

THE BROADCAST ENGINEERS' JOURNAL  
ED. STOLZENBERGER, EDITOR  
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Report of NABET  
National Council Meeting

VOL. 12

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The Broadcast  
Engineers' Journal

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Official Publication of the National Association of Broadcast  
Engineers and Technicians

## Meet NABET's National Officers—

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Vice President

A. T. Powley  
President

C. A. Allen  
Nat'l Representative

H. E. Hiller  
Nat'l Secy.-Treas.





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**THE BROADCAST ENGINEERS' JOURNAL**

**Ed. Stolzenberger**  
Editor

Coordinator . . . . . F. R. Rojas

Volume 12, No. 9 409 September, 1945

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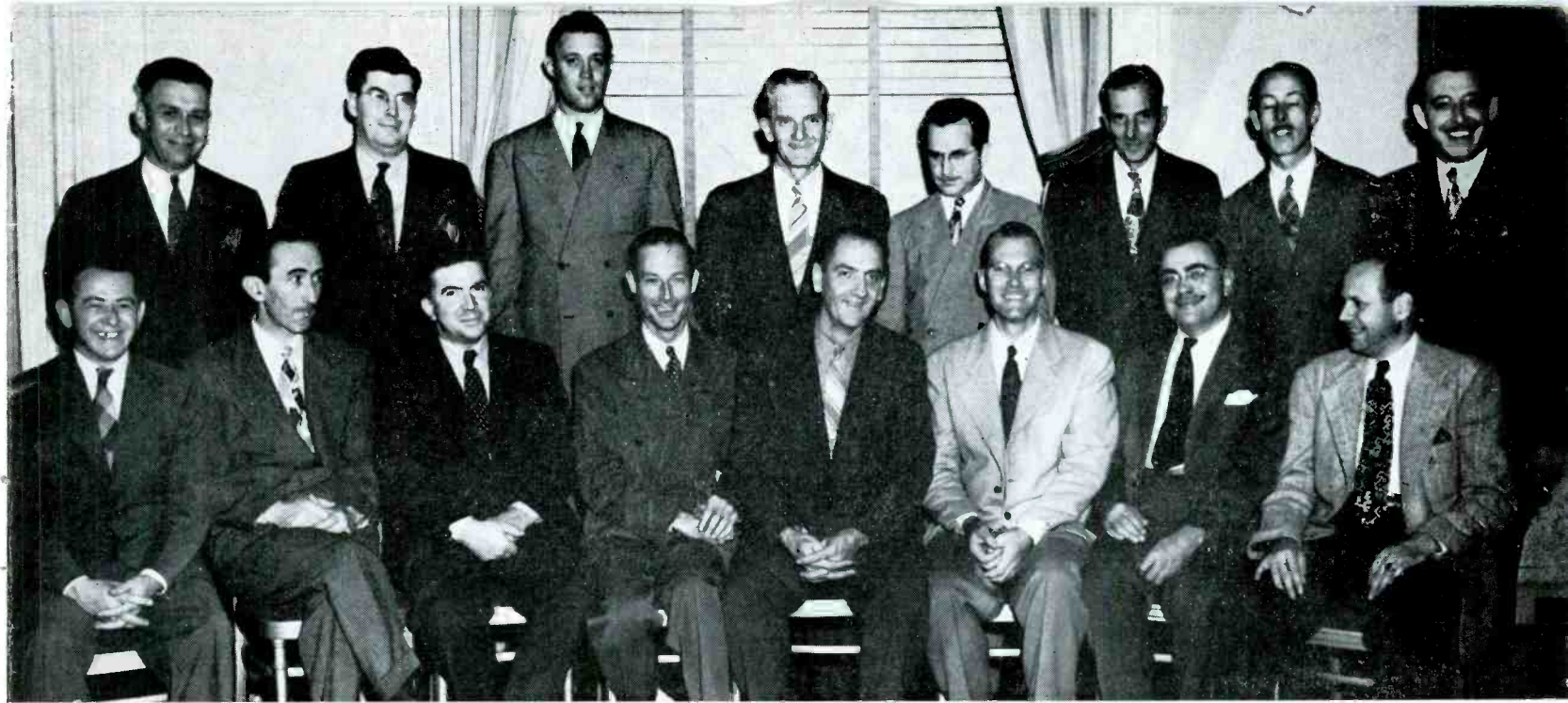
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**NATIONAL N.A.B.E.T. OFFICE**  
930 F Street, N.W., 415 Atlantic Bldg., Washington 4, D. C.  
A. T. Powley, President





## The NABET National Council

(Seated Left to Right) Messrs Harry Boone, Baltimore; S. A. Blank, San Francisco; C. A. Allen, Washington Chairman and National Representative; Thorus E. La Croix, Vice-President and Hollywood Chairman; President Al Powley; retiring Vice-President and First Honorary Member Bev Fradendall; Harry E. Hiller, New York Chapter Chairman and National Secretary-

Treasurer; and Frank Schnepfer, Chicago. (Standing Left to Right) Messrs Harold V. Brandt, Cleveland; A. J. Doran, Detroit; Charles Snyder, Rochester; Roy Glanton, Omaha; Reid R. Davis, Engineering; Charles Thropp, Hudson; Don Morey, Mohawk; and George Anderson, Denver. Absent when the picture was taken, J. Willard Dean, Dixie Chairman.

# NABET National Office Report

By C. A. Allen

NABET National Secretary-Treasurer

**T**HE 12th National Council Meeting is over. The Governing Body of NABET has completed one of the most momentous meetings in the history of the fight for the welfare of the broadcast technician. We came, we heard, and we are CONVINCED, that this welfare can best be served by NABET remaining independent. All broadcast technicians belong in ONE union. You are best represented by NABET.

The National Council of NABET listened carefully to the representatives of the three major unions (ACA, IBEW and IATSE) claiming jurisdiction in the Broadcast and Television fields and the evidence shows that NABET is doing a better job than these three, individually and collectively. If this evidence could have been presented to each individual technician, we are confident that our membership would skyrocket while that of the other organizations fell to zero.

The main purpose of this meeting was twofold:

- 1st To consider affiliation
- 2nd To plan our course to conform to whatever decision we reached in connection with affiliation.

After hearing the evidence we thoroughly discussed affiliation. You know the result. We voted unanimously to remain independent. We next reviewed our organization

to provide it the strength and flexibility to give full representation to a membership that is constantly expanding. At the present, two additional full time representatives are being added. Provisions have been made to divide the country into six regions with a full time representative in each. These representatives will be added as conditions warrant. It will be the sole business of regional representatives to certify groups who join our organization, to negotiate contracts and to supervise the enforcement of these contracts after they are in effect.

It has been demonstrated that only a radio man having first hand knowledge of the extensive ramifications of the broadcast industry can negotiate and conclude a good contract. This is why NABET contracts are outstanding and provide the highest salaries in the industry. Your representatives are and always will be picked from the ranks of NABET.

The Council lauded the legal work of the law firm headed by Martin F. O'Donoghue. Mr. O'Donoghue is hard working, clear thinking and honest. He is one of the leading, if not the leading, labor lawyers of this country. He is legal counsel for the Brewers' Union which recently defied the autocratic commands of the AF of L, and the notorious teamsters' union. Under Mr. O'Donoghue's legal

counsel, the brewers withdrew from the AF of L and established themselves as an independent Union. Such are the men in whom the present members of NABET have placed their trust. You belong in this union!

A constitutional committee was set up to recommend changes in our constitution to provide for the expansion that is already under way. The recommended changes are being sent to the membership for ratification by THEM.

A new Vice President, Thorus E. La Croix, of Hollywood, was elected to fill the vacancy created by the resignation of Beverly Fredendall who is leaving the broadcast field.

A sliding scale system of dues was established which will be of assistance to those in the lower pay scales and at the same time will not overtax anyone.

These were the major decisions of the 12th National Council Meeting.

During the past week, a contract was concluded with station WRNL, Richmond, Va. Mr. Dunn of the legal staff of M. F. O'Donoghue, concluded the contract. The contract provides for an 8-hour day, 5-day week and a salary increase of \$7.50 per week.

The 2nd regional War Labor Board approved premium pay for the technicians of WHEC, Rochester. This premium pay is on the hours worked from 1:15 A. M. until 6:00 A. M. Also approved were 2 weeks vacation with an additional week added in lieu of five holidays.

The War Labor Board also refused the appeal of the owners of Radio Station WSAY, in Rochester, and ordered the owners to conclude the contract providing a 5-day week, 8-hour day with meal period, an increase in

wages on a 5-year escalator plan, wages to run to \$62.50 per week. The pay increase is to be retroactive to January 11, 1945.

We have petitioned the NLRB to certify NABET as the bargaining agent for the technicians of radio station WGBS in Greensboro, N. C.

Your new National Representative will represent NABET and the technicians of radio station WMMN at WLB hearings to be held in Fairmont, W. Va., early in September. NABET is asking a higher wage scale.

Contract negotiations are planned for September in Louisville, Kentucky. NABET and the technicians of the Louisville Group will be represented by your new National Representative.

It is hoped to conclude the contract negotiations with the owners of WOR during the week of August 12 to 19. Mr. Dunn and Mr. Thropp, Chairmen of Hudson Chapter will represent NABET and the technicians of WOR.

Pending issuance of the Appeals Court order compelling NBC and ABC to negotiate with NABET, a tentative date for negotiations has been set for September 3, 1945.

For information concerning NABET, write or wire the following:

**A. T. Powley, Pres.**

Room 415

930 F St., N. W.,

Washington 4, D. C.

**Thor La Croix, V. Pres.**

1514 Edris Dr.

Los Angeles 35, Calif.

**H. E. Hiller, Sec. Treas.**

364 Elmwood Ave.,

East Orange, N. J.

**C. A. Allen, Nat. Rep.,**

Room 415

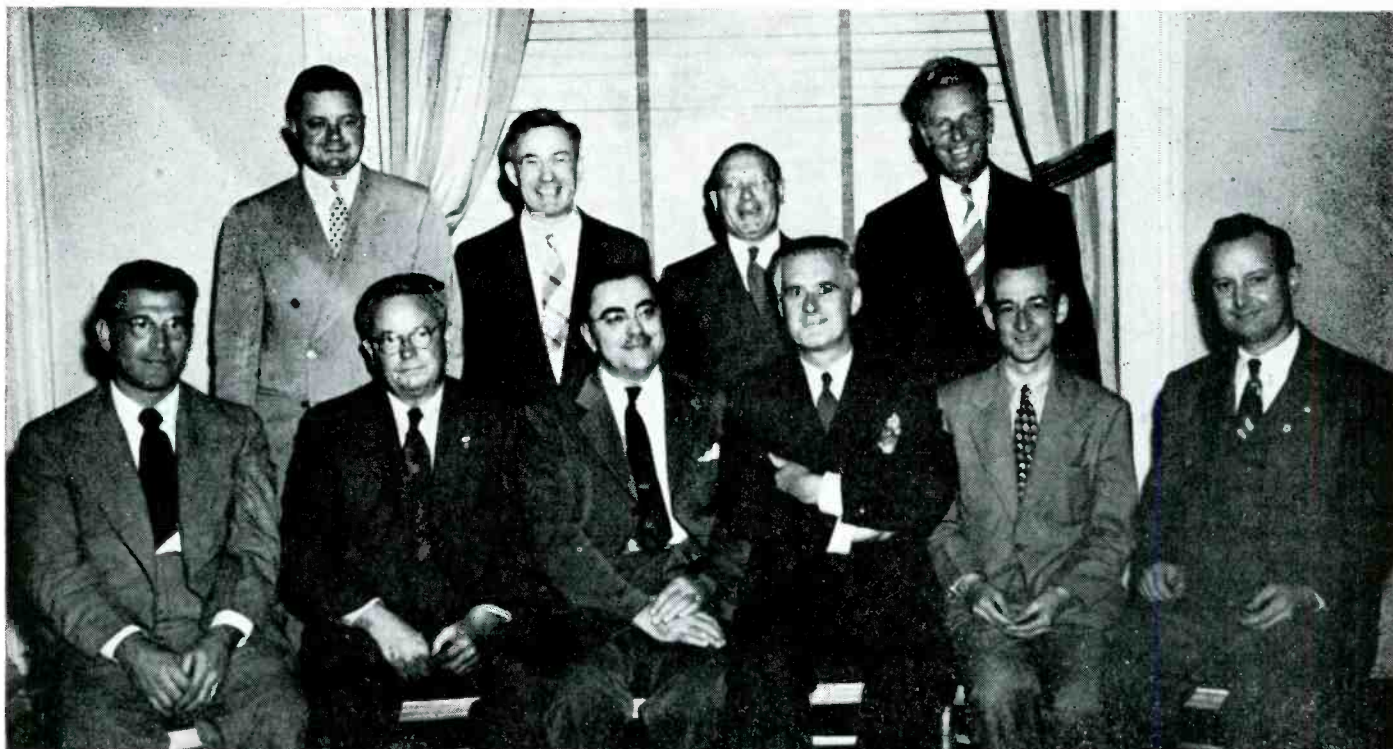
930 F St., N. W.,

Washington 4, D. C.

## New York Chapter Council

(Seated Left to Right) Messrs M. Jacobson, Field; H. M. Gabrielson, NBC Studio; Chairman Harry E. Hiller; D. J. Moloney, Maintenance; Pat Simpson, ABCO Studio; and S. Crabtree, Bound Brook. (Standing Left to Right) A. Thomson, Master

Control; Fred. Lynch, RCA-Victor Recording; L. Pally, NBC Recording; and Charles Francis, WCAF. Absent due to working, or vacations, were Secy-Treasurer C. L. Bennis, and Wm. Mullaney of WJZ.





## NABET ACTIVITY

On Wednesday, June 20, 1945, a bill was introduced in the United States Senate known as the Burton-Hatch Labor Relations Bill. If this bill becomes a law, it will cancel all progress made by American labor during the past 50 years. I ask that each Chapter of NABET write their state Senator, expressing disapproval of this bill.

The Federation of Long Lines Telephone Workers, an independent union, has addressed a letter to the Honorable Senator Ball, expressing their disapproval of this bill. As the sentiments expressed in this letter are exactly those of this National office, I am re-printing the letter for your information.

A. T. POWLEY  
President, NABET

FEDERATION OF LONG LINES TELEPHONE WORKERS  
260 West Broadway, Room 516  
New York 13, N. Y.

Copy to Honorable Senator Burton:  
Copy to Honorable Senator Hatch:

July 9, 1945

Honorable Senator Ball  
Senate Office Building  
Washington, D. C.  
Dear Sir:

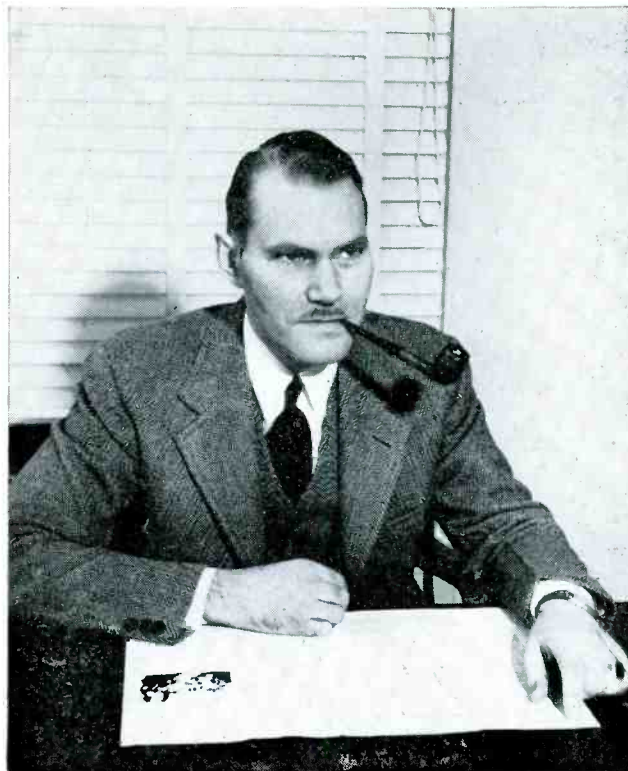
We, the Executive Committee of Branch 7002, Federation of Long Lines Telephone Workers in a regular meeting have unanimously recorded our opposition to your proposed B2H1. Federal Industrial Relations Act. We represent more than 400 long distance telephone technicians in the City of New York. Our sentiments concerning this proposed legislation are herein transmitted to you.

It is our opinion that this legislation is a bald-faced attempt to strangle the free American Labor Movement. With its compulsory mediation and cooling off periods, this bill would place the unions in a highly disadvantageous bargaining position. Its provisions concerning so called interference with management prerogative can be interpreted so that a union would find it impossible to negotiate even petty grievances. It's granting to America's reactionary multi-billion dollar corporations the right to petition for election whenever a union seeks to organize a group of workers is tantamount to a constant invitation to employers to maintain at all times the old fashioned open shop. All that is required is an election before union organizational work is complete.

In our minds, this is class legislation of the worst kind; class legislation of the profiteer against America's toiling millions. It reads to us like a National Association of Manufacturer's brochure and we don't wonder that that organization sponsors such a bill.

This bill would tie the American Labor Unions to the coat-tails of the State. Its implications of compulsory arbitration are ominous and could well turn these free organizations into a sugar-coated labor front. Facism always strikes first at the free labor movement; this bill carries all such implications.

The free trades unions in America are the bulwark of industrial democracy. Such failings as they have are normal in such large mass movements. They can and will be eliminated by an active and intelligent rank and file. Democracy in such organizations



BEVERLY F. FREDENDALL  
Retiring NABET Vice-President, and NABET'S First Honorary Member.

must come from the living organism within; it cannot be arbitrarily imposed.

If true democracy is to prosper, the organizations of the free common man must remain unhampered. Interference from the Employers or the State can lead only to house-broken company unions on a mass scale. We know because we passed through a company union stage.

We regard the Wagner Act, the present National Labor Relations Act, as the magna charta of Labor. Under it the Unions have prospered until they can deal, at least with some success, with the huge combines of capital that dominate the American scene. Under it the company union and the labor spy have all but disappeared. Under it even we, an independant union, have managed to assert ourselves. We want an America where men in free labor organizations can meet their every-day problems with confidence. In the post-war era, this will more than ever be necessary. To have it so, the Wagner Act must remain as it is today.

The right of free contract is labor's right. Labor has lived up to it's obligations far and away much more honestly than has Capital. Only free Labor can meet free Enterprise as an equal. The right to strike and to with-hold labor is as sacred as the right to deal or not to deal in the open market. That right of Labor was won in blood; it must be preserved.

Senator, you have some reputation of liberalism. You have, in the past, received the endorsement and the support of labor groups. Deserve that support, withdraw your name from this undemocratic legislation.

Sincerely Yours,  
EXECUTIVE COMMITTEE, BRANCH 7002  
Federation of Long Lines Telephone Workers  
G. T. Myerscought, Chairman  
Oscar Jager, Vice Chairman

OJ:as



Journal Editor, Ed Stolzenberger, and NABET President Al Powley, toast NABET's continued and greater success!

The New York Chapter Council informally meets the NABET National Council preceding the dinner in honor of the National Council.





# National Association of Broadcast Engineers and Technicians

---

**The only Union  
that is 100%  
Of, By, and For  
the  
Broadcast Engineer**

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## **Attention, Broadcast Engineers!**

- NABET is a dignified union *worthy* of your support.
- NABET is an *effective* union, Of, By, and For the Broadcast Engineer *exclusively*, operated upon and dedicated to the principle that every member has a *right* to know what is going on in the union's "front office."
- NABET is controlled by its *members*; they have the right to vote on all matters of union policy. As a NABET member, you would have the *right* to Okay any actions which your President might take.

