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"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.

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PUBLICATION OF THE N.A.B.E.T. Ed. Stolzenberger — Editor

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July, 1946

H F HILLER

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to Editor's office: E. Stolzenberger, 116-03 91st Avenue, Richmond Hill 18, L. I., N. Y. Telephone VIrginia 9-5553.

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NATIONAL N.A.B.E.T. OFFICE Room 501, 66 Court Street, Brooklyn 2, N. Y. A. T. Powley, President

Broadcast Engineers' 2 Journal for July, 1946

Treasurer

NABET ACTIVITY

The NFTW-National Federation of Telephone Workersparent union for all telephone people, is holding its annual convention in Galveston as we go to press. It is reported that they are considering changes in their constitution that will permit organization of other sections of the communications field outside the telephone industry. During May, the Long Lines section of the NFTW adopted a new constitution and they are now known as "The American Union of Telephone Workers." NABET President Powley attended several sessions of the Long Lines AUTW convention in New York.

VICTORIES-The NBC Traffic Contract has been signed. The ACA objection in the WFIL election has been overruled by the Philadelphia NLRB. WFIL technicians will now be certified, followed by contract negotiations.

IN THE MILL-ABCO Traffic contract negotiations . . . RCA-Victor and NBC Matrix Dep't contract negotiations . . . Negotiations with the Westinghouse group-Mr. Allen is handling KDKA Pittsburgh, and Mr. Powley is handling WBZ-WBZA Boston Contract negotiations started at the Fort Industry station at Fair-mont, W. Va. . . . Negotiations started at WLEE, Richmond, Va.

DISPUTES The KYW case is still before the NLRB in Wash ington . . . The WSAY lockout case has been recommended in our favor, and is before the national NLRB for approval . . . The WOV case is set for a hearing in New York.

To the Editor

From Richard T. Parks, San Francisco Chapter NABET FLASH! loe Blow murders Jim Jerk by throwing him across the HV transformer! Flash! Peter Pifflepuss gives birth to a 9 pound baby boy! . . . Screwy? Parks, ye olde original scribe, gone batty? Nope, don't think so. I've been writing these personal chitchat columns for nigh on to 15 years-first for the Air Line Pilots' Assn., paper; then for the old ATE Journal; then a 4 year stint of writing 1st indorsements for the AAF; and now as I get back here, I get slapped with this for the NABET Journal!

Nope, I'm not nertz, but I'm fully convinced that if, as, and when this sees the slick paper of the Journal, that not more than a half dozen people will read it. Ye Scribe will be the very first just to see if his noble work is printed as originally written. Then will come Joe Blow just to see his name in print. (Murderers love publicity). Next, Mrs. Pitflepuss will read it in amazement and no little suspicion. And maybe an astounded clipping bureau clerk will catch it and forward it to the American Medical Assn. Journal who will promptly reprint it only to have it briefed again in Readers Digest.

Come to the point, Parksey! Okay, here goes. Let's Kill these Personal Chit-Chat Columns in this magazine! They were all very good when there were derned few members of the ATE and we were all NBC. Practically everyone knew everyone else. Now that we have grown up (no cracks) such trivia has no place in such a publication. If we are Of, By, and For, the BC engineer, dammit, let's print stuff that that engineer is actually interested in and that might possibly, by some miracle, be of some benefit to him. He doesn't give a tinker's dam who did what to whom and for how much in another station or location. He reads his local scandal sheet for that stuff, for he knows those people-he doesn't know nor care about Blow and Jerk. When he picks up the Journal he wants (1) to read what gives in union matters, (2) what is new technically, (3) how small the bra and how large the mammary glands of the current television gal, and (4) a glance at the ads.

What to do about it? Let's overhaul the Journal and really put something worthwhile on that nice, slick, scarce, expensive paper! Size will be too small without the chit-chat? So what? Cut it and start rebuilding. Departmentalize it. A complete ham column, maybe. Assign each chapter in turn the job of writing up some good technical stuff on how they have done a problem at their town or station. Expand the union activity coverage. And I'll give a slight inch on the gossip angle. Maybe one column for the whole mag-and on the Hollywood line. The only reason his is so good is that he intersperses his affairs, births, and marriages (yeah, in that order!) with an occasional tit-bit story.

Okay, Stoltzie, it's in your lap, and I'll dare you to print it! If the response isn't on my side, the drinks are on me the next time you hit SF. If it is on my side, you'll have to go to work! You wouldn't mind that, would you, Stoltzie, old boy, old chum???

Dear Parks-glad to hear from you. It would be good to have your letter read and voted on in each Chapter, and let me know the results of the voting. In the meantime, this general subject matter has been under discussion by the Board of Trustees, and a space-allocation plan will be announced soon by the Trustees .-Ed. Stolzenberger.

NABET Elections - Washington Chapter elected Wm. L. Simmons succeeding Dorson A. Ullman. Edward W. McGinley is the new Sec'y-Treas., replacing Sherman C. Hildreth. L. A. Mc-Clelland replaces John McCollom as Associate Editor. Hollywood Chapter elected James H. Brown, succeeding Thor E. La Croix. Hudson Chapter elected Walter Payne succeeding Charles Thropp. New York Chapter re-elected C. L. Bennis. Cleveland Chapter reelected Harold Brandt. Chicago Chapter re-elected Frank Schnepper.

Employment Service-members should immediately contact the National Office if they are seeking employment.

Held over due lack of space. Summaries of the Papers, IRE Winter Technical Meeting, half a dozen other timely items.

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"And Now We Take You to _!"

By George de Mare

[Reprinted from the Dec., 1945 Western Electric Oscillator, by permission of the Western Electric Company.] This article was chosen for publication herein because of its unique importance to our readers.—Ed. S.]

T IS the end of the last program of the day—at one or two in the morning. The air, once filled with radio's evening programs, is silent now, but unheard by the great listening public a coast-to-coast program of tests and adjustments in preparation for the start of network broadcasting service in the morning commences. Radio is clearing its throat... and to assist in the process it calls upon its "silent partner"—the Bell System's vast wire network organization—to perform one of its most important functions....

Everybody in broadcasting probably knows how network programs are distributed and something about this giant wire system—equal in actual money value to about half of all the equipment owned by the broadcasting companies it • • A picture of the organization of the "wire network" behind broadcasting and what the experience gained in present program transmission may mean in the putting together of future FM and television networks • •

serves—but how many know how intricate is the organization necessary to keep network programs coming through at the level of performance Broadcasting demands, or how exacting are the problems which this wire network must solve? A more detailed review of the operation and organization of the wire network may be useful at this time in throwing some light on the problems that will confront broadcast engineers in putting together possible FM and television networks.

The present wire network service, the "silent partner" which makes all chain broadcasting possible, involves a great deal more than merely providing wire channels from studio to transmitter or from one broadcasting station to another. It means, among other things, maintaining great central switching and control points throughout the nation. It means having a staff of engineers to see that programs are going on the split-second schedules required. It means maintaining repeater stations all along the lines, operating a telegraph and teletype network totaling some 70,000 miles of cir-

"NR" — Broadcasting network control room where A. T. and T. Long Lines technicians monitor nationwide network programs. From here, technicians are in constant touch with headquarters offices of the broadcasting companies and with key points along the networks, thus keep check on functioning of wire circuits.



cuits to transmit to all major telephone company offices information on every program—what stations are to be cut in and what switches are to be made, and it involves keeping a corps of "monitors" busy listening at key points for the faintest flaws in transmission. Finally, it means constant research to improve the quality, dependability and life of the lines and transmission equipment—research which draws constantly upon the great resources of the world's largest electronics and communications research center—Bell Telephone Laboratories.

As an example of the functioning of this "silent partner" let us go back for a moment to that program of tests and adjustments of which we were speaking and continue briefly the account of what happens on a typical network before the first announcer of the day signs on. . . .

This morning, for instance, amplifier tube tests are to be made at all offices between New York and Chicago from 2:00 to 3:00 a.m. These tests completed, still other tests must be made to assure transmission of program with unimpaired volume and quality. Each control office measures its own section, including the circuits kept ready for special services or emergencies, and sees that it is fit for broadcasting.

With section tests complete, the network is put together and New York pumps out a succession of different tones over the entire chain. Measurements and necessary adjustments are made at a score of places. Promptly at close of business, the telephone staffs send in by teletype reports on the service furnished, and yesterday's comments from the radio stations.

Let us say that an important news program is to start from New York at 8:00 o'clock in the morning over one of the networks. As usual it will be started on its way by the broadcasting station's technicians in the control room, from which it will be fed to the nerve center of the Bell System's web of broadcasting channels in New York's Long Lines Building, known by the call letters "NR." There a corps of technicians will have already "lined up" the wires and equipment over which the show is to travel and have subjected them to certain exacting tests. From NR, the show is carried out over the great trunk routes of communications set up by the Amer-ican Telephone and Telegraph Company's Long Lines Department and Bell System offices. These will carry it to the hundred or more stations that are taking the program in New England, the South, the Middle West and the West Coast.

Now, therefore, at 7:30 in prepara-



Chicago control room—a focal point in A. T. and T.'s intricate wire network for broadcasting—where important switching operations are made linking major circuits between Eastern and Western network stations.

tion for this, each office checks its setup in accordance with the schedule sent out by the broadcasting company, to be sure the stations slated to receive the show are cut in. At 7:45 the New York studios of the network start transmitting test programs to their chain. By means of a control telegraph wire, New York receives telegraphic reports from along the line that a program of satisfactory volume and quality is being received. It is now 8 o'clock and the broadcasting network is ready for operation.

130,000 Miles of Circuits

This, briefly, is the bare outline of one of the major functions of the wire network during the silent hours, but it gives very little hint of the elaborate maintenance, the highly involved organization or the intricate equipment which must perform this essential function.

First, what is the "organization"?

Physically, the wire organization consists of more than 130,000 miles of telephone transmission circuits linking into various networks over half of the 900 broadcasting stations in the United States. These circuits are permanently and exclusively devoted to this service, including some 31,000 miles of wire lines set aside for use in special features, "repeat" programs, unusual hook-ups and in such emergencies as storms, floods, fires and disasters.

