Everyone wants a repeat soon! More will construct O.T. transmitters! QRM galore! Fun no end!

There it is in a nutshell and here are the top ten scorers and their transmitters:

<table>
<thead>
<tr>
<th>POSITION</th>
<th>STATION</th>
<th>LOCATION</th>
<th>POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W2LV</td>
<td>Sparta, N.J.</td>
<td>47 MO</td>
</tr>
<tr>
<td>2</td>
<td>W2QY</td>
<td>Rochester, N.Y.</td>
<td>6A07</td>
</tr>
<tr>
<td>3</td>
<td>W2BN</td>
<td>New Hartford, N.Y.</td>
<td>W2305D</td>
</tr>
<tr>
<td>4</td>
<td>W5AO</td>
<td>Jackson, Miss.</td>
<td>TTT</td>
</tr>
<tr>
<td>5</td>
<td>W2TBF</td>
<td>Hopkins, Minn.</td>
<td>245'</td>
</tr>
<tr>
<td>6</td>
<td>W2PBF</td>
<td>Groton, Vermont</td>
<td>150'</td>
</tr>
<tr>
<td>7</td>
<td>W2AN</td>
<td>Holcomb, N.Y.</td>
<td>210 MO</td>
</tr>
<tr>
<td>8</td>
<td>W2BN</td>
<td>Rock Island, Ill.</td>
<td>120 MO</td>
</tr>
<tr>
<td>9</td>
<td>W2AF</td>
<td>Lakeville, Mass.</td>
<td>150 MO</td>
</tr>
<tr>
<td>10</td>
<td>W2EB</td>
<td>Geneva, N.Y.</td>
<td>210 MO</td>
</tr>
</tbody>
</table>

Robert Morris, W2LV, is a real contest man with a score of 52.5 out of a possible 64.5!! Congratulations, Bob, you deserve the number one spot. He built his transmitter to work both 150 and 80 meters and used a halfwave dipole 50 feet in the air.

Low power honors go to Frank, W2BNH, with an input of 2 watts to the final. His outfit normally is a portable all one unit, fed from batteries. He used a "B" eliminator and poured the final into a 100 end-fed wire only 15' high. The built-in receiver contains a 32 type tube regenerative detector and a 30 one-step audio amplifier. Beautiful for emergencies!

Oldest antique transmitter -- Cliff, W2AF, who built it from a January, 1927 QST article.

The only YL AWA member to participate in the contest was Janice King, W2TP, who is an ex PJ.

Everybody spent hours lovingly reconstructing the Old Time Transmitters, carefully pruning and testing circuits, ever so gently applying voltages. These were fragile old tubes to be loaded up slowly, watchful of the first signs of gas or overheating. We will bet there wasn't one red hot plate in the contest. No transmitter left the air because of trouble -- a tribute to the tough old equipment and the skilled men operating it.

The title of "most persistent ham" goes to Dick, W2TBF. The first night he worked 21's, 5's, 8's and 9th district stations on his attic dipole but could not raise one single 1st district call. He was determined to work the First call area and decided to put up an inverted "T" (in the middle of winter!) It was below zero in Minnesota so he assembled the skywire in the house and with the help of the kids holding it up, they dragged it outdoors, shaking through rooms and doorways. After many trips inside to warm chilled fingers, it was finished -- then success -- two first district QSO's.

A certain W5 reports a non member in the 4th district chewing him out about a terrible note, atrocious keying and "you should be ashamed and why not QRT". It must have been one of those cold nights in Florida when the disgruntled "h" was shivering and shaking at his operating table. All us comfortable guys up north gave his self-excited TTT 145s at least a T6 report. The "h" was most likely an unhappy W1 from the North...

-2-
Transmitter at the Winning Station of Bob Morris, W2LV, Sparta, N.J., consisting of 47 oscillator, 46 buffer and pair of 210s in the final.

Shades of THE OLD MAN and ROTTEN QRM! Spark days had nothing on the bedlam of 3580 plus or minus a few cycles with thirty-five or forty 82 to 40 over 89 signals overlapping each other. It was necessary to copy a signal by its characteristic fist, particular note or pitch, amplitude, code speed or by pure imagination. As a result we have suggestions: "spread out plus or minus 10 kc."
"all xtal control" "all VFO" "if VFO -- stick to one frequency"
"lengthen time period" "extend hours to work other time zones"

Gee whiz, ya wanna make it too easy? hi...

Several found old time regenerative receivers were useless in the QRM and switched to modern knife-blade sharp supers. One ham suggests the contest be limited to pre-1940 transmitters and old receivers. Then we surely would have to spread out the frequency band operation unless you used one of the later 1930 super-hets.

Admittedly, half the fun is building and operating O.T. sets, but most of those who participated would like to see more members encouraged to join in the fun even with modern equipment. Perhaps 3570 to 3580 for modern and 3580 to 3590 kc. For O.T. equipment would do the trick.