Contact any of the following officers for further information

**A. T. Powley, President**  
Suite 415  
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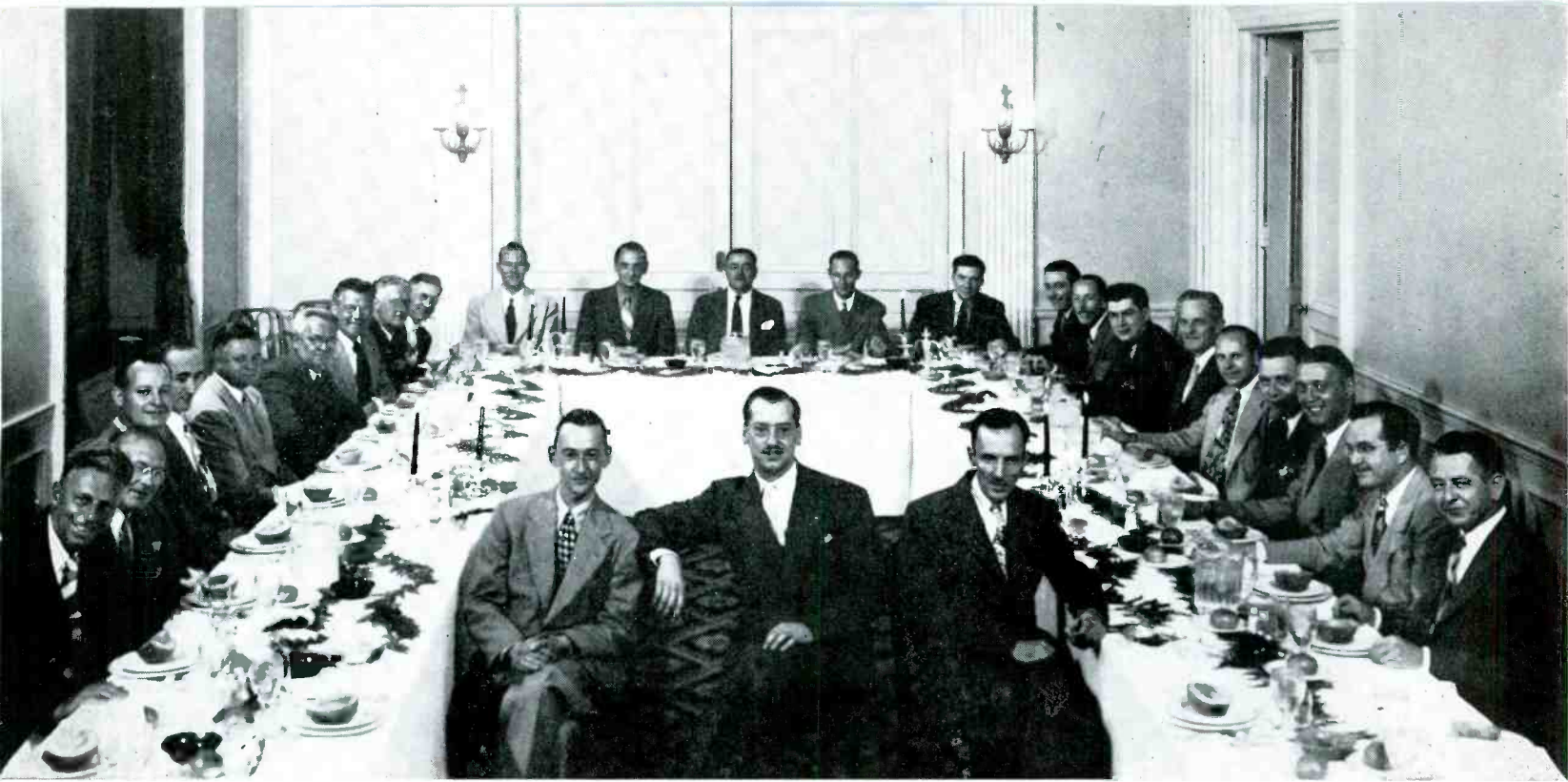
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Brecksville, Ohio

**Roy Glanton**  
5500 Kansas Ave.  
Omaha 12, Neb.

**Charles Thropp**  
141-41 72nd Avenue  
Flushing, N. Y.



(Center foreground, Left to Right) Pat Simpson, New York ABCO Councilman; Journal Editor, Ed Stolzenberger; and Charles Thropp, Hudson Chapter Chairman. (Left to Right, around the dinner table) Charles Francis, WEGAF Councilman; L. Pally, Recording Councilman; S. Crabtree, Bound Brook Councilman; S. A. Blank, San Francisco Chairman; A. Thomson, Master Control Councilman; H. M. Gabrielson, NBC Studio Councilman; M. Jacobson, Field Councilman; D. J. Moloney, Maintenance Councilman; F. A. Lynch, RCA-Victor Recording Councilman; retiring Vice-President and First Honorary Member

Bev Fredendall; President Al Powley; the host, New York Chapter Chairman Harry G. Hiller, newly appointed National Secretary-Treasurer; Hollywood Chairman and Vice-President, Thorus E. La Croix; Washington Chairman and newly elected National Representative, C. A. Allen; Denver Chairman, George Anderson; Mohawk Chairman, Don Morey; Detroit Chairman, A. J. Doran; Omaha Chairman, Roy Glanton; Chicago Chairman, Frank Schnepfer; Cleveland Chairman, Harold Brandt; Rochester Chairman, Charles Snyder; Engineering Chairman, Reid R. Davis; and Baltimore Chairman, Harry Boone.

## New York Chapter Dinner to the Twelfth Meeting of the NABET National Council

The New York Chapter of NABET tendered a dinner in honor of the NABET National Council which was convened in New York from August 2nd thru August 7th, inclusive. The dinner was given at the Hotel Pennsylvania, Monday, August 6th, at eight p.m.

Following the dinner, the host, Chairman Hiller, rose to introduce the retiring Vice President, Mr. Fredendall; Hiller outlined the brilliant NABET career of Fredendall, which was highlighted by his masterful and expert testimony in the now-famous Petrillo-NABET dispute, and which was climaxed by his election to the Vice-Presidency. Fredendall is leaving the broadcast field and NABET; his outstanding work in behalf of NABET was recognized by the National Council when they created him NABET'S First Honorary Member!

President Powley addressed the group, outlining the work and experiences attendant to the NABET Presidency. He stressed that complete NABET success was possible thru unity of thought, purpose, and effort. Thru this unity we will gain the strength necessary to attain our goals.

Vice-President La Croix related some of the problems experienced in the Hollywood area and was enthusiastic in his confidence in the success of NABET thru continuance of its independence.

Statements were also made by Mr. C. A. Allen, newly created full-time National Representative, Detroit Chairman Doran, and New York Councilmen Pally and Moloney.

Engineering Chairman Davis and Hudson Chairman Thropp expressed their desire to entertain the National Council at its next New York meeting.

Baltimore Chairman Boon, Dixie Chairman Dean, Cleveland Chairman Brandt, and Denver Chairman Anderson addressed the gathering in turn. In behalf of Denver, Mr. Anderson invited the next National Council to meet in the "land of natural canyons instead of the land of man-made canyons!"

The after-dinner observations thus concluded, Mr. Hiller expressed New York's pleasure at being host to the National Council, and was applauded by all.—Ed. S.



**“Users of Advance Blanks  
are darned good salesmen”**

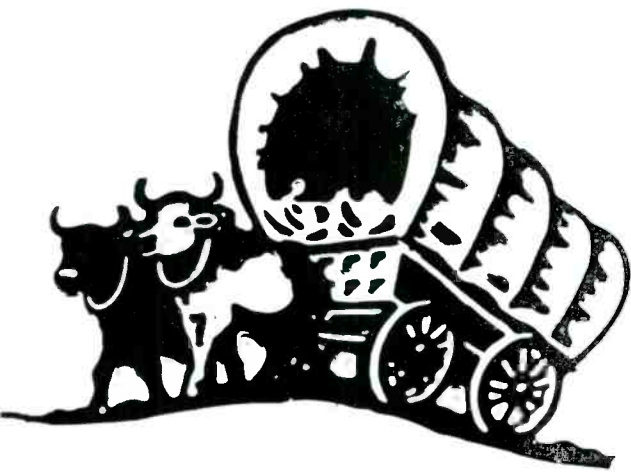


The men who keep buying and cutting Advance Recording Blanks are the best salesmen we could have. They recommend these blanks not because their recommendations are commissionable, but because their common sense and their experience tell them that Advance Blanks are superior in tonal quality, in cutting quality, and in length of service. We feel honored that our product has been worthy of such high and intimate praise. And we promise that in the future, as in the past and present, the well-known Advance trademark will continue to indicate the same high calibre performance, and the same darned good satisfaction.

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And Here's Another Darned Good "Buy"—United States War Bonds



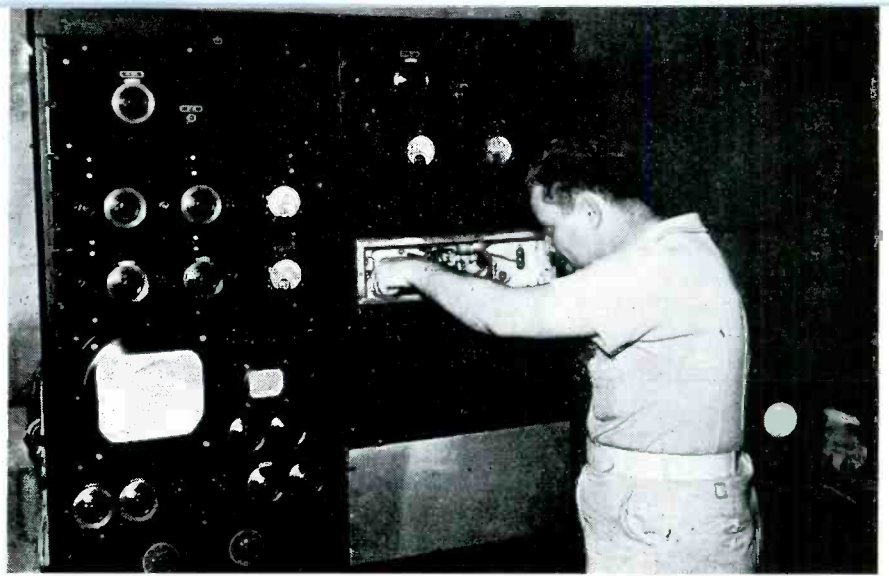
# Omaha News

By Bob Rudd

**T**HIS month we bring you the biography of a man who has such a vast amount of engineering experience, we scarcely know where to start. His name is PAUL F. McDONALD, and though not now with WOW, he is an old friend and an ACTIVE NABET member. He was with WOW seven years before leaving the station in 1943 to take over the Engineering Department of a local instrument manufacturing company.

His career covers the sound movie field, radio, and television—but we're a little ahead of our story. PAUL was born on a farm near PERSIA, IA., Jan. 12, 1907. His family moved to Oakland, Ia., in 1910, where he went through grade and high school. His father started an electrical business and also operated the projection equipment at the local theater. As far back as he can remember, Paul was interested in show business and particularly in projection work. As a boy, he was aggressive and self-reliant, and by the time he had reached the age of eleven, he had learned enough about projection and projection equipment to be classed as a competent movie operator. He replaced his father at the job when other business commitments required his father's attention. He was undoubtedly the youngest projectionist in this part of the country to say nothing of being a pioneer in the field. Among his early recollections is an incident that he remembers well and which was probably the beginning of his interest in sound movies. Someone, he doesn't remember who, came through the town with a portable sound system and asked to be allowed to demonstrate it at the theater. The device attached to the regular movie equipment. The apparatus consisted of a cylinder type phonograph mechanically coupled to the projector and as operator, PAUL assisted in setting up the device and operating it. Remember this was 1918 or 1919. The pickup that engaged the cylindrical record was a carbon type affair whose output was coupled through a stepup transformer and thence to a magnetic speaker. No vacuum tubes were used. The speaker was suspended outside the projection booth. The volume from it wasn't very loud but if the audience was very quiet, it could be heard. It was one of the first attempts at synchronizing pictures with the voice of the actors—and was accomplished at frequent intervals!"

He worked as a projectionist for years before becoming interested in radio in 1923.



Racks containing video amplifiers and synchronizing equipment. Paul is checking part of the apparatus.

This came about when the theater installed a "record player" to replace the old player piano. It consisted of a vacuum tube amplifier, turntable and magnetic pickup—a far cry from the cylinder and the carbon pickup Paul tried some four or five years earlier. This contact with vacuum tubes and the constant maintenance necessary to keep it going, necessitated some study into the fundamentals of vacuum tube theory. The knowledge gained from his movie work and an idea brought about the construction of his first radio. He thought it would be novel to have a radio that could be hooked up to the theater "record player" to entertain the audience before the picture started, instead of playing records. Radio was something new to

tact with Television came while in Chicago, and he saw his first television demonstration there. He at once became interested in the subject, but outside of some study, he had no actual contact with it until several years later.

In 1929, he came to Omaha and went to work installing sound movies throughout Nebraska. It was while he was working as an installation engineer and projectionist at a theater in Schylur, Nebr., that he met Miss Rowina Schlemmer. Miss Schlemmer, a little five foot lovely, was a perfect match for PAUL, who was about five foot three or four. Their acquaintance, as befalls man and maid, turned to love and on May 11, 1933, they were married.

It wasn't long after his marriage that PAUL, as many others, felt the blow of the depression and was out of a job. Returning to Oakland he started up a radio service business. In his spare time he studied radio theory and decided that he would prepare himself for a telephone first license. In 1934, a movie job opened up in Plattsmouth, Nebr., and he and Rowina and their small boy moved there. He continued his studies there and soon passed his Telephone first as well as his Class A Ham License. His call was W9TJSJ. He built a transmitter and placed it on the 160 meter phone band and worked throughout the midwest. His equipment had a professional look and was built rack and panel style.

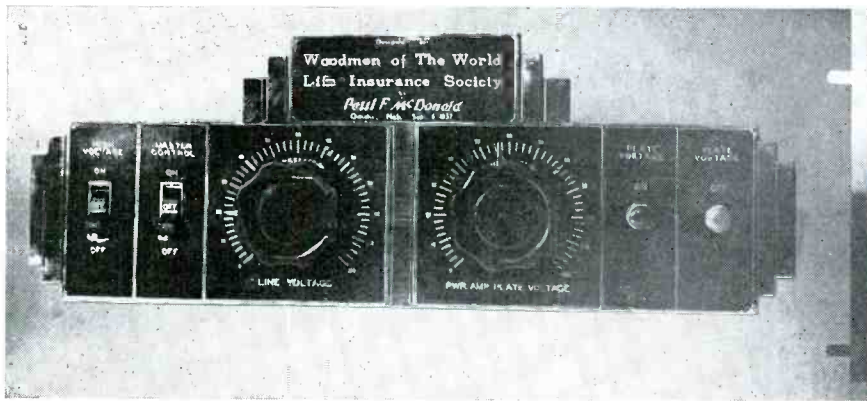
The 1930's were unsettled years. Jobs didn't pay much and it was only natural that PAUL again moved when he was offered a better paying job in Omaha. This time he took over the Amateur Radio section of a radio supply house. Shortly after becoming affiliated with the supply house, Radio station WAAW (now KOWH) offered him a part time job. He carried the load of both jobs through the remainder of 1935. When the work at WAAW was done, PAUL decided that radio operating was the thing for him, and he concentrated on landing a permanent job somewhere. He didn't have to wait long nor go far, for in the spring of 1936 WOW needed an operator and PAUL was hired. He had never lost the yen to delve into television and the desire to do some research into that interesting field never left him. Soon after coming with WOW he got the opportunity he had been waiting for. The station management being open minded, allowed PAUL to start and placed the machine shop and work room at his disposal.



Paul F. McDonald

him but in only a month's time, he built a one-tube set that performed quite well. This was the familiar regenerative detector using a UV 200 tube with grid and plate coil for regeneration and tuning. One of the first stations he received was WOAW in Omaha (changed to WOW in 1926). From then on, radio became a hobby and a sideline and he built and serviced receivers in his spare time. He remained as projectionist at the theater until 1928, at which time he went to Chicago to work for W. E. His first con-

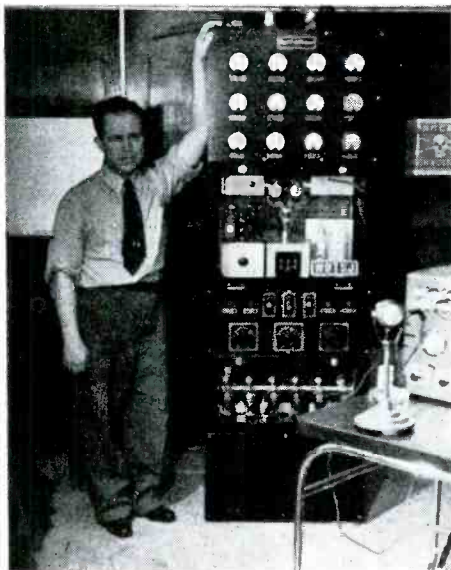




Panel view of Power Control Unit and part of the equipment used in the 100 watt Mobile Transmitter.

This work was done while off shift. PAUL'S aim was to build up an amateur television station and place it in the 2½ or 1¼ meter band. The entire project was his own and of course he bore all financial responsibility—the apparatus then becoming his personal property. He devoted a full year of hard work before the job was finished. He built a wide band transmitter, Iconoscope Camera, and amplifier. Being more interested in the video end of the art PAUL took no immediate steps to place pictures on the air. The transmitter cabinet design was patterned after the old W. E. 6B transmitter and was complete in every detail with overload circuits, resets, etc. It was push button operated. To satisfy himself that the transmitter would do the job when he so desired to use it, PAUL placed it on the five meter band to see how it would perform. Modulating it with voice, the transmitter was heard within a thirty mile radius with 100 watts input. Before he had an opportunity to place pictures on the ham bands, a local radio school bought the video portion to use in training television students. The writer, and several other WOW engineers, saw the apparatus in use at the school and were amazed how well it worked after having been dismantled and

The completed television transmitter first tried out on the five meter band for performance.



then reassembled. The money realized in its sale was used to build another camera and amplifier, more improved and up-to-date. The building of the second camera was done intermittently as other work at the station took up much of his time.

For instance there was the building of a 100 watt transmitter for the WOW mobile unit—but more of this later. When PAUL was finally ready to place the new stuff on the air, the attack on Pearl Harbor brought about the suspension of all amateur radio activities, thus preventing the realization of his dreams.

We mentioned a moment ago that other work prevented PAUL from immediately finishing the work on his second camera and that the delay was due to work of higher priority—that of building a 100 watt relay transmitter for mobile use.

This transmitter was built up in two sections and incorporated all modern engineering features. The remarkable thing about this piece of work was that PAUL designed the grill work and even made the original photos for the engraving of the name plates. He made the original moulds for the grills as well. He is a versatile photographer and took the original photos showing some of the equipment he has built.

In October of 1943 PAUL left WOW to head the Research Department of a local instrument manufacturer then under contract to make instruments for the armed forces. In 1944 The Howard Manufacturing Co. of Council Bluffs, Ia., asked him to become Chief of their Radio Research and Development Department. His job was to design special secret equipment for use in the Army and Navy. While he has never told us what the hush-hush equipment was, we do know that he designed a crystal controlled super-hetrodyne receiver and also put into production the manufacture of a co-axial cable used to feed two antennas simultaneously. He completed his task with the Howard people in June of this year, tired and ready for a rest. His job required night and day attention to detail. He is resting up right at the present time but as soon as he gets back to normal, he plans to seek a position as a Television Engineer. Television is to be his future and we know of no better man in these parts that could serve the industry better.

