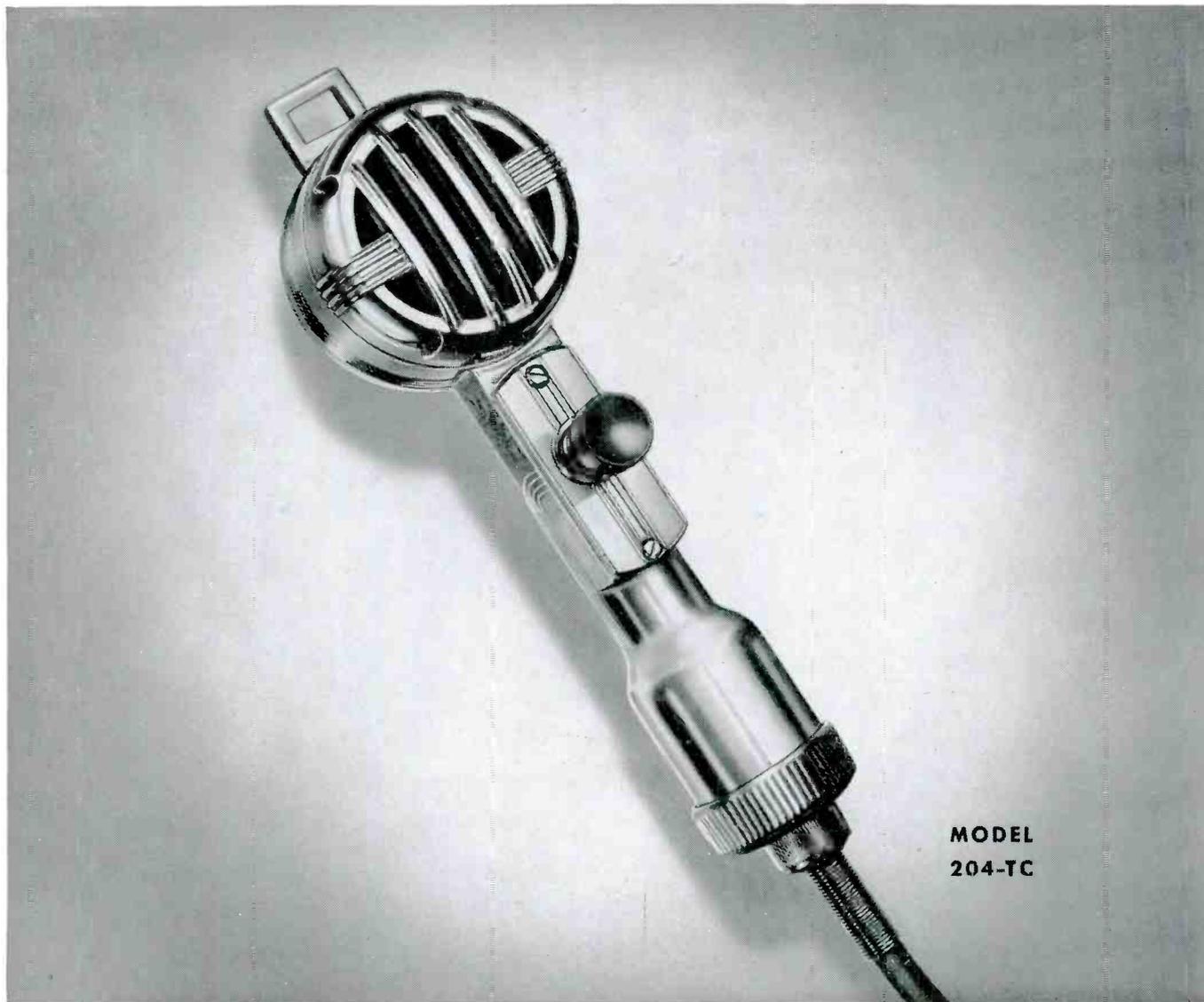
That Morning Glory pretzel, with its proud, majestic poise,
To memory's a symbol of a decade filled with joys.
Though quality and volume weren't what you'd call the
best,

If present record players constitute a legal test.

The Gramo-phone was something that should never make
us sneer . . .

Instead, we ought to praise it as a symbol we hold dear,
For, when we get to thinking of that Morning Glory's
curves

We sit down and laugh and chuckle till we tickle all our
nerves!
— An Old Timer.



**MODEL
204-TC**

DYNAMIC HANDI-MIKE

TECHNICAL DATA MODEL 204-TC

IMPEDANCE: 35-50 Ohms.

FREQUENCY RESPONSE: 200-7500 Cps.

OUTPUT LEVEL: Into 50 ohm input; 44 db below 6 milliwatts for 100 bar signal.

SWITCH: Type "T." Press-to-talk. Vertical toggle with snap action.

