Who Is This Pioneer?

See Page 4
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A. W. A. JOURNAL
"The Old Timers Bulletin"
Editor: Bruce Kelley
Assl. Editor: Dick Randley

ANTIQUE WIRELESS ASSOCIATION, INC. Founded 1922. Chartered as a non-profit corporation by the State of New York

HOLCOMB, NEW YORK 14469

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Change of Address?
Mail information to the Treasurer who handles current mailing list.
(Not the Secretary)
L. A. Cundall, W2LC
69 Boulevard PKWY
Rochester, N.Y. 14612
Silent Key

Howard Schrader

It is with sadness we report the passing of AWA member Howard Schrader of Princeton Junction, N.J., on Apr. 6. He was acknowledged one of the outstanding authorities on vacuum tube development. A recipient of the Houck Award, he wrote and presented many papers on the subject. At one time it is believed he had the world's largest collection of historical radio tubes.

"Howie" was an enthusiastic and dedicated historian with a friendly, engaging personality. He will be greatly missed.

What's Coming Next!
in the "Old Timer's Bulletin"
History of Clapp-Eastham Co.
Standard Frequency Stat, 1KM
Collecting Early Batteries
Collecting Hallicrafter Equip.
Testing Unusual Tubes
History of James Millen Co.
The Doughnut-Five TRF receiver
Restoring early CAL Receiver
Early Crystal Set development
The Super-Het at W.E.
Armstrong's Super-Regen set plus much, much more.........

COMING EVENTS

ANTIQUE WIRELESS ASSOCIATION

NEW YORK (Regional Summer Meet)
Breeport, N.Y., July 14

LOUISIANA (ARRL National Convention)
Baton Rouge, La., July 20, 21, 22

NEW ENGLAND (N.E. Wireless Mus.)
East Greenwich, R.I., Aug. 11

MINNESOTA (Upper Mid-west Meet)
Minneapolis, Minn. Aug. 18

NATIONAL CONFERENCE, Sept. 28-30
Canandaigua, N.Y.

ANNUAL BUSINESS MEETING, Nov. 4
Canandaigua, N.Y.

FLORIDA, Clearwater, Nov. 17-18

TUBE IDENT OUT — X
Bro. Pat's supply of Vacuum Tube Identification Sheets are no longer available -- supply exhausted. Members are indebted to Bro. Pat for his outstanding effort in research and compiling this valuable information.

Other "Meets" for the COLLECTOR:
June 23, National ARCA Meet, Elgin, Ill.
Write: Bill Denk, W3IGU, 81 Steeplechase Road, Devon, Penna. 19333
Aug. 25, ARCA/NFWA Meet, Amherst, N.Y.
Write: Dick Schamberger, 515 Crescent Ave., Buffalo, N.Y. 14214
Sept. 8, V.R.P.S. Convention "79"
Irving, Texas. Write: Don Brockman, Box 5345, Irving, Texas 75062
(Non-members invited to all meets)

Low Down

is the title of the monthly publication of the Longwave Club of America. Dues are $6. annually. The organization is primarily interested in activity of any kind below 550 kHz. They promote dxing and experimenting on the 1750 meter band. Interested? Write for information: Longwave Club of America, Box 33188, Granada Hills, Calif. 91344

Important

Notify AWA treasurer immediately of change in address. P. O. Dept. will NOT forward 3rd class mail. There will be a $.10 charge per issue by AWA for forwarding 3rd Class mail.
FRONT COVER: If you said Colonel Green, you were right. And who is Colonel E. H. R. Green? The Colonel's mother, Nettie Green, who, through forgery, perjury, ruthlessness and financial genius managed to die in 1916 as the richest and most detested women in America. She was known as the "Witch of Wall Street".

Until her death, the Colonel, better known as Ned, was kept under tight purse string... and then he broke loose and went on a 20 year spending spree tossing away $3,000,000 a year on various eccentric hobbies such as yachts, jewels, railroads and innumerable women. Oh yes, also an airport with hangar for his airship.

Of interest to the radio historian was his radio laboratory at his Round Hills estate in South Dartmouth, Mass. Not to be outdone, he had his own broadcast station WMAF. Tired of originating local programs and learning of a temporary network experiment by A. T. & T., he contacted WEAF officials (July, 1923) and made arrangements to have their programs wired to his station on a permanent basis. Gleason Archer wrote, "Thus a rich man's whim established the first continuous hookup of stations in radio history and incidently gave the engineers of the Am. Tel. & Tel. just the experience they needed to perfect the type of telephone cable essential to network broadcasting." (p. 313)

The transmitter consisted of a Western Electric 500 watt set, one of the best at the time. Ned paid all expenses; there were no sponsors.

The Colonel died June 8, 1936, at 67. His sister inherited his fortune and died leaving $10,000,000. M. I. T. acquired Round Hills and used it as a research base. In time it was turned over to a religious order.

AWA acquired several items from Ned's radio laboratory thru M. I. T., including a Kennedy receiver and an early Morse register tape puller.

The two unusual (and rare) photograph of the Colonel were sent to AWA by Wally Worth of Wollaston, Mass. They were printed from glass plates which are in his possession. Copies are available.

References: Archer's "History of Radio", Arthur Lewis "The Day They Shook The Plum Tree", OTB 6-3-17, 6-4-16, 7-2-1 and 10-2-6
FROM SPARK TO SATELLITE

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1. The Father of Wireless
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13. Radio Wave Propagation
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15. Television and FM
16. Radar and Semiconductors
17. Signals in Space
18. The Hams in Space
19. Signals from the Stars
20. Lasers—Future Communicators

Here is a book that should appeal to all radio historians -- 20 chapters ranging from Marconi to laser communication. There are even a chapter devoted to amateur operation. Few authors writing the history of radio can claim actual experience, Stanley Leinwold can. He is a former RCA employee and engineer with Voice of America and Director of Radio Free Europe. The book is of large 6 x 9" format with 42 photographs and 44 drawings. Available from your local bookstore. Publisher: Charles Scribner's Sons. ISBN 0-684-16048-X Price: $14.95/$12.50

NEW BOOK ON TESLA

The most recent book covering Nikola Tesla's work has just been published by Ragusan Press, 1372 Rosewood Ave., San Carlos, Calif. 94070. A brief review would seem to indicate it may be the best book yet covering his life's work. Title: "Dr. Nikola Tesla Bibliography." Write publisher for more information.

FEDERAL ARC TRANSMITTER

By Louis Mateo, WB2MVK
"CQ" magazine, Feb., 1979

Members had an opportunity (and it may be the last) to witness an arc transmitter in operation at a recent AWA Conference (demonstrated by W3QA and W3KKY). Then, Dr. Leonard Fuller, Chief Engineer of the Federal Arc company, gave an excellent talk on arc development. Now members can read about a 2 kw. Federal set in CQ magazine. The author goes into some detail about the operation of this particular set. Good photos. Do you want to see a Federal arc transmitter? Visit the Foothill College Museum, Los Gatos, California.

STORY OF ELECTRONICS

Is there a RADIO SHACK store near you? If so, pick up a copy of their New Science Fair "STORY OF ELECTRONICS" for a well summarized history of radio and electronics. Although the profusely illustrated 26-page booklet is directed toward the younger generation, you will find it fascinating reading. The author, Bill Palmer really covers the field; from early magnetism to satellite communication. (Copies will be available at the AWA Museum.)

HISTORY OF TELEVISION - PART I

IEEE Transaction on Cable TV, No. 4
October, 1978

This review is a little late but it was felt worthwhile mentioning. The large 13-page illustrated format dwells on the development of television with emphasis on mechanical scanning. A later article covers electronic scanning.

The authors (there were two) start with Abbe Caselli (1882) in France and conclude with Peter Goldmark's color wheel scanner of the early 50's. Exceptionally well written with numerous references. Good info for the TV historian.

(Bob Cobaugh, W2AY)
FROM HEADQUARTERS

MORE COLLECTOR CLUBS

In the past six months I have received notices or newsletters from several new clubs devoted to collecting old time radios. This would seem to indicate our hobby hasn't leveled off but is on the increase. There has also been a noticeable increase in magazine articles and want-ads concerning old time radio. What does it all mean?

Some say the newcomer to radio finds it more fun to tinker with old radios than with modern solid-state equipment. I'll buy this argument. Others may be buying old sets as an investment. A smart operator can certainly make more investing in antiques of any kind than by playing the stock market. Several are doing this with well over 200% profit in some instances. I like to think however, that the vast majority of collectors just like old radios for nostalgic reasons.

How in the world can one compare a modern Japanese made solid-state metal box with an old 3-dialer in its beautiful wooden cabinet? You lift the lid and there are all the components laid out for you. It doesn't take much guessing as to which are the RF, Det. and AF tubes does it? And the tubes when lighted have a nice soft warm glow. Even the varnish from an old cabinet has a certain unmistakable aroma. Guess I'm sentimental...

201-A

I received a photograph from Joe Szabat, W3LST, showing a huge pile of boxes...that was all. So what?... Turning the pix over was a note. Each

LIMITED SUPPLY!
WE HAVE MADE OUR LAST PRINTING--STOCK UP WHILE YOU CAN!

This is your last chance to buy books from VINTAGE RADIO. Morgan is now devoting full-time to his regular work and is phasing out his publishing business for the radio historian and collector. Prices on some books have been reduced and others are in limited supply. We suggest you buy the books of your choice now before they are gone or only available at future collector's prices. Here are some of the books still available:

- Vintage Radio, 1887-1929...
- Most-Needed 1926-1938...
- A Flick of the Switch, 1930-1950...
- GEMSBACK'S 1931 Service Manual...
- Radio Diagrams 5.00...
- From Semaphore to Satellite...
- 1921-1932 Radio Collector's Guide...
- $0.95...

Add $5.50 per book postage & handling--plus TYNE'S "SAGA", "TIN FOIL to STEREO" PUETT'S SILVER GHOSTS and others.

Write for latest descriptive price to:

Vintage Radio
Box 2045, Palos Verdes Pnsla,
Calif. 90274

The box contained a brand-new glass tit-top 201-A tube with short pins...108 boxes to be exact! He has a son, WA3TDG, to thank for locating this bonanza. A few more "finds" such as this and Joe can open a well-stocked radio store,...

DXCC SATELLITE

Congrats to Bob Morris, W2LV for being awarded DXCC Certificate #2 for satellite communication. What does this mean? He is the second person in the world to have two-way amateur communication with 100 different countries through a satellite! Few may know it, but Bob also has the distinction of being the third station in North America to have a 2-way amateur contact with Europe. This was back in the 20's with French 8AB. Schnell and Reinartz were the first two. We're proud of you, Bob.