Concerning his hobbies, he has many. He is an avid reader and his basement den is lined with books of every description. He has an unusually complete technical library, but it is especially complete on the subject of television. He is a skilled instrument man

and spends a lot of time in calibration work. He likes to think up applications of electronics to practically anything. He at one time built some gages to be used in the precipitator at the local gas plant where, we suppose, it is still functioning. He is an enthusiastic home movie fan and especially likes kodachrome shots. Some of his movies on flower displays would have to be seen to be appreciated. He is skilled at tool making and has made a number of special tools for meter work. He loves mechanical drawing and spends a lot of time at his board. We could go on and on but space does not permit.

His family consists of Carole, aged 11, and Bill, aged 4. Bill is just getting over scarlet fever but is coming along fine. He is a lot like his dad—he loves electrical things. Bill has a rubber bladed fan that he plays with and has the habit of removing all of the plugs from the toaster, sweeper, iron, etc. He can take them off but he can't put them back on. ROWINA McDONALD thinks her family is the best in the world but her one complaint is that her husband works too hard. The McDONALDS' recently celebrated their twelfth wedding anniversary and we don't know of any two people that are any happier. Good Luck, PAUL.

#### THINGS AND STUFF

Did you ever have a nightmare? Did you ever "have snakes"? Some of you have and some of you haven't but we will wager you never had snakes that talked! Now just a darned minute, we ARE NOT crazy. We are referring to a dream that ROY GLANTON had not so very long ago.

The dream occurred after an all night maintenance shift. Looking at the wiring must have given ROY the jitters but anyway he tells of the dream he had: He and his son DILLARD were walking along when suddenly out of nowhere a huge snake as big as your arm and empty umpteen feet long ap-

(Continued on Page Thirty-one)

Picture camera containing preamplifier.



# HUDSON

## Chapter News

By Richard H. Davis

**A**IN'T summer wonderful with the 95 degree days, the vacationing swimmin' and Air conditioned studios . . . I wish transmitters were air conditioned . . .

Here's the news from corridor to roof . . . Bill Boher MC and Jim Carter SE are both claiming fish catching championships of the Atlantic Coast . . . Bill is two blow fish ahead of Jim but Jim has caught more crabs . . . hi . . . Mac Reid sweating out all the remote assignments with 5 star generals and troop arrivals adding to his already heavy duties . . . The Hudson Chapter contract is now being negotiated and from all reports will be finished by the time this gets into print . . . Chas. Thropp MC Chapter chairman, F. Garuffi TE and W. Da Costa are members of the committee . . . G. Riley TE on vacation in the Poconos . . . Jim Gavigan FM TE up at Greenwood Lake where the water is fine . . . Jim Carter doing "Queen for a Day" Program His YLF are hounding him for tickets . . . E. Herid SE reports from the ET studios that the Air Conditioning is attracting lots of visitors . . . especially off duty engineers announcers and production men . . . Those American Express Trucks with the high WOR ads on the side have more than once been called WOR mobile units . . . Hi . . . Have you seen the WOR sign in Times Square . . . Driesbach still dripping after that quick shower during one of the Man in the Street Shows with Bob Dixon . . . Its done via short wave with Mikemitters or Walkie Talkie to you . . . Williams ex SE now at Carteret Transmitter . . . Bill Hoffman ex head of Soundeffects back in US after 8 months of driving an ambulance for American Field Service . . . and is he eating . . . New faces . . . M. Silletti sound . . . R. Harper . . . also sound . . . F. Berry maint . . . welcome to Nabet . . . G. Ruckstul to FM from TE . . .

Recording . . . Pappy Hawkins at Southampton for the season . . . Paul Baldwin at Fire Island where his vacation is too short . . . Paul has a Sail Boat and cottage there . . . Silent Simpson back from vacation but not a peep of his activity . . . Danny Conover finished a few phono dates, nice work Danny . . . we oughta put your name on 'em . . . Ray McEntee checked into the Majestic record players and they seem to like NABET . . . could be you know Mac is a strong union rep . . . keep the recording steamed up about Nabet.

More Stuff . . . Don't see much of Jerry Barton now that he is doing the Coco Cola Spotlight Bands program . . . most of them are out of town . . . Ed Franke quite a sailor doing all those SW jobs in NY Harbor. That's all for now, see you next month.

**T**HE vacations are in full force in the Hudson Chapter with Bill Boher, MC, reporting in from Chatham, Mass., where the fishing was swell. A card from George Robinson, Supvr. TE, from Manasquan, N. J., Sam Morse, Sound Effects, reports in from the Poconos in Pa., Eric Herud, SE, back in after a restful



Taken at WOR Transmitter Carteret during recent visit to transmitter by all departments and offices . . . Lunch and refreshments served by Transmitter Staff . . . Out door games including, baseball, quoits, badminton and archery were available . . . Visit included a tour of the transmitter plant and towers. A good time was had by all.

three weeks. His main hobby being the care of his Victory Garden. It rained quite a lot. Hi Hi. Jim Gavigan, FM, back after a stay at Greenwood Lake. N. J. G. Riley, TE, back from Sussex County, N. J. His pet "beef" is that he could see lots of big trout but couldn't catch one that he could keep! Dick Borner, the expert "wirer-upper" of Maintenance, back after several weeks, ill with a bad back. No more soft ball for Dick this year.

"The Man in the Street," with Bob Dixon, a "Walkie Talkie" show, with Riley, TE, Stanford, TE, and Franke, TE, operating the receivers and transmitters. Sevaskie, SE, Driesback, SE, and Sutcliffe, SE, assisting in the operations. We are promised a picture of the operation. It uses a "Mike-mitter" operating in the UHF range, received by a car equipped with an ultra-high "Cue" transmitter, and shipped to MC via land wires. The locations are at various parts of New York City. A large crowd attends the spots whenever the gear is brought out. Krank Shave Kreme is the present sponsor at 6:15 p.m.

Ed Franke, TE, had a chance to put his war-time experience to good use when he and Paul Killiam, Special Features, covered the floods in North Jersey, around Patterson. They used a film recorder to make a number of good pickups. Ed, as you know, covered "D" Day for Mutual, using similar equipment.

The tragic accident of the B-25 bomber crash into the Empire State Building was the climax to the lousy weather in July. The B-25 almost sheared off WBAM FM antenna at 444 Madison Ave., just before the crash. Stan Lomax, sports reporter for WOR, who was on Fifth Avenue at the time, and Ed Peterson, air condition man, who was on the roof at 1440 Broadway, saw the crash! Less than a minute, the flash was on WOR air and recording equipment was on its way to the crash location. And to think, a couple of hundred feet higher, or left or right, and it would just have been just another low flying plane.

RECORDING. Bart Simpson, very busy these days, with recording auditions sandwiched between "over-the-counter" platters. We see Pappy Hawkins around as he dashes from platter date to date. Ray McEntee besides being very active in supporting NABET as we all do, contrary to published "pipe dreams," has a new low noise level recording in which he uses a rubber stylus. We are still waiting for some pictures from that camera of "Pres." Yeomans, echoed by Danny Conover. Paul Baldwin looks good

after that vacation out on Fire Island.

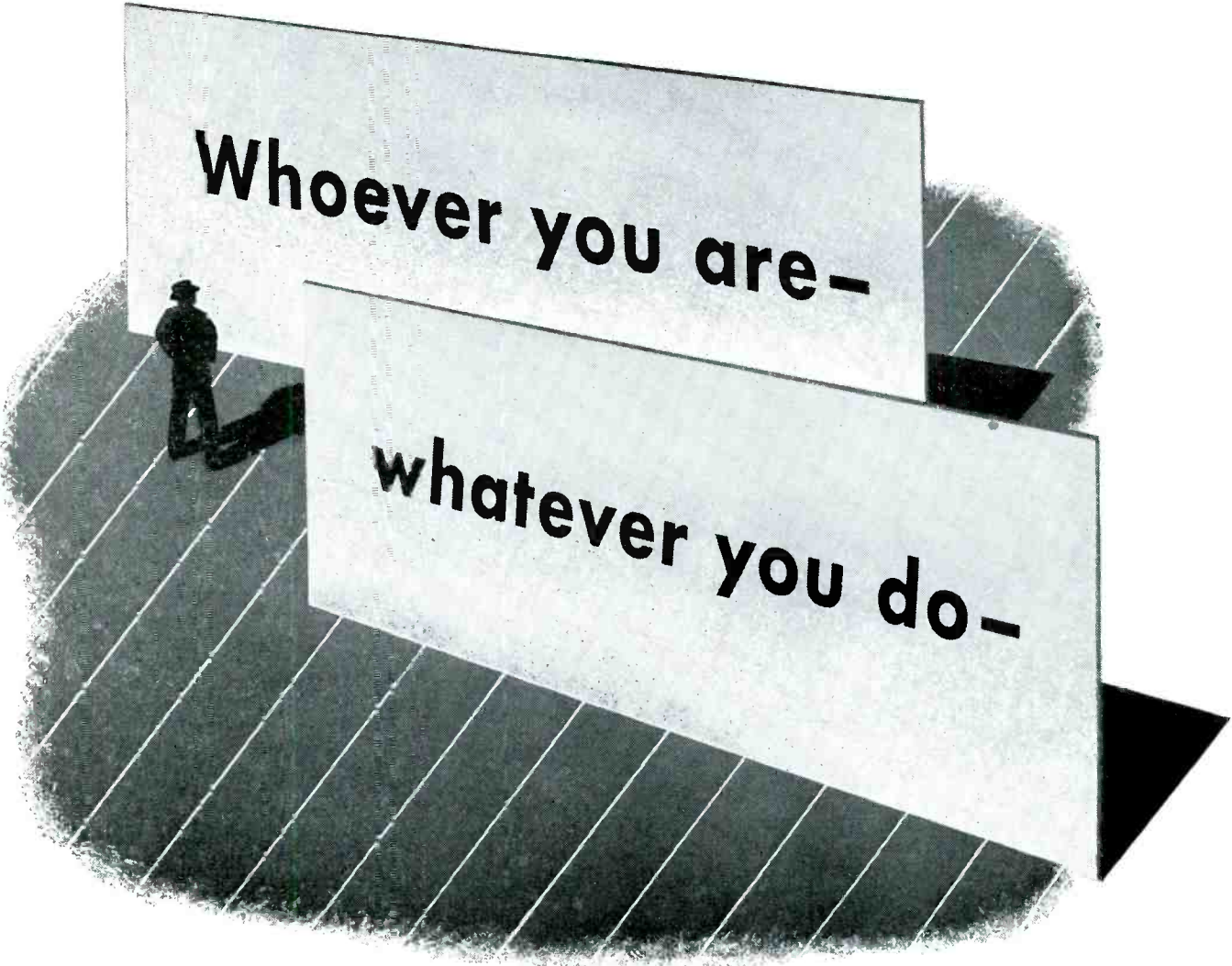
That's all for now, and we have to blame the mail for the column missing last issue (which appears just preceding this current item). Sorry boys.—73.

### TO THE "GANG" FROM KIT

(Upon her departure from that fabulous inferno of clatter and patter—the WOR RECORDING platter factory)

Whirling discs and noise ungodly,  
Programs heard and mixed most oddly.  
Pandemonium dashed with mirth—  
No place like it on this earth.  
Dashboard weepers, tunes, auditions.  
Blondes with legs and high ambitions.  
None more wacky, none more rank  
Than puns by R. E. Lee and Frank.  
Copy, copy, rush! rush! hurry,  
Jack will get it out, don't worry.  
Corey, grab your hat and coat,  
You're picked to cover that remote.  
Mighty words the world that shake  
We capture on an alum plate.  
Our mission—Keep the platters turning  
While Tokyo and Berlin are burning.  
Those engineers, they've got the stuff,  
I cannot build them up enough.  
High of goal; their aim sublime:  
To beat that Yeomans' overtime!  
"P. B." 's our staunch defender 'gainst the  
office accusations,  
Bob D. a lad of humor with his staff im-  
personations.  
There's Dan the Scully doctor, and Cassa-  
nova Jim,  
And Ralph the self-styled cynic, but we're  
all on to him,  
With Lanny and with Ginger We Start the  
Day aSmiling,  
Then learn from old gal Delafield how to be  
most beguiling.  
J. Anthony would cure men's ills  
With Carter's Little Liver Pills,  
And Superman can take back seat,  
Our engineers have got him beat.  
Petrillo better keep in step  
While we've got Mac as union rep.  
Some memories I'll always keep.  
Like those of Henry and the "beep".  
No day complete without a hug  
From ever effervescent Doug.  
Sound and fury, all hell breaks loose  
When General Bart turns on the juice.  
I'll miss the laughs; I'll miss the noise;  
I'll miss each of "my" thirteen boys,  
And though I rise to "twenty-four,"  
My heart gets out at the eighteenth floor.





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whatever you do—

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# from HOLLYWOOD . . . By Norman Dewes

VACATION . . . Balboa . . . Gals . . . visitors . . . changes . . . houses . . . coffee . . . Christmas . . . clubs . . . Stork . . . facts . . . 'n STUFF

WELL . . . we're back in the saddle again . . . after a lovely, lethargic, sublimely sopoforic three-week idle idyl at Balboa-by-the-Sea . . . (for Sea read see . . . details later . . . ) it all seems like a beautiful dream now . . . our vacation . . . and toward the last we almost had ourselves convinced of the relative unimportance of coming back to work at all . . . but then Mable brought us to face with grim reality again with the reminder that she would be on hand with hand out for check next payday and for us to please be prompt as she needed "some things" . . . we never find out what these "things" are, but they invariably run into two or three figures, even tho they're intended for only one . . . but then Mable is the Only One, so . . . we're back in the saddle again. Or really UNDER it . . . altho she sometimes rides bare-back, but ALWAYS with SPURS yet . . .

WHILE . . . we were in the blissful state of suspended animation, it seems that the G. F. sat down and pounded out the gossip for last month, which was VERY NICE and we THANK you, dear . . . hear tell she did alright, too . . . so now maybe Mable's got herself a JOB and from NOW ON we'll simply sit in our love-seat and DICTATE our stuff like the OTHER big writers do . . . wonder why we didn't THINK of this long ago . . . Oh MAY-Y-Y—BLE . . . come here, honey . . . we have a PROPOSITION . . .

WELL . . . as we sit here at our typewriter, pounding out our column . . . here's what news there is this month . . . our SPIES didn't do too well and it's a little HARD to keep up on things when yer AWAY somewheres and don't much care whether what's happening or isn't . . . or did it . . . or ARE you . . . (we read this back to ourselves and it SCARES us . . . must have left something BEHIND at Balboa . . . ) anyway, we DID manage to keep up on our HOME work, tho . . . usee we're studying Navigation, to prepare for the Day when we can buy a BIG boat and sail away to the South Seas and leave the cares of civilization behind and living on coco-nuts and love and . . . by some ODD coincidence, just as our vacation started we reached the point in the course where it's about Celestial Navigation and the study of Heavenly Bodies and brother, Balboa was REALLY the right locale for THAT . . . what with sleeping and taking OBSERVA-

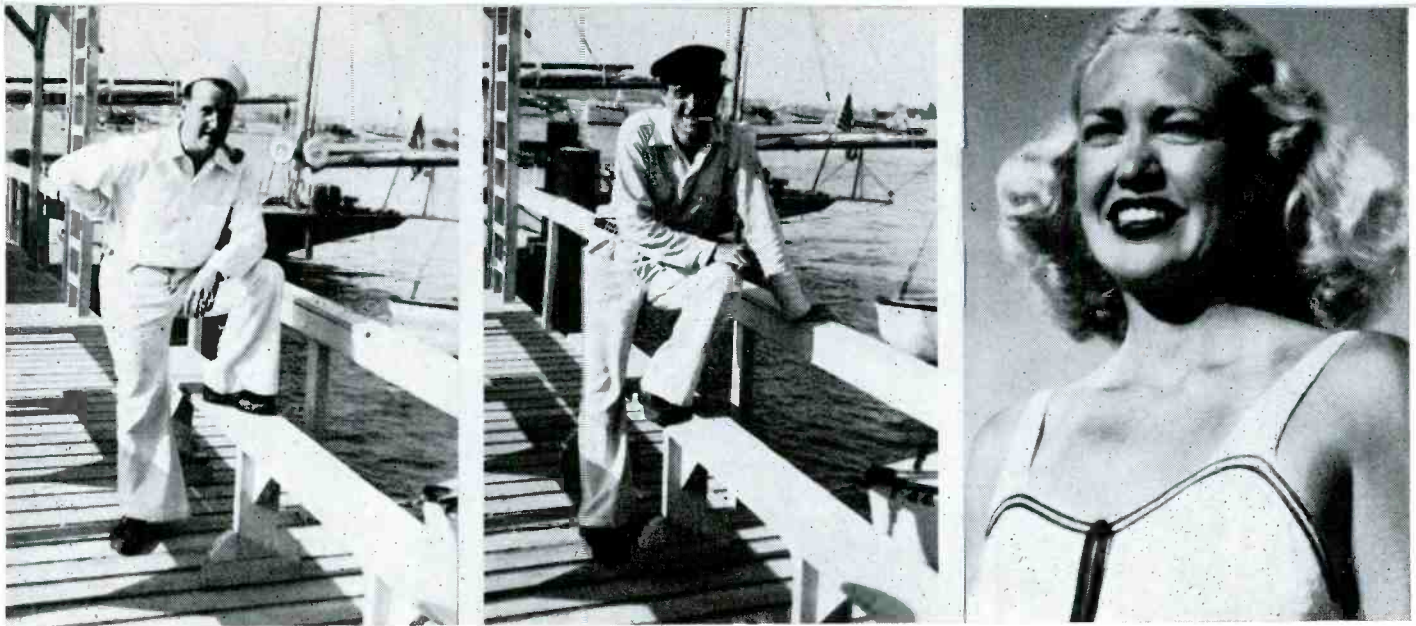
TIONS, we didn't get much else accomplished . . . found that it was TRUE about the rumored shortages of some things down there, tho . . . noticed a DEFINITE shortage in materials for ladies' ready-to-were? . . . and the gals were cooperating splendidly in conserving the goods by adopting these new-fangled diaper suits and halters . . . (they callum HALTERS weguess becuz when you seum coming down the beach, they HALT you . . . ) also the Navy callsum "spyglass suits" becuz you can see the NAVEL manuevers . . . get it? Yakity, yak yak yak . . . sneff, sneff . . . the dang things are really a MENACE to navigation, tho, cuz wewere sailing along in our boat on the bay and along comes a CREATURE on a paddle board in one, but BARELY, and we LOOKED (natcherly) to see if wewere going to hit here and there was a loud CRASH and frantic blowing of whistles and bells ringing and it turned out wewere sailing thru the FERRY boat which crosses the Bay to the Island . . . veddy embarrassing . . . as for OTHER scarcities, there seemed to be plenty of seegars and laffing water and other ESSENTIALS of life and the markets were abundantly supplied with foodstuffs and provender, and we ESPECIALLY noted an abundance of GRAPEFRUIT . . . all large, round, firm and joosee . . . and our friends who came down to visit all remarked on this fact, with continual comments suchas, "Say! Didjoosee THOSE . . . !" and "Hey, fellas, get a load of THESE . . . !" We kept telling 'em that there was no ROOM for a whole load of the things, and that anyway, Mable would OBJECT, but they insisted that they would FIND a room somewheres . . .

SPEAKING . . . of visitors, wewere HAPPY to entertain the Mr. and Missus JOHNNY EILERS and the Mr. and Missus ROBERT McGAUGHEYS among OTHERS and a good time was had by ALL, as can be deduced from the enclosed snepshots, kindly taken by friend ALAN CONRAD of Riverside with his new Kodak "Medalist," which incidently is a HONEY of a box . . . ALAN also shot the shot of the G. F. when she had the glamour turned on and was projecting it, right over our shoulder at some guy standing BEHIND us . . . we are enclosing it also, so OUR READERS can see what Mable lookslike . . . PLEASE don't drool on the COLUMN . . . we could go on for PAGES about

(Left) Three of a Kind—(Left to right) Johnny Eilers, ABCO MS; Norm Dewes, ABCO SE; and Bob McGaughey, ABCO SE. (Center) "Adonde" (The Boat). (Right) Bob "Legs" McGaughey, ABCO SE.