Each major broadcasting company is provided with its own separate and complete network (see maps below). Circuits are one-way over special highquality cable which will transmit a frequency band up to 5,000 or 8,000 cycles in width according to indicated preferences of the broadcasting companies under the circumstances. It may be noted that as early as 1933 the Bell System successfully transmitted frequencies up to 15,000 cycles over circuits between Philadelphia and Washington. In the post-war period this type of circuit will be widely available to serve broadcasters who may have a need for 15,000-cycle FM intercity channels.

The wire channels of the present network run through about 300 telephone offices; use over 2,500 of the special-type vacuum tube amplifiers designed for this network and in addition to the four major coast-to-coast chains, knit together approximately 30 regional webs. Hundreds of Bell System transmission specialists are engaged in operating this nationwide system supporting the excellent engineering and monitoring facilities maintained by the broadcasting companies themselves.

The central nervous system for chain broadcasting in the case of three major networks (Mutual uses the quick reversible type exclusively) includes two important features. The first is the socalled "round robin" which is a major closed circuit running from New York to Washington to Chicago and back to New York. The second major element is the "quic- reversible" or "Type 1 Reversible" __cuit which links the round robin terminal at Chicago with Los

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Angeles and other points west (shown at top of page). These two elements, in fact, make network broadcasting possible, in that a program originating anywhere in the network can be fed into the round robin and thus reach all points along the round robin circuit, and from the round robin circuit the program can be fed through the Type 1 quick reversible circuit to Los Ángeles, any points along the way and north up the Pacific Coast. The quick reversible, as its name implies, although one-way, can be reversed in 15 seconds or less, depending upon the length and facilities involved. Thus a program originating on the West Coast can be carried east on the quick reversible to the round robin terminal at Chicago and from there fed through this central circuit to all points in the East. If desired, southern legs can be attached at the Washington or Chicago terminals of the round robin linking up the South Atlantic and Deep South regional circuits. The total effect is to make it possible to put together at any time in a

matter of seconds a nationwide network into which a program from any part of the nation or the world may be fed.

Along this central nerve system, four major control point offices are set up: in New York, Chicago, Denver and Los Angeles. Offices controlling regional webs or parts of the main webs are set up in such cities as Boston and Washington: Atlanta and New Orleans; Cincinnati, Indianapolis and St. Louis; Minneapolis, Kansas City, Omaha and Dallas; Salt Lake City, San Francisco, Seattle and Portland and many others. These and subsidiary control and switching offices permit any desired combination of stations and quick changes from one hookup to another.

In the operation of this vast network, much skill and care are involved.

Two elements are perhaps most typical of operational requirements: "flexibility" and "speed." Broadcasters expect the organization to maintain standards that will permit quality transmission of a sufficiently wide frequency range, free from noise or interruption. Yet it is obvious that the specialists who operate any organization of this type are dealing in variables. Broadcasting networks vary in size from a handful of stations to more than a hundred. The number of programs varies. In a 17-hour day it is possible to have 68 fifteenminute programs, and some stations approach that. Some programs are local shows; some regional and some coast-tocoast. In addition, there are last-minute changes; man-made, particularly during wars and elections, and finally there may be last-minute changes, caused by nature, when an aerial cable is blown down in a storm or a twister, a cloudburst or an explosion rips a line or two. Yet the major requirements remain the same, and the lines must never go silent.

Let's take typical examples of the problems that occur during a day in the operational life of the wire network. . . .

In all offices, switching schedules are constantly being received from the broadcasting companies. There are three

Wire networks used to connect affiliated stations of the four nationwide broadcasting systems. These are part of 130,000 miles of Bell System program circuits in U. S.



Broadcast Engineers' 6 Journal for July, 1946

ADVANCE RECORDING BLANKS



known and used wherever quality of performance counts.....



Washington News

By L. A. McClelland

OHN McCOLLOM'S Kerry Blue Terrier (a beaut, too) and his Ford ganged up on him. Result! He resigned as the J Journal's representative for the Nation's Capital and you have a new reporter. He knows nothing of journalism but will try.

Harold Yates, WRC T.E. has ordered a new 26 foot Steelcraft cruiser. While deliveries have been slow, Harold is wishfully thinking that he will be afloat soon. The hull of his new hoat, being of steel, will give him an excellent ground for the radiotelephone equipment he is contemplating for his new home on the river.

On May 4th, the scheduled Asheville, N. C. broadcast by William Green, A. F. of L. prexy, was neutralized by a plier wielding enemy of the Federation. The broadcast had been under way for some ten or fifteen seconds when the Asheville-Washington circuit failed. Investigation by John Hurley, chief of the Washington NBC announcers, revealed that the radio lines had been deliberately cut at the point where they entered the building in Asheville. Looks as though someone thereabouts has a bone to pick with 'Labor.'

Wish we could get up as fine a column as that Dewes fellow in Hollywood. Lots of news, good and bad, comes out of Washington, but not that kind of stuff! We don't have the material to work with that he has in the Cinema Capital. For example, where in the Nation's capital can you find sweater girls selling their balloons? Inflationary, that's what it is, inflationary.

Sam Newman, W3HN, seems lost nowa-days since the 30 megacycle band closed down. Understand that he has an 80 meter rig going and does quite well with it despite a very limited geography upon which to erect an antenna. Between Walter Godwin, W3ANJ, Newman, W3HN, Sears, W3HLH (That fellow we used to hear before Easter) and other NABET hams, Washington is beginning to look like Riverhead. No complaints yet from the airlines regarding lofty antenna structures, though. Incidentally, the grapevine has it that Sam Newman has been entertaining members of the FCC lately. It seems that for each new friend Sam has been making in Tasmania, Transylvania, and Salonika, he has been losing several among the BCL's locally. It's still a good deal, we need friends in Tasmania, Transylvania and Salonika. Keep up the good work, Sam.

Mr. and Mrs. Al Sears found cause for celebration on Easter Sunday in the arrival of a junior operator, Gerome Earl, weight, six pounds, eight ounces. It is reliably rumored that the fifty watt bottles have been replaced by 3 A.M. bottles (six ounce output). Understand that young Gerome is putting out a good FM signal locally.

The housing situation of the Washington NBC Engineering staff has eased up a bit. Ed McGinley, Recording, is finally situated,

having found an apartment in nearby Virginia. That's in the South, Son! South Arlington, that is.

Dan Hunter, Chief Engineer of WMAL, the local ABC outlet, is wielding the sandpaper and paint brush as the pungent odor (not of this drivel) of copper paint permeates the spring air, down Corinthian Yacht Club way. Some of the copper is finding its way, via the splash route, to the bottom of his Elco Cruisette, the Good Woman. Say Dan, if you can find some bottom paint that will keep a boat clean in the Potomac, let's hear about it. There will be a fortune in it.

Barton Stahl, WRC Station Engineer, says that nowadays one has to be not only a radio engineer but also a stationary power plant engineer. From the beginning, both the NBC studios in Washington and the WRC Transmitter in nearby Maryland have been operating from diesel and gasoline emergency power supplies, thus helping to ease the load on the local electric utility companies. Stahl reports that Vic Leisner, WRC T.E. extricated a baby robin from between the cylinders of the gasoline engine of WRC's generator set. Haven't heard whether or not artificial respiration was necessary. Just another duty of transmitter men. He ought to be made a life member of the Audohon Society.

The Washington NBC group is going in for higher education in a big way. A number of the gang are taking the CREI courses under the G. I. Bill.

Hogan's back and NBC's got him. Yes Sir, Lt. Cmdr. John Hogan, USNR, has returned to the fold after four years in BuAer of the Navy, where he did valuable work in AF and RF airborne communication work. Unfortunately, John sold his home in suburban Kensington some time ago. I'll bet he'll think twice before he sells his next house.

With Hogan back, the only service man vet to return is 1st Lt. Harold Thomasson. He is expected back shortly. Harold is a communication officer in the Army Air Forces.

Thanks again to Brother Cooper for the following timely comments on life at WOL-MBS. From the studio group, we hear that Billy "Cornkicks" Cornnell, WOL Field Super, has been assigned as Presidential Engineer. "Corny" will accompany President Truman on all the trips to be covered by Mutual. His most recent junket as of the time of this reporting, was up to Hyde Park for the Roosevelt Memorial Program. Nice work if you can get it.

The front office at WOL reports favorable progress on the increase in power from 1000 to 5000 watts. The transmitter building has been completed, the three towers of the directional array erected and the transmitter is being installed.

Speaking of power, not all "high," have any of the amateurs in the ranks of NABET heard Kline Mengle, WOL T.E. W3JME,



working mobile from his car on 30 megacycles? Kline reports good transmission and reception as he cruises around nearby Vir-ginia and Maryland. Zoltan Bogar, T.E., and Art Hallam, S.E., are plying hot iron and plier in the construction of gear for use on "ten." Hurry up, fellows, and let's hear your overmodulation.

Vacations are upon us again, they come so often it hardly seems ten years since the last one. "Don Juan" Herman is vacationing in the Deep South, in Crackerland, Georgia, that is. Hurry back, Don, and give the rest of us a chance, if you know what we mean.

Pity poor D. A. Ullman, S.E. WRC, having to work on his day off when he had planned to see the Preakness at Pimlico. Poor fellow ended up there at time and a half. Well, the story ends on a happier note. Dorson managed to come back without it.

And that's all of the news from Washington at this time.

Crystal Ball Dep't

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- T. R. Cooper (Hollywood)-moved.
- R. W. Grammes (Hollywood)-moved.
- Norman Dewes (Hollywood)-moved. -ad infinitum-ED. STOLZENBERGER



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Developed during the war, Loran projects long-distance radio beams to guide ships on lanes charted by radio-electronics.

Loran-"highway signposts" for the seas and skies!

Loran provides a new kind of road map for the sea and air, day or night, and in almost any kind of weather.

With Loran, ships and planes as far as 700 to 1400 miles offshore in the densest fog can determine their positions with uncanny accuracy. Trial installations of Loran are being successfully conducted on both the Atlantic and Pacific by Radiomarine Corporation of America – a service of RCA.

The same scientists and engineers at RCA Laboratories who were largely

responsible for the development and refinement of Loran also devote their skills and knowledge to every RCA product.

This never-ending research at RCA Laboratories is your assurance that when you buy anything bearing the RCA or RCA Victor monogram you are getting one of the finest instruments of its kind science has yet achieved.