Many would like to keep up QSO's with old or new rigs and indulge in some good old fashion ragchews now and then. Frank, W2EM, suggests old cronies meet on 3590 kc. and that certain nights be set aside for AWA member QSO's. As you already know, the AWA has a SSB (3900 kc.) Net operating each Sunday at 12 noon and Tuesday at 8 P.M. EST and also a CW (3590 kc.) net operating at 6 P.M. EST the first Wednesday of each month. These are well attended. Several AWA members (retirees) now meet at 3:00 or 4:00 PM any weekday on 3580 for informal ragchews and fun with old equipment. Why not as a starter consider each Wednesday at 8:00 P.M. Local Standard Time an AWA night with 3580 as calling frequency and move off a KC or so once contact is established? This would allow transcontinental QSO's without getting into the dinner hour on the West coast or
the slumber hour here in the East. Bill Orr, W6SAI, is in the process of building an old time xtr and would like to contact some of the gang in the East. All told, stations in 8 call areas participated.

Come join in on the fun and be on the lookout for the next melee to be announced in the OLD TIMERS BULLETIN! --- de W2EGN (Ken Gardner)

CONTEST RESULTS

A.W.A Old Time Transmitter Contest, February 3rd and 10th, 1971
8:00 to 10:00 P.M. E.S.T.

<table>
<thead>
<tr>
<th>Stations</th>
<th>Transmitter year</th>
<th>Points</th>
<th>Score</th>
<th>Multiplier</th>
<th>Total</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1LMD</td>
<td>1961</td>
<td>1</td>
<td>31</td>
<td>1.0</td>
<td>31</td>
<td>7</td>
</tr>
<tr>
<td>W1PEG</td>
<td>1934</td>
<td>2</td>
<td>22</td>
<td>1.5</td>
<td>33</td>
<td>6</td>
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<tr>
<td>W2AN</td>
<td>1928</td>
<td>2</td>
<td>22</td>
<td>1.5</td>
<td>33</td>
<td>6</td>
</tr>
<tr>
<td>W2AFE</td>
<td>1927</td>
<td>1</td>
<td>17</td>
<td>1.0</td>
<td>17</td>
<td>9</td>
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<tr>
<td>W2EGN</td>
<td>1930</td>
<td>2</td>
<td>28</td>
<td>1.5</td>
<td>42</td>
<td>3</td>
</tr>
<tr>
<td>W2EB</td>
<td>1929</td>
<td>2</td>
<td>15</td>
<td>1.5</td>
<td>22.5</td>
<td>10</td>
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<tr>
<td>W2GB</td>
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<td>1</td>
<td>26</td>
<td>1.0</td>
<td>26</td>
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<td>W2IV</td>
<td>1931</td>
<td>2</td>
<td>35</td>
<td>1.5</td>
<td>52.5</td>
<td>1</td>
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<tr>
<td>W2NP</td>
<td>1960</td>
<td>1</td>
<td>15</td>
<td>1.0</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>W2QH</td>
<td>1932</td>
<td>1</td>
<td>20</td>
<td>1.0</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>W2QY</td>
<td>1937</td>
<td>2</td>
<td>30</td>
<td>1.5</td>
<td>45</td>
<td>2</td>
</tr>
<tr>
<td>W5AO</td>
<td>1930</td>
<td>2</td>
<td>24</td>
<td>1.5</td>
<td>36</td>
<td>4</td>
</tr>
<tr>
<td>W53GF</td>
<td>1960</td>
<td>1</td>
<td>15</td>
<td>1.0</td>
<td>15</td>
<td>15</td>
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<tr>
<td>W5FX</td>
<td>1947</td>
<td>1</td>
<td>18</td>
<td>1.0</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>K5IKO</td>
<td>1929</td>
<td>2</td>
<td>3</td>
<td>1.5</td>
<td>4.5</td>
<td>11.5</td>
</tr>
<tr>
<td>W9BMH</td>
<td>1936</td>
<td>2</td>
<td>22</td>
<td>1.5</td>
<td>33</td>
<td>6</td>
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<tr>
<td>W9TRF</td>
<td>1938</td>
<td>2</td>
<td>23</td>
<td>1.5</td>
<td>34.5</td>
<td>5</td>
</tr>
</tbody>
</table>

Logs submitted late or not received: K1Q0O/4, WL4H, W1LTH, W2ARX, K22BB, W2CTT, W2ZB, W3OY, W3FUZ, W4DET, W6ZM, W5MUG, W6BKM, W6SS, W9PB, K9-QBJ.

Homemade changeover switch made up by AWA Treasurer W2QY and used in contest. Link, being a purist, used old fashioned lamp cord between xtr es ant coupler.