(Left) Johnny "Whimpy" Gilers, ABCO, KCCA Maintenance Supervisor. (Center) "Ye Ed" Norm "El Ropo" Dewes, ABCO SE.  
(Right) Mable—Mabel.

the many experiences of these characters while we were attempting to teachum to row and sail boats, etc., but it can be surmised what iknd of a TIME we had from their ATTIRE, no? There was never a SOBER MOMENT, beleevus . . .

NATIONAL . . . Noticed a notice sent around by SID STROTZ that CURTIS PECK has been reassigned as Chief Engineer up at KPO-NBC San Fran, with acting Chief GEORGE GREAVES moving up to Asst. General Manager of the joint . . . congrats, gents . . . we would also like to welcome back to OUR midst one MORT SMITH, who was threatening to COME BACK as of last month . . . MORT sez it's nice to BE back, after a rather hectic several years with the Office of Strategic Services . . . will try to get some DETAILS of his experiences for next time. OTHER changes include shifting of our former Miss EVIE RAFF and secretary to Director of Recording LES CULLEY and NOW Mrs. HAL LEA over to RCA-Victor offices as secretary to JIM BAYLISS in the Pressing Department . . . whatever THAT is, and it sounds like HAL should LOOK OUT, maybe . . . it seems also that HAL has a BRIDE now, but no DOORSTEP to carry her over, not having found an apt as yet . . . must be dommed uncomfortable sleeping on that motorcycle. Speaking of HOUSES, Bre'r JENSEN is having onehelluvatime building one, what with contrary contractors, rationed materials and whatnot . . . every day a new crisis, demands for more dough, and heaven only knows where it will end, sez BOB, who has wired the joint for Sound, Television, Facsimile and Muzak . . . all the AC wiring is co-axial cable, to save on transmission losses and light bills and the local I. B. E. W. Local sends a stand-by man out every day, since the NABET charter doesn't cover such work . . . (Thank GAWD, huh, fellows . . . ) there is a 110 pair cable running to each room, with MCD in the Projection Booth, where BOB plans to hold nitely showings of his print of the Westinghouse movie; admish 15 cents, with free dishes and bingo. Speakin' of WIRING, there are some new riggin's from FIGGIN'S Diggin's this month . . . Prof. FIGGINS (Maint. Super) and his MTCE's as they callum in Noo Yerk have dreamed up some clevah little Headphone Monitor amps, which are self-contained and mount under the announcers' Delites in the studios and you can plug in one to four sets of headsets on extensions, with individual volume controls and the whole deal is normaled to the studio output but brought out on jacks in the mixer patch panel so other things can be fed into 'em . . . with these in use, it is no longer necessary to callup MCD for an isolation amp when you want stage headphone monitoring for the ork leader, sound man, etc. This relieves the Master Minds of ANOTHER little chore and pretty

SOON they won't have ANYTHING to do in there but sit 'n THINK . . . can just SEE them evolving in a few years to nothing but a huge BRAIN mounted on a plush-lined pedestal, with long tentacles or feelers reaching out to push the buttons and instead of calling in by phone to check in yer show, THEY ring YOU up on the TELEPATHY . . . or buzz you on the Visephone and LEER atcha with their single big EYE . . . (alright, so maybe we SHOULD go back to Balboa, so is that BAD . . . ) Shorts 'n Opens . . . FOSTER, SE, lugging a big sack of TUBES around from his Scott receiver . . . the thing has 23 or so and GEORGE is testing 'em in batches . . . reports very enjoyable vac down fishing in Ensenada, Lower California . . . caught some nice ones in the surf but ran out of BAIT and hadda come home . . . the missus did alright too, sez GEORGE . . . OBORN, RE, buying a new car . . . no details . . . Senator BREARLEY, SE, lugging around the BIGGEST brief case you evah saw, full of his Radio Institute courses 'n papers . . . looks like he was on his way to or from Washington . . . LEW WINKLER, ME, making cawfee for the fellows nites, and thereby HANGS a TALE, which we simply MUST tellyuh . . . it SEEMS that LEW belongs to the group of coffee fanciers who INSIST that the ONLY way to make java is with COLD water . . . and for some time has been making himself positively OBNOXIOUS with his insisting that yuh gotta use COLD water. So one nite he volunteers to brew up a batch of moka the life 'o which you never tasted BEFORE. and proceeds to go thru the whole routine with the Silex, starting of COURSE with COLD water and sitting down by the heater to see that everything goes correctly. P.etty soon (as pre-arranged) he gets a rush call from ART BREARLEY in one of the studios to come quick and fix a mike or something, and while he is gone WETTELAND in MCD and MAC EDIE the Nite Super hastily pour out the cold water and fill the jug with HOT water. Well, LEW comes back, suspecting NOTHING, and the coffee boils and he pours and proceeds to RAVE about how GOOD it is and that this is the ONLY way to make it, etctc and after about 15 minutes of this they TELL him . . . well, you never heard such CUSSIN' in your LIFE, and NOW if you want coffee on the nights LEW is on watch, why-y-y-y you can—ing well make it YOURSELF . . .

AMERICAN . . . several weeks ago on the ABC toastmaster Don McNeil of Chi's Breakfast Club came forth with a Christmas in July party one morning for service fellows over here on leave who couldn't be home for last or maybe next Christmas, and we thot it was a VERY nice idee but LITTLE DREAMED that it could happen to US, but sure ENUF on July 31st SANTA came around in cute little glassed-in ENVELOPES, bringing a GIFT to each and every ABC'er who was one for 6 mo. or more . . . a neat little CHECK for Christmas . . . the last-year promised BONUS, finally Okayed by the OPA or the WPB or SOME.

BODY . . . and forwarded forthwith from NY . . . after DEDUCTIONS, there was enuf left to invest in War Bonds, buy a dwess for the Little Woman or PERHAPS purchase a coupla things for yerSELF . . . THANKS, Noo Yawk, and lettus hope that ABC will CONTINUE to stand for "Always Bonus Christmas" . . . wonder what NBC stands for, say the fellows on the OTHER network . . . Plans have been completed and officers elected for the recently organized ABC Employees Club, composed of workers of the Hlyd Division, including KECA . . . club will devote efforts of various to-be-ann committees, AND a small assessment to "social, recreational and sports activities," on a non-profit basis . . . we've NEEDED a deal like this for quite a while and are looking forward to the throwing of the first THING . . . how about a BEACH party, fellows . . . we know a good SPOT for it . . . Shorts 'n Opens . . . JIMMY BANKS buzzing the Parking Lot in his new squad car . . . traded in his former sheriff's sedan for a HANDSOME Cadillac ditto . . . no less . . . and goes FLYING ABOUT looking like Dick Tracy on a hot clue . . . wonder how you can get to AFFORD a chariot like THAT . . . must check on what SHOWS young BANKS is doing . . . McGAUGHEY down to visit us at Balboa and we take him over to the Yacht Club for a beer and he sees HUMPHREY BOGART there and IMMEDIATELY challanges him to a game of CHESS, having read in the papers where BOGIE is an international CHAMPION, among OTHER things . . . some NIOVE, wewouldsay . . . BOGIE looked a little STARTLED and sez to Bob, "No-o-o-o-o, you look TOO GOOD for me . . ." and backed AWAY . . . we didn't SEE any of this, being too busy looking at MRS. BOGART, better known as LAUREN BACALL . . . WHO would want to play CHESS, is all WE got to say . . . incidently, BOGIE is quite a SAILOR, and wins most of the races with his Albatross class sloop.

KECA . . . big gnues from McCadden Flats this issue is that the STORK finally made a LANDING at LA CROIX FIELD, delivering a lovely little lady whom THOR and MARION are going to call CHERYL ANN, so she can be nicknamed "SHERRY" to go with "TERRY" who is two . . . SHERRY was 7 lbs., 14 oz. at 1:03 pm on July 21st at the Good Samaritan, and has lots of nice dark hair and looks like THOR, which is NICE . . . also nice that she arrived in time for PAPA to make the NABET Convention in NY. JOHNNY EILERS, Maint. Super, has completed the FINAL details in moving from Sunset 'n Vine to Ditto 'n Highland, by cleaning out his locker in the lounge . . . you should SEEN what came out of that little compartment . . . all manner of catalogs and dope sheets and enough SMALL PARTS to build a small station . . . no WONDER we had difficulties while installing the new studios . . . JOHNNY had all the parts in his LOCKER . . . TED CROSBY, SE, popping about on his one-lunger corn popper he INSISTS is a motorcycle . . . sez he gets 120 miles to the gallon on it, and keeps it locked up with a combination lock on the chain, which since he works nites, he can't see to open without striking MATCHES . . . some nite he is going to find the combination alright and take off like a robot BOMB . . . DICK SCHROETER, SE, also has a motor . . . ex-Army job . . . and these add TWO to the Engineering Fleet, or maybe it's one and a HALF . . . this SCHROETER character is quite an accomplished guy, too . . . he can sing "Adios Muchachos" and other Spanish ditties CLEAR THRU, in their native tongue . . . has his order in and expects to take delivery on one of the new post-war civilian JEEPS in a few days . . . and then is going deer hunting in the thing . . . if WE had one, wewouldgo DEAR hunting in ours . . . Haven't heard from the Transmitter Boys for quite awhile . . . guess CHIEF BETTIS and his Braves are keeping the pot boiling out there . . . will have to get together with those fellows for lunch soon . . . on THEM, of course . . . when yuh entertain the PRESS, yuh ALWAYS buy, don'tcha??

AROUND 'N ABOUT . . . saw where the FM Radio and Television Corporation of Riverside has been granted a charter for 100 grand to operate two FM and two Television stations, as key outlets for a western FM and Video net . . . Corp., headed by one W. L. Gleeson who operates ABC affiliate KPRO out there and who is WELL-KNOWN to several of us, also plans to operate a group of radio set stores in that vicinity . . . both FM and Tele

is progressing quietly but rapidly out here on the Coast, and wewill round up the info and give out with a quasi-technical report on the situation soon . . . dodged across the Street for a sandwich at BRENEMAN'S the other day and they operate now an afternoon and evening cocktail lounge, with snacks, and the uniforms the BAITRESSES wear are SUMPIN' . . . not much, but a little here and a little THERE and NOTHING in between . . . very CUTE . . . and then for dinner we dropped into the Bowling Alley and they had nothing left on the menu but STEAK . . . they talked us into one, and it wasn't BAD, after we went out and bought a HUNTING knife . . . Things we AIN'T KNOWING until RECENTLY . . . the NBC Chimes which are heard over most NBC stations to end each program have an interesting past and origin . . . we haven't space for ALL the facts, but one WE didn't know about is the original significance of the three notes sounded . . . musically, they are G, E and C, in the scale and purportedly were selected to identify the General Electric Company, when several of the original network stations were GE owned, including WGY Schenectady and KGO in San Fran . . . Meredith Wilson composed a very catchy swing tune arranged around the Notes, too . . . and then maybe you have heard the gag record one of the big record companies released to LIMITED circulation shortly after an NAB convention several years ago and called "We're Very Fussy on the Radio" . . . a guy sings it and at certain VERY APPROPRIATE times you hear, "Bong, BONG, Bong . . ." snamf, snamf, snamf . . . then it seems that ships at sea use the time beeps heard half-hourly and hourly on ABC as time signals to check and set their cronometers by . . . they are usually easily received and sometimes are the only sources of time checks which can be heard . . . and THEN we discovered just LAST NIGHT that most ears of corn usually have twelve rows of kernels . . . we CHECKED on this by eating some nine or ten ears of fresh corn for dinner . . . g'wain 'n TRY it and youwillfind that if you eat 'em at the rate of 3 rows at a time you'll usually go across 4 times . . . if you've got a BIG MOUTH, you can take it 4 rows at a time and have to go across only 3 times to circle the cob . . . INTERESTIN', huh . . . BCNU.



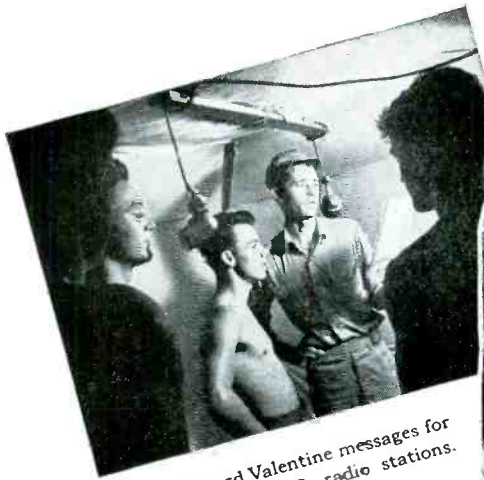
Announcer Dick Roll dropped in to see his friends at WTAM the other day. Dick is just as jovial and happy-go-lucky as ever. The first thing he wanted to know was whether or not we still play penny-ante? We answered in the affirmative and Dick lost no time proving he's still the Copper Czar of the Round Table. Dick recently returned from France where he spent several months in a hospital. He expects to be out of the Army and back at the microphone in the not too distant future . . . and we hope his expectations materialize. He's the only announcer we ever worked with who can smile at a microphone at 4:30 A. M. Left to right: Announcer Joe Mulvilhill, Dick Roll, Engineer John Disbrow, and Engineer Barney Pruitt.—B. P.

Lawrence C. F. Horle, New York radio consulting engineer, has been appointed Chief Engineer of the Radio Manufacturers Association, Engineering Department. This has been announced by Dr. W. R. G. Baker, Director of the Department.

In this capacity, Mr. Horle will be responsible for the management of the Department, including the RMA Data Bureau, and related activities.

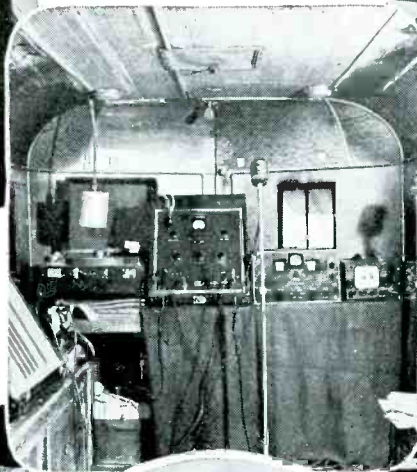


Photos courtesy of  
U. S. Marine Corps.



Marines record Valentine messages for broadcast over U. S. radio stations.

Trailer-studio houses and transports Presto equipment in South Pacific.



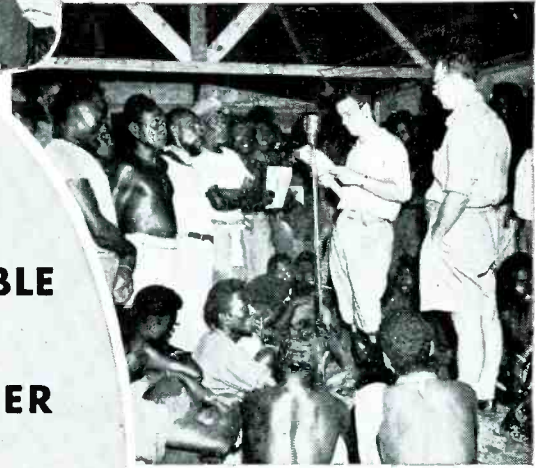
Presto microphone picks up on-the-spot interview with fighter pilot.



Presto transcribes battle experiences during Bougainville offensive.

**THIS  
IS WHY YOU  
HAVEN'T BEEN ABLE  
TO GET A  
PRESTO RECORDER**

Because Presto equipment has been right there in the front lines with G.I. Joe...to support his strategy with actual combat transcriptions...to support his morale with recorded messages of his voice for the folks back home...and to give America a permanent, unprecedented sound document of a world-at-war.



South Pacific natives serenade U. S. listeners via Presto recordings.



Presto recordings carry Marines' greetings to their families at home.



At the front, Presto is standard equipment with the Armed Services.

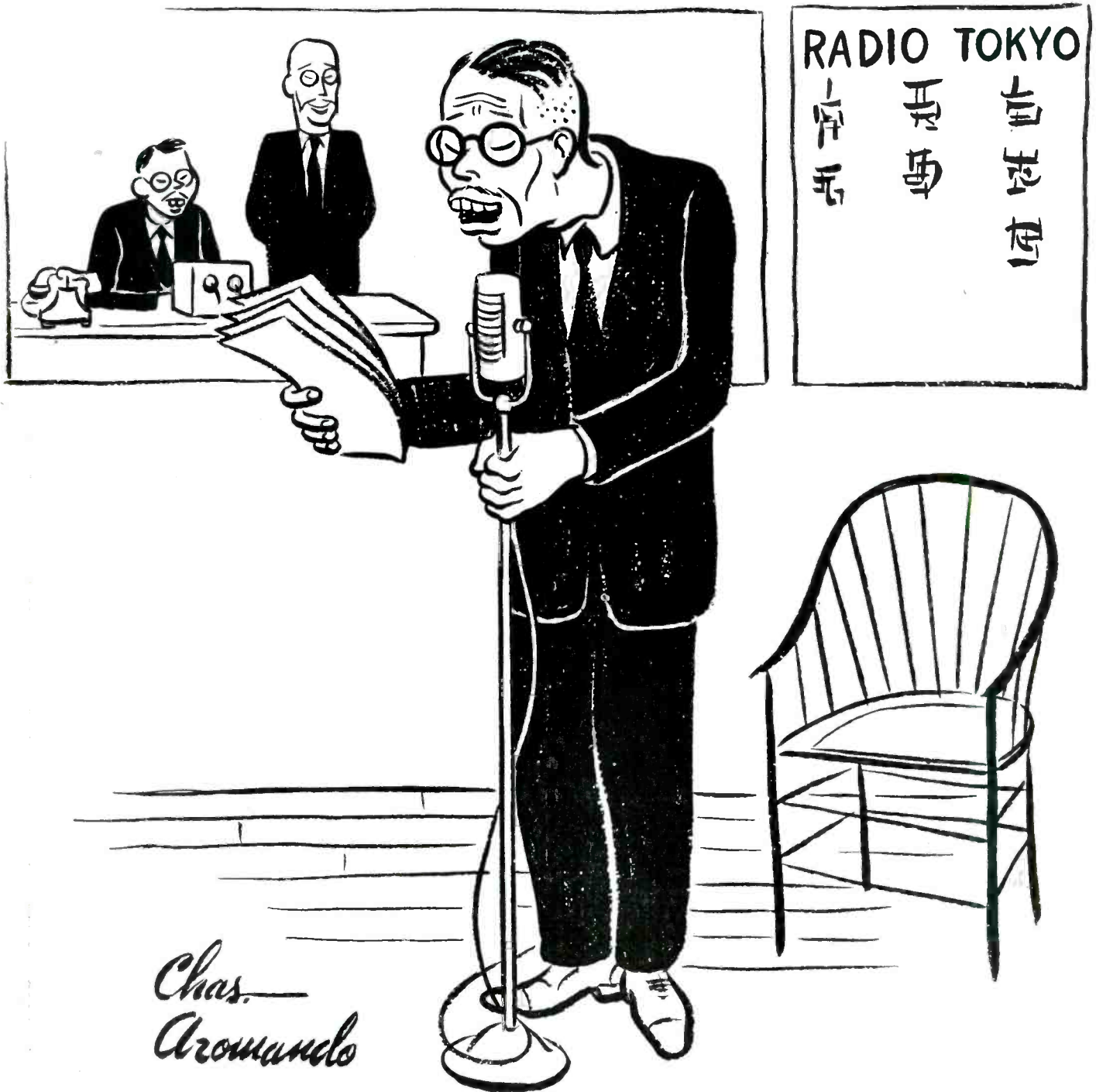
# PRESTO RECORDING CORPORATION

242 West 55th Street, New York 19, N. Y.

Walter P. Downs Ltd., in Canada

**WORLD'S LARGEST MANUFACTURER OF INSTANTANEOUS SOUND RECORDING EQUIPMENT AND DISCS**

BROADCAST ENGINEERS' JOURNAL (SEPTEMBER, 1945), PAGE SEVENTEEN



“ . . . this is Radio Tokyo broadcasting by special permission of the FCC! . . . First Flashie!—Japan lost war because of Scanty Diet which was Minute at first, later becoming Insufficient! So sollie!”