Radio Corporation of America, RCA Building, Radio City, New York 20. Listen to The RCA Victor Show, Sundays, 2:00 P. M., Eastern Daylight Time, over the NBC Network.



Loran (short for LOng RAnge Navigation) uses radio waves which hug the earth's surface instead of going off into space. Two sets of stations, about 300 to 400 miles apart, send out impulses to a Loran receiver on shipboard like the one shown above. It then shows the ship's exact position.



This Is ABCO New York



By Gil McDonald

HERE is not much news to report this month except for a welcome communique from William G. Mullaney of the WJZ transmitter which we quote in toto below.

We welcome back an old friend to New York Studio, namely Jack Stoody who was a Captain with the Plant Engineering Agency of the Signal Corps. Jack was in the service for three years, most of which was spent overseas. Welcome back Jack. All the ABC engineers in the service with the exception of Charlie Younger, have returned to their old jobs.

"Lodi In Spring"

Nick Hagmann, our Station Chief, has forsaken 10 meters and has returned to 144 MCS again with a brand new Xmitter, Receiver and Beam. The new Beam is really "Out of this World." Nick says when he sends out a CQ these days, replies are so numerous it is getting a bit monotonous. Glen Rock, the Chief's home town, is fast becoming well known to the Hams throughout the country.

Henry (Call me Hank) Treger, our very able Assistant at the Station, has ordered a pole for his back yard on which to hang his 144 MCS Antenna. Nick and Henry have their heads together contemplating erecting a 30 DB 144 MCS antenna, which they claim is one way of getting something for nothing. Hank is busy these days preparing for his vacation in June, was seen scanning the pages of a Sears-Roebuck catalog, you take it from here fellows, this one stymies me.

Willie "Cannonball" Storrs, hanging on to his dough, waiting for prices to come down. Willie has his order in for ABC stock just as soon as it is released to the public. Cannonball's advice is taken very seriously by the Lodi group, his advice is when you buy, Buy American! Willie's been here a long time, since way back when WJZ was broadcasting on 390 Meters.

Maury Kamke, surplus happy buying all kinds of bargains. Cellar so packed with gear he is seeking extra storage space. Has enough spare parts for 20 years' hamming. Maury's stock in trade answer is, "Just a few circuit changes and I'll have just what I want.

Al "Tiny" Sturhann, our Candidate for Mayor of Lodi, is preparing to depart for his annual vacation in a few days. Thinks he will junk his present car as the Ash Trays are overflowing. The Xmas Bonus was the deciding factor in swaying Al into the purchase of something new. Tiny expects to hit the road on his vacation and possibly do a little "Apple Knocking" up state, weather permitting.

Ted Cain has just completed painting the front end of his house. the other three epds will have to wait until he completes his new DeLuxe model Super-Het from surplus parts. Ted is back on 2 meters again, "I'll give it another try, says the Wizard from Oradell.

W. G. Mullaney (Murph), still expecting, Yea Verily! Expecting an apartment. Was just about to give up when he consulted a Gypsy Tea Leaf reader in Hackensack, in quest of a horse tip, when she almost floored him with the words that he would get an apartment in the very near future, so Murph is back at the old stand, where he has been first on the list for three years. What a spot, says W. G., you even have your own bathroom in the place. Just the thoughts of it are wonderful.

Harry Byers, at present on vacation. After two weeks of steady rainfall. Byers was seen down at the Lodi Post Office drying his shoes over the fire. When asked how he was enjoying his vacation, Harry started raving about those damn Atomic Bombs and one

This Is NBC New York

By G. F. Anderson, Jr.

Photo by Joe Conn

ECENTLY the Studio Lounge was shifted from the South side of the building to the North side, and is now occupying the former Radio Recording room. It has heen furnished

with the same chairs and couches with the exception of a love seat. The former lounge had three windows for the new lads to use in checking the weather conditions and also the conditions on the streets, windy day or otherwise. Now the chappies that habituate the new lounge must use a fone to ascertain the weather. There is one requirement that must be met when one plans to spend more than one minute in the lounge, that is, a fur lined coat, fur lined mittens and a woolen scarf.

Willard 'Red' DuBois, SE, recently spent two weeks at Shawnee, Penn., with Fred Waring and this past week-end he was in Detroit with the same show.

Herb Riedel, SE, now spends several days a week in MCD along with Ted Kruse and George Mathes, no comments.

Harry Alexander, FE, who has been the mainstay of one of the local banks, has finally gotten out of his Kozy Korner and been allowed to cross a river. Since early last year when he crossed over the Yammasee River in the deep south and supposedly dropped into it a bit of equipment, Harry has been a permanent fixture in the Field shop.

He would leave it only to go to the bank, do a dance band nemo, or go home. Now he has crossed another river, in fact several, the Connecticut River, the Housatonic, the Thames and several small creeks. All this leads up to the fact that Harry spent six days in Boston for the installation and first Dr. I. Q. broadcast from Boston, Mass.

Questioned upon his arrivel back in New York he replied, Quote "It feels good to cross rivers again." Unquote.

Spent a few hours with John O'Neil, SE, ABC, at his home in Darien, Conn., and consumed some refreshments and also blew several fuses in his transmitter power circuits. Johnny's call letters are W1ACQ and one of the stations worked that morning was W2JDS-Matty Connes. Matty was an SE for NBC several years ago and we spent a while talking about the facts of life.

Incidentally, on one of the "Ladies Be Seated" shows with Johnny at the helm, there was a fashion show. The last gal to have her costume described wore a "G" string and a little strip of tape. Johnny reports that the VI just couldn't be seen.

Somebody swiped all the little notes that had been written regarding doings around here the past month or maybe they were mislaid, anyway that's all for now, till warm weather sets in.

thing and another, his answer is not fit for publication at this time. Possibly at a later date we can obtain a story for the Home Office Publication.

Art Griffin, "Ladies' Man from Lodi," has just returned from his vacation with a wonderful coat of tan. Spent most of the time down South just traveling around and making one night stands, covered the Orange Blossom Festival for a few days and had a wonderful time. Esta Senoritas, Mucho Lindo, Muy Caliente, "Says Art," "That's what I like about the South."

Marius Spinelli, our former vacation relief man, who spent two seasons here, dropped by the other day and inquired if anyone knew of a house he could rent. We immediately became alarmed and called Dr. Lefkowitz, the Doc advised to keep the man amused until he could get down to the Station. Our fears were ill-founded, however, when the Doc diagnosed the case as Post-War Hallucina-

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tion-Asphyxium and is very common at this time. Good luck! to you, says Lelkowitz, and departed for his next case.

Our Janitor Extra-Ordinario, Signor "Marconi" Lamberti, still doing a bangup job on keeping the Nation's Key Station in ship shape condition. The Signor very elated over the response to his network greetings in last issue of the Journal. Engineero's, she is a good friend from me, says the Signor. You come Lodi, my Woman she fix a you a Ravioli, a nice beeg one, you come visit, No.

A communication just received at Lodi from "Philadelphia" Phil Monaghan, advises that he has shipped out of New Orleans as a Wireless Operator on a freighter. Philadelphia is bound for Europe, where he is seeking first hand information on the results of World War 2 in comparison to World War 1, should be a very interesting study, says Phil. Monaghan is making this voyage solely for the purpose of obtaining material for his new book soon to be published entitled, "Living, Tomorrow, in the World of Today." Good luck! to Philadelphia from the WJZ gang.

George Robinson, a new man on our staff, been here about a month. George is well known to Nabet readers as he has been in the Major League a long time. Fits in nice with the boys here and will add to the prestige, so cherished by the WJZ transmitter group. Welcome to Lodi, George.

The election for Chairman of the New York Chapter has stirred up quite a bit of enthusiasm at Lodi, when word reached here that Bob Massell, an ABC man, was nominated to run against the unbeatable Charlie Bennis. We all expect to vote here, providing the ballots arrive on time.

This is all from Lodi at this time, how about a few lines from the outlying districts and let's know what's Cookin'. Chicago, San Francisco, Los Angeles, even some local news from the Studios will be welcome out here .- Bill Mullaney.

N. Y. Television

Βv Jack Irving

Thomas Lyman and Ollie Fulton put seal skins on the skiis and climbed the head wall at Mt. Washington. To you skillers this probably means something, but to the rest of us seal skins are something the wife brings up after a delicious meal. Mr. and Mrs. Ed. Read and Mr. and Mrs. Jim Davis joined the party at Manchester for a few days.

The U. N. Security Council conference was covered by the field group in a closed circuit telecast which fed the program to tele receivers in the overflow assembly hall at Hunter and to Radio City. As is the case in anything done in such a hurry, many odds and ends were left dangling the day of the opening. The electricians didn't lay the coax until the morning of the opening. For two days we had to climb in the front of the booth because nobody among the security guards could find the key. The crowning indignity was the installation of the P. L. in the men's room in the basement. Ed Wilbur, who had arrived at the stage where he was picking up one and all phones on the off chance it might be ours, tried the one in the basement and was immediately answered by Doris Greene's familiar "Television Engineering." Doris wouldn't believe Ed when he told her where he was calling from.

Protzman tried to get the television booth and got the N. Y. Stock Exchange. Protz, who has been kidded on the phone before, ordered a 100 shares of U.S. Steel and then had a hard time getting out of it.

The new 9000 megacycle microwave transmitter and receiver, coupled with the image orth, gave a picture at Radio City that was excellent, according to the press. The transmitter is mounted on a parabolic reflector with a wave guide in the shape of the question mark. The waves are emitted at the end of the hollow question mark and aimed at the center of the reflector. The power supply and video amplifier are in a separate box about the size of a tool box which can be moved about. This innovation should make things nice for George Butler and Frank McArdle, who will now be able to sit on the edge of the roof at the Polo Grounds and Yankee Stadium.

Joint Task Force One has given television permission to send a cameraman to "Operations Crossroads" to film the atom bomb tests off Bikini Atoll. Film will be processed at Anacostia, D. C.,



"It's easier to keep track of Joe now . . ."

and participants in the tele pool will select their individual footage.