Marconi Monument

A tower erected in 1913 near Shark River, New Jersey by the Marconi Wireless Telegraph Co. was damaged recently by high winds. The historical 60 ft. steel structure, a source of local interest and pride, will be repaired in the near future. (NEWARK, N.J. NEWS) (Tnx W2QO)

AWA NETS

PHONE: 3097 Kc.
Every Sunday -- 12 noon
Every Tuesday -- 8 P.M.
CW: 3580 Kc.
First Wednesday each month 8 P.M.

HELP!

The "HELP" request in the last issue concerning name of receiver with tuned front end followed by broad band stages brought several replies. Jack Rhodes (Victoria, British Columbia) believes it could be a HELDON receiver made in Chicago. He also points out Hammarlund- Roberts had a similar version. Peter Kallus (Chicago) tells us SPARON also made a similar set -- wonder if there was any connection?

Clarence Tuska recalls that while employed by Atwater-Kent, some thought was given to the same subject to avoid patent litigation...guess we could write quite a story on the subject...
LYONS HISTORICAL COLLECTION

Several years ago a brief description of Floyd Lyons' historical bulb collection appeared in the OTB. A recent visit by Paul Gigenti to San Francisco yielded these pictures from his camera showing other material. Although primarily an incandescent light bulb and tube historian, Floyd has interest in the development of other early equipment.

--- Top Photo ---
Top shelf houses early meters plus a Radiometer, Murdock coupler and Daven aud. ampli. 2nd & 3rd shelves show various types of inductance tuners and coils including AK components. There is even a gang-tuned Velos variometer. Bottom shelf: Radiola I, Crosley 51 RADA, ACME Y-2 and Radiola IIIA.

--- Center Photo ---
This showcase houses many interesting crystal sets & detector units including EICO, electrolyte, Firth, Picard, Clapp-Eastham, Ferron, Lowenstein Triple detector, and Martian Big Four. Also seen is Murdock sliding condenser and OR inductors. 2nd shelf has a mint Hemler Infrahyde ampli. Lower: Tusk 225, Loewe receiver complete with 3-in-1 valve, Arnold coupler and partly hidden -- a GE ER-753 xtal set (forerunner to Radiola One). Bottom shelf: Radiola III, Radiola RS, De Forest DT-700, Radiola Type RF & Welsh 501 set housed in a glass cabinet (a la Greenwood).

--- Bottom Photo ---
Rare tubes including replica of 1906-07 Audion, several Loewe multi-tubes, French horn type, Fleming valve, Tigerman plus many rare British, Dutch, French and Japanese tubes.

As mentioned in earlier BULLETINS, advance appointment is an absolute must.
Again Lauren and Joyce Peckham played host to over 60 members and friends some from as far away as Pennsylvania, Ohio and New Jersey. Equipment was discussed and traded with much attention given to the several new pieces in Lauren’s amateur museum. As usual, the huge theater pipe organ stole the show with veteran organist Dean Robinson at the console.

FROM HEADQUARTERS

A.W.A. Secretary and Treasurer receive on the average 10 letters a day ----- mostly seeking information (without a returned S.A.S.E.). In order to reduce this pile of mail, AWA compiled the most frequent questions and list the following answers:

1. A.W.A. dues -- $3.50 per year subject to increase with mailing and printing costs. Payable only ONE year in advance. There is NO entrance fee.
2. Application for membership MUST have signature of sponsor.
3. A.W.A. Bulletin does not have paid advertising.
4. A.W.A. does NOT solicit members. It is NOT interested in a large membership because of lack of facilities and manpower.
5. A.W.A. does NOT deal in equipment. Other than for a few special pieces, all material in the barn museum belongs to members or the Association and is not for sale or swap. See OTB Vol. 10, #3, page 10.
6. It is necessary to have advance appointment to visit the AWA Museum. See Bulletin for hours. There is no charge.
7. A.W.A. will on occasion appraise equipment being donated to a public museum or settle an estate -- but NOT for sale purposes.
8. A.W.A. is chartered as a non-profit historical organization. It has NO commercial interests and NO paid personnel.
9. Yes, AWA is a clique. You’re welcome to join the inner group ---- we need more people to work for nothing.
10. Collectors are not interested in large A.C. broadcast sets -- particularly models manufactured after 1936.
11. Your regenerative broadcast receiver using 201-A tubes was NOT manufactured in 1914. The 1914 date on the nameplate is the original Armstrong patent date. Sorry.

IEEE Spectrum

Members of the Institute of Electrical and Electronic Engineers had an opportunity to read about A.W.A. activities in the April, 1971 SPECTRUM. The article appeared on pages 88 and 89 in our issue and was compiled as a "Special Staff Report" by IEEE Staff Member Gordon Friedlander.

Although brief, the author gave a fairly comprehensive background on AWA plus four pictures taken in the Association’s amateur museum.