GOOD OLD CORTLANDT STREET

Hal Deiter, W2AZU, writes of his experiences as a weekend clerk in a Cortlandt Street store during the 30's. They could fill a book. One 1

[Cont. on next page]
GOING TO LONDON? —
..if so, visit the Bampton Book Shop at 46 Malden Rd., London, N.W. 5
They carry a large selection of new and used books and magazines devoted to radio.

WU's Telegraph Monopoly Ended

As the result of a ruling by the FCC in keeping with its pro-competition policy, Western Union Telegraph Company will no longer have a monopoly in the provision of domestic telegraph service.

Commenting on the FCC's decision, a Western Union spokesman said that the company had expected the move and had not opposed it.

"We welcome competition so long as we are free to compete on the same basis as any other firm," WU said.

Some Things You Should Know

Olgiert Lindan and others have called our attention to a report in the British magazine "New Scientist" concerning Major Armstrong's historical tapes and recordings supposedly in safe-keeping at Columbia University. Here is the report:

Crumbling archives

Partial quote: "I was appalled at the irresponsible way that irreplaceable disc and tape sound recordings of his original test broadcasts are stored."

"In November, 1978 I found some of the first ever recording tapes, dating back to 1947, lying unspooled in a box in the basement of the college library. I estimated that the disintegration rate of this collection is about 15% a year."

A sad situation when you stop to think it was at Columbia where Maj. Armstrong did much of his original research.

Where are Armstrong's friends??

(CLOSEUP continued)

thought rather amusing concerning a sales promotion using RCA tubes to get the customer in the store. Once in they would try and sell DUVAL tubes (Double-Value). It was done this way.

A tube checker was mounted on the counter. First a new RCA tube would be checked for the prospective customer followed by a DUVAL. The latter would always give a better reading which would indicate more gain, less loss, etc...and to top it off, the DUVAL tube usually cost less. How could one resist? The trick? There was a foot-operated switch under the counter connected to the tube tester that would upset the reading. Ah, those were the good old days....

FINISH or NOT to FINISH

I got caught between two collectors recently arguing about restoring cabinets. One insisted that if you had the facilities and know-how, you should strip and re-finish a cabinet if it had any blemishes, watermarks or bad scratches. His opponent was just as vehement in his beliefs. Old cabinets should look old -- not new and shiny. One could go overboard in restoration because it tends to take away the set's antiquity and authenticity. Only when a cabinet is in real rough shape should it be completely stripped and have an entirely new finish. Being a coward, I kept my mouth shut.

OVERSEAS MEMBERS

Linc Cundall gave me a recent update on our overseas members. England is predominant with 11 members, Australia 8, New Zealand 5, etc....historical radio and collecting is now world-wide.

APIA, SAMOA

--received many flattering comments on the German WWI Samoan station pix on last OTB cover. Photographers may be interested to know that the original picture was quite dark in the center. Our printer used a special scanning process to lighten it with spectacular results...Identification: Herb

(Continued on next page)
NEW YORK

SUMMER MEET

SATURDAY, JUly 14
BREESPORT, N.Y. (North of Elmira)

11 A.M. Museum Opens
Flea Market
12:30 noon DINNER at nearby
Methodist Church
1:30 P.M. EDISON and his Inventions
(Display and demonstrations)
Bruce Roloson

2:30 P.M. MUSICAL ENTERTAINMENT
Museum Open and
Flea Market
5 P.M. Pull switch

Don't forget the date: JULY 14th!

LOUISIANA

NATIONAL CONVENTION

AMERICAN RADIO RELAY LEAGUE

AWA will be represented by Wes Chatellier, W5DPM who will maintain a fine display of early amateur and broadcast equipment in the exhibit area. This is the big amateur event of the year. Be sure and stop in, see the display and say "hello" to Wes.

BATON ROUGE, LA. JULY 20, 21, 22

(Continued from page 7)

Scott (Secretary SOWP) writes that he checked early Marconi Wireless Yearbooks (1913-14) and could not find a call letter for Apia, Samoa until 1916 when it was noted as VMG -- most likely the call assigned by the British (New Zealand) Government.

ES

I've always thought the letters 'ES' used by radio hams (in CW operation) was something they conjured up years ago as an abbreviation for "and".

Not so. While developing the original code characters in 1838, Samuel F. B. Morse decided the then commonly used ampersand (&) used on landline circuits was to be "..."

DE FOREST SITE RAZED

In 1956 members of the Palo Alto (Calif.) Historical Society placed a large marker sign in front of the house where Dr. Lee de Forest worked in 1912 with pioneers Charles Logwood, Herbert Van Etten and others. Today only the metal historical marker remains at the site. To the surprise and consternation of local historians, the house behind it was recently bulldozed but apparently the razing was legal.

MUSEUM STORE

The Town Historical Society will again operate a small store at the Academy. There will be many radio items available: books, parts and receivers. All proceeds will go to the general building fund. Be sure and stop in.

SOUNDS VINTAGE

is the title of a new British publication. Advance publicity indicates it has much to offer the old time radio and phonograph buff. We've subscribed but haven't received a copy at this writing. More later.

73, B.K.
NEW ENGLAND

NEW ENGLAND A.W.A. REGIONAL MEET

SATURDAY, AUG. 11
The New England Museum of Wireless
and Steam
Tillinghast Rd., East Greenwich, Rhode Island

AWA members in New England and adjoining states are invited to a one-day meet at the fabulous N.E. Wireless and Steam Museum.

PROGRAM

9 A.M. Gate Opens ($1 registration fee to cover expenses)
FLEA MARKET
Visit Museum (one of the finest!)

NOON Lunch (bring your own or go to one of nearby restuarants)

1 P.M. Check in equipment for auction

1:30 P.M. AUCTION of old radios and associated items
(10% of sale to Museum Maintenance Fund)

2:30 P.M. DAY AT CANANDAIGUA including auctions (slide show)

Advance registration not necessary... just come and have a good time!

MINNESOTA

SATURDAY, AUG. 18TH

A group of AWA members in the Twin-City area are inviting all radio historians and collectors in Minnesota and adjoining states to their first "big meet". Infact, everyone is invited no matter where one lives... just come!

A full day of programming is planned:
--- big flea market
--- receiver contest
--- historical program (slide show)
--- visit to Wonderful Wireless Museum
--- tasty food
--- and most important... a GOOD time!

A temporary committee is working out the details. Start planning now!

Write for location and other information to:
Steve Raymer, 190 East Island Ave.
Minneapolis, Minn. 55401

or
Joe Pavek, 2832 Nicollet Ave.,
Minneapolis, Minn. 55408
THE LYONODYNE
Crystal Wireless Receiving Set
by Mike Tuggle

Impressed by the distance records set by crystal sets in radio's vintage days, we wondered if a modern-component crystal set could hold its own under today's crowded band conditions. Two years of study, experiment and revision resulted in the "Lyonodyne", a remarkably sensitive and selective crystal receiver.

Basketwork coil (L1), the heart of the set, interestingly is not a concession to vintage design but happens to be the best tuning coil found - better than any solenoid or high-Q ferrite tried. The set is tuned by one gang of variable condenser (C1); the other two gangs provide variable grounding, giving a sensitivity/selectivity balance and optimum response over the entire tuning range. Two crystal diodes are used in a voltage doubler detector. The switch selects either a grounded or ungrounded doubler, or a single diode detector. High impedance crystal earphones give best performance. A wavetrap (L2, C2) couples to the tuning coil to eliminate unwanted stations. The trap slides on a dovetail to vary the coupling and the sharpness of the null tuning. Connecting antenna and ground across the wavetrap forms a "loose coupler" circuit which gives even higher selectivity and increased low-end response.

Using an 85-foot longwire antenna in two years' operation from our north-east Maryland location, the Lyonodyne has received 344 broadcast band stations in 32 states, DC, and 4 Canadian provinces. Foreign countries heard include Cuba, Mexico, Dominican Re-

Note three-gang variable condenser at left (C1)

* Named, in a light vein by the author, after co-developer Terry Lyon.
public, S. Kitts, Dominica, Netherlands Antilles, Colombia and Venezuela. Most distant is Cali, Colombia at 2500 miles. Best verified reception is perhaps Newport, Tennessee - 450 miles on just 500 watts! Those "vintage days" may still be with us...

A future project is to reconstruct a Lyonodyne from strictly vintage components and materials: DSC coils, galena crystals, cat's whiskers, etc. - just to see what potential the old timers might have had at their hands.

- Mike Tuggle -

[Further details available from me, or in Reprint R-22 from National Radio Club Publications Center, Box 401, Gales Ferry, CT 06335, cost: 25¢ postpaid.]

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**FUN CATALOG**

Do you want to get "hooked" on reading a catalog? Send $2. to VESTAL PRESS for their latest illustrated catalog -- and then sit down and enjoy reading about available books covering: old time player pianos, pipe organs, musical instruments, music rolls, phonographs, jukeboxes, sheet music, records and tapes, motorcycles, automobiles, trolleys, steam engines, etc. . .

Yes, they handle all vintage radio books ("Flick of the Switch", 1927 Radio Guide, "Vintage Radio", etc.) plus the new Crosley catalog and of course Jerry Tyne's "Saga of the Vacuum Tube". If you place an order for this fascinating catalog, they will credit you $2. for a future order. Be sure and mention AWA.

VESTAL PRESS
Box 97, 320 N. Jensen Rd.
Vestal, N.Y. 13850

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**REMINISCE**

Have you restored an old receiver recently? If so, write and tell us about it....

---

**Les Concerts anglais à la portée de tous**

Cardiff: 5 WA 353°
London: 2 LO 360°
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Newcastle: 5 NO 400°
Glasgow: 5 SC 415°
Birmingham: 5 IT 420°
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Reçu à plus de 1,000 km.

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**Nouveau Poste “STUDIO”**

It has been suggested the OTB print something for the many overseas members. As a start, here is an early French advertisement of the mid 20's describing a beautiful 2-valve regenerative receiver.
There has been controversy as to the first broadcasting station, but there has been little doubt that the first broadcast program occurred on January 4, 1923, as a simultaneous transmission from WEAF New York and WNAC Boston of a New York-originated program. This program started at 8:03 PM with the selection "Habanera" from Carmen by Bizet, sung by Davola Kadernayn. This was followed a few months later with a more extensive network transmission originating at Carnegie Hall and broadcast by WEAF New York, WGY Schenectady, KDKA Pittsburgh, and KYW Chicago using facilities supplied by AT&T Co. This was followed quickly during the summer of 1923 with the construction of a second Telephone Company station, WCAP in Washington, D.C., and the regular linking of this and other stations with programs from WEAF. Facilities specially engineered for this purpose were originally called the "Red Layout", later the Red Network.