# Page Nineteen of the August Issue

By Bert Pruitt

**S**TOLZENBERGER'S Journal was a wow in August. It was a sensation! It was colossal! It was tremendously terrific... not to mention embarrassing!

How did your wife react to the August issue? Did she approve or disapprove of our Editor's idea of art? And since I've questioned you as to your wife's reaction I'll return the favor by telling you what happened in our happy little bungalow on Marlowe Avenue.

We received the August issue on the 1st... that's quite a happening in itself, so let's congratulate our Long Island Editor for his successful struggle against Father time during the past twelve months. And since we've congratulated him let's follow up with a few plain facts. As I was saying, we received the Journal on August 1st. I arrived home about 4 PM and my wife says: "The Journal arrived today!"

"Fine," says I, "anything in it from Cleveland?"

"Don't know," she said, "I've been busy all afternoon... I'd have more time to read if you'll hang your coat and hat in the closet instead of..."

"Dear," I coo'd, "I once read a biography of someone, and I believe it was Chick Sales, and according to the author you get high blood pressure if..."

"Wasn't he the fellow who invented the mowing machine?"

"Not that I know of... if I'm any good at history he's the fellow who went over Niagara Falls in a cracker barrel way back in the eighteen..."

"Why?" interrupted my wife.

"Dear," I said, "where'd you say the Journal is?"

"In the front room," she said.

So I went in there, picked up the Journal, sat down, placed my tired old dogs on a footstool, leaned back and gave a happy sigh that's always given by one when he picks up the Journal. Well, I turned a page or two and what do I see but some timely comments from Brother Allen. Anything that's timely and to the point is good reporting from any office, so we'll look forward to the September issue with Allen in mind.

Well, this is the 8th of August and I haven't seen my copy of the Journal since the afternoon of the 1st. The story is complicated and I rather suspect it will become more complicated and confusing with each line I write.

I just said this is the 8th of August so we'll have to go back to the first for that's when I sat down in the chair to read the Journal. I turned a couple of pages after reading Allen's comments. Those two pages took me from one world into another. In the time it takes to read two pages of the Journal I travelled from Allen's comments to an Island that could well belong to the Greek Empire. The waves from the sea of Greek Letters and Numerals swished madly on the sandy shores of Eddie's August Edition. The only thing that I recognized in this strange land was the name "Platz" near the top of the page. Platz doesn't sound like a fellow who hails from Athens or Carthage, but the world is full of things that don't sound

reasonable, so I decided not to waste much time fretting about the sound of Platz's name. That being the case, let's change the subject from Platz's Greek to Stolzengerber's Art.

My eyes were sort of weary and droopy after my gallant attempt to struggle through Platz's pages which fairly dripped with the mysteries of mathematics. I turned to page 19, then all of a sudden I realized I had left Athens and Carthage far behind. There was nothing suggesting Greek symbols in what looked back at me from page 19 in the August issue. No, sir! Greek symbols don't have those kind of eye lashes! And you didn't need to know much about higher mathematics to realize you were looking at one of the niftiest H. F. Oscillators you'd ever seen on any page.

Well, boys, I've been in radio a long time and I've seen all kinds of oscillators and all types of chassis, but I'll have to admit it took Stolzenberger to come up with a piece of equipment that makes one sort of forget such things as ND-10's and PDQ-5's. I got to thinking about such things as frequency and oscillation and spark gaps and... well, a lot of other things that Eddie the Editor would frown at if I should write them down and let a three-cent stamp carry them from Lakewood to Long Island. My concentrating powers seemed to be working to perfection... which, in this case, proved to be a point that greatly exceeded the safety factor. I was unaware that my wife had been calling me to come to dinner for the past fifteen minutes. Furthermore, I failed to see or hear her when she walked into the living-room. I almost fell out of my chair when she suddenly exclaimed:

"Say... I thought this Journal pertained to engineering!"

As a rule I never stutter. I used to go to school with a fellow named Kaywood and he stuttered every time he attempted to say Kaywood. His lower jaw'd start flying up and down like the pistons in your car. This'd go on for quite some time then all of a sudden his jaw'd stop and before he realized what was happening he'd say: "Kaywood" as clearly as Milton Cross could say it. Well, my lower jaw started flapping when my wife shot that question about the Journal at me. I was trying to say "Eddie Stolzenberger" but for the life of me I couldn't get that tongue-twister out. And if you question the veracity of such a statement I suggest you try to say: "Eddie Stolzenberger" sometime when you are stuttering or just after you have taken a plunge into a spring-fed pool of water.

"Clothes must be rationed!" My wife didn't stutter when she made that statement.

"Dear," says I gazing at page 19, "that's art on a high level... and art has been indicative of refinement and culture since long before the Roman Empire soared to..."

"I don't care how it soared and I'm not interested in anyone's Empire!" She punctuated that statement by stomping her foot against the floor so I knew she was serious. "Furthermore," she said, "where was Millie when Eddie put that picture in here?"

I asked her if she's forgotten the time they were out here in Cleveland. She said she

hadn't... And furthermore I still get a headache every time someone mentions Tom Collins!"

"Well," I said, "don't you recall how Millie admired the artistic designs on the walls over there at the El Dorado? And did you hear Eddie say a single word against those patriotic damsels that did the kickin' in the floor show?"

"No," she admitted, "but his eyes were bigger than the port holes in the Queen Mary... and whatever gave you the idea those kicking cows were patriotic?"

"Well," I began, "isn't it a fact that we're supposed to conserve on dress material as well as soldering lead during these trying days of war? Isn't it a fact that cloth is scarce? Isn't it true... or is it... that the O. P. A. expects us to show our patriotism by sharing in everything? Just take this picture here on page 19... What if Eddie had cloaked that lovely figure in one of those dresses your dear old grandmother wore to the Ladies' Aid Meetings back there in Cadiz, Ohio, in the late eighteen hundreds? Isn't it a fact that the material used in just one of your Grandmother's dresses would have made three thousand complete outfits like this one here on page 19 with enough left over to make a sign to place over a football booth down at the O. S. U. Stadium in Columbus, Ohio? And don't you think the O. P. A. owes Eddie the Editor a letter of congratulations for showing how we can solve the problems brought about by the shortage of dress material... Isn't that better than running from store to store trying to buy enough polka-dot material to make yourself a dress that drags on the sidewalk and will possibly be the cause of your falling down and breaking a leg? What would the O. P. A. think of such foolishness while our men are out there eating K Rations in the far flung fox holes..."

"Give me that Journal!" She gritted her teeth and grabbed the August Issue like a seal taking a herring.

And that's the last I ever saw of the August Issue. I still don't know whether or not Cleveland got any publicity or not in that issue... And to play safe I've asked Stolzenberger to send future issues to 815 NBC Bldg. if they have any pages (19) in them.

## Pickups

- A pickup" to some engineers
- Suggests a nemo trip;
- A "pickup" to some others means
- A shapely pair of hips!

## The Announcer Says:

"I mispronounced that word and I  
Become the ether goat,  
And all because a little frog  
Came up inside my throat!"

Which leads us all to shed a tear,  
Though we could surely goad  
By saying, "Mikeman you're in luck,  
It could have been a toad!"

—Bert Pruitt



Post-war radio "handie-talkies" and "walkie-talkies" will enable you to take your radiophone anywhere you go!

**"I'm telling Helen about this—right now!"**

You're a hundred miles from "nowhere" and you just landed the finest trout in the world! You've simply got to tell your wife (and the boys) back home.

So you turn on your "handie-talkie," signal the nearest "receiving station," get put through long distance and r-r-r-ing!—she's on the other end!

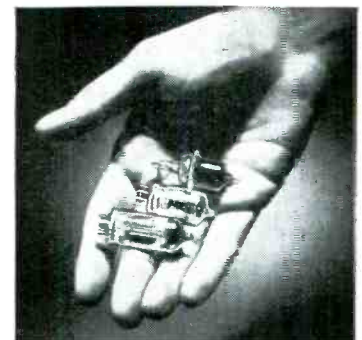
Fantastic? Not at all! For after the war such instruments can be made—about the size of a camera—weighing as little as three pounds—with a range of many miles!

Similar equipment is going to the Allied Armed Forces right now—made possible by

miniature electron tubes developed in RCA Laboratories. These miniature tubes are the size of peanuts and acorns! Actually, with these tubes there can be radios the size of a cigarette case or a lady's compact—with "big radio" reception!

Similar research goes into all RCA products. And when you buy an RCA Victor radio, television set or Victrola, you get one of the finest instruments of its kind that science has achieved.

Radio Corporation of America, RCA Building, Radio City, New York 20. Listen to the *RCA Show*, Sundays, 4:30 P.M., E. W. T. over the NBC Network.



**RCA miniature tubes**—another example of RCA pioneering in radio and electronics. The "handie-talkie" and smaller radios were made possible through the development of these tubes. Moreover, much valuable space can be saved through their use in larger sets.



**RADIO CORPORATION of AMERICA**



# This Report Comes to You by Way of San Francisco



**T**HE first and most important item is a correction of a statement made in the July issue. Mr. Russ Butler was not installed as the new chairman of the San Francisco Chapter. The cause for this error was your correspondent's vacation because that is when it all happened. Mark Dunnigan is still our chairman.

By  
Jack  
Van Wart

The membership of the San Francisco Chapter has a new Secretary-Treasurer. Mr. Syd Blank has taken on the task and will represent the Chapter in New York in the absence of our Chairman.

San Francisco engineering reports the return of Curtis D. Peck as Engineer-in-Charge effective August 1, 1945. George Greaves, who has been acting Engineer-in-Charge, will become assistant to the General Manager of KPO-NBC.

A very interesting pre-convention meeting was held last week. The meeting was well attended and there were guest speakers from the ACA. They outlined the aims and plans of their organization and answered the members' many questions.

We welcome eight new members to the



**George Greaves, former acting engineer in charge of KPO and now assistant general manager of KPO-NBC.**

San Francisco Chapter. The new members are: Wm. C. Osborne, Wm. B. Joyner and Noel A. Martin of the shortwave transmitters at Dixon; Rodney Hawkins and Elma Oddstad in the NBC studio group; Dale Childs Gordon in the Radio Recording Group; and J. Wallace Downs, formerly of Chicago and now a member in good standing of the San Francisco Chapter, KGO transmitter.

The San Francisco Chapter of NABET has its own bulletin board now. We have initiated a policy of "Information" for all members. All correspondence between the National and Local office is available for the membership as well as mimeographed copies

of the minutes of the meetings for the benefit of those unable to attend. We are also sending copies of the minutes of our meetings to the other Chapters which we think is an excellent procedure and suggest that the other Chapters follow a similar pattern since we are all members of the same association and are both interested and concerned with what other members are doing.

Your reporter took on the task of building an additional radio for the home and really got into trouble. Being very confident of the capabilities of his memory, he attempted to depend upon it for right socket connections of the various tubes used. When completed, the set refused to function as planned. After the investigation of several helpers, Don Hall finally detected the trouble. There must be a moral there somewhere. See if you can find it.

The men who reported back from vacation look well tanned and rested. Lee Kolm, CR, spent part of his time at the beach in Santa Cruz and the rest of the time painting, gar-



**Curtis D. Peck, who returned to KPO as engineer in charge. Mr. Peck was recently discharged from the U. S. Navy.**

dening and generally trimming his house. George Dewing, SE, enjoyed a couple of weeks of relaxation at the Russian River, according to the picture post card received from him. Bob Shover, RE, reports that he spent all but four days of his vacation right here in San Francisco.

Tom Watson was undecided upon the place to spend his vacation when he left last week. He was contemplating Monterey for one choice. Andy Mitchell was heard saying that he would spend some time at Lake Tahoe. These are all predictions now and will be history when you read them, so a guy can't win.

Guy Cassidy reported back from his vacation to say that he stayed home and worked on his house the whole time. Sounds very uninteresting and confining for Cass.

We were sorry to hear that J. Alan O'Neil spent part of his vacation as a victim of the flu bug.

Tommy Watson has been doing a lot of traveling of late. He was up in Salem, Oregon, for a "Truth or Consequences" pickup last month. When he came home, he was sent up to Columbia, California. The occasion for this junket was a pickup of two programs honoring the dedication of this old Gold Rush town as a State Park by Governor Earl Warren.

Tommy Watson had quite a time on his return from Columbia City. It seems that the NBC Mobile Unit got pretty tired and broke down. Jefferson was called to the rescue and towed Tommy home. When the engine was examined, it was discovered that there was a cracked head. While in Columbia, Tommy reported that he saw Oscar Berg who was vacationing up there with his son who was on a leave from the Marine Corps.

Elma Oddstad used to be the secretary to the Engineer-in-Charge before she became a full-fledged engineer and has been very busy since her admittance to NABET. She takes the minutes of the meetings in shorthand and then later types them out for the Secretary. The latest chore she has accepted is typing of a stencil copy for mimeographing of the Contract and Constitution. Way out here in San Francisco, we find it very hard to get a copy of the above mentioned documents, so Elma's efforts will be greatly appreciated.

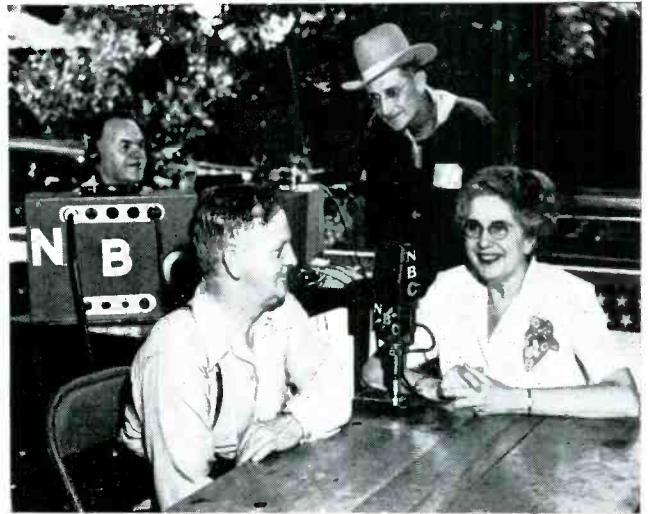
We had the pleasure recently of meeting Steve Hobart of the Hollywood Master Control who was visiting in San Francisco during his vacation.

We in San Francisco enjoyed reading the comment in Norman Dewes' column concerning that program on Sunday sponsored by a mattress company and titled "A Layman's View of the News." We were wondering whether it was more than coincidence.

Since Mr. Fuhrman received a little publicity in the last issue (which we think was justly earned), there has cropped up several "Annie Oakleys." One of these goes so



Barbara Lee, pretty KPO-NBC songstress, heard on "Minstral Melodies," "Barbara and the Boys," and many other programs emanating from San Francisco. A very charming challenge for the title of "Sweet-heart of the Broadcast Engineer!"—Ed. S.



Tom Watson seems to be enjoying his work in Colombia, Cal., where he was sent to handle the ND-10s, etc., for two of KPO's local shows. Dorothy Rankin of KPO's Woman's Magazine of the Air is shown during an interview.

## Feedback from KGO

By Ken Martin

far as to claim that in competition over a year's time, shooting once a week, he failed only twice to puncture the bull. Pretty good shooting, Francis.

The trend still seems to be for the engineers to move out of the City proper in favor of living in one of the neighboring communities. Syd Blank is seriously considering a site in Marin County. Russ Butler continues his residence in Oakland although he has bought a home which he and his bride are enjoying very much. Russ has become involved in many new and interesting problems which just naturally accompany such an adventure.

We would like to report that the scalp treatments that Norman Tapper is taking seem to be producing some visual results. (This plug should be worth something.) Even though there is only fuzz resembling duck down, that's more than there was 1 year ago. If you don't believe me, ask Tapper. (P. S. Make sure he stands in the right light or you won't see what I am talking about.)

Harry Puccetti still "picks" all the winners and writes their names on a piece of paper. But it would seem that then is when he makes his big mistake. Instead of laying the old mazuma on the line at the bookie, he merely hands the list to Andy Mitchell and then after the race is over and his selections pay off, he runs over to Andy in Recording and says, "See, how do ya like the pickin'?" I don't get it. It seems that Andy does the same thing, but he is the quiet type and no one ever suspects him.

It is rumored that the stork is hovering over the Engineering Department.

With that prediction, we close. C. U. L.

**J.** WALLACE DOWNS, TE, our expert on draft boards, is eating again! That's a sure sign he successfully lulled the board into another deferment—for a while there it was touch and go and the furrows in the brow of J. Wallace were deep enough to conceal a Sherman tank.

**GEORGE IRWIN, TE,** pops in from his vacation all decked out in his Sunday clothes and sunburned. Immensely flattered until we learned he was only after more ammunition—his check. Geo. says those ten days at Yosemite went so well he hurried back and took off for Hobergs for another five days. No relatives on the ration board, either.

**JIM BLANCHET** took off for nowhere in particular in a huge cloud of dust. At least he wasn't divulging his destination "to no cub reporter" but by cracky, we'll nail him when he gets back and is all tuckered out. You see, we know ALL about Jim and those trips to Portland. It's been going on this way for years. He wants word rates when he makes news.

**KUDOS** to **HERBERT KRAMER,** our retiring NABET Councilman for his masterful job the past year—a rising vote of thanks. Taking over the post at which Herb so nobly acquitted himself, this reporter can only hope to try to equal the record of this worthy predecessor.

**MYRON CASE** is busy thumbing through some very heavy books and drawing sketches of rhombic antennas and directional arrays preparatory to putting some wire in the air for our station receiver.

**GENE "HOME FORUM" NICKELS** is still diligently searching for homestead site and paraphrasing a local advertisement, says he's seen ALL the "dirty deals in dirt," by now and concludes he'll probably have to work sparetimes in the shipyards if he buys on today's market.

This reporter is still gasping and pop-eyed following a trip to Dixon to inspect OWI transmitters up there. **SOME** rig!

### INTRODUCING:

Eugene Everette Nickels, TE, KGO Oakland, California.

Life began for "Gene" Nickels five years ago—if you've read Pitkin's book, you can figure out Gene's age very easily with a slide rule. Married, no children. "Gene" came to "GO" on May 1st, 1944, with a staggering record of 26 years in communications work. A briefing of his service reads like the history of communications. An early telegraph operator for Western Union, Postal Telegraph, Railroads and Press Associations starts his career.

Early in 1919, "Gene" was a Navy Dept.  
(Continued on Page Twenty-four)



C. V. NICKELS





# MASTER audiodiscs

The excellence and consistent quality of Master Audiodiscs gained wide acceptance for them prior to the war. Now, the demand for these recording blanks, from which pressings are made, has increased more than fourfold. And here are a few of the reasons:

1. They give fine results with either the gold sputtering or silvering process.
2. Like regular Audiodiscs, the thread throws well, and there is no annoying static.
3. Cut under good recording conditions there is no audible "background scratch".
4. It is easy to ship them safely from recording studio to processor.
5. Especially important—there is no increase in surface noise from recording time to processing—be it a few minutes or many months.



Master AUDIODISCS are manufactured in three sizes on stretcher leveled No. 2 aluminum recording sheet—12", 13¼" and 17¼" for 10", 12" and 16" pressings.

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# KFI—Los Angeles News

By  
E. F. Wilmshurst

**P**ARAMOUNT Television has acquired a new hired hand and KFI has lost Ray Moore. It is with regret that we see Ray move out, for he is as much a part of the organization as the old towers atop Tenth and Hope Streets. Mr. Anthony will just have to fix his own television receiver from now on.

