VISITORS AT A.W.A. EXHIBIT: W3EPC, JA1DM and W1CIQ

A.R.R.L. Director Harry McConoughy (left) and Lew McCoy, popular QST Editor (right) watch as "Riy", JA1DM from Tokyo, Japan, pretends to listen to a 1912 crystal set. They, with nearly 2000 others, visited the Association's historical exhibit at the New York State Hamfest held near Rochester. Members Peckham, Conrad, Ransley and Warder did an outstanding job in setting up a wide range of material -- from early transmitters to popular broadcast sets of the '20s.
A MESSAGE FROM OUR PRESIDENT

MUSEUM OUTLOOK:

At a recent meeting of the Town of East Bloomfield Historical Society, facilities were offered A.W.A. to house their historical collection in the Town's Public Museum. The offer was left open pending the A.W.A. Board's decision. I propose to set up a fact finding committee in the near future to look into this matter.

Many are familiar with the Town's museum--a historical building located on the village green and one time Academy. The Society is currently restoring the 3 story brick building with money from a local fund drive.

A.W.A. Officers as well as some members have been concerned over the Association's collection. They are realistic enough to know it cannot be housed forever in Kelley's rebuilt carriage barn. Our By-laws protect the equipment with many items assigned to National Museums in event of dissolution.

The latter, however, is negative thinking since most agree the entire collection should remain intact and directly or indirectly under A.W.A. supervision or a responsible group of radio historians and engineers. Important decisions will be made on this matter at the Annual Meeting in November. Interested members are urged to attend. In the meantime, we'll postpone any further work on the present barn museum.

ELECTION OF OFFICERS:

The Annual Meeting will also be election of officers and board members. Names with number (1) indicate their term of office expires (see A.W.A. Roster elsewhere in OTB). As noted, 4 officers and 3 board members will be elected at this time.

I will be stepping down as President having served in this capacity for many pleasant years. It has been an enjoyable and rewarding experience. See you in Canandaigua.

73,

[Signature]

6/19/71

ANTIQUE WIRELESS ASSOCIATION INC.
HOLCOMB, NEW YORK 14469
"An amateur organization devoted to the history of wireless"

OFFICERS

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Geo. Batterton</td>
<td>W2GB</td>
</tr>
<tr>
<td>Vice-Pres.</td>
<td>Chas. Brelsford</td>
<td>K2W</td>
</tr>
<tr>
<td>Secretary</td>
<td>Bruce Kelley</td>
<td>W2ICE</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Lincoln Cundall</td>
<td>W2QY</td>
</tr>
<tr>
<td>Board</td>
<td>Clarence Dengler</td>
<td>W2KL</td>
</tr>
<tr>
<td>Members</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Larry Triggs</td>
<td>W2YBK</td>
</tr>
<tr>
<td></td>
<td>Dex Deeley</td>
<td>W2KIQ</td>
</tr>
<tr>
<td></td>
<td>Ken Gardner</td>
<td>W2GN</td>
</tr>
<tr>
<td></td>
<td>Joe Marsey</td>
<td>W2RMX</td>
</tr>
<tr>
<td></td>
<td>Lauren Peckham</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clifford Daykin</td>
<td>W2AFB</td>
</tr>
<tr>
<td></td>
<td>Henry Blodgett</td>
<td>W2UTH</td>
</tr>
<tr>
<td></td>
<td>Harold Smith</td>
<td>W2KND</td>
</tr>
<tr>
<td></td>
<td>Harry Lott</td>
<td>W2AX</td>
</tr>
<tr>
<td></td>
<td>Al Crum</td>
<td>W2EMK</td>
</tr>
</tbody>
</table>

Attorney: Sherwood Snyder W2KPU
Photographer: Al Crum W2BWK
Honorary Members:
Marion Armstrong
Paul Godley
Lloyd Sepenschied
Clarence Tuska
Roland Bourne
Geo. Grammer

COMMITTEEMEN

Membership: Lincoln Cundall, Harold Smith and Larry Triggs
Exhibits: Lauren Peckham, George Warder, Ken Conrad, Dick Ransley
Conference: Charles Brelsford, Cliff Daykin, Henry Blodgett, Joe Marsey and Dex Deeley
Historians: Ducky Dengler and Harry Lott

Contests: Ken Gardner

News Journal: OLD TIMERS BULLETIN
Editor: Bruce Kelley
Make-up Editor: Larry Triggs
Staff Assistant: Dex Deeley
Printer: Don Rey

The BULLETIN is an educational medium published quarterly in March, June, September and December. Send all news items and other material to Secretary:

MAIN ST., HOLCOMB, N.Y. 14469

Membership: Application form available from either Secretary or Treasurer. Membership limited and subject to cancellation. Send all dues, money for badges, etc. to Treasurer:

Lincoln Cundall, W2QY
69 BOULEVARD PARKWAY
ROCHESTER, NEW YORK 14612
An unusual picture taken by the Daily Courier News photographer (Elgin, Ill.) of Dr. Ralph Muchow's amateur museum. Most photographers will immediately appreciate the great depth of field. Not seen is Ralph's rare Collins Radiophone circa 1906.

--- NEW GEAR IN A.W.A. MUSEUM ---

TUBES: Howard Schrader, W2GH, K2GM
KEY: K2FPE, Howard Schrader
STEREO: Bill LaBerty
HEADPHONES: W1P6G
BOOKS: W4GM, W3DUG
RECEIVERS: John Adams, W2KPM
MISC.: K2ZAB, W3DUG, Robert Muir

John Adams (Burlington, Mass.) recently gave the Association a novel receiver which is an eye-catcher: a six tube set made in the mid-twenties entirely encased in heavy plate glass. The builder, James Miller, was one-time foreman of the Pittsburg Glass Co., Boston warehouse. He knew his trade well for not only are the six sides glass but the entire unit slides on to a second glass shelf! Circuit design is also somewhat unconventional: tuned front end followed by Acme un-tuned rf stages, det. and 2 stage audio.

In the software department, AWA received an extremely rare certificate from Bill Windle, G5W. The heavily bonded paper is a "Baird Television Constructor's License" issued Feb. 29, 1928. Strict British regulations made such a license necessary. The date indicates it was one of the first issued. John Baird is one of the world's foremost television pioneers.

Max Jacobson, W3DUG, retired NBC Field Supervisor, gave the Association some beautiful 8x10" glossies of early NBC field operations. Instead of the usual written identification, Max taped a commentary detailing each photograph. Excellent material for future AWA program.

A valuable addition to the tube department was made by Pin Stewart who packaged and mailed a large box of foreign tubes from Australia. It was like Xmas unwrapping each tube and trying to identify it. Many were general receiving types (Phillips and Osram). However, a goodly number were unusual in shape and design. Guess we'll have to study up on foreign types!

BILL ORR (W6SAI) is in the process of getting an old time transmitter on 20 meters. He would like to work the East Coast "gang" with similar equipment. Bill will have another article in CQ magazine on how to build a 247-210 rig.
OLD TYME ADS are FREE to members who are interested in collecting and restoring historical equipment as an amateur. They are not to be abused.