Operation of the broadcasting network required close coordination between the point of program origination and operating points along the network for proper switching of circuits and for making required station break announcements. It was determined that some special, readily identifiable, aural cue was needed. Voice cues by the announcer did not work with sufficient reliability to be satisfactory. As a result the four-tone Deegan chime, frequently used to announce dinner, was tried as an aural cue. It is not known who selected the chime melody used, but a seven note series as shown in Figure 1 became the red network cue and was used until operations under NBC moved to 711 Fifth Avenue. Both studios at 195 Broadway were equipped with a four tone chime for network cues.

In 1927 the new NBC broadcasting operation moved from previously used studios at 195 Broadway and 33 West 42 Street to the new studios at 711 Fifth Avenue. With this move came many changes, including a change to a simpler three note network cue consisting of the notes G, E and C in that order. This chime cue was also used on the newly formed Blue Network of NBC headed by station WJZ. This method of cueing for station breaks using hand operated chimes and the three note NBC aural logo continued until shortly after the move to Radio City in 1933.

Sometime during the latter part of 1933, O. B. Hanson and R. M. Morris of NBC Engineering Department visited Captain Richard H. Ranger at his home in North Newark. This visit was for the purpose of inspecting and becoming better acquainted with an electronic organ developed by Captain Ranger. This organ, one of the first of its kind, bore little resemblance to later developments in this field, such as the Hammond. It was quite complex and had many features of the pipe organ but the equipment consisting of count-

FIGURE NO. 1

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FIGURE NO. 1

some special, readily identifiable, aural cue was needed. Voice cues by the announcer did not work with sufficient reliability to be satisfactory. As a result the four-tone Deegan chime, frequently used to announce dinner, was tried as an aural cue. It is not known who selected the chime melody used, but a seven note series as shown in Figure 1 became the red network cue and was used until operations under NBC moved to 711 Fifth Avenue. Both studios at 195 Broadway were equipped with a four tone chime for network cues.

In 1927 the new NBC broadcasting operation moved from previously used studios at 195 Broadway and 33 West 42 Street to the new studios at 711 Fifth Avenue. With this move came many changes, including a change to a simpler three note network cue consisting of the notes G, E and C in that order. This chime cue was also used on the newly formed Blue Network of NBC headed by station WJZ. This method of cueing for station breaks using hand operated chimes and the three note NBC aural logo continued until shortly after the move to Radio City in 1933.

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ton operated electric chime would be preferable to the method then used. The discussion concluded with the suggestion that Captain Ranger prepare a design of such a device and present it as a proposal to NBC. It was hoped that a reasonably simple and trouble free design, suitable for network use, would be forthcoming.

Somewhat to the surprise of NBC Engineering it was only a month and a half or so later that Captain Ranger appeared with a working model of his proposal. (See Figure 2) It consisted of a unit suitable for rack mounting in which the chime tones were produced by three sets of 8 metallic reeds which plucked in sequence by studs on three motor driven drums. It was a small electric music box. Tone from the reeds was obtained by capacitive coupling of adjustable fingers mounted above each reed.

![Fig. 2 Col. Ranger and O.B. Hanson holding the first electronic chime.](image)

Tests of the new Rangertone Chime indicated that it had many desirable features but had a tone quality quite different from the soft voiced Deegan chimes. This problem was referred to the music experts of NBC with the result that Ernest LaPrade, concert master for Walter Damresch and the Music Appreciation Hour, was assigned to work with Roland Lynn of the NBC Laboratory to achieve satisfactory tone quality from the new chime machine. After many days of effort, since both men were perfectionists, a pleasing but distinctive tone quality was achieved. After the necessary circuit changes were made in the studio control system, the new electronic chimes were put on the air in New York, and orders were placed for additional units for other major program originating points.

The Rangertone Chimes were used successfully by NBC for several years until they were replaced by all electronic chimes developed by the NBC Laboratory about 1939. The NBC Chimes were used on early television programs in the forties and early fifties and were even accompanied for a short time by a visual logo of a three bar chime in color. As television became dominant and switching was accomplished on a precision time basis the need for an aural switching cue faded. The three note G - E - C chime had however become well established as a trademark and aural logo of NBC. A musical selection based on the three note theme was written which is still heard as the theme for "NBC Movie of the Week". The three chime notes are also heard regularly as an aural logo for the NBC Evening News programs.

An interesting sidelight on the chimes occurred in 1938 during a trip the author made to England, Holland, Germany and France to observe progress in television in these countries. D. C. Birkenshaw of BBC one evening commented that he frequently listened to programs from the States over short wave from the General Electric stations at Schenectady. He thought it was most ingenious of them to use an aurally codd identify for the G. E. stations by using chimes with the notes G - E - C for General Electric Company. I tried to persuade him that the chime signal came from NBC and had nothing to do with General Electric. I'm not sure he really believed it.

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**NOTE TO RESTORERS**

The "Show and Tell" session at the coming Conference invites everyone to display their restoration projects. Complete or otherwise in process may be displayed on tables during the session. Photos before and after are also of interest. The restorer will be given an opportunity to show and tell about their project. The time: Saturday afternoon, Sept. 29th.

----- see you then... Mel Comer
I just finished restoring a Stromberg-Carlson Model 601 neutrodynes, commonly called the "Treasure Chest". As usual the two vernier reduction gears on the variable condensers were very distorted and cracked due to stress growth as in most early pot metal castings.

With a little searching I found two perfectly matched gears at a local power transmission supply house. The two smaller pinion gears in the set made of micarta were ok, so I only needed the larger ones.

Unfortunately, the bore of the new gears was larger than needed so I had to bush the bore from 3/8" to the required 5/16". This was done by rolling up some brass sheet cut about 1 x 3/4" to make the bushing.

I then pushed the gear bore over the bushing and tightened the set screw which is standard on the new gear. Before final installation, I degreased the gears and painted them flat black to blend better with the set interior.

These gears are available to members restoring a S-C 601-602 from:

Bearing Speciality Co.
90 Windom St.
Boston, Mass. 02134

The cost is $30. per pair, not much considering that they make an easy job of an apparently hopeless one. Specify gears H-32160 and add sufficient postage for 3 pounds. Note: only the front panel of the set needs to be dropped to install the gears over the shaft.

Wally Worth, Wollaston, Mass.
(Ed. note: See OTB 7-4-19. Also, gears may be obtained from Boston Gear.)

AWA'S OLDEST WORKING MEMBER

The following copy is from a New York newspaper:

Hugo Cohn is a 91-year-old employee of the New York City Department for the Aging, who says that one of his main purposes in life is to serve as an inspiration for his fellow senior citizens.

Mr. Cohn received an Electrical Engineering degree from Columbia University in 1909, and shortly thereafter formed his own company, Radio Receptor Co., Inc. to develop and manufacture radio and electronic equipment and parts. He served initially as an officer, and then as President of this firm, remaining in this latter position until he retired in 1958. He pioneered in the development and manufacture of radio range beacons and equipment for guiding airplanes from airport to airport. Many other ingenious devices, including transistors, were developed by his firm, most of which were used by the armed services during World War II.

Mr. Cohn has been an AWA member for several years (See OTB 15-3-8) This remarkable 91 year old radio pioneer still reports to his office 5 days a week in Lower Manhattan. Hugo was going on 13 years old when Marconi spanned the Atlantic in 1901. What were you doing in 1901?
The Antique Wireless Association
"An amateur organization devoted to the history of wireless"

SHERATON INN
CANANDAIGUA, N.Y.

On Rt. 20 directly on beautiful Canandaigua Lake,
770 South Main Street, Canandaigua, N.Y. 14424

SEPT. 27, 28, 29

REGISTRATION with meals MUST be
made through Treasurer Dexter Deelley,
8 Briar Circle, Rochester, N.Y. 14618
before Sept. 22. Unlimited regis-
tration for all other activities at door.

No Flea Market operation without re-
gistration badge. Absolutely no admis-
tance to Meeting Rooms without badge.

TRAVEL: Although most members will travel by car, the nearby Rochester Air-
port is convenient for those who wish to fly. Rental cars are available at the Air-
port or you may obtain a ride with a local member. If you desire a map with di-
rections to Canandaigua and the Museum from the Airport, write AWA Headquar-
ters at Holcomb, N.Y. 14469. In addition, Greyhound Bus has a regular route
through Canandaigua from New York City and Buffalo.

AUCTIONS: Members wishing to sell equipment MUST register equipment dur-
ing hours noted. Equipment will not be accepted after times noted. Obtain instruc-
tion sheet at Registration Desk.

MOTEL RESERVATIONS: There are many motels and eating places in the area.
See listing. Although it is advisable to reserve your room in advance, space is
always available if you don’t mind driving a short distance.

OPEN HOUSE
A.W.A. ELECTRONIC
COMMUNICATION MUSEUM
East Bloomfield, N.Y.

VISITING HOURS

THURSDAY, Sept. 27
3 - 5 P.M.
7 - 10 P.M.

SUNDAY, Sept. 30
9:30 - Noon
2 - 5 P.M.
The Museum will NOT be open Friday or Saturday.
THURSDAY

3 - 5 P.M.  A.W.A. Museum open  (East Bloomfield)
3 P.M.      REGISTRATION starts at Sheraton Inn  (Main lobby)
            (Pickup up program and Auction Instruction sheet)
7 - 10 P.M. A.W.A. Museum open
8 P.M.      VACUUM TUBE GROUP Meeting  (Small meeting room)
            A special session for members interested in collecting and
            identifying early vacuum tubes.