And as if losing our Chapter-section Chairman wasn't enough, we have to wave adieu to our Secretary, Ed Starr, who has resigned to take up his old line of endeavor. Ed will go east shortly in connection with a manufacturer's representative enterprise.

Wayne Johnson has presented a paper to the IRE membership together with a demonstration in our auditorium. The equipment he has developed is in connection with his method of using instantaneous frequency sweeps in showing the overall curve as used in observing phonograph playback amplifier performance.

Did you ever dive for abalones? No, I don't mean the East River kind . . . I mean the ones found only on our Southern California coast and the Mexican coastline. I managed to take a day off during my vacation (you'll know what I mean if you've ever had two kids at home with chickenpox) . . . and in the company of a friend and an inner tube out of a B-17 airplane tire, I drove to La Jolla, California (80 miles south of Los Angeles). Equipped with glass diving masks, car-plugs, tire irons, tennis shoes and a generous supply of band-aids, one merely tows the inner tube out through the surf and anchors it. Then you swim over the likeliest spot . . . take three quick breaths . . . blow out a long breath and down you go about twelve feet. Tennis shoes and sweat-sox help guard your ankles from sharp barnacles. . . . You have an aluminum "tire-iron" fastened to your right wrist with a strip of rubber. . . . If the tire iron gets caught in heavy kelp or between rocks, one can slip it off the wrist and thus avoid getting drowned. The abalones are on the under sloping side of the larger rocks . . . when you see a rock about two feet in diameter or larger . . . snag onto it, or the base of some seaweed. Slip your iron under the abalone and pry him loose . . . If you see a lobster (crawfish) peeking out from behind a rock . . . take him along, too. A two-foot eel might look you over . . . I'm told that if you stare back casually he, the eel, won't bite you . . . that I wouldn't know . . . the one I saw is probably still being haunted by the look he saw in my eyes. . . . After you get your abalones loose, it's a good idea to go up for air . . . you can swim over to your anchored inner tube and dump them into a sack attached to the tire . . . or, like I do, slip them in the front of your trunks. . . . Don't do like I did the first time. . . . Place the shell against your skin. . . . I got it the other way around and after I got ashore I had to use a tire iron to pry one off my stomach.

And now . . . my recipe for the day . . . Abalone steaks! . . . Slip iron under shell . . . give a quick sliding twist and detach abalone from his shell. . . . Then one must sorta peel him, . . . cutting away his digestive tract and other appendages. . . . When he is

whittled clean the result should be a hunk of abalone about the size of one's fist . . . it slices into three nice steaks . . . then you must put a steak on a flat board . . . it's good to place cloth over and under it . . . then start pounding it. . . . Not too hard! . . . Not too light! . . . Try to strike a haappy medium! . . . In time the abalone steak will get discouraged and sorta give in. . . . It is now ready for the pan. . . . A very hot fat! . . . Dip the steak in egg and your favorite crumb and slip it into the sizzling fat . . . about two minutes on each side. . . . There, you have it! . . . It is either the most delicious tender morsel ever, or the toughest piece of leather you ever tasted. . . . My darling wife and I have been cooking abalones for 83 years, and have never had a failure. . . .

The Fishery Chef.

Carl Sturdy has seriously injured his back vertebrae and will have to spend the next six weeks in a special bed. Carl works at the KFI transmitter. . . . A recent addition to the studio staff is Bennett White. . . . Richard Taggart has returned to the fold and is back in our mixers. . . . Of course, Schroeter, Crosby and C. Cook have moved over to Highland with KECA studios. Chas. Young succeeds Ray Moore as maintenance supervisor. Tom Darling is now in maintenance. Curtis Mason, Chf. Engr. is back home after a swing to the east coast. Chas. Lampkin is our new NABET KFI secretary, taking over from Ed Starr, resigned. New Councilmen for this section recently elected are John Sutcliffe, Richard Bull and George Tokar. Our recording department is being groomed to enter the local field of competition and we look for plenty of business. As the last line is written, a note comes to us that the courts have ruled against Petrillo and in favor of NABET.—PAU.

## San Francisco

(Continued from Page Twenty-two)

Radioman on Goat Island (Now known as Yerba Buena—which doesn't mean Goat Island at all and it's located in SF Bay.) 1921 found him working the old U. S. Air-mail when first organized, utilizing 2KW arc sets, stationed at St. Louis, Salt Lake and Reno for a year.

In February, 1922, Gene obtained his first Radiotelegraph ticket and made his first marine run on the old Pacific Mail SS Colombia on an intercoastal run to New York. From the start to 1940, Gene has operated at various times on 44 other ships, alternately with marine coastal station assignments at WSA, WIM/WCC, KPH, KFS and KTK. During the 1931 to 1933 period some broadcast work was sandwiched in at KFWI on Twin Peaks when Jeff Jefferson, now San Francisco Supervisor, NBC was Chief Engineer and a short turn at KOH in Reno, Nev. But at that time BC work was too tame for our Gene and he went back to "he briny. During his "traveling" days, Gene managed to visit all continents on his jaunts. His last ship was the Tug Sea Lion, engaged

in towing a dredge to Monterey. Gene vividly describes this last trip as the absolute bottom rung after some of the coddling he was accustomed to on the luxury liners and adding insult to injury the little tug made him seasick, so when the Sea Lion hit the dock again, Gene made a pierhead jump and has never gone back to salt water.

Following this period in his checkered career, "Gene" took up automatic telegraph work at Globe, and Press Wireless where he was TE and RE and worked out for the Signal Corps at the Presidio in San Francisco. This is topped off with two years as instructor of Radio Communications at San Francisco Junior College, Samuel Gompers in San Francisco and Central Trade School in Oakland.

Genial Gene is an excellent watchmate, full of yarns and savvy and has actively identified himself with the radio labor movement since earliest inception. We're proud to have him on our staff. This is the first of a series INTRODUCING.

## From FCC Release

83945, Aug. 2, 1945

The Federal Communications Commission announced today that the application of Powel Crosley, Jr., transferor, and The Aviation Corporation, transferee, for consent to transfer control of The Crosley Corporation, licensee of Radio Station WLW and holder of other radio licenses, had been granted by a vote of 4 to 3.

The decision followed oral arguments heard from counsel for the parties and after an earlier hearing upon the application.

Voting in favor of the granting of the application were Commissioners Porter, chairman, Jett, Denny and Wills. Commissioners Walker, Wakefield and Durr voted to deny the application.

Opinions reflecting the views of the majority and minority in the matter will be issued within a short time.

The Commission was unanimous in its views that some of the problems presented by this case require legislative determination and the opinions subsequently to be issued will be transmitted to Congress with specific recommendations for new legislation.

## From FCC Release

83957, Aug. 3, 1945

It amended Section 1.5 of its Rules of Practice and Procedure concerning records of the Commission open to public inspection. In general, the rule results in opening for public inspection ownership data of licensees, but network and transcription contracts, as well as financial data of licensees, will not be open for public inspection. In this connection, the Commission announced that it is giving consideration to expanding its annual statistical report so that the report will contain certain financial data with respect to the operations of individual stations.



# DETROIT NEWS . By Dave Stewart

**I**T LOOKS like this guy Stolzenberger is ganging up on us; it has been bad enough trying to get this gab column out once a month, then he comes along and advances the deadline again!!

Vacation periods continue to disrupt our working schedules, and at the moment we write this, Roger Ellis is down around Boston somewhere, getting caught up on all that sleep he has lost since getting back on the day shift.

WWJ's studios are rife with all kinds of rumors these days, pertaining to the forthcoming 25th Anniversary program, on August 20th, the stories sound good, and no less than eight people have called us into secluded spots in the building to let us in on the big surprise about having a big party at the expense of the management, and if the affair lives up to expectations, it should supply good copy for this column for the next six months. Of course, there will be a super colossal air show featuring Morton Gould conducting a fifty-five piece orchestra and Walter Hampsted, the great Shakespearean actor, as narrator, on a one hour show from eight to nine o'clock on August 20th; plus a daytime show with Mischa Kottler and the Concert Orchestra featuring the great Viennese chanteuse Greta Keller.

Joe Brendel's egg business gave some wag at the studios a fine chance to pull a fast one on our studio supervisor. It seems I'll Albert bought a coupla dozen eggs from Joe, and foolishly left them on his desk while he went upstairs to Studio X—during his absence this joker saw the chance he had been waiting for—he ducked downstairs and next door to the Club Adams where he purchased a half dozen hard boiled eggs—took 'em back to Al's office and switched them for the fresh ones—We understand that Al's ever loving wife, Peggy, liked to break her arm trying to crack those eggs in the frying pan. Al hasn't even mentioned it either.

Then there's the story about our gastronomic Chapter Chairman—Alex Doran—

Alex had just come off a spell on the nite shift, and like every one else who works to sign-off, had developed a system of getting everything turned off in a systematic and step saving manner. The usual procedure being to leave pulling the switch on the 12 volt relay system till you passed said switch, on your way out. Well, it seems Alex was deep in thought the first day he wound up his day shift. He disappeared back of the bays in M.C.R. to get his hat, and being a wee bit absent minded at times—he went through his regular routine—(we think)—anyhow as Alex went out the door—program failed—and after the usual scurry about the joint with handfull of fuses—Ole Lapham finally found that the battery switch was neatly pulled—Alex still maintains he didn't pull it—musta been those damgremlins again.

Steady Eddie Boyes is back to work after three weeks up at Higgins Lake where he acquired a swell sultan and looks all of 40 years younger, Ed, you know, is one of the big wigs in the Detroit Audubon Society and can give you a complete history on all branches of the bird family, but as our ex-cohort in crime Ted Pennebaker usta say—the only birds we are interested in are those stuffed with good sage dressing and cooked to a nicety. Speaking of Ed, Boyes tho' we think that he is probably the oldest member of NABET in broadcasting—over 23 years with WWJ—can any other chapter top that?

Sammy Kaye's ABC (Blue)—we mean—American—not Associated—(looks like this is gonna get complicated) show was put on from WWJ's studios this last week—and caused no end of confusion and speculation around the moth eaten halls of our studios. The boys at WXYZ feel that NABET had something to do with the show going from here,—the story we got was that it was aired from our studios because of the close proximity to the Downtown Theatre, where Kaye was making a personal appearance, and that the band was making same, on the fly, between shows. After the incident at Mack-

inac—this kind of stuff gets complicated, and we can state certainly that we are still in the dark as to the reason of the switch.

Harry Eckland of American's Chicago studio staff was up to sit in on the show, and we were pleased to make his acquaintance, and show him around a bit.

Speaking of the Mackinac Island business, it seems to us that WJR of Detroit, really beat the gun on everyone, including the networks—Freddie Fredenthal's gang got in there early along with the Press Associations and acquired the only broadcast loops out of the place—so we hear.

On top of getting this alleged column out, we have many other tasks to get out, and before we forget to mention it—your short legged reporter is getting lazy—and has decided that the task of being Chapter Secretary-Treasurer is a lotta hard work, and as stated above being naturally an indolent cuss we have thrown in the sponge and tendered our resignation to the Chapter so that we can pursue our newly appointed membership in "The Thanatopsis Literary and Inside Straight Poker Society of West Side Detroit." The aims of this organization being—

1. The consumption of alcoholic and malt distillation beverages.
2. Active panel discussion of the topic, "the World—Why?"
3. In case anyone has some cards—Playing poker.

Our resignation from office brings about the appointment of a character we have mentioned in this column many times—our Shredded Wheat be-whiskered friend LeRoy Crappo Bridgman as the new Secretary-Treasurer of the dynamic Detroit Chapter of NABET.

Well, dear readers, we are afraid we must bring this drivel to a close and start writing up foul and dirty scripts on diverse members of the staff of WWJ to be presented in black-outs at the 25th anniversary of "America's First Station to Broadcast Regularly Daily Scheduled Programs."

Watch for pictures and details on our big bust in the next issue.

## DIXIE CHAPTER NEWS

By Rex Coston

**T**HE engineering staff of WBIG in Greensboro, North Carolina, a CBS affiliate, has been certified and NABET contract negotiations are expected to be under way soon. WBIG will be a welcome third member of the Dixie Chapter of NABET, the other two stations being WDNC in Durham and WPTF in Raleigh.

Vacations seem to be quite popular this season, but these new fads never last. Most of the fellows around here seem to want to go to the beach for some reason—could it be this Carolina sunshine?—or maybe it's the moonshine! Anyhoo, to mention a few, here is where they went: Nick Pieler (TE) went to Nags Head, near Manteo, the home of "The Lost Colony"; Waldo Rood (TE) went to Carolina Beach, and if I know Waldo he'll come back with one of his tall tales about the fish that got away; Gordon McCrary (SE) spent his time off at Carolina

beach too where he and platter turner Bill Singleton had quite a time with their outboard motor boat—it seems that there were about 3 people in the boat when it got too full of water, McCrary and the other fellow jumped out, but Singleton stayed in and tried to balance it and keep it from sinking, but Mr. five-by-five's weight was too much for the little boat and in spite of his frantic efforts they went down together—into all three feet of water! Maybe that's why Bill's nick-name is "Sinky". WP Seagraves (SE) has gone down to Myrtle Beach to bask in the sun; Gilmore Bowers (WDNC/TE) and yours truly spent several days in our home town of Winston-Salem, just doing nothing and enjoying it; Hunter Wall says that he is going to view the ocean at Ocean View; John Sherwood (TE) spent most of his vacation in Raleigh, how unconventional, moving into and fixing up his new-found house, and

the first thing he did was to set up his ham outfit in the basement; rumor has it that Bill Speed (TE) also intends to move into another house before long. Say, what's this about apartments being hard to find, much less a house?—and here all this time I've been sleeping sitting up too—they must have friends in the OPA or the DAR or something!

While we are still on the subject of vacations, Howard Sugg (TS) got father out of town than any of the rest—all the way up to yankee land. While in the big city the rebel went over to see NBC where he was cordially greeted by Jerry Sellar and Mr. Christopher. On his way back from Noo Yawk Howard stopped by NBC in Washington and was kindly shown around by the national NABET Secretary, Mr. Clarence Allen.

This seems to be the season for stormy weather, at least in these parts. One of the recent wind and rain storms was accompanied by lightning which struck one of the WPTF towers as usual, knocking out a blinker. The boys are still wondering who used a phony coin when they flipped to see who would go up to fix the light.



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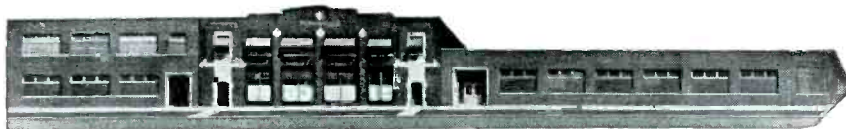
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# Doings in DENVER

By George Pogue

**H**O! HUM! These are lazy, golden days in Denver, with cool, refreshing, moonlit evenings. Trout are a-troutin'; bees are a-beezin', and little birds are—oh, oh!—and dog days are just around the corner. Now we see why we have the little dog-house in the control room! Present occupants are JOE FINCH, GEORGE POGUE, and CARL MEHL.

CARL MEHL is our Summer relief engineer at KOA. He came to us from the Modification Center of the Municipal Airport. Carl says he is learning the business from the ground up, as he previously had been employed at KOA as an announcer, and as head of the news room. Welcome back to the gang, Carl.

The present vacation roster includes WALTER MORRISSEY and MILT HALL of the studio, and GEORGE ANDERSON of the transmitter. Walt can be seen spending his vacation cruising about the city in that long, yellow convertible of his; however, gasoline being what it is today, Walt wishes he knew someone from the Potsdam conference to pick up a wood burner from Berlin for him. Ever think of converting to a hay burner, Walt? Milt is spending his vacation—well, he said he guesses he'll be around somewhere. "Andy," being our chapter chairman, is spending part of his vacation in New York where he will attend the National Council meeting of NABET.

The studio gang have been rushing around on some new field pickups lately. The Coors show has been doing shows around the state so part of the shows are from studio and part from the field. AUBREY BLAKE covered them at Boulder last week, and MILT HALL caught their first show at Cheyenne, Wyoming, the week before. GENE CARPENTER enjoyed a ride in a B-29 a couple of days ago, but he had to figure a way to convert army equipment so as to adapt it to our equipment in the plane and on the ground. Your august reporter spent three days in Cheyenne, Wyoming, last week, covering the rodeo and celebration of Cheyenne Frontier Days, "The Daddy of Them All." Yahoo!!! JOE FINCH had a Net Feed from historic Central City, Colorado, where operas of national reknown are given from the old Central City Opera House. (The old town has been preserved so that it has much the same atmosphere and character as in the old mining days of Colorado.) KENNETH RAYMOND, our portable recording expert, has been touring the state with HAL RENOLLET, making recordings for Hal's farm program.

### Bits From Here and There

At our NABET luncheon we had ex-KOAite, AL ISBERG, as our guest. He was a studio engineer at KOA before he went to New York to work in Television. Now he is with the University of Columbia Extension Division. He told us a lot about television in New York.

The Victory Garden crew at the transmitter has simmered down to two. RUSS THOMPSON and CARL NESBITT. They

Broadcast Engineers' **26**  
Journal for Sept., 1945



have weathered some pretty bad hail storms but expect bumper crops now.

"PINKIE" KAHL and JOE FINCH had a nice fishing trip. Joe was to have brought coffee and bacon, but Joe forgot said coffee and bacon. Now "NC" to Joe means "no coffee"! Nuff said!

#### Up Greeley Way

A new engineer has come to KFKA, in Greeley; his name is ROY HARRIS and he joins the ranks of NABET from Continental Airlines at Cheyenne, Wyoming. Welcome to the gang, Roy!

Guess it's about time to wind up this lil ol' news letter. No report from the Cradle Roll this month. Must be too d--n hot! So long, everybody.

## ROCHESTER NEWS

By Art Kelly

IT WASN'T many weeks ago that we here in the Rochester area were looking forward to spring. Now here I am writing a column that will appear in the September issue of the "Journal". Where has the summer gone? Or perhaps more accurately stated, what summer? Ah, but the weather here in Western New York is wonderful. Something screwy is always happening in the way of weather-freaks. These freak conditions somehow or other complicate the radio business so—I find goodly material to write about. What with the dead-line moved up to the fifth of the month I'm a bit on the shy side of facts for ye olde column so maybe I'll have to fall back on the big storm of July 31st for filler but first here's the inside on the Rochester crew.

Beryl Shay, the lovely, lovely at WSAY, always has something good for the column so I called her up for column-chatter only to find her in the depths of despair. It seems three tires on her car went bad all at once and, to top everything off, her clothes line broke and flopped the week's wash into the good earth. When I asked her what was new she just said, "Oh, Kelly, everything happens to me. But the trouble is . . . it's all bad." Never mind Beryl. The Rochester Chapter sends its sympathy.

Life at WHAM-WHFM gets more complicated all the while. Now we've got a ventriquist in our midst. One of the newer ops is Bob Brethen. Bob's hobby is holding a dummy on his knee and doing an Edgar Bergen. So now the boys at WHFM hear voices coming out of the final amplifier, from behind the turntables or from up on the turnstile. Just to make life still further complicated, Bob is also a sleight-of-hand artist of no mean ability. Hold on to your watches, men!!

Don Anderson, also of WHFM, caused a slight panic around radio circles the other day with the announcement that he is to be a papa. Why Donald! Does Muriel know?

The third op at WHFM is Tony DeLucia. On July 13, a Friday, he signed off the FM job and headed cautiously for home hoping that he could get through Friday the 13th without anything unusual happening. He

(Continued on Page Thirty)

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# Chicago-Corn from a Cob Reporter

By Kermit A. Slobb

## TO ALL YOU RADIO-TYPE GUYS OUTSIDE OF CHICAGO:

Hope you don't mind my using bold type to call your attention to this first item, but would like to get something off my chest. Seeing my name linked with my friend Lt. Bill Dunbar of WOW Omaha in last month's Journal made me think of it.