RULES FOR ADS:
1. Material must be over 25 years old.
2. Ad MUST be written on separate sheet of paper -- not part of letter. For acknowledgement -- send S.A.S.E.
3. Give full address, zip number and call letters (if any).
4. AWA will not print repetitious ads or ones indicating regular sale for profit.
5. The Association is NOT responsible for any transaction.
6. AWA retains the right to reduce size of ad.
7. All ads must be received 5 weeks prior to mailing date.
8. Mail to Antique Wireless Assn., Main Street, Holcomb, N.Y. 14469

NEED ROOM -- make offer on Federal 59, DeForest P6 bc set, Kennedy 311 portable, Radiola II portable, AK 20 compact, OR 274 wavemeter, Marbook oscillation transformer -- all in fine condition. Need Wm. Duck catalog and AK breadboard sets and parts. Glen Angle, K2TM, Clear Lake, S.D. 57226


SWAP: Lenco crystal set & TRF kit set. Want Radio III amp, WE Mod. 4A driver, Kauland R-13 interstage APT, Freedslam NR-7 knob & RF trans. and RCA Mod. 25 loop ant. Have many parts and speakers to swap. Jim Cline, 13266 Pastel Lane, Mountain View, Calif. 94040

WANTED: "Modern Electrics" for July 1913 also copies of "Electrician and Mechanic" for 1913 and 1914. Thorn Mayes, 21120 Sullivan Way, Saratoga, Calif. 95070

WANTED: Approx. 125 feet of green, single silk covered No. 22 copper wire (not enamelled). Needed to restore a coil and must be clean. Please advise price. Joseph Benne, 494 Hirsch Ave. Calumet City, Ill. 60409

TRADE: WWI duplex Morse set made in 1918 by W.E. Want wireless gear, early receivers, magazines, parts & tubes. Will be at AWA Meet. Jerry Vanicek, 3313 So. Lowe Ave., Chicago, Ill. 60616

WANTED: Starting collection -- shortwave only. Desire to begin around 1932 and interested in complete collection to preserve and enhance or individual pieces. All mail promptly answered. Larry LeKasman, WHIO, 2330 Topfield Road, South Bend, Indiana 46614

FOR SALE or TRADE: Kennedy XV, other BC receivers, misc. items, books and magazines 1921-1940. Send for list. Charles Closson, 1230 Glenwood Avenue, San Jose, Calif. 95125

WANTED: #3KP4 tube for 1946 (?) Pilot TV-37 miniature TV set. Tube must be "like new". Sam Samuelson Jr., 7000 Llanfair Rd., Upper Darby, Penn. 19082

WANTED: Combination inter-stage-output transformer for Stromberg-Carlson Mod. 55 or 56. Need not work. Needed for appearance sake in restoring set. Also need fuse cover. Ted Hannah, K3CU, 11006 Bybee St., Silver Spring, Md. 20902

WANTED: Magnavox gear, receivers, speakers and amps. Send list and price to: C.B. Clutter, Box 192, Richmond, Utah 84333


DEL BARRETT has the factory AK Service Manual -- 30 page reprints available at $3.50 pp. This covers the Model 10 through Model 50 with schematics, inside and outside pictures and service data in detail. Del Barrett, 1517 Pacific Dr., Ft. Wayne, Ind. 46809

SWAP -- need binding posts for CN-240, dial for de Forest DV7A and rf coil. Have panels for Crosley, RCA III APT, Thorndarson APT in orig. boxes, etc. Basil Abbott, Rte. 5, Box 322 Mechanicsville, Va. 23111

WANTED: Early made crystal sets including Victor, Federal, etc., Aercola Jr. and Sr. sets and also need four WD11's. Don Nichols, 5406 Nichols Rd., Mason, Michigan 48044

FOR SALE: Western Electric 36" cone speaker, Western Electric Type 509W headphones -- both in first class condition. Chas. Williams, W7AN, 2207 Broadway East, Seattle, Wash. 98102

NEED a television neon tube and a pair of 45, 48 or 60 hole scanning disc-- similar to those used by experimenters around 1930. Robert Lozier, 318 East Monroe, North Carolina, 28110

BEST OFFER: AK Mod. 60, RA tuner in cabinet, RA without cabinet, Kennedy 5 tuber and cone speaker. Best offer. Jack Nelson, WCFP, 915 Sherman St., Schenectady, N.Y. 12303

FOR SALE: Spherical audions, Weagent valves and other early tubes. Also have Leyden jars, Elradin phones, catalogs and call books. List on request. Harry Cap, 190 Beach St., Bridgewater, Mass. 02324

WANTED: Century buzzer, books on ship- board receivers such as SR-143, heavy duty spark key, galvanometer for wave- meter. Will buy or have items to swap. Larry Whitlock, WALMH, PO Box 104, Bridgewater, Conn. 06752

WANTED: Condenser microphone of the old NBC or GE type. Joseph Shragge, 404 Longfield, Erdenheim, Penna. 19118

Key to Communication

still may be old time radio telegraphy according to the FCC Safety and Special Radio Services Bureau. A problem has risen along the Mississippi River and connecting waterways with the use of radiotelephone. Problem ? Too much QRM.

Result: Some communication work between vessel and shore stations on the Mississippi, Missouri, Ohio and Arkansas rivers may shift to telegraphy to ease the congestion. Who said CW was on the way out?

--- Wm. B. Duck Co. ---

Wm. B. Duck III, grandson of Wm. B. of Toledo, Ohio, knocked at Ed Raser's door recently and said he wanted to see some old radio equipment. He couldn't have gone to a better place!

Another surprise visitor was Mr. John S.V. Walton, Vice-Pres. of the Marconi Division representing Marconi Co. Ltd. of Chelmsford, England. He wanted to see some old Marconi gear.

W2ZI, by the way, is up and around but still taking it a little easy. Ed plans to make the 1971 Conference at Canandaigua.

Marketplace

As the market expands for the radio collector, the number of operators increase. When we say "operators" we mean opportunists after a fast buck.

The latest called to our attention was an ad by a dealer in a well known trader type publication (not radio) stating:

"Wanted early radio sets and accessories for a private MUSEUM."

Sounds great for a worthy cause until you read in another communication the same fellow reverses his identity and becomes a fellow collector and writes:

"I am selling my collection at a great sacrifice, etc."?

Who is kidding whom? Variations of this racket are old as the hills and it is hoped the amateur historian does not fall for it.

While on the subject of radio receiver sales, the latest appears to be the sudden interest in Federal and Kennedy equipment. It is not surprising since these beautiful acts were not mass produced on the same scale as the Atwater Kent and as a result are becoming quite rare and demanding a high price. Their appearance is quite professional and examination behind the panel reveals excellent workmanship.

--- THE GEORGE CLARK MYSTERY ---

The center page cartoon in the last OCT brought back many nostalgic memories but no one could identify the artist — since it was agreed it was not the well known radio historian of the same name.

We think the mystery is now solved. Gordon Friedlander (I.E.E. SPECTRUM) believes it is the same Clark who did a regular comic strip called "THE NEIGHBORS" which was published in the New York Daily Mirror (a casualty of the 1965 newspaper strike). He went on to say the cartoon most likely was printed in the old LIBERTY, LIFE or JUDGE magazine.