The NBC Television Guide to Commercial Production Procedure has some interesting points which we would like to record for the benefit of those who were too lazy to read it through. One hundred dollars will be the basic transmitter charge for 11 minutes to one hour, day or night; \$75 for ten minutes. Use of 3H will cost \$750 for an hour segment; \$500 for a half hour; \$300 for 15 minutes, and \$250 for ten minutes. 5F will cost \$250 for an hour, \$200 for one half hour, \$150 for 15 minutes, and \$125 for ten minutes.

The director will be assigned by NBC subject to the approval and acceptance by the agency or client producer. His duties and authority, as well as his relationship to the producer, will parallel those of the director of a motion picture or stage production.

Recent additions to television include John Canevari from N. Y. audio; Herbert DeGroot, returning from the Army; Milt Kitchen from master control; Ed Costello from audio maintenance, and C. A. Cabasin from Chicago.

Tom Smiley, leaving a party with his girl on one arm and a carton labelled "Cuddly Blankets" under the other arm, caused so many wise cracks that he left the box at the girl's apartment until he could get some wrapping paper.

Al Protzman, sporting enthusiast this time, is organizing a television softball team. If you think you can play, contact him. Personally, we think it's a great idea.

Harry Getting and the Ripper, in conjunction with the NBC A. A., are trying to start a flying club. A certified instructor will teach. It's a girl. Ripp gave us a lot of figures about flying time, instruction, etc., but in our usual efficient manner we lost them. (Continued on Page Fourteen)

Your Broadcast, Recording, and Television associates in neighboring stations and communities will appreciate this opportunity to subscribe to this Journal-which will be mailed directly to their home address. Pass this Subscription Coupon on promptly; have it filled in, attach check, and mail at once to:

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THIS REPORT COMES San Francisco

By Jack Van Wart

TN A previous article, this reporter unwittingly subjected a few of the supervisors to some very embarrassing questioning by their families. I stated that a couple of the fellows planned to take

their families on extended vacations via the airways and what happens. It seems that the wives (also Ed. S.) read the Journal and when they see what the other fellows are doing they naturally begin asking questions like "Why can't we do that, too?," etc. Well, what can a guy say? I don't know-except so sorry.

There has been a shift in the operating staff since the stations (KPO-KGO) have been signing off at 12:30 A.M. Russ Butler's tour of duty as Group 4 was short-lived and now Don Hall is acting as vacation relief. Mr. Park was hired and released in a period of a week as a Group 2 studio engineer. Toby Hamma has chosen to transfer to the KGO Xmtr and remain on the all-nite watch. During the periods when there is no supervisor on vacation, and after vacation, Don Hall returns to the maintenance department. I guess it gets sort of quiet for Earl Sorensen who is the only one around the plant between 12:30 A and 3:45 A as the maintenance dept. is the only 24-hr. dept.

Bob Woods, alias quarter wave, got his first taste of field work when he was assigned to the "Woman's Magazine of the Air" for their Friday trips. So far he has visited San Andreas, Stockton and Oroville.

Syd Blank has really taken to the country. He has purchased a home in Corte Madera, a small town in Marin County about 15 miles from S. F. He hasn't moved in as yet but hopes to soon. Syd has recently developed considerable interest in the training and raising of dogs. He is really quite an expert on Cocker Spaniels and has gone a long way in a very short time. He has a black female Cocker puppy now, and already she has mastered the obedience and retrieving trials. Syd spends a couple of nites a week at club meetings where he works all types and breeds of dogs, putting them through their paces. He intends to show his dog at the first opportunity.

Andresen has joined the ham radio clan, having purchased a small transmitter and receiver. He has applied for a license but as yet has not received his call. Alan O'Neil is on the air again on 10 meters, also.

One of the most interesting of the extra-curricular activities of the engineering staff is that of T. Dwight Maxwell. On his place in Novato he has four colonies of honey bees. Admittedly they do not require the care and attention other hobbies do, but they do require specific knowledge of their habits, which can only be had by reading the available literature. He takes off more than enough honey for his family and the excess pays a good portion of the expenses involved. It would be very interesting reading for anyone, whether they are thinking of keeping bees or not, to obtain one of the many publications readily available. Almost any university or the U .S. Dept. of Agriculture will furnish free of charge their respective bulletin on bees.

Feedback from KGO Transmitter

Bγ Ken Martin

ENE NICKELS has turned into a full time 1-house con-tractor and is really "pushing" that housing project to completion. Your Journal Reporter made an inspection trip to the site. A word of warning to others who may go out that way-lay off those chimney bricks. I got my fingers mangled trying to swipe a couple of bricks when I thought the proud owner was looking the other way. Just goes to show you what proprietorship will do to even a genial nature. By this time, I imagine we will all ready have the Nickels' house thoroughly "warmed.

Our extremely versatile Myron Case is now delving into the mysteries of refrigeration. After the second book, he expects to come up with the answer to that ageless question about who turns out the light when you shut the door.

George "Yosemite" Irwin spends so much of his time of "up



thar" these days it is hecoming difficult to tell whether he commutes from Yosemite to work and merely visits the place on Georgia Way he formerly alluded to as home or vice versa. By the way, George has never cleared up whether they named Georgia Way after him or not and if so-why the confusion of gender? Like fishermen. "Snowbirds"-those who go to the mountains when it snows-have their tall tales and one recently brought back by George was the 34 inch fall in 24 hours. Even if he did have the pictures. . . .

Otis Hill has finally acquired a roof to put over his head out San Leandro way and it is a pretty "dinkum" place, accompanied by a good sized lot. Otis is all set to really "dig" himself into California now.

Herb Kramer is the ten meter king around GO these days, getting way out in front by converting quickly and acquiring some crackerjack surplus equipment. He really puts forth some mighty efforts to keep his rig in the fore. Nice going, Herb.

Jim Blanchet, the station Californiac has been detected reading books on Oregonia and perhaps-could it be-Montania? Could this he treason? Or merely spring? Jim's daughter-in-law walked away with the women's badminton championship in recent competition. Son Norman was runner-up this time, in men's singles.

Dick Parks, always a great one for initiating something different, actually commutes from San Francisco to the transmitter site in Oakland-adding some strength to his contention that he really likes San Francisco. Such a commute arrangement in these parts is generally conceded to be the "reversed english."

Otis Hill makes a weekly trip to the San Mateo airport where he is seeing that 16 year old daughter Darlene gets proper flying lessons.

Television

(Continued from Page Thirteen)

So if you are interested in the course or the girl you will have to see Ripp.

"Radio City Matinee" will be the new day time program over WNBT every Monday, Wednesday, and Friday from 1 to 2 p.m. The format will vary with accent on the distaff side.

One the men in field will enjoy, is the "Television Talk" brochure's definition of portable unit: "field equipment which can he installed where needed, generally consisting of numerous 'suitcase' size pieces of equipment." Most of our "suitcase" size containers could hold a baby grand.

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ANSWERING THE DEMAND FOR Something Better"

DRESTO MODEL "L"

A *better* portable playback—compact, easy to carry, simple to set up. The remarkably clear, wide range of reproduction—far superior to what is ordinarily expected of a portable playback—makes it a favorite with broadcasting stations and advertising agencies who demand top performance in demonstrating recorded programs to prospective clients.

Model L plays 6 to 16" records, 78 or $33\frac{1}{3}$ R.P.M., on a 12" rimdriven turntable. Standard equipment includes high quality 16" pickup on a swivel mounting which folds into a case when not in use, four stage amplifier, 8" loudspeaker with 20' extension cable, and a Presto

Transcriptone semi-permanent playing needle. For use on 110 volts AC only.

The complete equipment, in an attractive grey carrying case, weighs only 46 lbs.

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WORLD'S LARGEST MANUFACTURER OF INSTANTANEOUS SOUND RECORDING EQUIPMENT

CHICAGO CORN FROM A COB REPORTER By K. A. Slobb

UST a few notes collected during the past month here in Chicago. Vacations are in progress, and although the weather hasn't been summery yet, the followers of Izaak Walton are planning big things.

Vern Mills, our esteemed Sec.-Treas., managed to catch himself a case of appendicitis, and at this writing is convalescing at his home, with ham radio to occupy his time. Vern had this attack of appendicitis just before Chapter elections, so Minor Wilson is convinced he had the operation just to miss the election worries.

NBC has come through with a couple of ideas which rate orchids. The first is that those employees who have been with the company more than ten years are to receive an extra week vacation. The second idea is that NBC will advance tuition fees up to \$50 per semester to any employee who wished to take an approved course at some recognized educational institution. While the company is advancing the money and later taking it out of the employee's pay check in installments . . . the amount deducted will be refunded when the employee receives a passing grade or better in the course selected. This means that NBC will actually pay \$50 per semester to any employee for schooling which will contribute to the employee's progress with NBC. I trust that the NBC executives who sponsored this plan will not be disappointed by lack of enthusiasm among their employees.

Old news by now is the fact that ABC bought Station WXYZ at Detroit for something over three million bucks. Where do we go



'ELL I'll be a so and so, as soon as I make a squawk to the gang that I ain't getting co-operation, that everybody wants to see their name in this column but that they won't come through with the stuff, along comes a flood of material.

Will start off with a guy by the name of Ed Scatterday, M/C, who flew off the deep end, May 30th, at the "Mark Hotel" with a beautiful blond called Ruth. Yes, Ed and his new bride are spending eight days in San Francisco and three weeks in Hollywood, honeymooning. Here's the best of luck to both of you.

And darned if here isn't another good guy going that way, too. Paul A. Reveal, June 6th, don't have all the particulars, but heard him say "He was going to Florida Keys and hang over those bridges, just watching the fishes." I get it now. Well, again we "Here's the best of luck to both of you." say,

By the time the Post Office delivers this, we hope Myrtle and Johnnie Garlinger will have received their visit from Dr. Stork.

The following Hudson Chapter	Gang on 75 or 10 or both.
Albrecht, Bob	W2MHP
Bergen, Bob	W2LSS
Carter, Jim	W2HJY
Clark, Gene	W2HTA
Conover, Danny	W2LUK
Davis, Dick	W2CTQ
Donniez, Howard	W2KPG
Flynn, Bill	W9DAI (Portable 2)
Getter, Cy	W2JIC

. we have everything from ABC to XYZ? now

Ed Maccornack, who for years has been a kingpin in ABC Field Operations, is now on a leave of absence. Understand he is in Texas on business.