If you guys out there see a name in print here that you recognize, why don't you sit down and write them a line and get acquainted again. I know the fellows here in Chicago would like to hear from you. For instance, I see in the Los Angeles column that Louis Benvenuto, whom I used to work with at WOC Davenport, Iowa, is working out there. Soooo, I would like to hear from him.

Another example, not so good, however. I used to work out in the Hawaiian Islands (K6RCB) and I sure would like to hear from some of the guys I worked with out there. So how about it? If you see someone's name in print in this column that you used to know, drop them a line. NBC or ABC, Merchandise Mart, Chicago 54, Illinois.

Pat: My Uncle is a cowboy in a Credit Company.

Mike: What do you mean?

Pat: He's known as the Loan Arranger.

A little bird told me that Vern Mills tried to help his young son, who is a Cub Scout, construct a crystal radio set, and they finally gave it up as a bad job. Which only goes to show how times have changed.

Sorry to say that Marvin Eichorst has been ill, but I'm sure he'll be back to work in short order. I hesitated to write "Marvin," since he is "Ike" to everyone in Master Control.

Councilmen have finally been chosen in all sections. Larry Balsley has been elected as Maintenance Councilman, Don Fitch from Day Studio, Carl Cabasin from Field and Les Chase from RCA Recording. You will find a picture of these gents and others of the Council in this issue.

We received a telegram just the other day that the Court has handed down a decision in NABET'S favor, and has ordered the Companies to negotiate with us. All well and good, but I hope now that we don't get to work on the contract until after the National Council meets in August. My reason? Read the following paragraph.

Last month I had the pleasure of attending ONE Council meeting of the Chicago Chapter where it was possible to see something being done in a constructive manner. Generally speaking, I have been disgusted with the beating around the bush and passing the buck that our Chicago Council does, but at a special meeting at the Graemere Hotel here recently they really went to town. Your other Chapters have received copies of the minutes of that meeting by now, so you know

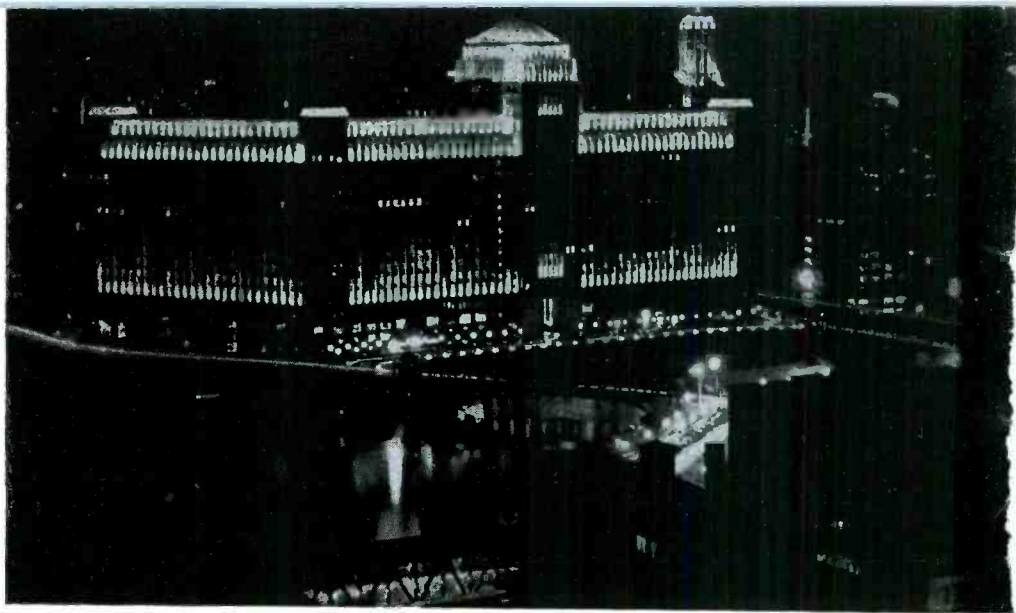


Photo by R. R. Jensen

that the Chi boys are absolutely against any "compromise contracts". I was personally satisfied also to see the Council vote for a salary scale very similar to the \$90 to \$150 a week that I suggested several months ago. I hope that all the rest of your Chapters have the guts to stand up and say what you want to your National Councilman. If we all stick together we'll get what we want.

Chicago is in the baseball news these days, what with our Cubs in the top slot in the National League, and reportedly spending \$100,000 for Hank Borowy. Joe Alusic spends all his spare time listening to the games in the afternoon, although he isn't the only one interested in baseball.

Hardly want to get any deeper into the problem now that the Company I work for is signing, "This is ABC, the American Broadcasting Company". I am amazed, however, that everyone still calls it the Blue. I dialed the PBX operator the other day and asked for a line, and she queried, "Red or Blue?" I said, "American," and I think she was highly insulated that I had corrected her.

I got a laugh out of this . . . maybe you will. I've written about the pictures for the Rotogravure section of the Chi Daily News

**Clarence Radius, who has been presenting a course on television for the last 50 weeks to NBC Central Division engineers, is gifted with a 100-year pen and a war bond at the wind-up session. Mary Ellen Trottnor, only girl in the class, makes the presentation. Radius is head of the audiovideo technology department of RCA Institutes, Inc., and now goes to California to give a similar course.**



using ABC people. Well, I went over several weeks ago and got in the pictures. (I was a truck driver and in most of the pictures I was tied and gagged and had a great big piece of adhesive tape over my phiz.) Anyway, was telling Charles Corliss about it out in Master Control, so he very innocently says, "Oh, is that one of those Blue special assignments?" Strictly a local gag, guys.

I have an arrival and a departure to report on. First, I'm sorry to say that Bev Fredendall is leaving NBC the first of September to join Frederick Hart and Company of Poughkeepsie, New York. As you know, Bev is Chairman of the Chicago Chapter and Vice-President of NABET.

I'd like to tell you a little something about Bev's life. He was born in Ontario, California, and after finishing school there he went to Pasadena to attend the California Institute of Technology. While a senior there, Bev was fortunate to be chosen as a "student engineer" by NBC, so he went to work for NBC in July, 1929, in New York.

In 1932 he went into the Transmission Department, and at various times from then until 1941 he was with the Audio Facilities, Construction and Television Departments, the construction work being in Radio City when studios were built and tested, and the television work in the field and at the World's Fair in 1939.

In 1941, while with the Audio Facilities, Bev came to Chicago to help put in new studios T, U and V and the Recording Room, and at the termination of that work was offered the job of Transmission Engineer here in Chicago, which position he has held up to the present time. Bev taught Control Room Techniques with the NBC-Northwestern Summer Institute here for three years, and is working now on a textbook which will be appropriately titled, "Control Room Techniques". He belongs to a mess of Engineering fraternities, societies, etc., which would take a whole page to list, and if you read the Journal you know his hobby is sailing. He is married, and has one girl, Mary Ellen.

Bev has done a fine job as Chairman during a critical period in NABET'S history, and we won't forget it. The best of everything to you and your family, Bev, from all of us here in Chicago.

On the arrival, I would like to welcome Art Cunningham to our ranks. Art has just joined NBC Chicago as a studio engineer. He calls Oskaloosa, Iowa, his home town . . . attended Penn College there years ago. At





### Members of the Chicago Chapter Council

Left to right (Standing): Rawson, WENR-WLS Transmitter; Mingle, WMAQ Transmitter; Fitch, Day Studio; McDonnell, retiring WENR-WLS; Johnson, Night Studio; Balsley, Maintenance; Chase, RCA Recording; Cabasin, Field; and (Seated): Aldred, retiring WMAQ; Fredendall, Chairman; Mills, Secretary-Treasurer and Elkins, retiring Maintenance.

various times Art has worked for Grigsby-Grunow, Stewart-Warner and Motorola, and comes to us from American Airlines, where he spent seven years as a radio op. His ham call is W9ARF, and he's single. We hope you like it here, Art.

From RCA Recording, I understand everyone is working harder than ever because of vacations. Since they only have a staff of four, when one person is on vacation it leaves quite a hole. Ed. Eckhardt is presently on vacation, and like most of us this year, Ed. is staying around home.

Orchids to Stolzy for that picture of Beryl Wallace on Page 19 of last month's Journal. Yummy! Incidentally, Pete Cavanah fills in the writing on the picture as follows, "To Eddie: When better editors are made, I'll make 'em." Right Ed.? (I'll hide behind Editorial Immunity on that one, but you have a right to guess!—Ed.)

Now to give Dewes' a run for his money . . .

#### SLOBB'S SLAPHAPPY SYNONYMS

**Saw-tooth Wave:** Navy gal who needs dental work.

**Acuity:** Beryl Wallace.

**Sync pulse:** Noise made by air in water pipes.

**Gamma Factor:** Married to Grandpa Factor.

**Dipole:** Inside antenna used for drying diapers.

Listen to Tom Breneman (my wife would kill me if I turned it off) and have been waiting for the time when Tom presents the Wishing Ring to some gal and asks her what her wish is and she says, "My wish is that the ring doesn't turn green in three weeks".

Did I ever tell you this one about what an influence I have on people. On the Jack Armstrong show several weeks ago I was introduced to an actor and the guy got a big kick out of my name. It so happens that in the script he had to talk about a slab of rock, so naturally on the 4:30 show he calls it a "slob of rack". Yuk, yuk!

Since the Companies put their foot down

on our playing poker, we have had to resort to parlor games which don't carry the stigma of gambling. Checkers has come into it's own on the night shift lately. Lato beats McEwan and Wyers beats Lato, and Mills beats Wyers, and Alusic beats Mills, and everybody beats me.

Be sure to ask Bill Cole what happened the time he kicked his shoes off out in Master Control.

The first ballot is in on Chairman to take Bev's place, and results are as follows: Schnepfer 40, Balsley 14, four fellows got two votes apiece, five had one vote (I got one . . . goody!) and there were 18 No Votes. We are presently voting for either Schnepfer or Balsley. Which reminds me that the votes from WLS were counted, even though those guys have joined IBEW. Personally think it is stupid that our Constitution or something doesn't allow us (without red tape) to suspend those guys so they can't vote.

You're probably saying, "Where is the scandal in the column this month?" I had a couple of items I thought about writing. One about NABET men doing work which is usually delegated to other Unions . . . Electricians, Painters, Truck Drivers, Carpenters, etc. Talked to several of the guys about that and no interest was shown. Also was going to gripe about the porch furniture we have in the Engineers Lounge, but can't seem to get riled up this month.

Have asked the Councilmen at the two transmitters here to help me get some news from out there, so hope to have something from them next month. See ya'.

Universal Microphone Co., Inglewood, Cal., has announced the appointment of a general manager, F. G. Gardner. The newly created post has been made necessary because of increased factory requirements, reconversion, and postwar planning, according to a statement of James L. Fouch and Cecil L. Sly, co-partners.

## NOTES from the STEEL CITY

By J. H. Doll

I'M JUST back from a pleasant two weeks' vacation, spent at home, and I agree with Chicago's Mr. Slobb, they are just as expensive.

HOWARD McCLELLAND spent a week of his vacation at Lake Erie and brought back a beautiful PINK complexion that would make any boiled lobster jealous. Seems he pulled that old stunt of falling asleep on the beach.

AL STASIAK is getting his share of night clubbing since a pick up from the "Vogue Terrace" has been added to WCAE broadcast schedule. (He is also handling the pick ups from "Bill Green's Casino.") Too bad you can't mix a little pleasure with your business, Al.

FRANK WOLTEMAR was looking mighty pleased the other morning when he was scheduled to work 9 A.M.-5 P.M. (and who wouldn't after working 6 A.M.-2 P.M. for over a year) but it lasted only a week. After a couple weeks' vacation he was back to the old shift, with his eyes just as red as ever.

I've been following the "Broadcast Engineers' Sweetheart" feud with much interest (as who hasn't) and I believe we have a likely candidate on our studio staff—HELEN OBSHARSKY by name. I hope to substantiate my claim with a picture next month.

PETE KOWALL (CE) was very much elated when he discovered that TOMMY STILLWAGON (anncr) was from his home town and drives to work. And speaking of announcers, PAUL "Tiny" FISHER (our 350 lbs. + midget) spent a busman's holiday the other AM when he visited Don McNeil on the Breakfast Club.

And speaking of BREAKFAST, I hear the coffee boiling, so goodbye for now—Jim.

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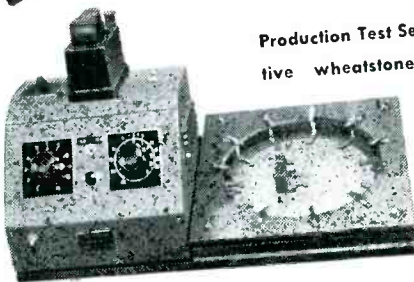
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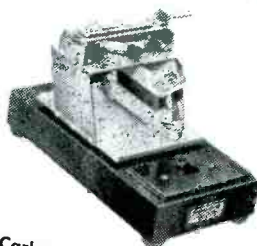


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## ROCHESTER

(Continued from Page Twenty-seven)

arrived safely. Put the car away and walked into the house. As soon as he closed the backdoor he was greeted by his sister who said the Stork was knocking on the door and would he please rush her to the hospital. So Tony tore out the backdoor again. Got the jalopy out and broke all the traffic rules in the book trying to beat the Stork to the hospital. He lost the old bird somewhere along the line 'cause the little darling, a girl, didn't arrive 'til the next day.

Ye scribe sprouted wings last week and soloed in a Piper Cub. Now there are two guys in the WHAM Control Room that shoot Hangar-Breeze. Nelson Smith and Yours Truly spend hours talking about planes, the art of flying, and the other topics that flying operators like to chin over.

Al Keltz, WHAM Control Operator, is the Rochester Chapter's ace jack-of-all-trades. One of the most interesting jobs he has worked at is the lumberjack trade. He spent one entire winter in the woods, living in a cabin.

At the WHAM transmitter the boys are busy at many and sundry things. Hack Boyce is puttering around with an underwater lighting system for fishing. Walt Malone has just bought a new house. Eddie Stiles has added a leanto kitchen to his summer shack in the Bristol Hills. Yo Siler and Les Minor are entertaining the boys with sax music. Both boys are old hands at the music game and frequently get together for sweet music.

At the WHAM Control Room Nelson Smith got his picture in the local sheets with his radio-controlled model train outfit. Elmer Grabb is planning his vacation for late October. Freddie Ambrose is still building a back porch on his house. (He started in June. Guess we'll have to hold a Chapter meeting at his house and get the job done.) Charlie Snyder took his vacation in the Adirondacks and returned just in time to take off again for New York and the National Convention. Allan Barron, one of the new ops in the Control Room, is a man of many talents. He knows all about stone cutting, glass pouring and cutting, and school teaching. And Bum Holly is still on the sick list.

Electronics Measurements Co., Red Bank, N. J., announces for immediate delivery, their Model 200-B Regulated voltage power supply. Output voltage is continuously variable from 0 to 325 volts DC, at 125 MA, without switching.

Regulation is within 1% for voltages between 20-325 volts from no load to full load. Hum voltage is less than 10 millivolts including noise. The unit includes voltmeter and milliammeter.

Amperex Electronic Corp. of 25 Washington St., Brooklyn 1, N. Y., have made available a Tube Interchangeability Chart, listing approximately 300 transmitting tube type numbers and their equivalent designation in Amperex tubes. Printed on an 8 1/2 x 11 1/2" card, and punched at the top for convenient wall mounting, this instantaneous reference should be a valuable aid to all engineers and purchasers of electronic tubes. May be secured by writing direct to factory.

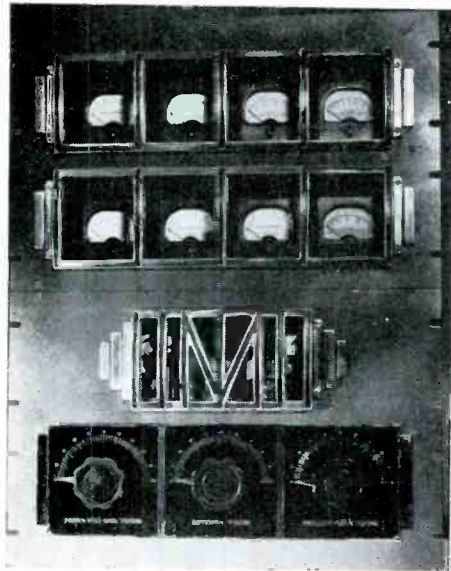
Broadcast Engineers' **30**  
Journal for Sept., 1945



# OMAHA

(Continued from Page Eleven)

peared. The boy had his .410 shotgun with him and was going to shoot the snake but ROY insisted that he wait until he (Roy) got his 12 gage so that there wouldn't be any chance of the snake biting them. ROY got his gun and both were about to fire when the snake disappeared like magic. They looked around but Mr. Snake could not be found.



Final Amplifier, antenna tuning and meter panel of 100 watt mobile transmitter showing the grille work and dial plates.

Suddenly as they were walking by an apple tree, something hit ROY a tremendous wallop right in the back of the neck and the snake said, "There is a two inch bite for you".

When ROY woke up his throat was burning and he could feel the poison coursing through his system. The guy that wrote "We wake up Screaming" had nothing on ROY!

ORV WEIMER (KOWH) is quite a racing fan and a judge of horse flesh. He spent the entire two weeks of his vacation announcing the races. It's the old story of the postman's holiday.

AL MALLER recently made his first solo flight. The whole thing is a surprise to us as we didn't even know he was taking flying lessons. Let us in on these things, you guys.

It seems that every time we hear from DICK PECK he has been promoted. We got a letter from him for the first time in two months and lo and behold, It's now SGT. DICK PECK. DICK, in the European theatre, says he is going to school and spends most of his time taking code and procedure. It's quite a change after what he has gone through the last year.

## VITAL STATIC

HAPPY BIRTHDAY to MARK McGOWAN, who celebrates his birthday, Sept. 19th.

Bob Rudd celebrates his 14th wedding anniversary Sept. 26th.

Congratulations to CY HAGRMAN as he starts his third year at WOW. Cy started with WOW Sept. 27, 1943.

Broadcast Engineers' Journal for Sept., 1945 **31**

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- Turntable is fitted with one-inch diameter polished steel shaft, with special oil grooves for force feed lubrication when operating. Rotates on a single ball bearing at the bottom of the turntable well.
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—Photo by Joe Conn

## N. Y. - NBC NEWS

By G. F. Anderson, Jr.

**D**O YOU know what the letters N.B.C. stand for? Well, your wrong—they do not mean National Broadcasting Company, but three other words of similar meaning—NO BONUS CHRISTMAS. Life has been simply unbearable around here since Black Friday, August 3, 1945. The Gentlemen, (engineers to other persons) of the American Broadcasting Company, have been wandering around showing slips of paper to we of NBC and uttering derogatory remarks.

However, we have something new also, we have Milton W. Kitchen with his new lip adornment, who is at present demonstrating it to all members of MCD. We wonder if Milton has grown this hirsute appendage to prevent his chin from becoming sunburnt while enjoying the sunshine on Long Island Sound.

Charles Bennis, MCD, has departed for his vacation and has left notes around to inform the boys of the news. Said news being—"In my absence all dues are to be paid to the Chapter Chairman, Harry Hiller."

Andrew 'Tommy' Thomson, also from the Master Control staff has been heard to remark, after his return from vacation, "Gee, it was nicer at home."

Walter "The Sorcerer" Mullaney, FE, has come to the conclusion that the weather is 'agin him.' Walt intended to spend a week or two at Whaley Lake, only to be rained out after three days. He returned to work finally and had a week of Fishmarket—Washing Market (Fruit and Vegetable reports to the uninitiated.)