CONGRATS to ELECTRONICS DIGEST magazine (July/August issue) for fine biography on pioneer LLOYD ESPENSCHILD.

LOOK FOR STATTON VOLMSA this fall. The call letter mean "Marconi's Seventieth Anniversary" and will be used to honor Marconi's first trans-Atlantic signals in 1901 -- the letters "S" (W2NX)
Few, if any of us, can reconstruct our original amateur station. Andy Shafer, New Carlisle, Ohio, is one of these few--and has done a remarkable job in doing so. He is fortunate in having a picture of himself seated at the original installation which enabled him to make a 1971 reproduction right down to the key (or is it a watch) chain hanging from his right pocket! As President, Andy will preside, assisted by V.P. Bill Gould, at the O.O.T.C. Conference Meeting.
GOOD READING

THE INDUCTION COIL, an article by Geo. Shillers in SCIENTIFIC AMERICAN, Vol. 224 May, 1971: p. 80, not only outlines the history of the induction coil but describes its impact upon the development of electrical technology in the nineteenth and early twentieth centuries, including wireless telegraphy. The article is well illustrated.

--- Geo. Hamilton, W4AE

SW-3 RECEIVER ---

One of the finest magazine articles written on historical equipment appeared in June, 1971 issue of QST magazine.

Bill Orr, W6GAI, collaborating with James Millen, outlined the entire history of the famous National SW-3 receiver considered by some as the most popular receiver ever used by the radio amateur.

Developed in the late 1920s, it was in full production by 1931 and was available for the next 14 years. (The set was preceded by a less popular model—the SW-4 or Thrill Box). The "3" was basically the same over its entire life: R.F., Det. and one stage audio. Earlier models were designed for 2.5 and 6.3 volt filament operation. The last model used latter type tubes and was adaptable for low filament current battery tubes. With plug-in coils covering 9 to 2000 meters, its outstanding feature was single dial control and broadcast for amateur bands.

Bill wonders what happened to the some 10,000 old sets that were made since few can be found today. One is occasionally used at A.R.A. Station W2AN and performs beautifully on SSB.

EDWARD STRATEMEYER and his BOOK MACHINE means little to the radio historian until you're told he was King of Juvenile authors including a radio series.

Stratemeyer started writing in 1886 and before his death he had written over 300 books under sixty-five pseudonyms. Some of the more familiar were THE ROVER BOYS, THE HARDY BOYS and of course as Victor Appleton -- THE TOM SWIFT series.

A full length article on this prolific author appeared in the July 11, 1971 SATURDAY REVIEW magazine. The author, Arthur Pragar, recently completed a book titled RASCALS AT LARGE which is a nostalgic analysis of juvenile literary heroes and heroines of the past. It will be released this fall by Doubleday.

"STAY TUNED" is the name of a little periodical published by a group of old time radio PROGRAM buffs. Their interest is collecting historical radio programs and transferring them to magnetic tape. After reading their "Bulletins" it would appear that some members must have huge tape libraries -- mostly serial programs of the 40's and 50's. Their latest issue carried an interesting editorial covering radio material copyright laws. Headquarters: 1250 Ina Baron Circle Webster, N.Y. 14560

75 YEARS IN AN EXCITING WORLD by H.T. Frile. Published by San Francisco Press, 555 Howard St., San Francisco, Calif. 94105 Price: $2.75

A very fine book according to Bill Gould, KZNF who had an opportunity to review it. According to Bill it covers among other things the development of the superhet and other related subjects.

THOSE INVENTIVE AMERICANS, published by the National Geographic Society, Washington, D.C. Hardcover, 7 x 10", 231 p. with 242 illustrations. (Not certain but believe price is $3.45 plus postage) The book contains 8 pages about Lee de Forest written by Howard J. Levi of the National Academy of Sciences. Also several other articles about great inventors in telecommunications. You will like the 30 page article: "Steam and its Heroes". (Art Trauffer)

GREENWOOD'S "WIRELESS AND RADIO" reference book is being updated. This will be good news to collectors since it has proven a valuable reference. More details in next BULLETIN. (Morgan McMahon, W6PFR)

THE MACMILLAN ARCTIC EXPEDITION

While poking around in an old bookstore -- look for the 1925 fall issues of NATIONAL GEOGRAPHIC Magazine for they give an excellent account of the MacMillan Expedition. His ship HOWDIN and the call letters WNP all have a familiar place in radio history. The operators on the different expeditions also made history -- every old timer is familiar with the names Don Mix and John Reimartz -- the latter being the 1925 "op". Zenith gear also received a great plug.

The National Geographic magazines tells much more about the expedition than that found in current radio magazines of the time such as QST. Good reading. (By Berry)
Fake Audion

Reference was made in the last OTB to beware of fake tubes. Pictured is such a tube owned by John Stokes. One familiar with authentic Audions can immediately recognize, even from the photograph, that it is a fake. Note the very heavy filament and external connecting wire. A very crude counterfeit.

Zenith Wins $19-Million Antitrust Suit from Hazeltine

The Supreme Court, after a long and involved lawsuit, recently decided in favor of Zenith Radio against Hazeltine Research Corp. to a tune of $19-million in an antitrust lawsuit. Zenith received triple damages because a patent pool prevented them from operating in Canada. Damages were for a loss of business for several years prior to 1963.

Historians will find this news item of interest since the Hazeltine outfit has a long history of patent litigation. See page 20, OTB 11-4.

1971 CALENDAR

1971 HISTORICAL RADIO CONFERENCE
Sept. 23, 24, 25th
Canandaigua, N.Y.

ANNUAL BUSINESS MEETING
QTH: Henry Blodgett, W2UHY
Victor, New York
2 P.M., Nov. 14

HISTORY OF DETROIT POLICE RADIO
8BNE to WCK

An unusual manuscript was recently received at AWA from George Sterling, WIAE --- a detail history of one of America's first police radio stations. Some thought was given to reproducing it in the OTB but it appeared too lengthy for our little news journal.

The history not only covered early radio work in Detroit but also pioneer operation in New York City and Michigan. The first Detroit transmitter was a single tube modulated oscillator (grid modulation) under the call 8BNE in 1921. Several other calls followed including the humorous letters "KCP".

WIAE included several fb 8x10" glossy prints with his manuscript one of which was the first (?) radio patrol car --- a Model "T" touring with roof covered with a barrage of wires. We may be mistaken, but this 1921 police car is now on display in the Henry Ford Museum at Dearborn.

Hopefully, we may be able to summarize the story in a future Bulletin --- extremely interesting reading. George, by the way, contributed to the station's history since he played a part in the old F.R.C. (now F.C.C.)
Highlights
ANTIQUE WIRELESS ASSOCIATION
ANNUAL HISTORICAL RADIO CONFERENCE AND PIONEER BANQUET

The Annual get-together of old time radio operators, historians and collectors for a weekend of technical interest and fun. A special welcome to pioneer broadcast personnel and members of R.A.R.A., O.O.T.C., Q.C.W.A. and S.O.W.P.