As reported last month and now verified, Frank Schnepper is new Chairman for Chicago Chapter. He received 79 votes, and no one else received more than one vote, which makes it practically unanimous.

ABC has a couple of new engineers just starting with the company, whose names when copied from the schedule read like this . . . Prokes . . . Cozier. That is all I know about them. And speaking about such things, will report that Charley Blanchard left ABC recently to join Eastern Air Lines as a pilot.

One of my notes reminds me of Herb Wyers, who was lucky enough to get one of the first 1946 Packards released in this country. I told loe Alusic that if we brought our own lunches every day maybe we could afford a Packard, but Joe insists it is the other way around. . . . If we bought Packards we would have to bring our lunches.

Studio "A" has been redecorated, and is quite live. Lighting system is much better. Work is going ahead now on Studio "H."

This is my last column, and Don Fitch (NBC Studio) will take over month after next. I claim I'm giving up the column because my typewriter was stolen, but Don doesn't believe it. Look for the September issue with a new and fresh column by Don Fitch. 88's.

Kibling, Charlie	W2EOA
Kibling, Kay	W2HXQ
King, Al	W1JM (Portable 2)
Miller, Pat	W2AIS
O'Connor, Jim	W2KGO
Reveal, Paul	W2ADD
Riley, George	W2K]]
Ruckstahl, George	W2BQ1
Sakal, Bill	W2KJF
Saveskie, Pete	W2JFE
Scatterday, Ed.	W2LZD
Stamford, Alex	W2KSC
Weidenhammer, Carl	WIZL
Yeomans, Press	W2OHE

What well known M/C engineer whose initials are "W. B." got paid the sum of one (1) dollar for digging up his wife's garden. Also a good fisherman.

That brings us up to fishing-flounders are being caught out at Mastic-stripers at Hampton Boys-weaks at Amagansett. Going fishing?

Ed Franke reports two new men at the WOR transmitter. A. M. MacAllister and A. J. Tatti. Mac ex. from signal corps, getting married this summer. A. J. also ex. from signal corps, is married, lives in Orange, having a tough time trying to find or buy a new car to get to work. Hello to both you guys.

Many, many thanks to our retiring President Charlie Thropp for having done a supreme job during his trying days in office.

Now May 4th, 1946, Walter Payne takes over as President. Boys, how's about really giving Walter every bit of assistance that is so necessary to assure his success in this important assignment.

If any of you boys have call letters that I haven't included in the above list, will you please let me have the dope and I will include it in next month's column. Also would like to elaborate it, so send along your freq. and power.

Gene Clark, W2HTA, now portable mobile on two meters. Has worked all districts on 28744 except 8th, here's hoping you can soon get that WAD certificate Gene.

Thanks for the plug, Norman, with a picture of "Lithe Linda" (May issue) hanging in front of us, we are sure of stimulating circulation .- 73's, Jim.

A.F. Gain Along the Mohawk

By Joseph W. Gagne

(DB No. 1)

HELLO fellow NABETs! Greetings from up here along the old Mohawk River Valley. At long last the mental log and ice jams have been cleared, and with this edition of the Broadcast Engineers Journal we hope to cruise through these lines monthly with news of what is cooking up this way since the Indians moved out!

The best news which should interest all of our fellow NABET'ers is the signing of the GE gang at WGY, WGFM, WRGB, WGEA, WGEO, WGEX, and WPGC into the fold. The John Hancocks were administered after almost two years of deliberation on January the 5th, 1946. It is the unanimous expression of all that "it sure feels good to belong to such a fine organization".

On April the 22nd a steak dinner was held at Keelers in Albany with Messrs. A. T. Powley and H. E. Hiller guests. Mr. Powley "shot the breeze", in general on the NABET, which was found interesting to all. We hope the "boys" drop back again soon. Don Morey, Chapter Chairman, was presented with a very lovely watch as an expression of appreciation on behalf of the entire gang for his energetic efforts in getting the NABET across. One and all Don, you did a fine job—keep it up—we're all backing you.

So much for our social life in this neighborhood. We have a few of the boys back from service and on the job again. Ralph DeGraffe was here at the studios but finds his present status at the transmitter more to his liking. Marcel Reeds is right in the jump re-vamping remote equipment at the studios. Have herd that "Zeke" Jones (alias "Fatty" according to the "Gestapo" at South) is out of the Army and resting up afore a coming back to work.

We have several new additions on all fronts as the staff and facilities have expanded quite a bit. Relief vacation operators at the transmitters at So. Schenectady are Dave Farrell and Sabcho Sabelf. Dane saw plenty of Navy from the bottom in sub service. "Sab" (for short) speaks five languages—French, German, English, Bulgarian, and Turkish. Formerly with the Army Intelligence and the New York Power & Light Corp., Sab also is a graduate of the University of Constantinople. With reference to the five languages, Sab is the only transmitter op who can talk Turkey; That's a joke, that is.

New additions to the WGY WGFM studios are three ex-Marines —Francis Boudreau ("Frank"), Herb Kohl ("Scoop"), and Francis R. Vadney ("Bob"). All have seen considerable radar duty in the So. Pacific and are really fine fellows. Many are the stories that swing in the breeze which are to this listeners cars very interesting, during the course of the day's operation. Sure glad to meet up with swell gang as youse!

Beulah, the unknown pedigreed canine at the transmitters at So. Sch. added five more to the personnel there last month. Unamed at present, Stan. Godell informs this writer that just as soon as they start crawling into things and stuff, plenty of "handles" not printable here will fly!

We have no report from the television studio and transmitter gangs to date so we will have to do our "viewing" next month. In closing may we apologize to the gang as the material is short for a start. However, we hope to put our chewing gum under our soles and trip around behind the scenes to see what is cooking for next month's issue. Gum-shoeing, that is!

Just informed by that Wheel of wheels at South that they have just adopted a Japanese trick circuit to conserve energy—converted the three phase 13 kv. source to a two phase circuit resulting a saving of one's face (phase, that is)!

Ad-Libs

The following came in a little too late to be included in the afore news:

Beaulah, our Transmitter mascot at WGY, had picture and story in local newspaper. Beaulah sure is getting plenty of publicity for the gagn at South.

"Zeke" Jones is on the payroll again—he done his resting from the service.

Ham Activities

"Barney" Barnes—W200S operating a kilowatt on 80 meter CW. Expects to go home to W. Va. on vacation and operate as W8BOK DN8. "Big Nick" Nickle W2EGN has 400 Watts phone on ten meters.

Don Morey W2PGV (note the new letter "P") on 10 meters with 250 watts. Ralph DeGraffe W2HUB has "parasitics".

In conclusion a word about our heading—it was thought up on the spur of the moment and may not be agreeable to some of our chapter members. Please feel assured that the title is open to shall we say a re-titling (discussion, that is) and if you got a good one pass it along. Preferably it should have something in connection with the Mohawk. So what do you say, gang, get on the old caps and ponder a bit.

Till next time your scribe bids you adieu.

Omaha News

By Bob Rudd

AY Elections by the Omaha Chapter resulted in the Election of Mark McGowan as Chapter Chairman with Bob Rudd and Bill Dunbar being elected councilmen of

Transmitter and Studio, respectively. Orlo Bonner was elected as Councilman of the KODY group. A future issue will carry a picture and a more complete story concerning the new Chairman.

Things and Stuffs

Chief Engineer Bill Kotera left for Washington, D. C., May 9th, to aid FCC Engineers in preparing exhibits for the Clear Chanell hearings to be heard in July. Mr. Kotera's assignment came about as a result of a request from NAB that all stations that were able, assist FCC in this most important task. Chief Kotera will be in Washington for a month.

Technical Director Joe Herold and Studio Supervisor Glenn Flynn obtained a news scoop May 16 while on their way to Geneva, Nebraska. They came upon the scene of a terrible truck accident that had happened only a few minutes before their arrival. Three men in the truck were involved—two of them terribly mangled and the other not seriously injured. Though not news men, they rushed to the nearest phone and gave the story of the accident to the WOW news room. The details were on the air long before any other news source knew of it.

Cy Hagrman vacationed from May 27th to June 14. He and his family spent most of their time visiting their respective folks at Aurora and Columbus, Nebraska.

Bob Rudd and family spent their June vacation in Northern Minnesota on Lower Cullen Lake. The fishing was wonderful and the scenery superb.

Joe Herold spent his vacation period just loafing and doing some of the things he had wanted to do for a long while. He visited his dad and mother on their farm near Hiawatha, Kansas, and other brothers in the nearby vicinity. He done a lot of fishing and had a good rest. FB Joe, most of us wear ourselves out trying to make every one else think we have had a lot of fun.

G. Flynn and Bob Rudd spent the morning of Mothers Day putting up 40 foot sticks. The sticks were erected at G's place in case your wondering about it. Glenn plans to operate his 750 watt transmitter on 80 and 10 meters until other bands open.

Hams calls at WOW are: W0GTC—Roy Glanton, W9MHV— G. Flynn, W9EUT—Bob Rudd, W0NZ—Mark McGowan, W9DCQ—Al Maller. Louis DeBoer and Cy Hagrman are going up for their ham exams in July. Cy is Ex-W9DBW. Louis is a newcomer to the ham ranks.

B. Dunbar's new boat is finished. He christened it Pam after his little niece of the same name.

Dick Peck has finally acquired a car. It's a four door De Soto and a nice looking job. It's one of the cleanest used cars the writer has seen in this day of junk heaps and pull-the-wool-over-your-eyes dealing. Dick and Katy plan on driving it to Excelsior Springs, Mo., where they plan to spend a part of their vacation. From there they will probably go down south into the Ozarks.

Noone was born, married or started to work this month.

Broadcast Engineers' 17 Journal for July, 1946

From Dixie

By D. Gordon McCrary

T THE last meeting of N.A.B.E.T., Dixie Chapter, the following officers were elected: J. Willard Dean, re-elected Chairman; Robert Royal, appointed as Secretary-Treasurer by Chairman Dean; D. Gordon McCrary, appointed to handle Publicity. The following were elected as Councilmen: Edward Norman, WDNC, Durham, N. C. (T. E.); Wayland P. Sea-graves, WPTF, Raleigh, N. C. (S. E.); Samuel Liles, WPTF, (T. E.) Raleigh, N. C.: and, Charlie Stout and William Mitchell, WBIG, Greensboro, N. C.