Reaction has been extremely favorable from both AWA and IEEE members with several queries from the latter indicating an interest in early equipment development.
A.W.A. Officers had 4 busy days in April. It started with an informal dinner at the Holloway House with Bill Windle (GSVG) and XYL as Guests of Honor. The Windles were visiting the States and included a visit to AWA Museum as part of their itinerary. CM Windle most certainly qualified as an old timer having started as an operator in the Royal Navy WWI.

Bill was exposed to spark and arc transmitters as well as Perikon and other types of early detectors. The intervening years found our guest with G.P.O. in different capacities including landline telegraphy.

To show his appreciation and interest in historical radio, GSVG donated a rare British WWI spark transmitter to the Association (see photo).

The next day found members convening in New Jersey with visits to several historians as their objective. The first stop was at Princeton where they saw Howard Schrader, world’s famed tube/collector historian. A visit to Howard is always a memorable occasion for he has the largest collection in existence. Fleming valves, original audions, rare development tubes, untold hundreds of foreign originals plus series in the development of cathode ray, magnetron and other sophisticated types.

The group then adjourned to Trenton where they were warmly received by Ed and Pauline Raser -- the latter a licensed amateur of many years. Most agree W2ZI has the finest collection of commercial gear in the country.

The novice BC collector would be lost in this museum whereas the old time engineer/operator would stare in disbelief at the shelves of rare shore and ship apparatus of a bygone era. Raser doesn’t stop at equipment -- his library of books, magazines, catalogs and photographs are unexcelled. Material from the W2ZI museum has been used in several AWA film shows.

The following day, the gang drove north making their first stop at the home of tube historian Gerald Tyne. Schrader may have the largest collection but Jerry has some of the rarest. They were particularly interested in a Leiben-Reiss valve -- one of the rarest tube to be found.
This tube, also known as a LRS relay, was made in Germany and vies with de Forest's audion as one of the first triodes. Tyne, retired from Bell Labs and now a Smithsonian Associate, is currently revising his SAGA OF THE VACUUM TUBE -- the bible for tube historians and collectors.

Leaving Jerry, the group found their way to Morristown, the home of Alfred Vail, telegraph pioneer. Here a large gathering of Morse Telegraph Club members were having their Annual Dinner celebrating Samuel F.B. Morse's birthday.

It was a festive occasion with dozens of old time telegraphers present some having traveled great distances. The dinner was highlighted by a presentation of a beautiful key and soun der from Western Union Officials to the club.

Closeup of WWI spark transmitter. The little set has historical significance since it is British Model No. 1. It is somewhat similar to our WWI aircraft transmitter pictured on p. 11, OTE, Vol. 9, #1. The door on the side allows the operator to adjust the vibrator on the spark coil and spark gap.

Visitors listen intently as Howard Schrader tells of foreign tube development. He is holding one of the original high power transmitting tubes used at "FL", the Eiffel Tower station, Paris, France.
When returning to the table after talking to a friend, your Secretary had a pleasant surprise to find someone in his chair. A dirty look turned into a smile when he recognized his old friend "Faragon Paul" --- Paul Godley! It was still a greater surprise when Paul tapped out YAP in Morse which is Phillips Code for "yesterday afternoon". Seems Godley had been a telegrapher in his youth.

With Stu Davis, W2ZH, as lead man, other AWA members present were W2FR, W2EI, K2NF, W2LV, W2DEO, W2PFW, W2QR, W2gGR, W2ICE, Harry Houck and Paul Godley -- did I miss anyone?

Great plans are in the offing for making Alfred Vail's home and factory into a public museum. We hope to have a report on this from W2ZH sometime in the future.

Ed Raser showing the group one of his rare receivers -- an IP-76 made by Wireless Speciality Apparatus Company sometime between 1910 and 1912.

DeForest, White, Langmuir, Schottky, Mullard and other vacuum tube pioneers are discussed by Jerry Tyne. Left to right: Link Cundall, Howard Schrader, Gerald Tyne, Bob Norris and Harry Houck.
EDWARD BERGEN (WIGDY/ WIGE) can claim he had one of the first pieces of equipment made by Charles Lautz. Herb started in the game as a ham in 1912 when his pal designed and made a rotary spark gap for him -- his friend, of course, was young Lautz who later designed the many famous Lautz classic receivers.

KEN HEPWORTH (ex-W5IGI) would like to correspond and meet other members in Kansas. He is former Electronics Engineer with Boeing and is now in TV work. Interests: old radios and cars. QTH: 517 Hendryx, Witchita, Kans. 67213

AL MARYN (W5DI) is still piecing together a small biography on Milton B. Sleeper. Al also plans to re-copy another QTH for reprint. The fellows will really appreciate this Al.

EVERETT BERRY (Iansing, Mich.) has swung his interests to old tubes. A recent listing showed EY having a good start with hundreds of tubes including rare ones such as DC Forest Audions, etc.