CANANDAIGUA, N.Y.
SEPTEMBER
23 24 25
1971

Programming for Everyone

Partial view of an Alexanderson RF Alternator to be featured on the 1971 Conference Program. These huge machines were the ultimate in mechanical perfection when placed in operation toward the end of WWI and the early 20's. Conceived by Gossen, final design by Alexanderson and manufactured by General Electric, they indirectly brought about the formation of RCA. At upper left is the gear box (driving motor unseen at left) which drives the 200 KW. generator (right) at a tremendous periphery speed. The output of the generator is in the RF range — usually around 25 kc — depending on the speed of the motor. (Photo by W2TV)
SWAP AUCTION

The Committee is providing a new location for this popular event. A large covered pavilion has been reserved in Roseland Park picnic grounds located about 1/2 mile east of Sheraton Inn.

Turn right when leaving the Inn and follow the main road until you come to the blinker light opposite the Merry-go-round. Turn left and travel through the gate to the pavilion about 500 ft. The gate will NOT be open until 1:30PM.

There will be ample tables to exhibit old material for swap and sale purposes. All participants MUST have identification. Please make note on equipment as to condition, i.e.: Whether filaments are good, receivers in operable condition, etc. Be sure and tighten binding posts in transit, bundle magazines, etc.

Joe Pavek, W0OEP, and committee will again handle arrangements. The same procedure will follow as last year-- each member assigned a number. All trading and sales are between members with the Association assuming no responsibility.

PAUL GODLEY

A.W.A. is indeed fortunate to again have this famous pioneer on their program. Paul's career bridges a lifetime of radio: commercial wireless, pioneer broadcaster, radio editor, radio manufacturing and engineering to participating in the famous Transatlantic Tests of 1921. It is the latter we're most interested in.

He will, in an informal manner, relate some of the highlights of this historical event which opened the door to shortwave.

As the key figure behind some of the finest DX receivers made in the early '20s, Paul will also add a few remarks about the design and manufacturing of the RA-10 and other equipment made by the Adams-Morgan Company.

Paul's talk will be in the form of an interview conducted by pioneer historian and broadcaster Wayne Nelson, W4AA of Concord, N.C.

Regeneration

ARMSTRONG, DE FOREST, LANGMUIR, METHEUSER or ????

To whom should the credit go? This has been a favorite subject among engineers and radio historians for years. To keep it alive and provide a little discussion, it has been suggested AWA take a poll at the forthcoming Conference.

Qualified historians will be asked to cast a ballot as to their choice. The winner will be announced at the evening banquet. To qualify to vote, one must be familiar with the inventor's background and the various court decisions. Chairman: Ducky Dengler, W2LK

A.W.A. NET MEETING

AWA members checking in on the 75 SSB and 50 CW Nets have requested a "get-together" at the '71 Conference.

We're going to have more than that--not only will the fellows have a chance to talk with one another in person, but they will also have an opportunity to see some of the old transmitters used in the OLD TIME TRANSMITTING Contest held in February.

To top it off -- there will be a tape playback recorded by W2EB and W2IV of some of the signals in the contest. All who have called in on an AWA Net -- phone or CW -- try and attend. ---- Ken Gardner, W2KN

EUROPE'S TUBE ARCHIVES

GERALD TYNIE'S

REPORT ON RECENT TRIP TO EUROPE

for the purpose of gathering information on early tube development. The report will cover activity in:

France: S.F.R.
Holland: Phillips
Germany: Telefunken and Siemens
England: Marconi Osram
A.C. Cossor Ltd.
Marconi Wireless Tele. Co.
British Science Museum

He will tell of interviews with tube pioneers Dr. Schottky, S.R. Mullard and others.

The report should be of interest to both engineer and collector. Jerry, a Smithsonian Associate, is currently working on an updated version of his famous SAGA OF THE VACUUM TUBE.
Program Annual Radio Conference

The Antique Wireless Association

"An amateur organization devoted to the history of wireless"

Ticket Information Registration with meals must be made through Treasurer Lincoln Cundall, 69 Boulevard Pkwy., Rochester, N.Y. 14612 before Sept. 15 (Registration without meals unlimited obtainable at Conference). Your dinner tickets and registration badge will be waiting for you at Sheraton Inn Headquarters. Please fill out and mail the enclose card with check promptly to avoid disappointment. Limited seating capacity at Banquet.

Reservations at Sheraton Inn A.W.A. does not handle room reservations— you must make your reservations directly with the Inn. Be sure and mention you’re attending the A.W.A. Conference for special rates.

Sheraton Inn, South Main St., Canandaigua, N.Y. 14424. Telephone: 315-394-7800.

Note: There are also several all season commercial motels in the area most of which do not require advance reservations.

(Note: Admission to all events by badge only)
PROGRAM

THURSDAY
8 P.M. OPEN HOUSE at the Historical Radio Museum
(Many new exhibits and demonstrations)

FRIDAY
8:30 A.M. REGISTRATION
9:30 A.M. VALUATION PANEL PERRY FERRELL -- Moderator

12 Noon FISHERMAN'S BUFFET

THOSE WONDERFUL MAGAZINE COVERS
Commentary by ROLAND BOURNE, W1ANA

1:30 P.M. SWAP AUCTION PANEL
ROSIAND PAVILION -- Joe Pavek, W9OEP Chairman
(Gate not open until 1:30 P.M. Only registered members admitted.)

4:30 P.M. A.W.A. NET MEETING Conducted by Ken Gardner, W2BGN

7:30 P.M. GOLDEN TWENTIES

O.O.T.C. MEETING Conducted by Pres. Andy Shafer, W8TE
Assisted by Vice-Pres. Bill Gould, K2NQ

9:30 P.M. OPEN HOUSE Antique Wireless Association

(Note: Members attending previous Conferences strongly suggested future program time be limited with appropriate "breaks". Excluding the Valuation Panel and the Swap/Auction, all 1971 programs will be 45 minutes or less with 15 minute break.)

CONFERENCE COMMITTEE

TOASTMASTER: Charles Brelsford, K2WY
REGISTRATION: Lincoln Cundall, W2QY
and FINANCE: Joe Markey, W2WDX
Harold Smith, W2KND
Dex Deeley, W9KCI
CONFERENCE
FACILITIES: Henry Blodgett, W2UTH
Leigh Robartes, W2BHA
Photographer: Al Cran, W2BMK
PROJECTION
& SOUND: Al Bowman, W2ZUX
Harvey Prace, W82STEM
Harry Lott, W2ARX
CORNING TRIP: Cliff Daykin, W2APE
Helen Kelley
Ruth Daykin
VALUATION PANEL: Perry Ferrall
John Caperton
Bill Laverty
Lauren Peckham
Mel Comer
Serge Krauss
Stan Johnson, W9FIPW
RECEIVER
CONTEST: "Ducky" Dengler,
W2IK
REGENERATION
CONTEST: A.W.A. MEET
SWAP/AUCTION: Joe Pavek, W9OEP
Dex Deeley
Lauren Peckham
George Warder
Dick Fonsley
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 A.M.</td>
<td><strong>REGISTRATION</strong></td>
</tr>
</tbody>
</table>
| 9:00 A.M. | **LADIES PROGRAM**  
Bus Trip to Corning Glass Museum. Bus leaves front of Inn at 9 A.M.  
You MUST obtain your ticket in ADVANCE. Limited capacity. |
| 9:00 A.M. | **RECEIVER CONTEST**  
Bring receivers to Main Meeting Room |
| 9:30 A.M. | **PIONEERS OF WIRELESS**                   |
| 10:30 A.M. | **PIONEER BROADCAST STATION WGY**  
Report by RALPH YEANDLE, W2IK |
| Noon   | **CONTINENTAL SMORAGASBORD**               |
| 2:00 P.M. | **EUROPE’S TUBE ARCHIVES**  
Report by Tube Historian GERALD TYNE |
| 3:00 P.M. | **MARCONI**  
Brief history of the American Marconi Company by Thorn Mayes, W6AX |
| 4:00 P.M. | **MAJ. ARMSTRONG’S FM TESTS**  
Tom Busalski, W2BRR, Chief Transmitting Engineer N.B.C. |
| 6:30 P.M. | **ANNUAL A.W.A. BANQUET**  
Special Cocktail Bar  
Toastmaster: CHUCK BRELSFORD, K2WW |