The Engineering Staff of WPTF attended a banquet recently, by invitation from Mr. Richard H. Mason, General Manager, and Mr. Henry H. Hulich, Chief Engineer. Drinks and appetizers were served before dinner in the smoker room. The dinner was delicious in that most of the dishes were in the hard-to-get variety, especially to be mentioned is the main meat course, S T E A K !! which was very good. The purpose of the meeting was for good fellowship. Mr. Mason gave a quite interesting talk, the topic concerned a general thanks to the engineering department for work well done in the past. After Mr. Mason's talk, Chief Hulich also compli-mented the engineers for a good job. The banquet was followed by two sound movies on fishing and hunting and alter this we had the usual get-together and bull session, together with a few games of billiards.

Since a good many of our readers are hams, or otherwise interested in amateur radio, it may be of interest to mention the hamfest of Sunday, May 19th, held at the Hotel Carolina here in Raleigh. An attendance of 225 made this the largest hamfest, or convention, held in the Roanoke Division to date. The meeting was called to order by our own Frank Colvert (T.E.), and W4DOP, who introduced Lt. Col. H. L. Caviness, Director of the Roanoke Division of ARRL and W4DW. He gave a full report of the activities of the last board meeting, which you all have read in QST, or, will in the near future. This was followed by a dinner in the late afternoon after which prizes were given away. The prizes consisted of two transmitters, one receiver, a number of highly useful tubes and many other prizes too numerous to name. Harry Wiggs, W4ANU, was treasurer and very ably assisted by Henry Wright, W4AVT, and, of course, the XYL's were in attendance. There were approximately 45 or 50 YL's and XYL's present and they were separately entertained, nylon hose were presented to the ladies with lucky numbers. Bill Speed, former WPTF engineer, who is W4BIP, passed out pocket tube manuals to all present. Bill is now managing the local radio amateur center. WPTF was well represented at the hamfest by several of the engineering staff.

Doings at WITH By Alec Beauchamp

It's time to dust off the typewriter again and start writing the old column-though, I haven't the slightest idea what to write about. I've been unable to collect any news concerning our staff. [Send in Ham calls-Ed.S]. Not even a rumor! The boys are as tight lipped as a mute. Maybe it's the calm before a storm, or, they are all too busy planning their vacations and would rather talk about their experiences on returning.

Speaking of vacations, this is the first vacation period since the war has ended. With travel restrictions being lifted, and gasoline more plentiful, we should enjoy richer experiences in our wanderings.

Everybody has their own ideas about what constitutes an ideal vacation: a visit to aunt Min, or cousin Jerkermer, a trip to the big town and paint it red, or the more popular seashore. All this is very good, but I've got to be different. My idea of a perfect vacation is not the noise and din of the large cities, or being trampled to insensibility, trying to get a little sun-tan and vitamin D at the seashore. I'd much rather spend my vacation in some secluded cabin along a quiet mountain stream, where you can cast a fly rod and ensnare the wily trout. To feel the first tug on the line as he strikes. Then the struggle for freedom as you play him on your line. It's a battle of life and death for the trout as he dives and twists, and does every trick in the book, taught by Neptune. By now he's getting tired, you are wearing him out and you reach for the net, but all of the fight is not out of him, yet. He makes one last lunge to free himself and the reel hums it's maximum speed as the line is let out. This spurt is short lived, and you are reeling him in again. The fight is all out of him this time. You reach down and carefully lift him out of the stream. "My, what a beauty! He's at least a three pounder!" You prepare him for the pan, and season with salt and papper to taste, let it cook very slow until it's a rich, dark brown. To enjoy this morsel of cuisine delight, just split the fish in half and extract the back bone. All the other small bones will be very palatable, the same as the meat. Truly, an epicurean delicacy.

Now. that the inner man has been satisfied, and you are in need of some exercise to work off the sluggishness after eating, you go for a hike up the mountain. You reach the crest just before sun-down. The valleys below are already dark. You can see a white log beginning to settle, half-way down the mountain. It's too late to make the return trip down, and a decision is made to stay all night. The sun is setting, and as it drops from view below the horizon, the sky changes in color, from a bright red to deep purple. Not a protest is heard as mother nature closes shop for the day. You crawl into your sleeping bag and sleep like a baby until the morning sun awakes you. Thus, another day has started, or, I might say another era. as you leave the quiet and peaceful surroundings, wending your way down the narrow paths, returning to your regular habitancy. Surely, you are a new person, living close to nature for a couple of weeks. You can return to the job with new pep, vim and vigor. You have brushed all the cobwebs away that have collected about you, the past year. Yes, a new era is beginning.

> Third in a Series of Humor-Sketches From the NBC-NY Recording Group:

> > FOURUM





RPM.

T'aint enough jist to draw up the "pectures" To 'lustrate the "for," "how," and "why" Gotta read up on books and tend lectures-"Heerd" by rumor-my stuff's all a lie.

I'm right proud of my friend's perspicacity Glad to see we've a reader of "one" But let's impress on our neighbor's sagacity Above is meant-not for truth-"just for fun!"

Between Programs . . . By Bert Pruitt

HAD no idea there was anyone in Control Room 'F'; otherwise I'd have given a warning knock before walking in. But everything turned out all right this happened to be one of those rare occasions when they weren't panning me, so no harm was done by my unannounced intrusion. The talk, however, did suddenly cease until Charley Ames made sure it was me coming through the door.

"Come in," says Charley with a smile, "I was just telling Howard about an engineer I once worked with down east." So before Charley starts his yarn we'll take advantage of the silence and introduce Howard to the reader. He's Howard Spiller, studio engineer, and he's been with WTAM somewhere in the neighborhood of a year. Well, I can see Charley is squirming with impatience so let's let him continue with the story about the engineer he once worked with down east.

"Well, as I was telling Howard, I have worked with a lot of engineers who could hold their own when it comes to having their share of luck but none of them was an equal to this fellow down east. There isn't a radio station in the country that he hasn't helped design and he knows all the Vice Presidents, Station Managers and Chief Engineers by their first names, so I'll just refer to him as Lucky Ike to prevent the possibilities of any embarrassment or hard feelings ... He,' 'Where does he work?'' Howard asked.

"Charley looked at Howard with a sheepish grin before he answered that question.

"I'm not sure," said Charley, "but I feel reasonably certain he's past the draft age so he's probably hopping gain in some station right now.

"What color is his hair?" Says I. "Well," says Charley, "he didn't have much the last time I saw him so that question isn't worth answering. And I wish you fellows wouldn't interrupt. . . I have a program in a half an hour and it'll take at least twenty minutes to tell you about Lucky Ike, even if you don't interrupt me. Well, you've never seen a fellow like Lucky Ike when it comes to getting the breaks. I'll never forget the time he was hopping gain on a dramatic show one evening in a station down east. They were using one mike for sound effects and one for the

actors ... that's only two mikes all told so you wouldn't expect any serious trouble in a situation like that ... but you never know what will happen on a radio program ... especially when Ike is at the faders."

"Were they noisy?" Howard wanted to know.

answered Charley with a "No," grin, "but here's what actually did happen. On the program preceding this one, Lucky Ike had the local stock yards patched in on number 3 fader and he somehow or other forgot to pull the patch when the program ended and I might as well explain before going further that this was a station where they handled some of their nemos by automatic-set-up. Well, here we are right at a critical moment on our program. They've been on the air about twenty-eight and a half minutes and the whole program's written around the patriotic theme of the present meat shortage ... or to be more blunt, the black market . . ."

"Say," says Howard, "how long ago was that?"

"Well," says Charley, "it must have been six or eight years ago ... yes at least that long I was driving a Plymouth and I have about 85,000 miles on it so it was at least six . . .

"We didn't have a black market six or eight years ago as far as I recall," said Howard.

"That's right," said Charley, "so it must have been six or eight months ago ... anyway we are on the air and the theme of the program deals with the black market and the leading lady has a husband who has been with the 37th Division ever since Guadalcanal. The sound effects man saw duty in North Africa and the announcer's father is a skipper on an LST boat in the Pacific. Ike's grandfather was a drum-boy at the battle of Bunker Hill so you see the atmosphere in the studio fairly reeks with history and patriotism. They are doing an excellent job of putting across the idea that a home-loving patriotic American should do all within his power to help stamp out this insidious group of connivers that is snatching pork chops and sirloin steaks from the plates of all decent, lawabiding people like engineers and announcers. Well, I was down in the Main Control Room listening to the show and I'll have to admit that I felt a little guilty when I though about that half pound of bacon my butcher slipped my wife in a sack of spuds last March a year ago ... but," quickly explained Charles, "it was Government inspected bacon and my wife gave perfectly good government approved red points for it so everything was on the up and up and it really makes no difference whether you get the bacon in a sack of spuds or not . . . that's beside the point I merely mention the incident to show that I fully approve of programs that do their share to stamp out the black market . . . and this one was as good as any I've heard . . .

"Oh, yes," says I, "that reminds me ... our butcher joined the Marines last week and that leaves us without a butcher. Could you recommend some-





one, Charley? We've always traded at independent stores and we can send them any number of new customers during the normal years that are certain to follow these critical war years. I know some fellows over at WHK and one of them is related to an engineer down at WHKC so you see . . .

"My program starts in ten minutes," said Charley, "and as I was saying, everything on the program is written with the thought of convincing the listener that he should do all within his power to defeat the insidious black market. Well the closing line of the script calls for a rousing cheer to follow the hero's closing punch line. The sound effects man is Johnny-on-thespot and brings in the cheering at the crucial moment. The actors, I imagine, smiled at each other like they usually do when a show ends and I shouldn't be surprised if the announcer shook hands with the leading lady ... But I was down in the Main Control . . ."

"What happened?" demanded Howard.

"Well, little did the actors and announcers suspect what really followed the punch line. Lucky Ike had accidentally turned on number 3 fader instead of number 2! So instead of getting cheers someone out at the stock vards said:

"Here's that load of chickens from Brecksville . . . three hundred of 'em ... what'll I do with 'em?"

"Well," answers another voice, "we'd better play safe . . .'