WICK STEELE (Sacramento) succumbed to collecting after he picked up a Kennedy 220. Once hooked, he now finds himself with an AK-10, a Sodion receiver, Radiola V (crystal type), etc.

Not bad for a start!

VINCE HUMPHREY (W5EVD) is a new member in Minnesota. Vince sent a rather impressive list of sets he has in his amateur museum some which date back to WWI.

DON KNOWLES (Hillsboro, Ore.) is a new member in Oregon who has shown an interest in historical radio for several years. He would like to meet others in the area.

BILL LAVERTY (Lansdowne, Pa.) has been doing some traveling and managed to pick up a number of old BC sets plus some rare QSTs and catalogs. Bill has been doing lotus swapping which is a good way to build up a historical collection.

THORN MAYES (W6AX) had extra copies made of his fine WWP Co. article in last QST which is in great demand -- one of the best yet! He is now thinking of writing a similar one on American Marconi. Thorn is doing some serious experimenting with oxid coils which may result in still another article. Keep up the good work OM.

JOHN CAPERTON (Louisville) has added several rare ones: 100 watt Arad spark coil, Clapp-Eastham 6 KW. high tone transmitter!, Marconi 21A shipboard set, Grebe GR-6-12-14, Paragon KD-5 and 205 Radiophone plus other "goodies".

FRANK ATLEE (WWPI) now has a Kennedy Mod. 30 and a beautiful old time key setup mounted on glass base which includes a Bunnell and F.B. Chambers... sounds interesting.

BOB CORBAUGH (W2NY) has his Collins 32B on 160 meters. A beautiful transmitter. Several collectors other than Bob are now concentrating on 1930-40 gear including Bill Orr, W6GAI.

HAROLD GREENWOOD -- author of WIRELESS and RADIO has been in a convalescent hospital and from all reports is doing well...Speedy recovery Harold.

FRANK BOSKUS (W6YPM) had the very good fortune of obtaining a Fleming Valve from an old Marconi operator who purchased the tube in 1912 and never used it! Other items for Frv are: W2EB and W6EB receivers, Paragon T5, Hal- cum Loosecupler and several marble base keys.

FRANK PAGE (Lynn, Mass.) reports visiting a flea market in Rome, Italy. It was strictly a Sunday affair and unusually large with a wide variety of material. Result: Franck brought back a few interesting European tubes.

DEE BARMET (Pitt. Wayne) reports several requests for his 33 page AK Service Manual. Dee plans to exhibit again at the nearby Three Rivers Festival.

CLYDE THOMAS (Ashland, Ky.) hit the jackpot -- he picked up 38 copies of Modern Electrics (including Vol.1,#1) plus lotus dupes for trading.

WILLIS OTTO (WDOC) reports receiving a Marconi Wireless Telegraph Company stock certificate dated 1914 from a Sioux City, Iowa bank. Seems they were cleaning out an abandoned safe deposit box and this was part of the contents. Nice souvenir to frame Will.

GEORGE SPARKS (Latrobe, Pa.) has been in bad company recently -- a bunch of hams! He had a fine historical exhibit at the Presque Isle Amateur Club which aroused all kinds of interest. If George doesn't watch out he'll get bitten by the bug and become a ham!
Bud Fischer (W2QGV) may have a relatively new call but don't let it fool you -- he likes others has been in the game a long time. Bud's interest started in 1933. After the war he served as commercial operator on the North Atlantic run and has held the calls KAT and K2FX...

Bob Loyeter (Monroe, N.C.) sent a color photo of a beautiful RCA Victor Model VE-73 phono-combination made in the '20s. The battery receiver is mounted horizontal to the mechanical phonograph -- each with hinge doors. Any other member have a similar model? Bob suggests some kind of cross index system of other members' equipment. Good idea but a little involved considering some members are always in the process of swapping, etc.

Serge Krauss (Elkhart, Ind.) adds a Remler (Best) superhet, a Bowman crystal set and a Monroe one tube single circuit receiver to the shelves. If all goes well, Serge plans to attend the '71 Conference and judge the old receivers.

IN SIGHT AND SOUND, SMITHSONIAN PORTRAITS DEVELOPMENT OF MACHINES THAT MAKE MUSIC is the title of a new exhibit at the Smithsonian Museum of History and Technology. Many of the early objects of the show are the gift of Oliver Read, former Editor of RADIO NEWS and whose book "Tinfoil to Stereo" was reviewed in the OTS 10-2-16.

The exhibit covers a wide range of early musical instruments -- from the barrel organ to modern cassette decks. The viewer will see rare phonographs, player pianos, juke boxes -- and even a theremin!

The real eye catcher is the 15 foot stained glass window of Nipper, the famous RCA Victor dog listening to "his master's voice." The window is from RCA Victor Tower in Camden, N.J.