With the exception of the Swap/Auction at Roseland Park Pavilion, all programs and meals listed on this sheet will be held in the MAIN MEETING ROOM of the

**SHERATON INN, CANANDAIGUA, N.Y.**
The increasing interest in historical radio material has prompted the Conference Committee to have another VALUATION PANEL similar to the one held at the Franklin Institute in 1966. Perry Ferrell, popular radio editor, has volunteered to act as Moderator and members from different parts of the country are on the panel.

To get the show on the road, our secretary, Bruce Kelley, agreed to draw a very rough curve showing the relationship between ORIGINAL purchase and CURRENT sale prices. Obviously, the curve is an approximation and in some incidents may vary over 100% depending on rarity and condition of product. Items in Range "A" HARDWARE have a very high ratio for three reasons - age, low production (rarity) and original low selling price. Equipment in "B" levels off and it is now common to pay about the same as the original sale price. Mass production, less interest and low prices in the '30s brings the curve down in Range "C". SOFTWARE products have a much higher ratio since early magazines sold for only 10 or 15 cents. As expected, certain items DON'T follow Kelley's Curve. He points out some pre-war I mint QSTs have been sold for astronomical sums because of rarity and the desire on the part of some collectors to have a complete set.

Variables affecting the curve are: Condition of product, bulk sale and HOW BADLY the purchaser wants a certain item. The seller will naturally work to whatever the "traffic will bear". These conditions will not be considered during the discussion. One of the purposes of the Panel will be to comment on Kelley's Curve and cite obvious deviations. The "key", however, as Perry may point out, is original production quantities. It should be an interesting session.
MAJ. ARMSTRONG’S TESTS

AT THE EMPIRE STATE BUILDING 1934-35

as reported by Thomas J. Buzaleki, W2EBR, Chief Engineer, National
Broadcasting Company, New York City

Our speaker worked directly with Major Armstrong when he was conducting his
historic FM field tests from the Em-

pire State Building. This “on the spot”
report will be augmented with a por-
tion of the original transmitter which
will be brought to the Conference by
Mr. Harry Houck, Armstrong’s early
assistant.

PIONEER WGY

Ralph Yeandle, W2IK, former WGY/
W2XAD/W2XAF engineer, has assembled
some interesting pictures showing
this famous pioneer broadcast sta-
tion in the 1920’s.

The General Electric station, then
as now, is one of the nation’s out-
standing radio stations. A pioneer in
technical development and high power,
it is a landmark in communication
history.

LADIES PROGRAM

The Corning Glass Center and Museum
of Glass...certainly one of the most
fabulous places in the world

The New York Times

A.W.A. has arranged a chartered bus
trip to the famous Corning Glass Mus-

eum, Saturday, Sept. 25. The bus will
leave the front entrance of the Inn
at promptly 9 A.M. and return at 5 P.M.

Out of state visitors will find their first
visit to the Glass Center a fasci-

nating experience. It is approximate-
ly a 2 hour trip each way.

Luncheon facilities are available
at the Center-- this means you should
not make reservations for the Con-
tinental Smorgasbord at the Sheraton Inn.

Only ONE bus will be available -- first
come first served -- so register early.

The Old Old Timers Club

ANDREW L. SHAFER, W6E—PRESIDENT

Andy Shafer has again given the word
to have an O.O.T.C. "get-together"
Friday P.M. at the Annual Conference.

This has always proven popular since
it provides an opportunity for most
Officers and Directors to join and
meet members. Attendance at the 1970
meeting provided an all time high --
with fellows from most call areas.

RECEIVER CONTEST

CLASS I
Best factory made T/R set.

CLASS II
Best homemade or kit T/R set.

CLASS III
Best longwave set--any type.

Location: Main Meeting Room
Sheraton Inn

Time: 9:00 to 10:00 A.M.
Saturday, Sept. 25

Judges: Mel Comer (Ardmore, Penna.)
Stan Johnson (Ft. Wayne, Ind.)
Serge Krauss (Elkhart, Ind.)

Rules:
1. One entry per class per member.
2. Receiver cannot have been a winner
in any previous A.R.L. contest.
3. A T/R set is defined as one with
two or more tuned RF stages follow-

ed by any type detector and audio.
4. Longwave receivers are those with
a normal tuning range above 600
meters. The set may use any type
of detector, may be factory or
homemade and either amateur or
commercial. Only requirement:
Must be pre-1930 construction.
5. Judging will be based on appear-
ance, rareness and unusual design.

(Winners will be announced at Banquet)

MAGAZINE COVERS

Nostalgic reminiscing reaches its
peak when one looks at the hand drawn
radio magazine covers of the 20’s...

Comic and pathos all work together
as the artists depicts the trials and
tribulations of the early amateur
and broadcast listener.
The Master, of course, was Clyde
Darr, 8ZZ, whose work for many years
adorned the cover of QST. Others follow-

ing including another Master, Phil
Gildersleeve, W1CUJ, who also knew how
to warm your heart. "Radio News", "Radio"
and other publications also
had their clever artists.

To bring back these pleasant memor-
ies, Roland Bourne, WIANA, Curator of
A.R.L. Museum, will first give a
short background on their activities
and then for your entertainment pre-

sent a slide show of "covers". To keep
you in the mood, there will be a mus-
ical background with records by George
Olsen, Paul Whitman and Coon Sanders
with his Night Hawks!
MARCONI

Thorn plans to present his work two ways: A preview at the Canandaigua Conference followed by an illustrated article in the OLD TIMERS BULLETIN. Both should be of interest to the historian since the company was a pioneer in communication and indirectly controlled most radio work in the United States.

The organization disappeared with the formation of RCA in 1919 -- the latter absorbing all Marconi interests including their transatlantic communication facilities.

Marconi equipment is highly prized by museums and private collectors as evidenced by current prices.

GOLDEN TWENTIES

Popular demand again brings this show as Friday evening's entertainment. Originally featured at the 1966 Conference, it has been enjoyed by audiences at A.R.R.L. Conventions and other national "meets". High speed dissolve projection and stereo sound enables one to relive the "golden years of radio".