CORD: 6 feet long. Rubber jacketed. 2 Conductor and shield.

CIRCUIT: Two wires direct to microphone. Switch "makes" independent circuit. For use in connection with control circuit of transmitter or other relay operated device.

DIMENSIONS: Length overall 8 inches, head diameter 2 1/4 inches.

SHIPPING WEIGHT: 2 pounds.

There are seven other dynamic handi-mike models from which to make a selection.

Universal Handi-Mikes have been, through these years of progress in Radio-Electronics, as common a part to specialized sound equipment as the vacuum tube is to your home radio. The same microphone restyled and redesigned progressively has met the wanted need of a rugged hand held microphone. The Handi-Mikes are now available in both carbon and dynamic microphones with a variety of switches and circuits from which to choose.

UNIVERSAL MICROPHONE COMPANY
INGLEWOOD, CALIFORNIA



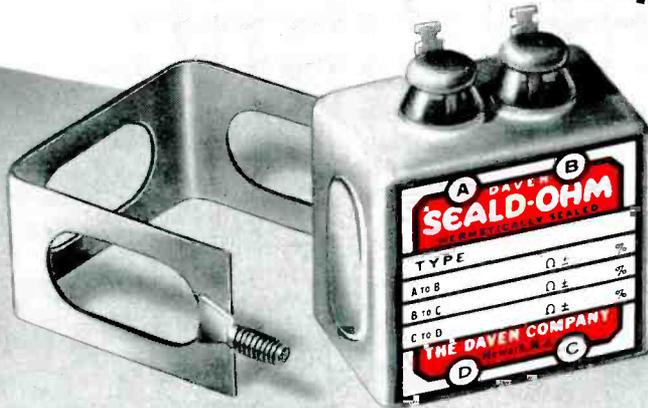
REPRESENTATIVES: *New York, Chicago, Kansas City, Cleveland, Boston, Tampa, Houston, Philadelphia, Detroit, Seattle, St. Paul, Salt Lake, Los Angeles, San Francisco, and Asheville.*

Presenting the...

DAVEN

WIRE-WOUND
SEALD-OHM

HERMETICALLY-SEALED PRECISION RESISTOR



Totally unaffected by extremes of humidity and temperature, highly resistant to vibration and shock, with provision for rigid mounting . . . these were "specs" that could not be met by any resistor on the market. In response to a direct request, DAVEN, applying the know-how of over two decades of precision resistor engineering, carefully designed and built a new, completely hermetically-sealed resistor. DAVEN SEALD-OHMS squarely meet these specifications. This was proven by exhaustive tests conducted by a famous research laboratory.

ELECTRICAL DATA

RESISTOR WINDINGS: Either spool or mica-card type, depending upon engineering requirements. Non-inductively wound and carefully aged to remove strain before final calibration.

RESISTANCE RANGE: Any desired value may be had; maximum 1,600,000 ohms depending upon type of resistance wire employed.

TEMPERATURE CHARACTERISTICS: Four types of resistance wire of different characteristics are available.

ACCURACY: May be had to tolerance as close as $\pm 0.1\%$.

FREQUENCY CHARACTERISTICS: No appreciable effect over the audio range. This range may be exceeded to meet many other applications.

CIRCUIT COMBINATIONS: Resistors available with 2 terminals at one end or 2 terminals at two ends. A single four terminal unit is designed to take up to four separate spool-type resistors of different values and accuracies.

SEALD-OHMS are ruggedly constructed throughout, with special attention given to combining vibration and shock resistance. Their physical design enables the combining of several circuits within a single unit. A unique mounting bracket arrangement adds to the broad adaptability of these resistors. SEALD-OHMS are intended for use in any equipment subjected to humidity and temperature extremes. They fully meet both Army and Navy Specifications. Typical applications include as secondary standards, resistor elements in bridge networks, in voltage divider circuits, in attenuation boxes, etc.

MECHANICAL DATA

SHIELDING: Drawn brass, completely hermetically-sealed. Thermal-shock tested for faulty seals before shipment. Treated to withstand 200 hours salt spray test (f-13 AWS Spec C75.16-1944).

TERMINALS: Electrical connections are brought out through fused glass seals which are soldered in the resistor shield.

MOUNTING: A specially designed steel bracket with spade lugs welded to the sides is supplied with each unit. Cut-outs on this bracket engage with embossings on the side of the brass shielding to enable firm mounting of the unit in a vertical, inverted or horizontal position.

DIMENSIONS: 1-9/16" wide, 1/2" high, 7/8" deep. Add terminal height, 9/16" Studs on mounting bracket, 1-11/16" between centers.

For additional information, write to THE DAVEN CO.,
191 Central Avenue, Newark 4, New Jersey

DAVEN *pioneer* maker of precision resistors