A highlight of the exhibition will be taped musical sounds, tunes and performances of different eras. The continuous tape will begin every 25 minutes and the sound will move from section to section of the hall as the viewer makes his way in chronological order.

In addition to old time music, there will be radio broadcasts and music from old movies featuring Ruby Keeler, Fred Astaire and Ginger Rogers.

Many of the pieces of equipment will be demonstrated at announced times. There will also be special lectures and concerts in a section designed to suggest a radio studio of the 1920's.

Rutherford Honored

Canada is recognizing the famous physicist Ernest Rutherford in the form of a 6¢ postage stamp. Rutherford was born in New Zealand (1871-1937) and is considered by some as the Newton of atomic physics. As a matter of fact, he is buried in Westminster Abbey near Sir Isaac Newton and Lord Kelvin.

(Bob Cobaugh, W2NX)

SILENT KEYS

Charles Young (W1MOC) Litchfield, Conn.
Bill Kerkhoff (W2HMO) Rochester, N.Y.
Charles Drew (81 yrs.) Tuckahoe, N.Y.
Department Head Radio Institute of America
Phito Farnsworth (64 yrs.) Salt Lake City, Utah. Pioneer television inventor -- frequently called "Father of Television".
Wife of radio manufacturer Atwater Kent. Mr. Kent died in 1949.
Henry Dickow -- publisher and editor "Pacific Radio News" and "Radio".
George Olsen (78 yrs.) Paramus, N.J.
Well known bandleader on early radio shows.
Paul Ware (78 yrs.) Coral Gables, Fla.
Manufacturer of Ware Neutrodyne receiver and later Manager Dumont Lab.
This sketch of a typical living room sometime in the 1930's was received from W3CBN without any identification. It was in rough shape -- faded, torn and held together with Scotch tape and apparently removed from an old magazine. It is of interest since the artist really knew his stuff. Note the boy studying the circuit of a one tube set from the Radio Section of a newspaper. There's dad tuning in a broadcast station (DX ?) with several members of the family listening...
in. Harding was President, the gals were changing their hairdos and rolling their stockings and the player piano holds songsheets titled "Mr. Gallagher and Mr. Shean" and "Three O'Clock in the Morning". Of greater interest is the barely legible artist's name: Geo. Clark. Surely, this can't be RCA's fame radio historian? Can anyone identify the artist and the magazine for due credit?
National Antique Wireless Ass'n Conference
CANDADAIGUA, N.Y. SEPT. 24-25TH
Headquarters: Sheraton Inn on the shore of Canandaigua Lake

TENTATIVE PROGRAM (Subject to change)

FRIDAY
Full day of programming for the amateur historian
VALUATION PANEL to determine value of historical equipment.
Moderator: Perry Farrell
Panel: John Caperton, Lauren Peckham and Bill Laverty
FISHEMAN'S BUFFET with wide variety of foods
Huge Swap / Auction Session Joe Pavek, W90EP, Chairman
GOLDEN TWENTIES -- a re-run of a popular show
Q.O.T.C. MEETING with Andy Shafer, W9TE, presiding
OPEN HOUSE at A.W.A. Barn Museum

SATURDAY
RECEIVER CONTEST Class I Best Factory made TRF receiver
Class II Best homemade or kit TRF receiver
Class III Best longwave receiver -- any type
OPERATION OF PIONEER BROADCAST STATION WGY
Ralph Yeandle, W2IX, retired Engineer W9Y/W2XAD/W2XAF
PAUL GODLEY "The Famous Trans-Atlantic Tests" in retrospect.
Paul will also comment on design and construction of
early Paragon equipment at the Adams-Morgan Company.

Delicious CONTINENTAL SMORGASBORD
LADIES PROGRAM (To be announced)

ARMSTRONG'S TESTS ON FREQUENCY MODULATION AT EMPIRE
STATE BUILDING IN 1934 AND 1935
Thomas Buzalski, W2BRR, Chief Transmitter Engineer
National Broadcasting Company, New York City

REPORT ON RECENT TRIP TO EUROPE'S HISTORICAL TUBE ARCHIVES
Gerald Tyne, Bell Labs/Smithsonian Associate

PIONEERS OF WIRELESS -- a show covering the great transatlantic
commercial stations of a bygone era. Vivid pictures with
unusual sound track.

THOSE WONDERFUL MAGAZINE COVERS Roland Bourne, W1ANA
Curator A.R.R.L. Museum

ANNUAL A.W.A. BANQUET and a good time

Full details and registration card with next BULLETIN which
will be mailed August 15th. May we suggest you plan ahead
and register promptly because of limited capacity. Members
and friends will have preference.