But that's as far as the second voice got. Just at that critical moment a choice Rhode Island Red decides to reach over and peck at a Plymouth Rock in the same cage. The Plymouth Rock lets out a death defying squawk, then pecks a choice Leghorn on the leg. Well, you never heard so much squawking in your life . . . and neither had Lucky Ike! He is scared half to death ... Why in heaven's name doesn't the sound effect man stop that cackling record and bring in the one the script calls for? Lucky Ike jumps to his feet and hammers on the window, then all of a sudden his face turns red and . .

"Then what happened?" Howard was getting excited.

'Nothing," said Charley, "the transmitter blew a tube just before the fellow at the stock yards told his boss about the chickens and no one but Ike and me was the wiser!"

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BOOK REVIEW

Understanding Microwaves by Victor J. Young

Published by John F. Rider, Publisher, Inc., New York. 380 pages plus 5 pages of index, 6 in. x 81/2 in. \$6.00.

Dr. Young is a Senior Project Engineer of the Sperry Gyroscope Co. He was actively engaged in important microwave radar and radio relay work, including explanation of the operation and fundamental ideas involved to the engineers involved with the quantity construction of the equipment. The title of the text is an excellent two-word summary of the text, and fully states the purpose of the text.

Section I: 12 Chapters. 288 pages. Chapter 1: The UHF Concept, Chapter 2: Stationary Charge and its Field. Chapter 3: Magnetostatics. Chapter 4: Alternating Current and Lumped Constants. Chapter 5: Transmission Lines (parallel wire and coaxial). Chapter 6: Poynting's Vector and Maxwell's Equations. Chapter 7: Waveguides. (reactance, phase angle, impedance matching, measurements, SWR characteristics, waveguide constrictions. need for empirical data. practical limitations, field strength measurement, cutoff frequency, waveguide junctions and terminations, T-joints in waveguides, open ended waveguides, waveguide bends.) Chapter 8: Resonant Cavities (frequency determination in resonant circuits, cavity development, cavity forms, waveguide cavities, mode nomenclature, coupling, extreme Q values, shunt resistance, impedance, slug tuning, applications.) Chapter 9: Antennas. (parabolic reflectors, special applications, dipoles, antenna arrays, horns, propagation.) Chapter 10: Microwave Oscillators. (velocity modulation tubes, Klystron operation, amplifiers-frequency multiplierstuning, Applegate diagram, debunching and overbunching. saw-tooth bunching, magnetron oscillators, electron trajectories, classes of magnetrons, negative-resistance magnetron (dynatron), transit-time magnetrons, magnetron cavities, disk-seal tubes.) Chapter 11: Radar and Communication. (the perfect receiver, noise figures and practical receivers, propagation problem, the isotropic transmitting antenna and receiver cross-section factors, feasibility of communication, a radar system, the bandwidth problem.)

Section II: Microwave Terms, Ideas, and Theorems. 90 pages.

The sequence and presentation of the material is good, and the overall text is adequately illustrated. Considering the complexity of the subject matter, the mathematical treatment has been held to a minimum, in line with Rider's excellent prior policy. This text is especially recommended to radio and television technicians, whose mobile and field pickups will more and more utilize microwave links .- Ed Stolzenberger.

The RCA Tube Department today revealed that it had developed a tiny metal electron tube weighing only 1/15th of an ounce, which converts mechanical motion directly into variable electron flow. The tube has been called a "Vibrotron."



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Cleveland News

By Earl Holl

T LAST a life's ambition realized. An editor's job. Even if it's only for a week, then get kicked off the job. No doubt, you all have read Bert Pruitt's articles in this magazine at different times. Well, I know I'll never reach his peak in this writing business. You see, I started to write in one of Chick Sales 'two seaters on a mail order catalogue. (Suppose we will end up in a one seater). Now Bert always lived in the city and never had to write on an old catalogue.

The other evening at the NABET meeting I looked at Bert to see what he had that I did not. Well, we did not have to look long. Bert is a nice looking fellow. He has brains. Bert has a lot of things I don't have. He has a slight bay window in front. I need one of them for my home, but with the lumber shortage we don't see how we can get it.

We had a nice turn-out at our NABET meeting. The boys got right down to business and re-elected Harold Brandt (TE) as Chairman, Frank Whittam (SE) as Sec. and Treasurer. Then they had election for Councilman. We did not get the Akron Boys' Councilmen. But we did get the names of the rest. They are as follows: WHK Councilmen Hugh Okeson, Transmitter; P. C. Tuttle, Studio; WTAM Councilman, J. Jerome, Transmitter; C. Bidlack, Studio. Nice going, fellows. We were asked to tell Harold and Frank that they are doing a nice job and the gang around these parts appreciate it.

It was nice to meet the boys from Akron. We don't see very much of them. Maybe it is a good thing: I'll tell you why. I had ten cents and a penny for a transfer to get home on. After sitting with them for a while, I took out my money and counted it, I only had ten cents left, my penny for a transfer was gone.

About Rochester By George Wilson and Donald Anderson

THE annual elections have formed the topic of greatest interest to the Rochester gang of late. Now that the smoke has cleared away, we find that Charlie Snyder (WHAM CR) has been re-elected Chairman, Howard Mouatt (WHEC CR) re-appointed Secretary-Treasurer, Walter Malone (WHAM TE) Chairman of the Social Committee, and George Wilson, (WHEC CR) with Donald Anderson (WHAM/WHFM) appointed ye editors, with the latter the chief brickbat target replacing Art Kelly (WHAM CR). The WHAM/WHFM Councilmen are Grabb (CR), Gresens (TE), and Anderson (FM). WHEC is represented by Bert Allis (CR) and Craig Williams (TE).

Charlie was re-elected with as near a unanimous vote as is possible under our Constitution in thankful recognition of the superb work he has done for us to date. At this time, certainly, our honest feeling is that no other one of us could do as excellently as he has done in the past and no doubt will in the future. Howie Mouatt keeps right on with his very efficient, workmanlike accomplishment of the sometimes arduous duties of gentleman-incharge-of-collecting and disbursing, so why should we change, if he can be persuaded to continue? He was. Art Kelly, after turning in a most excellent job of reporting to our private public during the last year and a bit, has abdicated with the idea of passing around the editorship as much as possible. He believes that this chair can be refilled each year with less detriment to the Chapter's welfare than can those of the Chairman and Secretary. Didja notice that there were two of us appointed to take Kelly's place? That'll give you some idea of his fine performance. At last the editorial we means something! Walt Malone, being our first Social Chairman, can establish his own precedents for his successors to follow. You see, fellows, we at Rochester haven't had time to be social, we've had our eyes on the ball, our noses to the grindstone, our minds strictly on business, our-aw, what's the use? You know we're lying.

Well, lessee: the recent WSAY decision handed down by the Buffalo Office of the NLRB resulted overwhelmingly in favor of

Everyone came early, so we had a nice chance to talk ham language for a while. After listening to the boys talk about tuning up a four element beam, I've decided to use a half wave dipole. We did find out one thing about beam antennas. You need good tools to work with. A nice sharp ax is very handy to have. It will come in handy after you have played with the beam a few days.

It was a pleasure to meet up with the fellows that have returned from Service.

Here are some of the boys that have returned to WTAM. Thomas Cox (SE) is back with us after serving 3 years, 1 month in the Signal Corps of the U. S. Army. Tommy was known as Captain Cox to the boys in the Southwest Pacific Area. Cecil Bidlack (SE) another Captain in the Signal Corps of the U.S. Army. Captain Bidlack served almost four years in South America and India. Then there is Ross Plaisted, better known as Commander Ross to the hoys in the Navy. Ross served three years and five months with Uncle Sam's Navy. Last, but not least, comes Gilbert Buchanan. Gil, as he is known around here, put in two years and seven months of rugged going in the Southwest Pacific. He contacted malaria fever while across the pond. But he is in fine shape now. Gil was Tech Sergeant in the Signal Corps.

Sav, fellows of Cleveland Chapter, would it be too much trouble for you to send in the names of the men that have been in Service. How about a little help from you fellows. They say a magazine is only as good as the men behind it. Well, it's your magazine, and you're the ones behind it. Don't blame the publisher if we have a poor edition. Blame yourselves for not helping out. Now consider yourselves bawled out.

All members of the Cleveland Chapter of NABET express their deepest sympathy to the family of Arthur Butler in the passing of their fourteen year old son, Donald Butler, who died on May 19, 1946.

the engineers and NABET. This decision produced joy unconfined in the Rochester Chapter, not to mention a large degree of personal satisfaction felt by our Chairman, Charlie Snyder, who put in many of his off days in court or in chambers, or otherwise in pursuit of justice and a decent living for the WSAY men and women. Rumor has it that the station owner uttered loud cries of, "We wuz robbed," and other expressions of dissatisfaction, which, we suppose, could be expected. We'll leave fuller reporting of the case to Mr. Al Powley, who had a large finger in the mess and who must share Snyder's feeling of a job well done.

Had a letter, no less, from Wilson, my fellow snoop. Quote: Dear Don: Came from NABET Chapter Meeting, and so home to bed. Whereupon, awakening next morning did remember re-elected Chairman Snyder did authorize, designate, and so appoint you and me to give out with dirt and stuff for ye Journal . . . believe the only reason we took the job was to get our names in the Associate Editor column. But in the sober light of day, our original reason must give way to an earnest and diligent pursuit of news. Glad Howie Mouatt is still Sec.-Treas. 'cause that means WHEC still controls the purse strings of our glorious chapter.

"The neatest trick of recent date was enacted by WHEC's versatile nemo engineer, Walt Lynch, while re-moting a local wrestling event. A two hundred and eighty pound mauler was tossed out of the ring and landed on the edge of Walt's nemo table, thereby bouncing the equipment up in the air. Being a man of action, Walt grabbed his beloved amplifier in mid air, then did a sprawling, slow-motion dive amid the wreckage of the table where, still clutching the amplifier, he landed with the greatest of awkward ease. Not a second of air time was lost and Walt continued to gain the show from the floor and a horizontal position. . . . Speaking of Walter Lynch, let me hereby speak of his brother, Ed Lynch, who has just joined the WHEC control room staff. Ed has recently said goodbye to his Army days, when he served in the Signal Corps and wandered around the ETO for nine months, making the enemy very unhappy."