ANNUAL BANQUET

A.W.A. Conferences are always climax by the Annual Banquet. This is the time to relax and enjoy yourself. Our Toastmaster will be Chuck Brelsford, K2WW assisted by other notables. Contest Awards will be given and the recipient of the 1971 "Historian of the Year" will be announced.

HOUCK AWARD

Although AWA has presented a plaque at previous conferences for outstanding work in documenting and preserving historical radio -- the Award has never had a name. This will change with the 1971 event. Henceforth it will be called the HOUCK AWARD after a Committee founded by Mr. Harry W. Houck. More on this important group in the next OTB.

PIONEERS OF WIRELESS

is the title of an A.W.A. show made 15 years ago. It was well timed since much of the material photographed disappeared shortly after. Some consider it the Association's best historical achievement having documented material not available from any other source including RCA. Although scheduled at one or two events several years ago, it has never been seen at an A.W.A. meeting -- at least not until the 1971 Conference when it will be featured as part of the program.

The show was sparked by #2 Raser's (W2ZI) insistence to make a photographic record of the old German/RCA long-wave station at Tuckerton, New Jersey before it was demolished.

Armed with semi-professional equipment including tape recorders, five members descended on the soon-to-be-abandoned station. This was the start of several AWA safaris which included field trips to other huge transatlantic longwave stations: New Brunswick, Sayville, Rocky Point (and Riverhead) and Marion.

The keynote of the show is centered around an interesting discovery: most engineers at all stations were radio amateurs!

The viewer will have an opportunity to see in minute detail huge Alexander alternators -- in fact, they will almost be deafened by the roar of the 200 kilowatt machines as the sound track plays back actual recordings taped at the scene.

Huge umbrella antennas towering 900 feet, one mile length multiple antennas and 1000 acre antenna installations, all help make a fascinating show for the radio historian.

A sidelight will be a visit to Mattapoisett where the group interviewed Irving Vermilya, WIZB, former manager of old South Wellfleet WCC.

Historical Radio Museum

The Association's amateur museum is located at East Bloomfield (Holcomb) about 7 miles west of Canandaigua on Routes 5 & 20. The barn museum houses a large diversified collection (25,000 items) ranging from Civil War telegraph instruments to complete WWI ship installation and a 1929 broadcast station.

SHERATON INN, CANANDAIGUA, N.Y.

Overlooking Canandaigua Lake
It is not often the historian can obtain a package deal on his hobby or work. Radio "buffs" now have this opportunity with a series of outstanding books being reprinted by the Arno Press. Under the very capable direction of Dr. Christopher Sterling, Asst. Prof. of Communication, Temple University and his associates, the following books have been selected which in their estimation represents the finest and most comprehensive study ever made on the subject.

Many of the titles and authors are familiar to the radio historian and engineer. Most of the books were printed in the 1930's with one as early as 1925. Gleason's two histories are highly recommended. The publication for reprinting is October, 1971. If interested, write:

ARNO PRESS
330 Madison Avenue
New York, N.Y. 10017
A Publishing and Library Service of
The New York Times

FEDERAL RADIO COMMISSION
Annual Reports of the Federal Radio Commission, 1927-1933 (all published)
LC 70-161169 ISBN 0-405-03578-0 $29.00

FAHIE, J. J.
A History of Wireless Telegraphy, 1838-89
London, 1901 374 pp. 58 line drawings 12 halftones
LC 77-161144 ISBN 0-405-03565-9 $20.00

JONES, Hiram L.
Economics of the Radio Industry
Chicago, 1925 354 pp.
LC 75-161149 ISBN 0-405-03568-3 $18.00

FEDERAL COMMUNICATIONS COMMISSION
Annual Reports of the Federal Communications Commission, 1934/1935-1955
LC 72-161167 ISBN 0-405-03577-2 $120.00

DUNLAP, Orrin E., JR.
The Outlook for Television
New York, 1932 312 pp. 12 halftones
LC 73-161143 ISBN 0-405-03564-0 $16.00

Radio: A.A.P.S.S. Surveys
Radio edited by Irvin Stewart (March 1929)
Radio: The Fifth Estate edited by Herman S. Helting (January 1935)
New Horizons in Radio edited by Herman S. Helting (January 1941)
LC 79-161131 ISBN 0-405-03556-X $25.00

Key to listing: Author, Title, City of publication, original date, no. of pages, Arno Press Code and current reprint price.
in wanting information in the last OTB really paid off for Grote Reber who wanted information on an early receiver with tuned frontend followed by several untuned stages. He received 21 helpful replies! Unfortunately, he could not answer all letters but was grateful for the interest.

The various bits and pieces indicate that the four gang tuner he was interested in was used by Dayton, Nelson and Sparton. All were licensed under patents held by Technidyne Corp. The patent numbers were not revealed. The inventor may have been Jacob Yolles.

It also seemed that some of the engineering performance measurements were made by Kendall Clough and published in December, 1926 issue of RADIO BROADCAST magazine. He would like to obtain a copy on loan.

Quite independent of the above, Atwater Kent marketed a battery Model 50 for a short time during 1927. It used a three gang tuner with simple magnetic coupling.

Another independent inventor, George A. Somersolo, came up with a three gang tuner similar to Atwater Kent but using the combined capacity and magnetic coupling. No patents were cited; nor is there any indication that the Somersolo configuration was ever used in a commercial product.

--- RADIO STAMP IN CANADA ---

A 15-cent commemorative stamp has been issued in Canada marking the inauguration of powerful new transmitters for Radio Canada International. Entitled "Speaking to the World", the new stamp honors RC1, the shortwave arm of the Canadian Broadcasting System.

The service began in 1945 with the purpose of providing Canadian armed forces abroad with news and entertainment and giving news to listeners in other countries of Canada. The transmitters are located near Sackville, New Brunswick. (Bob Cobaugh, M2NX)

--- A.W.A. STATION CALL LETTERS W2AN ---

were formerly held by old timer Paul Weirick. Paul is now K6AK and lives in Van Nuys, California.

--- ULTIMATE IN ANTENNA ---

In the search for signals from outer space, scientists are proposing the erection of 10,000 dish-shaped antennas each 100 feet in diameter spread over an area 10 to 20 miles wide. It is expected that such an array would detect "radio leakage" from a technological civilization up to 100 light years away. Mass production of the parabolic reflectors is one of the keys to the project. An intricate computer and control system is the other problem.

They will be looking for signals of man (?) made origin such as our UHF TV signals, radar probing and signals transmitted to satellites -- powerful signals leaving a planet similar to ours. The gain of such an array would be 100 times more powerful than any existing setup. The project is being given serious consideration at NASA's Ames Research Center. (Info from N.Y. Times Es L. Espenschied)

---Henry Ford Museum---

Again the historian will find this science museum one of the finest in the country -- if not the world. Bob Koolakian, Associate Curator, welcomes members and reminds them to avoid disappointment to set aside at least one if not two days to see the entire museum and Greenfield Village.

The professional historian will be pleased to know that Dr. James King, formerly with the Smithsonian, is now associated with the Henry Ford Museum. Mr. King is the author of several books covering early electricity, telephone and telegraph.