Enclosed find Motel Registration Card-- same rates as last
year. Other motels in area at commercial and tourist rates.
Again -- Conference Registration Cards available Aug. 15
and not before.
FIRST RADIO MESSAGE FROM A MOVING TRAIN

This is the ORIGINAL telegram sent by David Sarnoff, Dec. 11, 1913 aboard the Lackawanna Limited. The original was copied and is now hanging in the A.W.A. Museum. This excellent example of a very rare telegram was presented to the Association by Dr. Stuart Davis, Curator of the National Telegraph Museum.

WESTERN UNION
TELEGRAM
THEO. N. VAIL, PRESIDENT

RECEIVED AT THE WESTERN UNION BUILDING, 195 BROADWAY, N.Y. ALWAYS OPEN

A352 SY NZ 26 COLLECT 4 EXTRA

LACKAWANNA LIMITED VIA WIRELESS
VIA 00 BINGHAMTON NY DEC 11 - 13

F M SARNOFF

MARCONI CO NO 233 BWAY NEW YORK

THIS MESSAGE BY RADIO FROM TRAIN GOOD WORK FIFTY FOUR
MILES EAST OF SCRANTON GOING THROUGH TO BUFFALO JACKSON

ALL READY INSTRUCTED SARNOFF 333PW

NEW GEAR IN A.W.A. MUSEUM

WRITTEN MATERIAL: WLPN, Ken Huggins
TUBES: H. Schroder, W2WX
TRANSMITTER: G5VG
MISC. EQUIPMENT: W2DC, H. Scudder

Several unusual tubes have been added to the AWA collection including a Roome Oscillograph from W2WX and an American version of the French tube made by Moorhead in 1913. The spark transmitter presented by Bill Windle G5VG is mentioned elsewhere.

A.W.A. ON TELEVISION

Two A.W.A. members made TV recently as a result of their amateur efforts in historical radio. All reports indicate the fellows did a good job and provided the laymen an accurate picture of their hobby.

Bill Evertty (X-3AGA) ended up on nationwide NEC News and Ted Hannah, K3CUI, ran on two newcasts over Washington's WMAL-TV. Congrats for an impromptu assignment in good taste!

ANTIQUE WIRELESS ASSOCIATION
MUSEUM
HOLCOMB, NEW YORK 14469

Member:
AMERICAN ASSOCIATION OF MUSEUMS
Affiliate:
AMERICAN RADIO RELAY LEAGUE

The A.W.A. provides facilities for member's equipment and a photographic workshop for the amateur historian. Open for special events or by advance appointment between May 1 and October 31. No charge.

TELEPHONE: 315-657-7489 or 716-663-0865
Club Radio Station: Amateur W2AN

COVER: Drawn by H.C. Wheaton for the Second District magazine AMATEUR RADIO published September, 1924.
OLD TYME HAM ADS

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


WANTED: 481A for museum — parts for A-K breadboards, early electrical wireless catalogues, books, magazines and A.W.A. Bulletins. Buy or trade. Ed Emerit, Box 130, Sutton, Quebec, Canada

FOR SALE: All kinds of brass and stainless steel equipment for restoration purposes. Includes bolts, nuts, washers, knurled parts, wing nuts, etc. over 1200 items. Also have bronze and nylon parts. List your needs. Walt Strauss, W6BKR 29716 Brierbank Court, Southfield, Michigan 48076

FOR SALE: 481s from 1917, 4Qs from 1946 — any quantity. Erv Rasmussen, W6YPM, 164 Lowell St., Redwood City, Calif. 94062

FOR SALE — am forced to sell my large collection of broadcast receivers and other equipment. Everything must be transported by purchaser. Advance appointment necessary. Write for information. Frank Pagano, 1935 West 7th Street, Brooklyn, N.Y. 11223

WANTED: 6 or less complete binding posts for Westinghouse "Aeriosla Sr." Rodney Schrock, 402 Lincoln Street, Somerset, Penna., 15501

SWAP — large variety of equipment to select from — want Federal 58 cabinet. Everett Berry, 1919 Beal Street, Lansing, Mich. 48910

TRADE or sell: Radiola II, III, IIIA, CR-8, RA-10, Federal 110, WE amplifiers and other sets, spark items, tubes and speakers. Ernest Woods, WDEX, Beaver Meadow Rd., Higganum, Conn. 06441

WANTED: Metal dial (about 2 5/8″ dia.) with bakelite knob for Kennedy 220 receiver or 525 amplifier. Bill Orr, W6SAI, 301 Industrial Way, San Carlos, Calif. 94070

WANT to buy: 500 turn honeycomb coil with attached connectors — or will trade ERLA RF transformer (Reflex type) Also have ERLA AFT and In and Out put xfrms. Thales Bair, 5974 Alpha Ave., St. Louis, Mo. 63147

WHO knows the DeForest Reflex, Type D-12 receiver? When manufactured? Where to obtain schematic? Photo and/or dimensions for reconstructing loop antenna? Arthur Harrison, 1021 Falcon, Columbia, Mo., 65201