Craig Williams is sporting an HT-4E Hallicrafters transmitter in his new home . . . and he's going to spend his vacation at home (Continued on Page Twenty-four)

Broadcast Engineers' 22 Journal for July, 1946

HOLLYWOOD

By Norman Dewes



(Left to right)-Eddie Miller, Hollywood NBC-SE and NABET Councilman for studio group; The Fish; and Johnny De Grazzio. Hollywood NBC-SC.

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HAMS . . . keynote of Ham activity out thisa way is "Whaddayuh hear from the surplus market?" . . . quite a few cherce items are showing up in the local wholesale houses and most of the stores have installed a special surplus department, where you can go in and browse around among the many tempting hunks of Navy and Signal Corps junk . . . procedure is, you spy a specially cherce box covered with knobs, dials and lights of all sorts and immediately start to drool and rush over and turn this and pull that and look wildly around to see if anyone else has seen it . then an attendant strolls up and just as you are forcing handfulls of money into his ready palm you experience a slight chill and wonder if you hadn't better find out what the thing is first . . . well, the guy isn't quite sure, as the item has just been released from secrecy by the Army, etcetcetc and there is no dope on it, but it is a great bargain and he is sure that it can readily be converted to any of the ham bands by just changing the pilot light . . . this sounds very convincing and you reassure yourself that you can certainly find some use for it and load it in the car and lug it home, after paying the guy the \$87.50. Some time later, when you get a chance to really look the thing over, you find that it either operates from a generator which somebody has to crank by hand or from 24 volts DC, and that the coils and condensers won't quite hit ANY of the ham bands and besides there are no crystals for it and the nameplates are all in Russian and . . . well, there are several possible solutions to this, but darned if we are going to reveal ANY of them, as WE seem to have a couple of boxes of SOME-THING sitting out on the front porch because there's no room inside for 'em and STILL hope to be able to separate ourselves from them eventually ... they're really GREAT bargains, tho, and can easily be converted to any of the ham bands by just throwing the insides away and building a new outside panel, so let us know, huh . . . well, we were going to include a list of Hollywood Hams this time, but over-ran deadline again, so next time will list them, with calls and frequencies . . . Vy fb QSL card which Al Korb, NBC MCD, received from Italy . believe it is from G6Z0/1 in Caserta, and for 28 MC, that isn't bad DX, . Al is running about 250 watts input, with an 8JK rotary huh built for 20 meters and his call is W6OSH . . . he gave us a list of his DX which is much too long to print here, but includes China, Japan, the Aleutians, all the Pacific Islands, Australia, all of South America, South Africa, Italy and England, which from California on 10 meter phone isn't too bad . . . more ham news next issue, and don't forget to come back when you hear "CQ NABET." . . .

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Broadcast Engineers' 23 Journal for July, 1946

ROCHESTER

(Continued from Page Twenty-two)

and I don't blame hime. (How'd that "e" get in there?-DA) Burt Allis, of our transmitter staff, is going to spend his vacation in a trailer. Not a bad idea, but I wonder what he's going to do with that litter of Terriers? When Fran Sherwood isn't putting together our new 5000 watt job, he squirts dandelion killer on the lawn. Leo Enright is putting pontoons on his model planes so they can take off and land on the creek running through our new transmitter site. At least Dick Sanderl appreciates the tunes I play on the oscillator when I send tone out to him from the Control Room before sign-on in the morning. And last, but not least. Al Keltz is back on the job after winning a fight with a bad strep throat. That's all for now, Don. What goes at WHAM?

-George Wilson, WHEC CR."

Vaats noo, George? Vaal, I'll taall you. The clean-up, paint-up season has broken out in a terrific rash of activity in Rochester and WHAM. It's a hard job to get away from such phrases as, and there was four, count 'em, four layers of paper on every dad blame wall!," "So instead of two or three coats I had to use five to cover the miserable, misbegotten woodwork!," "----and I got the place all painted and found there were lumps in the plaster!," and so forth, ad nauseam (a Latin phrase meaning, "I'm awful dam sick of that drivel!) Anderson has even gotten into the plastering stage, working out on a patch in his bathroom. Question: if a patch covers half a wall, is it still a patch or is it a new wall?

Large gobs of thanks go to Norm Dewes in Hywd. for the reprint of the picture of Linda Christian. They're She sure is appreciated here, if only from afar. Maybe that's a good thing, too: how can a guy manhandle a gal if she's a coupla thousand miles away? Ah, you Hollywood guys! There you are, in the middle of the pick of the U. S. of A.'s feminine pulchritude (quiet. Texas). Reach out your hand and touch a belle. (Then jerk back ver head and listen to yer ears ring). Honest, Norm, don't you ever get bored looking at good-lookers getting hard looks from bad lookers. And on top of it all, to have a Secretary like Mable (Mabel?) who can carry on the colyum while ye ed is out, open a bottle of that stuff like a veteran, and rate the requisites of a pinup as well! California! Land of milk and honeys! You see, guys, I've never been there! I only read the bait that Dewes et al (who's Al?) put out, and you gotta admit that the bait is good.

Up at WHFM the other day we had one of those trouble spots that you dream about, then wake up screaming like a meemie. You must have heard of the screaming meemies? While Bob Brethen was hard at it, grinding out platters, the talk-back to the studio failed. Shortly thereafter Anderson came in and started to hunt the cause for the effect. Practically immediately the cueing amp for the turntables quit, so the platters had to be set up by ear, and darn close to the heads, too. Still on the chase, our heroes' efforts were interrupted by the announcer's bellowing through the window that he couldn't hear the program. So there we were: ops couldn't talk to anner, he (Lasher) couldn't talk to the ops, and Lasher couldn't tell when the numbers ended except by sign language. About the time hair was beginning to be pulled out by the roots the fone rang: it was the chief. Sez he, innocent-like. "Are you busy for a few minutes?" Thank the Lord for telephones; that way the sin of murder is not on the conscience of the above toilers of the gains. Well, after much head-scratching, poking here and there, combined with a few well-chosen words, the trouble was isolated in a shorted mike and a misset gain, things settled down to normal, and the worthy platter-spinners made a dive for the aspirin bottle. You've been in the same spot, men-isn't it too, too thrilling?

Visited Yoe Seiler (WHAM TE) the other day to see him and inspect his month-new male offspring, Ethelbert Peter. Yoe is WHAM's contribution to that meeting of minds in Washington (nowhere near Oregon) anent the clearing of the clear-channel sitchiation and reports that they work so damn hard and long down there that there's hardly time to go out for a glass ofoops. I almost sedit------ lemonjuice. He says that about twentyfive hours of overtime per week is the average but, unfortunately for the weekly stipend, Uncle Sam takes such an interest in the earnings that there's hardly enough left to make the whole thing worth while from the monetary angle. As to the infant, the Seilers are still trying to figure out where that red hair came from. They're deservedly proud of him, just the same, especially since he's their first attempt at parenthood.

We note that the Petrillo fracas is finally out in the open, with what might be a test case of the Lea Bill coming up in Chicago. Oooooh Booooy! Here we go!

A pewkooliar thing has come up at WHFM: their Councilman has been temporarily shifted to the WHAM transmitter. Question: can one represent one's constituents properly from fifteen miles away? Does one have one's constituents? Is the Councilman now under the thumb of the transmitter Councilman? Who is now Councilman for WHFM? Will Dr. Brent find his glasses? Will beer always be this short? These and many other questions will be answered in a similarly clear, concise manner by YOUR ADVISER every odd February 28: don't fail to twist that dial! (No, you dope, not that way!)

Lacking something more praiseworthy to do a week ago, (the poker game was postponed) this alleged reporter scrambled over, around, and under the various impedimenta composing the present status of Rochester's "Radio City." All right, New York, a-a-ll right. I put quotes on it, didlle I? A few months ago it was only a big hole in the ground. Now it's a helluva big hole in the ground, with variations. All the foundation pillars for the foundation pillars are in place and substantial progress has been made on wall-pouring. There is one little ding-whichit, way off to one side, which gave rise to the beautiful thought that it just might be a wine cellar, beer cooler, or something of like ilk (pardon me!). With hope gleaming in his eye, your narrator asked George Driscoll, WHFM chief, what-slurp, slurp-it was. Said hopes were rudely dashed by the information that it was mercly the entrance, pit for the power circuits. . . . Of such stuff are dreams made. When there's something worth while to snap we'll try to wangle a picture of the wave-trap past Stolzie; then you'll see, you'll see.

Speaking of construction, my second assistant rumor-wafter says that WHEC's new transmitter building is taking shape. It will house a 5 KW ether blaster at some future date (make unknown) to take the place of their present 1 KW radio sender and at a new location. The sum result will enable more ears to hear of the peregrinations of Doris Dawn and her fellow lather-makers. More on this later.

The Crystal Ball Colyum in the last issue tells us that two of our members have turned up missing as far as the Journal addressograph is concerned. So that's why they didn't get their copies! Since Gresens (WHAM TE) changed his address on getting married we suppose that he kept it dark to keep his pre-marital flames from catching up. As for Gondek, he's been chasing here, there, and yonder in Army tan these many months and only just returned to the fold. Proper addresses are sent on separate sheet.

This same Ray Gondek (WHAM CR) is, at this writing, on his way home from a trip to Californ-I-Ay by bus and what have you. He sends us very baffling postcards of Hyld Radio City and the CBS Building saying that he was, "by here last night but haven't gone in yet." Could it be that there were so many beautifuls passing in and out that he came all over bashful and didn't dare go by 'em? Or was it that he was so fully occupied with just One that he barely had time and sense enough to notice where he was as he whisked by? Doesn't seem right that a radio person should journey all across the continent (in three weeks, yet) without going in to sneer at what the other guys are doing. Maybe he's been in by now, though. How did he look, Norm? A little pale and wan? Gosh; we just thought: Maybe he's met Mable (Mabel?)!

Forgot to say earlier that after all this time the Rochester Chapter's By-Laws have been approved and adopted. The Washington men should have a rightful pride in this accomplishment as our By-Laws were modeled directly upon those of our Capitol City. Say, Washington, did you have any trouble getting that Fine-fornon-attendance business to go through?

-73. and more next month. CQ-NABET!

Broadcast Engineers' 24 Journal for July, 1946

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