FRIDAY

Main Meeting Room (Sheraton Inn)

8 - 11 A.M.  Check in material for General Auction
             (Instruction sheet at Registration Desk)
8 - 11 A.M.  Check in equipment for OLD GEAR CONTEST
             (Right corridor - first floor)
8:30 A.M.    Bus leaves for LADIES' TOUR
9:00 A.M.    A.W.A. AMATEUR MEETING  Ken Gardner, W2BGN
             A meeting and get-together for members who are radio amateurs
             and who participate in AWA Nets and Contests. Bring your OT Rx
             and Tx for display.
10 A.M.      EARLY CANADIAN SHORE STATIONS
             Aaron Solomon, VE1OC, Dartmouth, Nova Scotia
             This is the first paper to be given on commercial activity in Canada.
             His illustrated talk should be of interest to all, particularly SOWP.
11 A.M.      OLD, OLD TIMERS CLUB Meeting
             Everett Gibbs, W8AQ, Wadsworth, Ohio (Chairman)
             Special demonstration of "ring-of-fire" spark transmitter by
             Joe Meyer, W2VW.  (Group picture to be taken)
11:30 - 1 P.M.  View equipment for General Auction
1 - 4 P.M.    GENERAL AUCTION  Joe Pavek, W9OEQ Auctioneer
              10% of sale to AWA Museum Fund
              (Auction registration and issuing of numbers starts at 12:30. Front
              seats reserved for registered participants. Strictly enforced.)
7:00 P.M.    PIONEER DINNER  Rod Phillips M. C. (KYW)
8:00 P.M.    Tribute to THOMAS EDISON
8:30 P.M.    "The FEMININE TOUCH"  Lou Moreau, W3WRE
             A fascinating story covering 100 years of communication
9:30 P.M.    A.R.C.A. Meeting, Ralph Williams, N3VT

FLEA MARKET  All flea market participants MUST display 1979 Conference
Registration Badge with NAME at ALL times. Be sure and register (Sheraton
Lobby) on arrival to Conference.
SOMETHING FOR EVERYONE.....

SATURDAY

8 - 9:30 Check in tubes for Tube Auction (Pickup Instruction Sheet at desk)

9:30 A.M. AMATEUR EQUIPMENT OF THE 1930'S
Illustrated show by John Nagle, K4KJ, Herndon, Virginia
Both collectors and amateurs are showing increasing interest in classic receivers of the late 20's and 30's. John has written several articles on the subject. Don't miss this one.

10:30 A.M. VACUUM TUBE AUCTION Bruce Roloson, Auctioneer
Minimum value of tube $5. Lesser value tubes must be sold in packaged groups. Maximum number of items sold (tubes/packages) limited to 10. State condition of tube -- otherwise sold as "unknown".

LADIES' LUNCHEON and PROGRAM (Information at Registration Desk)

1:30 P.M. EARLY TELEVISION DEMONSTRATION using Nipkow disc
Bob Lozier, Monroe, North Carolina
This may be your first, and who knows, your last opportunity to witness television the way it was 50 years ago.

2:15 P.M. A PICTORIAL HISTORY OF EARLY VACUUM TUBES
Lauren Peckham, Breesport, N.Y.
A spectacular slide show of early tubes -- how to identify and their value.

3:00 P.M. SHOW AND TELL how to restore and repair old equipment
Mel Comer, Ardmore, Pennsylvania
One of the most popular events of the Conference. Everyone invited to participate. Prize to outstanding contribution.

6:00 P.M. COCKTAIL HOUR

7:00 P.M. The GRAND BANQUET Ed Redington, W4ZM, M.C.
Recognition of early pioneers
Awards to equipment contest winners
Conference Award
A.W.A. Contest Award
HOUCK Awards

Program participants: Charles Brelsford, Ken Gardner, Bruce Kelley, Ralph Williams, Bob Morris

Honored participants: Elizabeth Zandonini, W3CDQ, Washington, D. C., Don Matteson, Curator, Ford Museum, Ray Hutt, NN3SI, Smithsonian Institution

Instruction and Registration sheets for BOTH auctions available after August 15 by sending S. A. S. E. to: Lauren Peckham
Ormiston Rd., Breesport, N.Y. 14816
NATIONAL HISTORICAL RADIO CONFERENCE

OLD EQUIPMENT CONTEST

LOCATION: Meeting room on main corridor at right of Motel Registration desk.

TIME: Check in equipment Friday morning between 8:30 to 11:30 AM. Remove equipment Saturday afternoon. Guard on duty at all times.

CLASSIFICATIONS

1. - Crystal sets
2. - Regenerative receivers
3. - Tuned RF receivers
4. - Superheterodyne receivers
5. - Miscellaneous receivers
6. - Spark transmitters
7. - Tube transmitters
8. - Vacuum tubes
9. - Edison's contributions to communication: telegraph, radio or any other form.
10. - Other Edison artifacts and papers.

Bring examples of his work in the electrical field, chemistry, machines, etc.

Ribbon Awards. Ralph Williams, N3VT Chairman.

MOTEL RESERVATIONS: Make reservations directly with motel of your choice and not thru AWA. We suggest you make your reservation early with deposit. Following is a list of motels in the Canandaigua area. The Trenholm and Valley are each about 7 miles from Canandaigua: (Canandaigua zip code is: 14424)

- Lakeside Motor Lodge, 100 Lake Shore Drive
- Kellogg's Motor Inn, 130 Lake Shore Drive
- Blue Gables Motel, 451 Lake Shore Drive
- Heritage Motel, Route 5 & 20 (East)
- Georgian Motel, Rte. 332 (north Main St.)
- Sheraton Inn, 770 S. Main St.
- Trenholm East Inn (At Thruway Exit 44)
- Valley Motel, Rte. 5 & 20, Holcomb, N.Y. 14469

(1 mile east of AWA Museum on road to Canandaigua)

LADIES' PROGRAM

Special LADIES' TOUR and LUNCHEON: Bus leaves Sheraton at 8:30 AM Friday. First stop will be the beautiful Greek revival mansion Rose Hill where coffee will be served. Then to Venture Vineyards where grapes are being harvested and a hayride awaits those who are more venturesome.

The next stop is Belhurst Castle on the lake, noted for its cuisine where you will have three luncheon choices. Then off to Leeswood Farms, the largest training center in the north-east for Tennessee Walking horses where you will see some of the foals as well as a riding exhibition. Make Friday the highlight of your vacation weekend at Canandaigua. Price is $25. per person, all inclusive.

LADIES' SATURDAY LUNCHEON and PROGRAM will be held in the TIFFANY Room (adjacent to the Sheraton's Main Dining Room) at 12 noon. Sign up early for this event. There will be door prizes.

ACADEMY STORE: Be sure and stop at the Historical Society's Store when visiting the AWA Museum. They handle a large stock of current radio catalogs and other publications for the collector at discount prices as well as gifts for the ladies.
QUE: I have a W.E. VT-1 tube which has been painted yellow around the top of the tube. Does this have any particular significance?

ANS: The yellow paint indicates that the tube did not meet some of the requirements laid down by the U.S. War Department, hence is classed as "second grade".

QUE: I have started to collect early RCA tubes with brass bases, such as the UV-201 and UV-200. I find that I have five (5) UV-201s, all of which appear to have different internal constructions. Didn't they standardize these early tit-top 201s?

ANS: The early 201s were made by General Electric, Westinghouse E.&M. Co., and Westinghouse Lamp Co. Each followed its own construction practices. For further details, see pp. 308 to 311 of "The Saga".

QUE: I also note that some 200s and 201s appear to almost identical in construction. How could this be?

ANS: The only difference the early UV-200 and the early UV-201 was the vacuum. The UV-200 had an internal gas pressure of 0.06 mm. Hg, while the UV-201 was pumped to as high a vacuum as possible with pumps then available.

AWA member John Ludlow (Altrinham, England) read with great interest the article in the Dec. '78 OTR covering the history of Press Wireless. A radio historian of some note, he has written a report on the longwave transatlantic station GBR for the British Science Museum.

John sent AWA a detailed description of GBR and enclosed the above picture showing the 500 kw. water-cooled Metrovick tube in the final. It has an unique feature: the tube is designed with hydraulic rams which raise the entire electrode assembly from the lower anode for repairs!
The Dayton Fan & Motor Company was incorporated in Dayton, Ohio in 1889 to manufacture fly and ventilating fans for use in hotels, bars, restaurants and stores. I can recall seeing their products as a youngster (1912). The fans were propelled by either electric or water power. The company had at least five different locations through the years.

Late in 1921, my boss, M. D. Larkin, president of M. D. Larkin Co. (electrical and mill supply distributor) was also president of the Dayton Fan and Motor Company. His success in the former as a distributor of RCA, Magnavox and other radio equipment prompted him to get into the field of radio using Day Fan Company as the manufacturer.

Capt. O. E. Marvel of the Mc Cook Field Radio Laboratory (he had been in the Signal Corp during WWI) was hired to design and build the radio components for the new division. Their objective: to compete with the Atwater Kent breadboard line; namely, AF and RF transformers, rheostats, variometers and other items.

This lead to the design and manufacture of Day-Fan products including a complete line of battery sets consisting of the OEM-7 and II models and other types of TRF and reflex receivers (1923). This production soon outgrew their plant facilities.

Fortunately, a Charles F. Kettering joined the company about this time and invested a large amount of money enabling Day-Fan to expand. Kettering became president in 1925 and moved the manufacturing facilities to another location on the south-west side of Dayton in 1926. This made it possible for the company to enlarge their engineering department and streamline production operations.

Three Tube Set With Five Tube Range

Model OEM-II

The OEM-II receiver uses two amplifying tubes and one detector tube. The amplifying tubes do double duty. The detector tube operates as a standard detector without regeneration. Through this method the volume and range is equivalent to a five tube set.

One of their first developments at the new site was a motor-generator designed to provide a source of high voltage for operation from a farm lighting plant (32 volt Delco system). This was followed by an attempt to convert their stock of battery sets to AC operation by using Kellogg type heater tubes. This venture was not a great success because of the rapid development in tube design. All AC operation was just around the corner.

In 1927 the name was shortened to Day Fan Electric Company. By this time O. E. Marvel was vice-president. He later resigned and entered the hearing aid field with the Sonotone Co. developing an audiometer testing service. Marvel died in White Plains, N. Y. in 1941 at the age of 55.

A milestone in Day Fan's history occurred in 1928 when Kettering was instrumental in forming the General Motors Radio Corporation with ownership consisting of 51% GM Corporation and 49% RCA. This company absorbed Day Fan assets and proceeded to de-
sign and build a new line of all-electric "General Motors Radios" for the next several years.

Please note that in Morhan McMahon's book "1921-32 Radio Collector's Guide" on page 55 he refers to Day Fan sets to General Motors Corp. page 77. All those listed from 1924 through part of 1929 were actually Day Fan products.

It is not actually known how many sets were produced in this period, but in talking with close friends who did "on-the-air-testing" from 1924 thru 1929, and later with a final inspection supervisor, it is estimated that nearly 500,000 had been made. Note that all Day Fan receivers were "air-tested" before shipping.