--- Panel ---

Want a beautiful black panel? Buy black plexiglass which comes glossy or if you wish a beautiful old time matte finish -- rub with steel wool (not sandpaper!). I purchased two pieces 16x24x3/16" for $13 p.p. from Regal Plastic Supply Co., 2324 Vinton, Omaha, Nebraska 68105.

One can hardly tell it from the old original bakelite panels and it does not crack so easy either! (Bill Greig)
BASIL ABBOTT (Mechanicsville, Va.) recently contributed to a worthy cause over his local TV station; an auction sold his RCA-18 for $76. New gear for Basil: Paragon RO-2, Apex Super-5, NA-5, AK-10B, Murad MA-15, etc.

LINK CUNDALL (W2OY) -- it is not often no note is made of the man who has the trying job of keeping AWA books in shape. As if this isn't enough to do -- he's volunteered and been accepted as an Assistant at the Rochester City Museum to restore historical electrical and radio equipment.

TED WOLNIER (WALABP) doesn't confine all his activity to early equipment. He has a fine article in the June issue of HAM RADIO magazine on an antenna rotator.

JOHN PORTER (Horbrook, Calif.) doesn't write too often but word comes from friends that Jack now has over 1000 sets!!! He, like others, haunts the flea markets and secondhand stores.

LESLEY BOHL (Premont, Calif.) is another Californian who finds the more desirable equipment. A photograph shows a beautiful 1915 spark coil and the Clapp-Bastian coupler pictured on p. 5 Vol. 9, #2 QST.

FRANK ATLEE (K4PI) calls our attention to another hobby-historical group who are far more avid in collecting than AWA members. The "barb-wire" buff! A newspaper clipping tells of a meet at La Crosse, Kans., where 2000 gathered for their convention. It notes that 10 years ago there were only a few thousand collectors -- and today somewhere between 25,000 to 50,000!!! Their auction found some 15" pieces of wire selling for $50.00!!! It is interesting to note, however, that interest in non-technical hobbies always attract a large following whereas a highly skilled or technical interest such as radio is limited...for obvious reasons.

JOHN FOULTER is a new member in Aylesbury, England. John's interest centers around early commercial gear. He has a fairly good background on British equipment and can help others who may have a problem with such equipment.

ART TRAUER (Council Bluffs) reports receiving a large assortment of early de Forest written material copied by Gerry Tyne. Art is the lone historian in de Forest's hometown.

JACK KINGHAM (W4JT) calls our attention to a letter in Sept. 1930 QST where a reader advocates adoption of KHz. for Kc. Took a bit of time didn't it?? Jack found a new Westinghouse RA-DA in the original carton...kinda lucky.

GEORGE STARDY (Latrobe, Pa.) is continuing making contacts by letter. The latest include both Wl. B. Duck's son, Robert Duck, and the President of G.E., GLEN ANGLE (W2AM) still finds a few goodies in South Dakota -- but he still hasn't found an audio transformer for his CR-9.

JOE PAEVK (W50EP) located some nice gear in Iowa and South Dakota -- a de Forest D-12, CR-9, RADA, etc. Joe's business keeps him busy but the stuff still comes in.

BOB HERRING (W2DDJ) writes he may again miss the Annual Conference since he may be in Paris at the time. Better luck next year Bob.

DEL PARMENT (Pt. Wayne, Ind.) and Walt Kuntz had another fine historical exhibit at the Annual "Three Rivers Festival". Good publicity and the usual amount of fun.

LOU MOREAU (W6BBO) now has 159 historical keys which makes the collection about tops in the country. Lou delivered a terrific talk at the Mid-West Convention titled "The YL Heritage" -- it was so good it almost got into the QST except for its length...full of facts of which was a reminder of the great work done by high speed Morse telegraphers when landline work was in its heyday.

CURTIN ENGLAND (Los Angeles, Calif.) has been fairly busy having moved from his old W6I...however, he did find time to set up a nice exhibit at local business establishment.

KEN CONRAD (W2LIE) still haunts the "flea" markets with such luck as a SW3 for $10, old telegraph instruments, etc.

ROUS SMITH (Elkhart, Ind.) is in the process of writing a brief history on Herbert H. Frost, well known manufacturer of the 20's.

BOB CORAPI (W2RNX) recently acquired a rare W.E. 25A amplifier. He calls our attention that it weighs 34 lbs. with a 3½ lb. cover! It uses two 205 tubes in the output. These amps are rare since few were made and generally not available to the public.
Radiola III

A Radiola III or III-A is a must for every collector. The receivers are fully described in OTB 5-2-8 but not the circuit which is shown here. The RF section of the III-A is essentially the same as the III plus pushpull audio output.

These sets were made by General Electric for RCA and were popular in the mid 20's. The cost of the set was kept at a minimum by eliminating all variable condensers. In order to tune the entire broadcast band it is necessary to place the link in different positions. As an example: with the antenna on connection 4 and the link open -- the set tunes from 200 to 360 meters, or, with the antenna connection on 1 and the link on 3, the set tunes from 310 to 540 meters, etc. Different combinations gave various wavelengths and amounts of selectivity.

Several members have these little sets in operation and experience no difficulty in receiving stations all over the country. Some use original WD-11's; however, with the present cost averaging $8 to $10 per tube, it is advisable to make adapters and use 30's or later types. One member successfully adapted FET's with little circuit change.

Schenectady and Radio

May 15 - September 5, 1971

THE DEDICATION OF THE HENRY PRIMM BROUGHTON MEMORIAL AMATEUR RADIO STATION OF THE SCHENECTADY MUSEUM...

AND AN EXHIBIT SHOWING AMATEUR RADIO IN OPERATION, WITH A PICTORIAL DISPLAY OF WORK DONE IN SCHENECTADY, PAST AND PRESENT, FOR THE ADVANCEMENT OF RADIO COMMUNICATIONS.

Station W2IR is a memorial to pioneer Henry Primm Broughton. OT Broughton was a REAL old timer -- he was demonstrating a form of wireless with Nikola Tesla in St. Louis as early as 1893.

General Electric and Station W2X have made Schenectady, N.Y. a landmark for radio/electronic development. The historian will find the new museum, situated on Nott Terrace Heights, a fascinating place to visit.
Radio historians may find this chronological series of MIDWEST receivers of value. It may surprise many to learn they were in business 50 years ago. In fact, the original company had an "ad" in QST as early as 1920 advertising a "V-T CONTROL RECEIVER" -- a 1 tube set using an Audiotron hanging on 4 binding posts!

**MAGNAVOX HISTORY**

Tom Rutherford (Townsend, Mass.) and Stan Johnson (Ft. Wayne, Ind.) independently sent AWA histories of the Magnavox Company and its founders: Peter Jensen and Edwin Pridham. Both copies were written differently: one was in story form and the other in a chronological format. The two manuscripts will be summarized and printed in a future QST.

WHERE ARE THEY NOW ??

Back in 1921, a young boy by the name of Robert Garcia acquired a code speed of 20 WPM, learned the technical "know how" and passed the amateur examination with a 96 percentage. Unusual?