The "Sorcerer's Apprentice," Harry Alexander, FE, has developed a wonderful routine. Saturdays he journeys to the Jamaica Race Track. He watches the Gee Gee's, a most sinful occupation, and then on Sunday he repents while doing the Catholic Hour.

George Butler of Television and lately of Field, returned to the Field Department for one day. GB was called to operate the Mobile Unit Saturday (July 28) that the B24 Bomber selected the Empire State Building to test the theory regarding the "irresistible force and the immovable object."

From Gilbert "The Great" Markle, little has been heard recently as he is enjoying his yearly Sabbatical from the arduous duties of a Studio Engineer. By the way, has anyone inquired as to whether the 'Gilbert Markle' mentioned at the conclusion of the ABC show, "Your FBI" is our Gilbert?

Ah Shawnee—your charms are calling Red Dubois, and Red is answering. Starting Monday, August 13th, 1945, Red will be doing the Fred Waring Show, Mondays and Fridays at Shawnee, Penn. Red has been going out there on his weekends and now that the show will be there on Mondays and Fridays and in the studio on Tuesday through Thursday, it will not affect these arrangements except that he will now be paid overtime for being there.

## This Is ABC, New York

By Gil McDonald

**M**ANY thanks to Pat Simpson for writing this column while I was enjoying my vacation with the family up in Shawnee-On-The-Delaware, Penn. Wonderful eats—wonderful golf—wish I was back there right now!

Tony Hutson hit the road again, this time going to the west coast for a six or eight weeks' stay with the Reader's Digest show.

Fred Walworth went out to Detroit to survey for the Ford symphony which starts in a few weeks.

John (Call me Junior, I love it) Norton takes in all the night clubs after hours just to keep in practice, or maybe he is taking dancing lessons. Seems every time I get that Roseland Ballroom job, along around the middle of the show, I'm rudely awakened by Junior tickling my neck with his soup strainer while kibitzing over my shoulder. Tsk-tsk.

Jimmy Cook, our one man maintenance department, became a pop and went on vacation all on the same day. Our congratulations to you and Mrs. Cook, and I'm sure you will be very happy with the new young lady.

Next month we are going to startle the scientific world with a complete description of the latest brainchild of that great pair of geni, Joe (Rube) Silva and Bert (Goldberg) O'Leary who have just finished three gruelling and exhausting minutes of scientific research and are now compiling double talk—I mean data for the magazine next month.

Larry Williams reports that his wife is back from Buffalo now, and that he finally found an apartment out in Queens somewhere.

The Field Boys really were on the job the day the B-25 hit the Empire State. Irv Grabo did the first show from within the building after the accident. Observers say the plane didn't miss the RCA Building by very much either.

That's all this month. GIL.

---

Something new has been added to the Maintenance Department—Mr. Fred Frutchey, formerly of the Recording Department, has returned from the wars, where he was busily engaged in recording the latest on the spot news in both the European and Asiatic theaters of war. Fred is now in the maintenance department, and as soon as he can be had in the quiet for a few minutes, we will have a story or two or three.

George Peters is another new face in the maintenance group where he is an apprentice, and Everett Geiger also has enrolled in Charlie Phelan's select Maintenance group as a Group Two man.

Roland 'Curley' Jordan of Denver and points South fame, is now seen walking around with a worried expression. Curley is the Straw Boss of the electrical department, working on the new 6D studio here in Radio City.

(Continued on Page Thirty-three)



# Historical Facts

By Bert Pruitt

**1923**—Amateurs rock the Navy. In 1921 the Navy beamed with pride. Their Shore-to-Ship naval service was the cat's meow. These stations were the latest word in radio equipment! But the dawn of 1923 found these stations as obsolete as your wife's 1942 hat! The apparatus that was expected to last many years was being replaced just two years after being installed!

The Radio amateurs were the "flies in the ointment" as far as the Navy was concerned. It happened this way:—

Quenched-spark transmitters were being used as coastal stations for communications with ships at sea. Arc transmitters were handling the transcontinental and transoceanic traffic. These two types of transmitters were the only ones which were rugged, flexible in wave-length range, and economical to maintain. Selectivity (?) was such that stations 50 to 250 miles distance did not interfere with the handling of traffic. Vacuum tubes were in an embryonic stage up to this time. It was thought doubtful if the vacuum tube transmitter would ever handle enough power to replace the sturdy arc and spark transmitter. People looked at the vacuum tube transmitter not unlike farmer Brown's look of skepticism when Henry Ford's gas-less carriage putt-putted past his farm back in 1918.

Then across the ether horizon came the amateurs like the seven-year locust. The radiotelephone was the vogue! Receivers squeaked and uncle Hank exclaimed: "Well, I'll be durned . . . was that really a voice comin' clean from Chicaga?" Farm boys bored holes through the window frames and their mothers beamed with pride. Why shouldn't they? Weren't their sons smarter than Edison or Eli Whitney? Noise was referred to as perfect quality and you couldn't tell the toot of a saxophone from the moo of a jersey cow.

Listeners along the coast near Naval spark transmitters put on their ten dollar headphones and were immediately lifted bodily from their chairs! The Navy spark-transmitter was filling the air with what a hunter might call "Splatter shot."

Inquiries turned to complaints . . . complainers maintained the spark was a public nuisance, ear wreckers and many other uncomplimentary monickers were hung around the neck of the sturdy old sparker. "Mush and harmonics" were the offending twins in the cradle that rocked the arc transmitter. A thorough survey resulted. The quenched-spark transmitter, which one year previous was as modern as Myrtle's hairdo, was now considered obsolete.

Thus the amateurs rocked the navy and the spark transmitters were converted to the new-type continuous wave vacuum tube transmitter. This transmitter, of course, was

doomed to go the way of the "spark" before many years went by.

1923—Home furnishing interests were suggesting that each home should have a special radio room. Said room to be furnished in a manner befitting its purpose. A room of masculine character . . . no frills or trimmings. The room should have a nautical appearance without in any way being an imitation of a ship's radio room. Fancy sketches and plans were published in the leading magazines of the day.

\* \* \*

A popular idea of the day was that all criminals would be run to earth when radio was fully developed. Another popular idea was that radio broadcasting would replace the newspaper.

\* \* \*

Two years previous to this time quite a bit of excitement resulted when an automobile went bouncing across an open field and skidded to a stop ten feet from a stone fence. Heads nodded and tongues wagged when it was learned the auto didn't have a driver. Wireless was doing wonders!

---

## NEW YORK

(Continued from  
Page Thirty-three)

A dinner at the Waldorf Astoria is in the cards for Gordon Windham and 'Pappy' West. It seems that Pappy wagered Windy that he, Pappy, could make the change-overs on the modified 44A Mikes in three weeks. Everything was going swell until Windy locked the cabinet with the mike parts in it, and then left for his two days off. Pappy left a note for Gordon to unlock the locker when he returned, and the note disappeared. Pappy then was off for two days, and had to wait another day for the cabinet to be opened. Needless to say, Windy is still waiting for the Dinner at the Waldorf!

Well, so long for now, and everything is leaving here OK, so the trouble is still "West of Denver."

---

On Sunday, July 15th, Mr. John L. Seibert and Miss Agnes Park were married at the Watchung Ave. Congregational Church in Montclair, N. J.

Mr. Seibert has been with NBC for the past ten years in the Radio Facilities Group. Prior to this employment he was with the Westinghouse Electric Co. following his graduation in Electrical Engineering from Pennsylvania State College in 1927. He has accumulated over eighteen years' experience in the development, design and engineering of FM, television, short wave and standard radio broadcasting stations. He is a member of the Engineering Chapter of NABET.

Things are bad all over? Two NBC-NY MEs started out to find a "new place" to have lunch. Believe it or not, this menu was found within a quarter-mile of Radio City:

Special Lonch ..... 50c.  
Klaunhadar (English translation, clam chowder)  
Brooil Sea Trout  
Brooil Salman  
Bagk Flander  
Samaan Salat  
Rost Brast of Will  
Frai Eggs . Bak Bans  
Pay 10c.  
Coffee . Tha . Milk 10c.

## TRADE NEWS

Tests conducted by RCA Victor have shown that separate shielding of proper design for electronic power generators, work assemblies, and transmission lines will reduce the field strength of radiations which might interfere with home radio reception and other electronic services by a factor of 45,000 to 1. Results of the recently completed tests, which were conducted at a distance of one mile from the generator, were described in a paper presented by G. H. Williams, RCA Victor development engineer, at a meeting of the Philadelphia Section of the American Institute of Electrical Engineers at the Engineers' Club.

Without shielding the field strength of interference radiations from a dielectric heating installation operating

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on a frequency of 9 megacycles was found to be 316 microvolts per meter. With a single screen cage over the work load, this factor was reduced to 1.3 microvolts. A further reduction to .007 microvolts was obtained by placing a double screen cage over the applicator and load.

### Industry Barometers

The industry seems to be developing the necessary backbone to fight back the FCC's attempted inroads in the field of station programming, ratio of sustaining to commercial time, and selling prices of radio stations. In the order stated, the Act of 1934 specifically prohibits programming controls of any kind, operation in the "public interest, etc." being the sole test. The fact that there is public demand for several million broadcast receivers is all the industry needs as its clean bill-of-health; no individual station can deviate very far from the average standard without losing its audience. No audience, no advertising. No advertising, no paycheck. The several Federal and State laws which outlawed sweatshops, various forms of slave-labor, and hazardous working conditions were very necessary, and in the long run, helped employers at least as much as employees. However, when the lawmakers attempt to legislate that the clerk cannot sell more than 70% advertised goods, and forcefully implying that the unadvertised goods are superior and really what the "deceer peeepul" want, then somebody ought to tell off the lawmakers—in this case, the FCC. For the FCC to imply that the sustaining programs are better than the Bob Hopes, Fibber McGee & Mollys, the General Motors Symphony, and dozens more is to admit that they (the FCC) don't know what the voters listen to. If the FCC has so much spare time that it can horse around in neighboring pastures, it hardly seems justifiable that they haven't yet gotten off the pot and arrived at permanent allocations for FM and Television.

Mr. S. E. Norris, Vice-President and Sales Manager of Amperex Electronic Corporation of 79 Washington Street, Brooklyn, New York, announces that on May 12th, 1945 the company received—for the fourth time—the Army-Navy Production Award for "outstanding achievement in producing materials essential to the war effort." Amperex Electronic Corporation, manufacturer of electronic transmitting and rectifying tubes, now proudly adds the third White Star to its original Amperex "E" flag.


**THE BIG INCH** — The next time you are driving out to do a Nemo along the Eastern Seaboard you might well do a bit of reflecting and thank the "Big Inch" for making your trip possible. The "Big Inch" is the longest pipeline ever built. It is 24 inches in diameter and the pipe is made in 40-foot sections that weigh 95 pounds per foot. The total Big Inch length includes more than 1,450 miles of pipeline and the line delivers 300,000 barrels daily to the East Coast. The job cost \$95,000,000 and it takes 4,000,000 barrels of oil to fill the pipe line. Oil moves through the Big Inch at the rate of 100 miles a day and it takes 13 days for the oil to travel from East Texas to the Atlantic! There are 26 main line pumping stations, each with three 1,500 H.P. motors.

—B. P.



# What's new?

by  
**JORDAN  
MCQUAY**



**T**HE FCC's allocation of FM to the 88 to 106 megacycle band was received with much rejoicing by radio manufacturers, all with an eye toward increased sales. But protests have already been voiced by other groups, maintaining that FM cannot achieve area coverage in rural districts at such high frequencies of operation. There's little doubt that receivers for the higher frequencies are entirely practical—but primarily for listeners in highly populated districts. Despite the FCC's profound decision favoring FM on high frequency, the issue isn't yet settled.

\* \* \*

Women make the best radar operators, according to Sir Robert A. Watson-Watt, British inventor and co-developer of radio-location. He claims women show much greater initiative and application than men, and that women have far greater patience in watching for those elusive "pips" on radar oscilloscopes.

\* \* \*

United States weather maps are now made up from reports of more than 500 airway stations and more than 300 regular weather observing stations in the United States.

\* \* \*

Newest Signal Corps multichannel radio relay equipment uses pulse transmission to establish eight simultaneous two-way communication channels on a single r-f carrier.

\* \* \*

Use of cathode ray tubes for the reception of television images was suggested as early as 1908 by Campbell Swinton. The circuits he mentioned and recorded were a complete and accurate forecast of those later developed by Zworykin.

\* \* \*

During the war in Europe, many important German messages were taken from Nazi pigeons downed by specially trained falcons attached to the RAF.

\* \* \*

High frequency electric fields heat objects from the inside out and are now used in dehydrating foods to an extremely low moisture content. These fields can also be used to mold synthetic plastics with amazing speed.

\* \* \*

The Army's newest lightweight field-telephone switchboard weighs slightly over a pound. It's designed for portable jungle, amphibious, and airborne operations.

\* \* \*

The air-cooled radial engine, which contributed so much to the development of aviation, actually was invented before the first airplane: in 1902, by Charles W. Manly.

\* \* \*

Babies of the future will sleep in electronic cribs. A miniature bed will be soundproof, entirely surrounded by unbreakable plastic. A microphone within the crib will connect with a loudspeaker, telling mother all she wants to know when the baby cries. Electronic control of tempera-

(Continued on Page Thirty-Six)

## CAPPS\*

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**RECORDING COMPANY**

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## WHAT'S NEW

(Continued from  
Page Thirty-five)

ture and fresh air will keep the crib healthful and the baby contented—except at mealtimes.

\* \* \*

The world's largest helicopter, designed for Navy and Coast Guard use, will soon be put to practical use. The plane's streamlined fuselage is nearly 50 feet long and 13 feet high. The craft can land within a 100-foot diameter clearing—on land or in the water.

\* \* \*

The American Radio Relay League estimates that of the 60,000 amateur radio operators in the United States, nearly one-half—or 30,000—are serving in the armed forces.

\* \* \*

Scientists at Mt. Wilson Observatory in California operate a photo-electric photometer so delicate it can measure the heat of a candle burning 2,000 miles away. It's used to measure the brightness of stars.

\* \* \*

The Guam Signal Corps Depot is so big it occupies eleven warehouses with more than 52,000 square feet of space. The depot ships an average of 15,000 spare parts monthly to forward echelon bases from its stock of more than 12,000 different items of radio equipment.

\* \* \*

X-ray radiographs, taken in a millionth of a second by a 300,000-volt Westinghouse X-ray machine, now make possible studies of the action of bullets in motion within gun barrels and when they hit targets of armor plate.

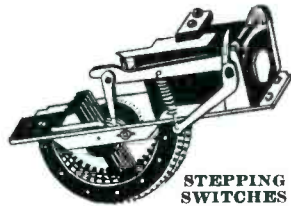
\* \* \*

A recent patent for an FM transmitter, designed by

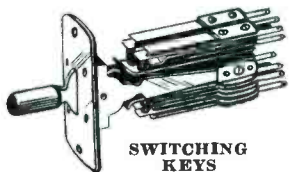
## CONTROL APPARATUS by AUTOMATIC ELECTRIC



RELAYS



STEPPING SWITCHES



SWITCHING KEYS

IN AMERICA'S leading radio broadcast studios, Automatic Electric remote control devices are used for the dependable operation of such important equipment as master control boards and announcers' cabinets, for program monitoring and switching, and for other electrical control uses.

These devices have a built-in quality that is the direct result of over 50 years experience in the design and manufacture of communication, signaling, and control systems, utilizing the same engineering skill that revolutionized telephony with the automatic dial telephone.

A complete engineering and consultation service is available to broadcasting studios on any electrical control problem. Avail yourself of this service today by writing—

### Automatic Electric Sales Corporation

1033 West Van Buren Street  
Chicago, Ill.

## AUTOMATIC ELECTRIC

TELEPHONE, COMMUNICATION, AND SIGNALLING EQUIPMENT

F. E. Terman of Stanford University, has all but gone unnoticed. It's an unusual device. A permanent magnet assembly and balanced armature is sealed inside an evacuated glass bulb. The armature is free to vibrate in accordance with an applied modulating voltage, resulting in a variation of capacitance. Operation within the high vacuum envelope permits very high voltages without breakdown.

## The Greatest Thrill of All

Today, when television's just around the bend ahead,  
We sort of get to thinking of those good old days now dead;  
Those good old days when attics and the bedroom and the  
hall

Were laboratory spaces for inventors one and all;  
Those good old days when one tube took the signals from  
the air

And made the startled people sort of gasp and gaze and  
stare.

Today, when daily switching brings the world right to  
our feet,

When mothers in Chicago talk to sailors in the fleet,  
When mothers out in Denver talk to soldiers on the  
Rhine . . .

'Tis then we view our progress and we realize its fine,  
But still we get to thinking that the greatest thrill of all  
Was when we got Chicago on the set up in the hall.

There weren't many stations on the air and just to get  
A station in Chicago, on our little crystal set,  
Was worth the months of planning and the nights we  
spent up there

With hopes of hearing voices from Chicago through the air,  
And when at last we gathered all around the set and heard  
The station from Chicago none of us could say a word!

The shock had made us speechless . . . Right before our  
eyes there lay

A thing relaying voices from two hundred miles away!  
A thing that wasn't human . . . A thing that couldn't  
walk . . .

A thing that wasn't breathing, yet a thing we knew could  
talk!

Thus, speechless and excited, we remained there in the hall  
While voices from Chicago brought the greatest thrill of all.

Oh, I know that television's something one and all should  
praise

As progress that will bring us better shows in countless  
ways,

And I know that laboratories, plus fine engineering skill,  
Will bring us perfect pictures that are sure to cheer and  
thrill,

But still I can't help feeling that the greatest thrill of all  
Was when we got Chicago in the set up in the hall!

— An Old Timer.

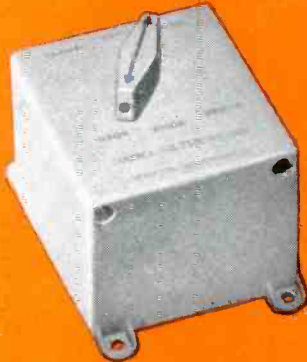


# TRANSFORMER COMPONENTS

*for every application*

## RADIO

Set components



Radio Filters



## TELEPHONY

Loading Coils



Repeat Coils



Pulse Transformers

Mine Detection Components



Selective Amplifier Filters

Inter-phone Amplifier Components



## DETECTION

## AMPLIFICATION

*Foremost Manufacturers of Transformers to the Electronic Industry*



ALL PLANTS

May we cooperate with you on design savings for your applications... war or postwar?

*United Transformer Corp.*  
 150 VARICK STREET NEW YORK 13, N. Y.  
 EXPORT DIVISION: 13 EAST 40th STREET, NEW YORK 16, N. Y., CABLES: "ARLAB"

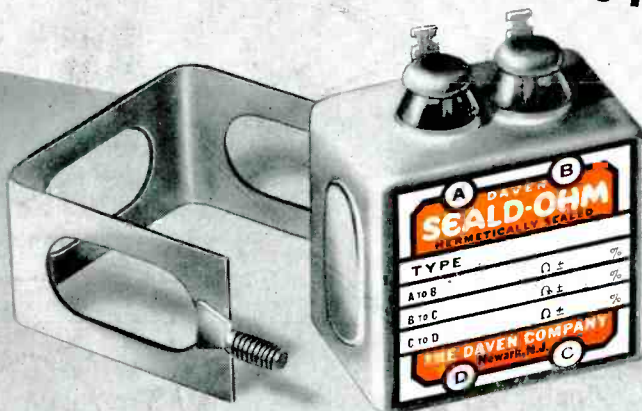


Presenting the...

# DAVEN

WIRE-WOUND  
SEALD-OHM

## HERMETICALLY-SEALED PRECISION RESISTOR



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

#### ELECTRICAL DATA

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

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

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

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

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

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

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

#### MECHANICAL DATA

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

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

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

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

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

DAVEN *pioneer* maker of precision resistors