**Day-Fan Dayradia**

Although I was very much involved with Day Fan sales and service during these years, I am indebted to a friend who filled me in on much of the information in this short story of Day Fan radio. I might add that Dayton was also the home of several other well-known radio manufacturers such as A. C. Dayton and Kurz-Kasch Companies.

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**DX STATION DURING THE DEPRESSION by W2FW, ex-8FU**

Having no employment during the depression, I joined the U.S. Army as a Field Radio operator. I landed in Fort DeLesseps, Canal Zone. They had a ham shack built right inside the barracks upstairs at the Fort in a room 6 x 10 feet. It was the hottest ham shack I was ever in with the exception of one in a Liberty ship in the Red Sea during WW2.

K5AM was the call. They used a TNT rig with two VT-25 (Army 210) tubes with 6 volt storage battery for filament. The plate supply was a bank of 22.5 volt "B" batteries! 25 batteries piled on top of one another.

The rx was a Hammarlund Pro with plug-in coils. It was fun hamming from this DX location. Every time you sent a CQ you would get a dozen replies.

Around Xmas and other holidays we would get plenty of state-side traffic. After being here awhile, the Sgt. gave me a real FB job: working K5AM rig from 11 PM till 3 AM. Imagine being a Pfc in Signal Corps and only having to work 4 hours per night opeing a ham station?

Later, the Sgt. asked me to build a 300 watt rig. So I ordered the parts and we built a xmtr using 802 xtal osc., 210 buffer with PP 211 final. This time we used the Fort's power supply mains -- 110 volts at 25 cycles. This was power!

Besides having K5AM on the post, we also had a Post Radio station with the call WLZ. This station was powered from a big MG set each saturday morning on around 350 to 400 kcs. The station was used primarily to contact mine planter ships.

---

**S.O.W.P. QSO PARTY**

0002 Z June 9 thru 2359 Z June 7

55 kHz, up from low end of each band. Objective: work at least 10 SOWP members for certificate. Send logs with SASE to Pete Fernandez, W4SM.

Need a commercial-built A-B-C supply to power your old battery sets? Write: Gary Schneider, 6848 Commonwealth Blvd., Parma Hgts., Ohio 44130

---

**A.R.R.L. MUSEUM**

The A.R.R.L. Museum at Newington, Connecticut is open again after having the equipment in storage during a construction program. A temporary Museum Staff which includes Laird Campbell (W1GUT), By Goodman (W1DX) and George Grammer (W1DF) have several charges on the agenda. Only amateur equipment is on display. More later...

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# TOP TEN PARTICIPANTS

<table>
<thead>
<tr>
<th>Station</th>
<th>Equipment</th>
<th>Score A</th>
<th>Score B</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1DM</td>
<td>VT2's, WE 211A</td>
<td>150w.</td>
<td>VTI's &amp; 216A's (Hetro rx)</td>
</tr>
<tr>
<td>W1PEG</td>
<td>6L6, 807, 838 pp</td>
<td>300w.</td>
<td>HRO super-het</td>
</tr>
<tr>
<td>W2LV</td>
<td>47, 46's, 210 pp</td>
<td>80w.</td>
<td>HRO super-het</td>
</tr>
<tr>
<td>K4TS</td>
<td>6L6</td>
<td>10w.</td>
<td>RME-69, Super-Pro and Patterson PR-15</td>
</tr>
<tr>
<td>W2HYN</td>
<td>6V6, 6L6, 811</td>
<td>75w.</td>
<td>NC-100X</td>
</tr>
<tr>
<td>W2BGN</td>
<td>205D's &amp; WE 211D</td>
<td>75w.</td>
<td>HRO super-het</td>
</tr>
<tr>
<td>W2AN</td>
<td>6L6's &amp; TZ-40</td>
<td>35w.</td>
<td>HRO super-het</td>
</tr>
<tr>
<td>VE3BDV</td>
<td>Single 6L6</td>
<td>25w.</td>
<td>NC-101X, F07-XXA</td>
</tr>
<tr>
<td>W2LC</td>
<td>6AG7, 807</td>
<td>40w.</td>
<td>Modern rx.</td>
</tr>
<tr>
<td>W1BVN</td>
<td>6AG7, 807, 703A</td>
<td>100w.</td>
<td>2-tube Reinartz</td>
</tr>
</tbody>
</table>

Score "A" - based on claimed contacts
Score "B" - is "A" less confirmed contacts due to stations not submitting logs, time discrepancies and alleged QSO's.


**Other Contestants using OT gear**

<table>
<thead>
<tr>
<th>Station</th>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1FMK</td>
<td>Rme-69</td>
</tr>
<tr>
<td>WICRP</td>
<td>Tx-6F6, 6L6</td>
</tr>
<tr>
<td></td>
<td>Rx- Regen 6J7, 6K6 l-step</td>
</tr>
<tr>
<td>W1DMD</td>
<td>Rx- unknown 1928</td>
</tr>
<tr>
<td>W2CRS</td>
<td>Rx- Sky Challenger</td>
</tr>
<tr>
<td>W2FW</td>
<td>Tx- 802, 807 &amp; 841, 210</td>
</tr>
<tr>
<td></td>
<td>Rx- FB-7X</td>
</tr>
<tr>
<td>W2IAG</td>
<td>Rx- FB-7</td>
</tr>
<tr>
<td>W3DLQ</td>
<td>Rx- HRO</td>
</tr>
<tr>
<td>W3HWX</td>
<td>Rx- NC-101X</td>
</tr>
<tr>
<td>N3VT</td>
<td>Tx-210 Hartley, Rx- HRO</td>
</tr>
<tr>
<td>W4AWS</td>
<td>Rx- QST Lamb SS</td>
</tr>
<tr>
<td>WB4JGZ</td>
<td>Rx- Comet Pro, RME-9D</td>
</tr>
<tr>
<td>K4JO</td>
<td>Tx- 310 Hartley</td>
</tr>
<tr>
<td>W5BOK</td>
<td>Tx- 41, 807, 811A Rx-Navy RAL</td>
</tr>
<tr>
<td>W5KL</td>
<td>Tx- unknown, Rx- SW-3</td>
</tr>
<tr>
<td>W7JY</td>
<td>Tx- 59, 807, 811A, Rx- RME-69</td>
</tr>
<tr>
<td>W7KL</td>
<td>Tx- 210MO, 410 PA, Rx- SW-3</td>
</tr>
<tr>
<td>W7LIX</td>
<td>Rx- S-20R</td>
</tr>
<tr>
<td>W8AU</td>
<td>Tx unknown, Rx- 1932</td>
</tr>
<tr>
<td>K8VBL</td>
<td>Tx-47 xtal, Rx- 1 tube regen.</td>
</tr>
<tr>
<td>N9TT</td>
<td>Rx- Navy RU-12</td>
</tr>
<tr>
<td>W0JE</td>
<td>Tx- 210, 210, 203A, Rx- HRO</td>
</tr>
<tr>
<td>VE3HD</td>
<td>Rx- HRO super-het</td>
</tr>
<tr>
<td>VE4ZX</td>
<td>Rx- SX-28</td>
</tr>
</tbody>
</table>

**REINARTZ RECEIVER AT W1BVN**

Pictured at right is the 1924 receiver used by Dick Briggs during the recent OT contest. Although designed for 201A's, he prefers 193's. The only modification from the original design is the plugin coil arrangement. National vernier dials helped fine tuning. A variable condenser controls regeneration.
OLD TIME TRANSMITTER CONTEST

SUMMARY

1979 was a banner year for participation, enthusiasm, contacts and fun. We achieved a new high in 73 entrants with 16 newcomers. There were 22 OT TX and 36 OT RX in use. Our way out winner is Art, W1DM from Darien, Conn. Congratulations Art for a great performance. It seems that Art doesn't take time out for eating or sleeping! He was always on the air! Second place is claimed by Bill, W1PEG, who climbed from fourth last year. Nice going Bill.

A newcomer stormed into fifth place. He made a big noise at W2HYN and Bill Shaw is already drawing a bead on the leaders next year. Two vets came up with two OT xmrts each, W1PEG and W2FW. KA1S used three OT Rx and VE3BDV and WB4JZG used two OT Rx each.

K3VBL claims a record. He used a 1 tube TX and a 1 tube RX! His TX was a single xtal controlled 47 tube, a la Grammer in Feb. '32 QST, 9 watts output to a double-extended zep. Tom's RX was a single 57 tube, plate tickler, into Type C Baldis. (Feb. '33 QST) hooked to a 75 foot wire up 20 feet. A Majestic super B eliminator and Pilot fil xmr for power. A 700 volt Thorndarson with 81's and 2 mfd. Tobe condensers powered the TX. Remember how nice he sounded?

Jack, W2FW sent a list of lots of OT parts for xmrts. Want some? Send Jack a SASE.

Wes, W5DPM, down in Sunny LA, quit at 8 PM because his shack was 50 degrees and his hands were too cold to operate! Put in a couple 204's for heat Wes....

Joe Keese, W8VSK, is the epitome of enthusiasm. He worked the contest, sent in his log, sent in his AWA application -- all at the same time. Wonder why he didn't build an OT TX and RX the same day? W9DZG got him going. W7JY, W6CG and W5TOS report hearing everybody in the East but couldn't raise them thru the QRM. Bud, W6CG, with a full Kw called the loudest sig, W2HYN, all evening and is going to bill HYN for lost power! Bud is in AMSAT and shifted from the OT Contest to commanding Oscar 8 and back into history again...just like science fiction.

After 30 years being off 80 meters, "By" Goodman, W1DX, got his biggest thrill working his old Raytheon buddy W1PEG. K1BH and W1CRP knocked each other cold. Seems that W1CRP is in Portland, Me. and K1BH sneaked into Portland harbor aboard the Coast Guard Cutter DUANE. Bill's home QTH is Kittery, Me. The steward must have gone ashore before re-setting Bill's bulkhead clock -- were you on Atlantic, EST or EDST ?? We had to add one hour to your logged times!

W1AB raised his eyebrows when K4JO said "6 watts to a CX-310" and he would have loved to tune W1BVLL's Reimartz tuner because that was his favorite receiver in the 1920's and early 30's.

W5KL pounded a 1918 Signal Electric key and thinks W1DM's 500 cycle MG gave a beautiful DC and keying.

An electric stove run on RF? Well, not exactly. Whenever W3QA got on 40 meters he triggered the solid-state controls of his YF's new range. Bruce had to pull the range breaker!