Yes, for he was only 7 years old and performed this remarkable feat in a period little over 5 weeks of practice. (See "Pacific Radio News" and "Literary Digest", April 8, 1922) (Txn Russ Worthy)

**THE ORGANIZATION OF TITANIC ENTHUSIASTS OF AMERICA**

is as the name implies -- a group interested in anything associated with the Titanic disaster of 1912. Some members had relatives on the ship, others collect books, papers, etc. covering the event while some focus their interest on the part played by wireless. George Starry is a member, and although a youngster at the time, he well remembers the news sensation it created. George collects autograph books on the subject.

**SILENT KEYS**

SAM WEIDNER, W5GW, ex-9Gw, WDFVQ
Ottawa, Kansas. Mar. 29, 1971

MAJ. GEN. JOSEPH MAUBORONE (90 yrs.)
Atlanta, Ga. Communication expert and former head of U.S. Signal Corp

GERALD GROSS (67 years) Alexandria, Va.
May 9, 1971 Communication specialist with P.O. and I.T.U.
(Txn K3CUI)
STENODE

FIG. 1

FIG. 2
THE STENODE

REVOLUTIONARY DEVELOPMENT 40 YEARS AGO

In the fall of 1930 a paper was delivered to the Radio Club of America by British Scientist Dr. James Robinson. Dr. Robinson's talk concerned the development of a new method to minimize interference and improve receiver selectivity. The key to his system was a quartz crystal in the IF section of a superhet receiver.

We are all now familiar with his dramatic disclosure--the crystal filter so popular in amateur receivers for the past many years. The first writeup appeared in the October, 1930 issue of RADIO NEWS followed by others in February and March, 1931 issues of the same magazine. Several companies were formed to manufacture the crystal known as a STENODE RADIOSTAT. Foremost were Stenode Corp. of America American Radiostat Corp. and the British Radiostat Corp.

Just what happened to these companies is not known except shortly after several receiver manufacturers came out with sets incorporating a crystal in the I.F. for selectivity. One of the first was the National FB7-X with "X" indicating the crystal filter. Others followed including Hammelund and Hallcrafter.

The early Stenodes had a crystal cut for 175 kc. However, in time, the frequency was increased to 455 kc. An unmounded crystal sold for $10 and units mounted in a glass bulb sold for $15.

The letter was most popular and had a standard 4 prong UX base. One side of the crystal holder went to the plate prong and the other to a connection at the top to reduce electrostatic capacity. The National Co. sold a complete line of components enabling the home constructor to incorporate the principle in his super providing it had 175 kc. IF.

When first announced there was much interest since some proponents felt if all broadcast receivers used the filter the number of broadcast stations could be increased. With WZQ on 760 kc., a demonstration showed two other stations could broadcast within 5 kc. (765 and 775 kc.) without interference.

Needless to say, this never materialized although great attempt was made to show there would be little loss in performance with such operation.

Arthur Lynch, one time Editor of Radio News, was frequently associated with STENODE promotion. The A.W.A. Museum displays two historical STENODES, the latest received from Bill Laverty who contributed information for this article.

New Members

who are or have been in the communication field

James Cera (W2UZ) Columbia BC System
Beo Depey (ex-W2FGT) Station WGN
Lloyd Bennett, General Electric Co.
Julian Nielsen (ex-W3DEP, 5FGV) KQEI,
KOME, KFRE, WOPC, KMGS, KVON, KJSV
H.J. Scott (ex-79G) American Marconi,
GCA, Bell Labs, Prof. Emeritus,
Radio Engineering, Univ. of Calif.
John Foulger, Aylesbury, England
Member British Vintage Radio Society
Reginald Dawes (Santa Barbara, Calif.)
Radio servicing
Hyman Wallin (ex-2CHF) Commercial operator and C.I.A. Communication
Ray Baird (W6HTW) Acoustical engineer.
J.K. Graham (Freemont, Calif.) Electrical Engineer
Morgan McPherson (W9GPE) T.R.W., Electronic
T.J. Reien (ON4OK) Antwerp, Belgium
Pioneer operator (commercial oper.)
Art Stohret (W3FFV) (ex-3ALZ, U5AJ
Radio Marine, U.S. Navy, commercial, etc.
Vernon Fischels (St. Cloud, Minn.)
W.N. Bell Telephone Co.
Richard Smith (W2EZL, ex-SJZK) AM-TV
broadcasting, equipment development
Fran Thiesse (WZBJ, ex-S6JZ) Asst.
Chief Engineer W5TR AM-FM-TV
Harry McConnell (W3BPC) Atlantic Director A.R.R.L., Consultant Eng.
Dept. of Defense
John Shields (W3OKP) Westinghouse Research Labs.
Richard Allbery (Tigard, Oregon)
Tektronix, Inc.
Dr. Rogers To Try to “Pick-Up” Mars.

Copy from a little known magazine called RADIO AMATEUR, March, 1920. Background: Newspaper and magazine writers interviewing Marconi in 1919 questioned him on his having heard extreme longwave radio signals or pulses which he was sure had not come from a terrestrial source. In their articles, the writers could not resist the temptation to label the source as Mars— an idea Marconi at no time put forth. But the fact was in the fire—and, along with many others, Dr. Rogers got on the Mars bandwagon with the following article. It was many years later before VLF “whistlers” were identified—in all probability the mysterious noises Marconi listened to.

Dr. J. Harris Rogers, inventor of the underground and undersea wireless, announced at his laboratory at Hyattsville that he would attempt to receive apparatus on the wireless plant to take messages of wave lengths up to 150,000 meters in an effort to “listen in” on the so-called signals from Mars or Venus.

Dr. Rogers declared that he would begin immediately to set the coils in such a position as to receive messages of that wave length, which would be 50,000 meters greater than Marconi’s, which was the receiver of sounds leading scientists to the belief that some planet of the universe was signaling the earth.

The establishment of the origin of the messages or even of the knowledge of intelligence behind the origin might take place in two months, Dr. Rogers said, but it will probably be many years before the earth is able to establish intelligent communication with another planet.

Carry No Intelligence.

“I have heard the extraneous noises,” Dr. Rogers said. “They are virtually the same as those heard over a telephone carrying heavy traffic or a defective receiver or during a storm. To me they have conveyed no idea of intelligence. There seems to be no system, as far as I have been able to discover.

“But Mr. Marconi claimed that he received three dots. If these were continually repeated they would be a virtual assurance of intelligence behind the sending force. But to assure ourselves of this they must be repeated distinctly a sufficient number of times.

“We must remember, however, that the noises such as I have heard, although they indicate origin at a great distance, are such as are always prevalent. Electrical currents and contacts in the air and outside of it, possibly, could be counted as the case.

Work Would Take Years.

“It may be any time within the next month or two that the messages are identified as originating from some planet. Then the serious work, which should take years will begin. We may first secure sufficient power to return the signal. A dot or three dots, or some such signal, could be sent successively for a year. Then if we have received a reply, or repetition of the message, we could start with something else. In this manner we might lead up to our numeral code, thence to the alphabet, and to ultimate communication.

“It can readily be seen, therefore, that the work of deciphering our code might take years. On the other hand, if we receive definite messages, we could repeat them back, and await another repetition. This would be but the first step, but it would be the most important one.