And now for the BIG surprise! J3AAC. VE42Z writes, "Am not sure of that prefix for W3AAC. Kept copying it as J3 which did not seem right, so I took it as W3." W2BGN wrote J3AAC thinking it must be W3AAC with a bum keyer. W1CRP writes, "Was called at approximately 12:15 AM Jan. 26 by a station signing J3AAC (and I am certain I copied it correctly) but it sounded phoney to me -- so I didn't answer. Any ideas?"

W7LIX writes, "W2BJI was operating from the island of Grenada, W1, using a call that doesn't agree with...."
NEW MEMBERS

AWA membership has increased by nearly 200 since the last IBM listing. Below are new members who are (or were) associated with electronic communication:

DALE MARTIN, W7LOG, Physic/Elec. Inst.
BILL LITTLEWOOD, W9HE, Zenith manufact. AACS, WOSH, etc.
HENRY RIEKELS, WA8OVK, Electronics Eng.
RUSSELL WEBBER, WA8JSW, General Radio Service
LEON STRENG, Philco, Ford Aerospace & Communication Corp.
KAREL CAMPBELL, W1CUT, Managing Editor QST magazine
R.I. CRANE, USAF Radio Relay Microwave
M. KUDER, ex-5CW, N.R.L. and National Bureau of Standards
AARON GEORGE, W5GZT, F.C.C./C.A.A./F.A.A
GEORGE HOLLAND, W1QKM, F.A.A., Philco, RCA, Bendix Corp.
ED PASCACHIOLO, W1MMG, Elect. Corp. of America
FRED BRIGHT, F.A.A. Electronic Engineer
STANLEY NOVAK, W2QV, STATION W1LT-TV
RICHARD BROWN, RCA Solid-state Division
DON FRANK, South-west Bell Tel. Co.
JOHN COUGHLIN, WDSPOK, WUCM-TV, WSGW, W1DQ, W1DL
SACHURO FUKUMA, Toyama-ken, Japan Electronics
AUSTIN COOLEY, ex-1LM, U.S. Navy radio, commercial ship-to-shore
THEODORE BANCROFT, Stromberg-Carlson, I.T.T. (505D)
EDWARD BORDEN, ex-3ALX, 2BUJ, 6XE, A.T. & T. Radio engineering
ROBERT GLEASON, W3KV, ex-7QT, etc., PAA, U.S.A.A.F., ARINC
JIM CRANSHAW, Continental Electronics
MICHAEL BALLOU, WB5X9, WGNW, W1WJ, WERQ
JACK DAVIS, RCA Service Company
HAROLD WHEELER, ex-3GK, Chief Scientist Hazeltine Corporation

WILLIAM VON ALSTINE, W2WI, WRR, WTRY
HOWARD JOHNSON, W1IIQ, F.A.A., Conner
WMJ, WA5G, KAA, WYQ, WXPX, KCCO, etc.
JOHN FINLEY, WHAYA V.P. Potomac Research Laboratories
LOUIS MATEO, W2BYK, K6GB, I.T.T.
Mackey Marine, etc.
JOE KEEFE, W5QK, Wholesale Electronics
SAM JANSEN, W6EN, U.S.C.C. Radio
WILLIAM HALSTEAD, Tele. Consultant
JAMES STEBBLE, National Assn. Broadcasters
GEORGE HERTZOG, K4SL, Radiomark Electronics Corp. of America
HENRY CHAPDELAINE, W2ZPA, ex-Chief Engineer RCA Electronics

SUMMARY

Contacts on 80 m. -- 546 Up 14
40 m. -- 222 50
20 m. -- 106 40
Total -- 874 104

WELCOME aboard the following new stations: K1BH, W1DW, W2BCU,
W2HYN, K2LP, W2RFY, W3HWT, WA3MAS, W411G, WB4JGZ, W5BOK,
W5KL, W8IX, W8VSK, N9TT, VE4XZ and J3AAC.

We missed some of the old timers and note that some DX worked:
W1DM qso'ed F8OB, W2LV - G2VZ and many worked J3AAC.

Come to Canandaigua -- we will bring all the logs and interesting letters for
all to see. 73, Ken, W2GBN

New Equipment

in A.W.A. Museum

W1UK, W2ABD, W2HYN, W2QO, K4SL,
K2OQ, W2EHA, W6SNK, C.Nichols

(OT Contest continued)

info I have on BW1 prefix -- that it
was VP2 so am really confused."

There you have it! Fran, W2BJI,
was on Grenada and operating legit
with the NEW prefix J3. Residents of
Grenada receive two letter calls and
visitors (such as W2BJI) get three
letter calls. Fran always gets snowed
under by DX'ers looking for new ones.
He adds an international flavor says
WIDM. W1WEG says that J3AAC gives
him another country toward his 5-band
DXCC.

Your author had the pleasure of visit-
ing J3AAC during March. What a ham's
paradise. Fran gets the biggest kick of
all working our OT Contest. If want
a qsl card, send a SASE to his home Qth.
40 and 20 were very active this year
and promise more contacts next year,
so be prepared. Now is the time
to be scouring and building and dream-
ing of those cold clear winter
nights when all
OT signs sound
like bells on a
gentle breeze.
PORTABLE RADIO ANTENNA

HENRY FARKOUH, OF BROOKLYN, NEW YORK.

PORABLE RADIO ANTENNA.

Application filed November 24, 1925. Serial No. 71,079.

BY

ATTORNEY
OLD TYME HAM ADS

WANTED

-- Gutman U-36 transmitter, Sargent MA-12 receiver. David Thomas, 1207 Comanche, Tampa, Florida 33604
-- chassis for AK mod. 456A cabinet, chassis for FE11 cabinet, cabinet for 7x17 to 17 1/2", cabinet for panel 4x22; prefer Fada. Wallace Geary, 230 W. Sandera, Mt. Pleasant, Iowa 52641
-- cabinet for AK-20 compact, vernier dial for AC Dayton XL-25, E. Allison, 5525 20th Ave., Sacramento, Calif. 95820
-- Crosley 50/30A, X, Aee. amp. 2b or 3b, Harko items in any condition. Dave Crocker, Tavern Path, Plymouth, Mass. 02360
-- Allen-Bradley & Soncotron 3 tube resistance-coupled amps., Have for sale new #22 gage DCC wire. Gary Schneider, 6645 Commonwealth Blvd., Parma Hgts., Ohio 44130
-- Info or photo of Priest Straight 8" (PR-4) loop antenna, base and driver for Thorola 1" horn, AM tran. AF-6 (5:1 ratio) for Fried-Eisemann NR-20, 2nd alt. BASE for 30-40 list. Larry Dighera, Box 12100, Santa Ana, Calif. 92712
-- 120 volt for 1923-24 RCA red book, any service manuals, Radiola II bulb, Amp., Radiola II, IV, V, VI, Grand, Dallas Swindal, 112 San Jose Lane, Hanahan, S. C. 29416
-- Speake, for 1924 Radio Service Laboratory receiver Type B2 and a Bremer - Tully Mfg. Co., B'TB Powerunit 50/60 cycle 120 volt, SN27138. R. W. Randall, KGARE 1263 Lakehurst Rd., Livernmore, Calif. 94550
-- any info or Gecheng BC220, I have cabinet. John Webb, 6537 Squirell Dr., San Jose, Calif. 95129 (408-257-3719)
-- IF shield cans, wavelength and oscillator coils & shield cans for Hammond Comet Pro., NC-100 or NC-101 in restorable condition. AK drum type speaker. Dale Martin, 2153rd Ave. S. E. Bellevue, Wash. 98007
-- Large Crosley 5l knob, RADA transformer, Radiola IV parts, 50A1 bass tub, Federal 50 radio knobs. Merrill Bancroft, 169 So. Row Rd., Townsend, Mass. 01659
-- Bellant tube #867 & 9P6, voltage regulator #UP519, knob and dial light for Radiola 18, power supply for Radiola 44, Will buy or trade tubes. B. Barbeck, 1316 38th, Sioux City, Iowa 51104
-- Sparkon Model 16 A. W. Console receiver. Harvey Carver, 205 Mission Ridge Rd., Rossville, Georgia 30741

WANTED

-- diagram with alignment procedure for Zenith 541Y chassis, also Jefferson alt and Radiola Type R-21 with 5:1 ratio, H. B. Davis, 1209 N. Market St., Dayton, Tenn. 37321
-- rheostats for Crosley 52, bottom lid for Pep, Amp, aluminum dragon horn, Grebe CR-9, Will trade British crystal sets. A. R. Nol, 7 Cambrian Way, Ewloe Clwyd, North Wales, United Kingdom H53RE
-- RCA Radiola 66 highboy cabinet. Radio parts not necessary, will accept if present. Write: Faust Giutini, 6529 So. Keeler Ave., Chicago, Ill. 60629 (P. 312-707-3533)
-- schematics, manuals, photos & related material for merchant marine receivers made by Kibourne & Clark, Cutting & Washington, Wireless Egerth, Heintz & Kaufmann, H. L. Chadbourn, 330 Midway St., Fair Haven, N. J. 07704
-- AK 32 speaker, NC57, Globe King 300 B-L, Globe WFO755A, B&W 5100B, Gonet 3018, Gerhass Radio Serv. Manuals, WRL catalogs, Heath VF-L. John Schwerbel, RD 1, Box 215, Catskill, N. Y. 12414
-- Hallcrafters, SuperSpec model, S-4. This model built 1935 has panel mounted spkr, back lighted circular dial & 7 tubes. Write: WAYSX, 6621 Duffield, Dallas, Texas 75248
-- D32 or 5113-13-14 Sodin tubes. Stanley LaDage, WE2Z, 421 Oakdale Ave., Maple Shade, New Jersey 08052
-- Aiwater Kent Type H speaker and Radiola 100A speaker. Also early crystal set. Sam Rotondo, 16 Van Vorst St., Utica, N. Y. 13501
-- Information on Bosch Little '6' Mod. 45. Need schematic & parts list. Need to know value of grid resistance in first 3 stages and detector. Lawrence Moser, 3535 S. Clarkson St., Englewood, Colo. 80110
-- Cutting & Washington radio diagrams, pictures & info, Radiola 18 dial hole hood, Riders Radio Vol. 20, 21, 22, 23, Joseph Schlosser, 322 N. Market St., Galion, Ohio 44833
-- National coil forms, 6-prong 'XR-6', and special ceramic 6-prong sockets type XCF6. Also National impedance coupler S-101. Don Shuehahn, 15 Arcadia Rd., Andover, Mass. 01810
-- Hallcrafters Mod. St thru S-7, DO-1, S-T, SX-10, SX-12 & other early Hallcrafters receivers/transmitters, parts & manuals. Chuck Dachis, WDELO, 1600 Russell, Austin, Texas 78745
- 1929 book titled "All-Electric Radio Receiver Design" by B. F. Messier, to buy or borrow. Alan Douglas, Box 225, Pocasset, Mass. 02559
- From RS-WSM catalog, rep. picture & description of Marcon No. 458 crystal receiving set. Clarence Felley, WTKF, 1109 S. 2nd St., Hamilton, Mont. 59840
- Rheostat & knob for West, DA amplifier. Large outside coil for Murdock keycorder. Jim Barrows, WIBCT, 1921 61st Ave., S.E., Bothell, Wash. 98011
- Crystal, knobs w/ plastic pointers & tech manual for SX-16 Super Skyrider. Also tech manual for BC-640B transmitter. Dick Chase, 2130 Market Avenue, Plainfield, N.J. 07060
- Radiola 24 cabinet lid or parts set. Grobe Synch 7: has anyone replicated the pot metal end pieces for the SLP tuning condensers? Need WDL duds for bases. Need original manuals for any make. Jerry Newton, Rte. 1, Box 262, Woodland, Calif. 95695
- Manual for Hammarslund SP600 IX17. Copy will do & I will pay. Am starting tube collection. Send availability list of your dupes. Miller Garb, KBS5, 925 Vienna Ave., Baton Rouge, La. 70801
- BME-69 or 70 with built-in DB20 or 5-10X. Also amateur accessories of the 30's. Construction projects from ARRL or Radio Handbooks of '30s. John Magee, X8, 12320 Lawyers Rd., Herndon, Va. (703-620-3096)
- Medical electronic oddities wanted, buy or trade schematics or antigues. Also, Pathoclast, Electro-Biomator, Radioclast, Calbro-Magnawave & old fashioned black balelite. Welcomes correspondence. Peter Nielsen, RR 3, Sky Fires, Sedona, Arizona 86336
- Generator's manual or copy for Scott Philharmonic radio, also Vol. 1 Radios Troubleshooting Manual. Need schematic for Supreme Mod. 592 VOM. Write:W41A, 2137 Grayson Place, Falls Church, Va. 22043
- One working power supply used in A-K mod. 40, 42, 44, 52, Will swap Radiola 25 with ant. for a Philco cathode #90, Bob Westrier, 1733 Pch Campus Drive, Baltimore, Md. 21207
- Phone (301) 285-8570
- Grebe CR-5 or Syncrophone tube socket & field. rheostat with thumbwheel. Will buy any parts available. S. Wolf, 15 Soldiers Field Place, Brighton, Mass. 02135
- Phone (617) 787-2800
- deForest knobs & pots for D-7, RCU-Victoria, etc. Notes 1923-1925, 1934-1942. Riders Vol. XIV. Sell cabinet & chassis (15), list for Sase, John Whiting, RD 2, Dover, N.J. 07801
- Crossley models Pup, 50, 50A and X. Also Radiola Senior Type I Special. 1. Adapters for Radiola WDL to Atlas, Joseph Brown, Box 327, Sudbury, Mass. 01770
- 2 or 3 Kellogg type early AC tubes. Must be in good condition. Will buy or trade. Lloyd Harrison 174 N. Hague Ave., Columbus, Ohio 43203
- Triode base for Martina 4 crystal set, Federal Jr. detector unit and any factory made crystal set radio, Bob Lessard, 4807 N.E. 5th St., Minneapolis, Minn. 55421
- Radio News for the year 1938 also 1940. Radio for yours 1932 and 1935. Cash Old issues of OTB. L. P. Rayner, 5512 1st Place, Scottsville, Arizona 85251
- One 8-8-8 md. 450v. can electrolytic, and seven 10 md. 600v. elect. condensers. New old stock preferred. Rodney Schrock, 403 Lincoln St., Somersett, Pa. 15650
- One for AK mod. F spark or junk mdk with good cone. A. Smith, Stoneledge, Lincoln, Mass. 01773 (617-259-8380)
- Combination Victor Electrola/Radiolas, large cabinet radio/phone combinations. Also any early radio phone combination units. State Mod., No., condition, price. Mark Kaplan, 120 Howell St., Canandaigua, N.Y. 14424
- RCA collector needs Radio V (AR-1300) crystal det. assembly. Also Aerilola Jr. & amp., Radiola Senior, Crystal set, 11, 21, 21B. X Regendeck & Radiola Grand. Larry Babcock, 6055 Centre Lane, E. Amherst, N.Y. 14011 (716-741-3082)
- Small 1, 2, 3, tube battery sets, crystal sets & early wireless gear. Need not be in working condition. Should be restorable. Send price and description. David McKenzie, 170 West 53rd St., Hialeah, Fl. 33012
- Na-Alad adapters Mod. 421X or Marco adapters #306, also Marco 185 & 186 & Na-Alad Type 420 Connector. Need a dian ring clamp for Radiola AR12 & Riders III, Charles Conn, 500 E. Daniel, Albany, Mo. 64402 (618-726-2898)
- AK broadcast any condition, also little Gem crystal set, QST & Pop Mechanics 20's & 30's. Have Riders manuals, tubes, Supreme 551 & 563, etc. cash or trade. James Notaris, 1100 Welsh Road, Ambler, Penn. 19002
- deForest 7-A coils, Webster 2A chassies, Blubird (Hanson Storage Co.) chassies, AK5 AF unit, Radak amp. Stevalange, Box 33, Waldo, Wisc. 53093
- Federal and Eric parts, Will buy or trade. Harlan, 7231 60th Ave., N.E., Marysville, Wash. 98270
- May thru the area to complete collection need Radio Broadcast July, Sept. 1925 and Popular Radio March, May 1926. Jim Hager, 7532 Genesta, St. Louis, Mo. 63123 (Teal. 314-752-4471)
- pre-1930 factory manufactured amateur transmitters (for contest). Also 1) Fault tuning knob used on 160, 175, 185, etc. plus info on Martin 'Big Four' set receiver. John Nowak, ADE, P.O. box 73, Kennebunk, Maine 04043
- Wish to contact former employees of Wireless Specialty Co., from 1920's. James C. Reznicek, 958 Main St., Cohoes, New York 14026
- Wanted dead or alive Midwest radio speaker from '30s era with field coil. Jim Webb, 496 6th St., Atco, N.J. 08004
- Books on TV, magazines, TV advertising pieces. Single items or collections. Wanted by collector/ historian. Anything by Alfred dinsdale, Ronald Tillman, Francis Jenkins, etc. pre-1950 TV sets. Ford Mitchell, 2063 53rd St., Lubbock, Texas 79412

NOTICE: Deadline for the "Old Time Ad" is July 15. Out-of-state members are advised to mail no later than JULY 10!
WANTED

-Riders L-4, Instruction (lid) and hookup (back) labels for NR-5 (dupes ok), U21320, Radiola 3-A, Baldwin phone cord, Brian Harrison, WM4KJ, 3227 Sudbury, Charlotte, N. C. 28205


-schematic and price list for Zenith Mod. SM-19, auto radio and Majestic Mod. 68 auto radio. Raymond Friend, 236 W. Pearl St., Butler, Penna. 16001

-Gilflag CN-3, State price and condition. Rick Taylor, 7136 Lea Road, Chattanooga, Tenn. 37421

-part or whole: Grebe CR-5 or any other CR series, ROHK am/tv, H.M. Scott fm tuner or any other 42-50 mHz (in items: Browning, Reo, etc.) other Scott items. Al Germond, 271 Brenda Ln., Columbus, Mo. 65201

FOR SALE and/or TRADE

--1924 Thompson neautradyne, mint w/born screen, spkr. and tubes, mint condition. Want Pilot and Super-Wasp coils or what have you? W5BOK, Rl. 1, Box 101, Shepherd, Texas 77731

--sell or trade: audio-trons with open filaments, tungar bulbs in orig. cartons (2 sizes), telegraph relays, microphones, SAS for details. D. Shanks, 115 Baldwin St., Bloomfield, N.J. 07003

--sell AK breadboard, voltometer, type Lr rt transistor in orig. box. Also 5 tube King Quality receiver w/closed box, Harvey-Well TBS-50 xmr w/300. Harry MacLean, VE3GRO, 163 Meridene Cr., W. London, Ont., Canada N5A 1G3


--various egs, instruments, parts, books, tubes, mics. Stamp for list. Henri Chapdelaine, 180 Oakland Ave., Manchester, N. H. 03103

--hundreds of old battery set parts, you name it: condensers, var- meters, rectifiers, contacts, tubes, QSTs, etc. Want-Ekay receiver, any model in good condition, cabinet for AR 30C. Keith Parry 17657 Horace St. Granada Hills, Calif. 91344

--Atwater-Kent Mod. 10 bread- board. Excellent condition but missing one coil assembly. No tubes. Alex Black, 102 Mineola Drive, Syracuse, N. Y. 13224

--Fed xtal set (very clean) with orig. booklet $105, also same without xtal radio & equipment w/catch wkhb @ $125. Also repog of Encyclo- pedia of Radio Receiving sets, 1226, 24 ps, 168 mfgs, 250 pix @ $3.50 F. Paul, 1945 Raymond, Glendale, Calif. 91201

--Rare Marconi brass buttons re- moved from radio officer’s uniform, 2 sizes each with large letter “M” made in London, believed pre-wwl of Titanic period. Sase for more info. Dex Deley, 6 Briar Circle, Rochester, N. Y. 14618

--trade Deforest DJT chassis, AK cond & coil, Federal radio & AFT, Acme A-600 cond. Want any Grebe chassis, CR bakc. tube set, CR aft’s, Nat. SW-4 duo-coouler. C. Byrones, 120 Sycamore Terr. #102, Sunnyvale, Calif. 94086


--large collection of receivers & components must be sold in southern Colorado. You haul them away. No delivery, SASE for info and list. W. F. Wimpy, R. F. Wimpy, 9 Belden Ave., Sodus, N. Y. 14551

--book in good condition: Edison and his Inventions, printed 1876, contains diagrams. Also lithograph bottom of Edison 15/16” dia. commemorative Edison’s 100th Birthday day 1947-1947. Best offer. Herman Fathe, 10 Jackson St., Stoughton, N. Y. 10974

--large heavy 8-page Atwater- Kent catalog showing early bread- board components. Sharp detail. $1.75 at “meets” or $2.00 p/pd. Gary Schneider, 6848 Commonwealth Blvd., Parma Heights, Ohio 44130

--sell/trade 1926 Stewart-Warner Mod. 345 chassis & 3/4 cabinet, 20 auto radio vibrators, 3-4-5-6-7-8-9, some in orig. box, Motor- cola spkr in metal case. Want: Univ. SB mike/stand, 1926 Thermi- dyna, George Porter, 238 Village Dr., Lewistown, Illinois 70507

--old style cloth covered AC line cord in gold or brown @ 200/ft or 16" for 100’ or more total. Add $.10 shipping. Also have single conductor cloth covered wire, SASE for sample and info. Bob Goodman, 7943 Ponce, CP, Calif. 90304

--swap Adriola Jr., Had, 25, WE 29, Mr. Jr., Amrad SE1240, more for Grebe catalogs, pre-1923 QST, Radio Lighting mag, want vintage QST. A. R. Bobb, 136 Green Street, Norristown, Pa. 19401

--Fed xtal set in onlu cabinet CR-16 Alan Douglas, Box 226, Pocasset, Mass. 02559

--for sale: 1920 Instruc- tion book, 20 pages @ $3.00 p/pd. Gordon Ekland, 6518 Campweaver Lane, Prospect, Ky. 40059

FOR SALE and/or TRADE


--sell/trade: BC-9 (SCCR7) 1921, See Radio News Nov. 22, page 332, $350. or trade early Marconi, de Forest, Grebe, Paragon, etc. Need parts for AR 1, AR 1A and other. Dean Almandinger, 34 W. Muriel St., Orlando, Fla. 32806


--Pilot 8 TV set mod. TDV7 infar- oor condition except Crt has open filament @ $100. plus shipping. Also have 51A, 82a & 24a tubes for sale. Harry Cap, 1901 F Street, Bridge- water, Mass. 02324


--trade Riders Radio. Want 2, 3, 22, will trade 6 - 21, have many indexes. Gene Falk, 2063 Van Cortland Circle, Yorktown Hts., N. Y. 10598

--new tubes: BH rect @ $.3, 205 (VT2) by Dunvac w/balke lite base @ $.05, 211C (VT4C) $2.00, 216A (VT1) $20, 251D (re- places U731) $20.25, 126R by South Street, 1211 1st fell, South Smart, 124 Mitchell Drive, Look- out Mountain, Tenn. 37350 (Phone 015-829-6593 8 to 11 PM)

--sell/swap: RCA III, IIIA, IV, Aerola Sr. & amp., AR-33, 39, 40, 46, 46.45, Paragon II “Pop”, Trudyne, etc. Want: AK Breadboard & DeForest items, early catalogs before 1925, especially Duck #12, 13, 14. Glen Angle, K7TAM, Clear Lake, South Dakota 57220


--sell/trade: Freed-Eiselman & AK receivers, old headpays, CG & QST mags, old tubes. Want WE 21A tubes, spk coils, old keys, etc, Bill Lawerty, R1DH, Box 62X, Egg Harbor, N. J. 08215

--reprint of Radiola 20 Instruction- book, 20 pages @ $3.00 p/pd. Gordon Ekland, 6518 Campweaver Lane, Prospect, Ky. 40059
DE FOREST D-17

The De Forest D-17 Radiophone receiver is a five tube set consisting of 3 stages of RF, detector and 2 audio. The last RF stage also serves as an audio amplifier. First glance at the circuit and you will see something strange: the 3rd RF stage and detector are not tuned. This could have been a means of getting around neutralization or the Hazeltine patent.

Ordinarily a loop antenna is used with set although there is a place for an outside antenna. Collectors seldom find a D-17 with a good loop -- the wire insulation is usually deteriorated. The loop fits into a socket at the top of the cabinet. The horn speaker is mounted in the lower part of the cabinet. The merit of this set as a receiver is questionable but it has a high place with collectors because of the name De Forest. C.Z.

CR 3·A

This rare Grebe is owned by George Flanagan, W2KRM. Unlike the CR-3, very few "A's" were manufactured. Original owners (1919-20) used Moorhead/VT tubes until the UV-201 became more available in 1921. Lauren Peckham is another CR3-A owner. Any others?
RESTORING A MAGNAVOX MODEL D RECEIVER

by Tex Sloat, W7AHK, Ridgefield, Wash.

It was lying in the parking lot at Canandaigua, 1978, and was the most disreputable appearing chassis one could ever find. The wooden parts were in pieces and the front panel plies were separated and some missing, but enough left so a pattern could be made for a new one.

Both audio transformers were absent, one toroid coil gone and the remaining two quite badly smashed. The rotor plates of the variable condenser were bent over to a right angle and a heavy coat of grease and dirt covered all.

The friendly Yankee Trader called it a 'Magnavox in a drawer' and added, "My brother bet me I couldn't sell it."

"How much?" came the inevitable question. I am a sucker for this kind of stuff.

"Two dollars for the knobs," was the reply.

The first step was a scrub down with Joe's cleaning fluid (Old Timers Bulletin, June 1978). This did wonders and permitted a closer scrutiny of the small parts. A nice brass dial carried the name Magnavox. Rider's shows the schematic under model "D".

It is a tuned radio frequency: two stages of radio frequency, detector and two audio. Now for the restoration.

All remaining wiring was removed, and the rivets securing the composition sub-panel to the iron frame were drilled out and all small parts removed to permit a thorough cleaning and polishing. Rusted iron was brushed clean and given a coat of rust-proof aluminum.

The bent condenser plates were then straightened with pliers and the final step using emery boards. They were the proper thickness for moving back and forth between the plates -- filing off the high spots.

An ohm-meter was connected across the rotor and stator sections and the above operation began with the plates all out. As the short was removed, the rotors were moved slightly in and the operation repeated.

Two new toroid coils were built with the use of a mandrel constructed to space wind the number 20 wire. A plastic strip cemented down one side formed the periphery when the winding was pulled around to form the doughnut shape.

Our source for the green wire might be of interest. We had white cotton covered magnet wire of the proper size. This was stretched out taut several feet off the ground. With rubber gloves to protect the hands, a small piece of cloth was folded around the wire. This was kept saturated with green food coloring and rubbed back and forth along the wire. The full strength coloring gives a nice imitation of green silk covered wire.

[Cont. on next page]
(Continued Restoring Model "D")

Two audio transformer coils from the junk box were rewound to replace the missing ones.

With all the new wiring in place, a new battery cable, tubes in and batteries hooked up, came the moment of suspense -- the smoke test.

The switch was turned on and in came music! After an easy alignment, the dial was alive from one end to the other. With a new black walnut panel, polished brass and rebuilt drawer, the old model "D" has once again gained a respectable appearance.

A few words about toroid coils. They were designed to have a low magnetic field resulting in less chance of stray coupling. They were also easy to mount and presented a pleasing appearance.

Who knows what the flea market parking lot will produce this year at Canandaigua.

**NEUTRODYNE CHALLENGE**

In reviewing Harold Wheeler's book HAZELTINE, THE PROFESSOR, there is noted on page 75 the original list of Hazeltine neutrodyne licensees (1924). It would be a challenge to any collector to claim he has one model made by all these early manufacturers. Here they are, How many sets do you have?

- Fada
- Carloyd
- Eagle
- Freed-Fisemann
- Garod
- Gilfillan
- Later licensees: Crosley, Grebe, Philco, and Coen Wireless of Australia
  - Howard
  - King Hinners
  - Murdock
  - Thompson
  - Stromberg-Carlson
  - Ware Workrite
  - U.S. Electric
  - DeForest
  - Work Rite (Canada)

**VINTAGE RADIO STORE IN TORONTO**

Collectors visiting Toronto are advised to look up Mike Batsch on Bayview Avenue. Mike is Canada's counterpart to Tudor Rees in Bristol, England. He has a small shop catering to the vintage radio and gramophone trade. In addition to buying and selling old sets, he does restoration and repair work. His hours are 10:30 - 6 P.M. except Friday when he stays open until 9:00 P.M. He does no mail order work at the present time. Address:

Vintage Radio & Gramophone Service
1661 Bayview Avenue, Toronto
(2 blocks south of Edgerton Ave., East)
Tele. 481-6708

**BACK ISSUES**

of the Old Timers Bulletin are NOT available at this time. An inventory will be made this summer and available copies will be announced in the September OTB.

**F. C. C. SWOOPS DOWN ON JOE PAVEK'S SPARK TRANSMITTER**

The above caption isn't as it appears. It is true that top brass from four F. C. C. districts (Chicago, St. Paul, Cincinnati and Detroit) paid a visit to Joe Pavek's Museum recently -- and the above spark transmitter was in operation -- but all in good fun. The group was having a regional meeting and the visit was just a "break" from routine business matters. No pink tickets were issued to W9OEP as he fired up the set consisting of a 1/2 kw. Packard xfrm and Murdock gap and OT.

Joe Pavek's spark transmitter
ADDED SECURITY

The first floor of the Academy Museum has been completely restored by the Town Historical Society. They too have many historical artifacts that will need protection from theft and vandalism. Result: another security alarm is being installed in addition to the AWA system.

Hopefully, the two systems, each independent of each other, will provide the security we need for our museum. As many of you know, the AWA system triggers two alarms one of which is down in the village.

We're also fortunate to have a fire hydrant near the building and the local firehouse about 600 feet distance. Let us hope there never will be an occasion to use these services.

Incidentally, AWA does not house all their equipment in the Academy Museum. The old museum and two storage areas have hundreds of rare items. This allows the Association to rotate their displays each year and is a back-up in event of some misfortune. There is an old adage: "Don't put all your eggs in one basket."

SPECIAL EXHIBITS FOR 1979

In addition to the Edison display, members will have an opportunity to see the transatlantic siphon recorder on loan from the Smithsonian and the small Alexander alternator from RCA Rocky Point... both very rare items.

AVAILABLE:

Forty (40) Kodachrome slides of the AWA Electronic-Communication Museum with professional commentary on cassette tape. Excellent program for personal use. Describes and pictures all kinds of early radio equipment and stations. Only $21 postpaid.

Beautiful professional color prints of AWA Museum (3 1/2 x 5") mounted in special gold embossed folder. Two different sets ("A" and "B") at $5 ea. or both for $9. postpaid (available at cost). Make checks out to AWA and mail to: Al Crum, 16 Costar Street Rochester, N.Y. 14608

100th Anniversary of the electric light bulb... 1879 - 1979

Special exhibit of Edison artifacts at the AWA Museum - light bulbs - phonographs - telegraph - coils - dictaphone - stock ticker and other items.