WANTED: Aerola Jr., Radiola III amplifier, Michigan Miqet. Have Pada 175A, Metrodyne and two gold coins to swap. Gary Vierk, 2505 Kickapoo Drive, Lafayette, Ind. 47905

WANTED: Magnavox Telemagnatone driver only. Write Wick Sted, 3671 West Way, Sacramento, Calif. 95821


SELL: Bristol 1 stage amplifiers, #936 W.E. 1925 3 stage amplifiers, Kolster BC set, Brandes spkr., WE 7A amplifiers. Crosley Trdyne plus components. Send SASE for list. Selwyn Blake, KICPN, 186 Summer St., Andover, Mass. 01810

WANT: Early BC sets pre-1923. Will buy or trade. Have sets, parts, keys and other gear. Carl Osborn, W5PMP, 13516 Calvert St., Van Nuys, Calif. 91401

NEWSPAPER COPY

We're sure many members read a recent article in a well known newspaper telling activities of several collectors. We trust the readers also noted the names of AWA Officers and the AWA address was NOT printed. For very good reason -- final copy was not read or sanctioned by the Association.

Accurate newspaper publicity is good. A recent story in an Elgin newspaper covering Dr. Ralph Muchow's activities was excellent. The one referred to above apparently did great harm.

One member, vacationing in Florida, was stunned when he received a telephone call and suddenly found quote: "Dean of all collectors, has 500 sets in perfect condition and valued at tens of thousands of dollars."

Such a revelation must have shocked his wife since she could have assumed he had a large secret warehouse with all this equipment. Likewise, his insurance agent and the Internal Revenue Service could also have asked him a few questions.

To make a nasty story short -- he had not been contacted by the reporter, the quote was incorrect and represented irresponsible journalism seeking sensationalism.

Numerous letters have been received from irate members (mostly collectors) who condemned the article. The non-technical reporter implied great value in old receivers. This may drive up the price and reduce purchasing power for the average hobbyist. Too bad the writer wasn't more accurate.

BEST WISHES TO ANDY ANDERSON - KONL on his retirement as Editor of the well known amateur publication AUTO-CALL...
Andy stuck it out for over 18 years -- we'll miss his fb Editorials and lusty humor.....take it easy Andy!

1971 CALENDAR

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

ANNUAL BUSINESS MEETING
QTH: Henry Blodgett, W2UFF
Victor, New York
2 P.M., Nov. 14
Radio GBTT

A THUMB-NAIL "CRUISE" ON THE NEW CUNARDER H.M.S. "QUEEN ELIZABETH 2nd"
Prepared for Antique Wireless Association
By Earle Wohler, W6FS, Member AWA

Everyone loves a ship! Whether large or small there is a certain fascination about an ocean-going liner. But the "Queen" is more than a ship. The Cunard S.S. Co. calls her a "pleasure palace" and most of the time you do not realize you are on the high seas, unless you should happen to glance out of the large, heavy plate glass windows, not (port hole) and see the beautiful blue-green waters of "our 7 seas". She is a mighty, majestic thing of beauty. The newest and most modern of any passenger liner and with a fully automatic 4 years old, the newest of the "Queens", all the pictures of fresh water, water, water books written about her, do not do her justice. You have to be aboard, cruising at 20 to 30 knots to fully appreciate her huge size and power. A two class ship, first class and tourist class, she is so designed that both classes have full freedom of the entire ship, different from the two former Queens, where one-way doors and barriers kept the two classes separated. On the "Queen Mary" and "Q E I" one could get hopelessly "lost" if you ventured as a 1st class passenger into the realms of tourist class.

Her length is 963 feet, beam 105 feet. She was designed to be able to go through the Panama Canal. The other two Queens the "Queen" could not. But the "Queen Mary" was 1019 feet in length, beam 118 ft. The "Queen Elizabeth" was 1031 ft. with a beam of 118 feet. All the 3 Queens were like huge resorts.

The first keel section was laid down on July 2nd, 1935, at the East yard of John Brown & Company shipyard on the Clydebank. Designed to keep fuel consumption to a minimum (normally 145,000 gallons of fuel oil per day. She has 3 boilers made by Foster & Wheeler Co., who also made the boilers for the other Queens. These main boilers are so far the largest built for marine installation. Her machinery with a total power of 110,000 shaft horse power, was the largest yet built for a twin-screw vessel. Her electrical generators 3 in number (one for emergency) would be capable of supplying the needs of a town of 21,000 people. The superstructure, above the main deck, is all-welded aluminum. This meant a saving in weight of 2,000 tons of steel. She is equipped with a fully automatic fresh water distillation plant producing 250,000 gallons per day from sea water. The Q E 2 can steam at a service speed of some 3000 miles without refueling. The bunkering system is carried out by one man, compared to six required on the other two Queens.

Two of the largest dining rooms in the world are aboard. One the Columbia dining room, the other, the Britannic plus the Grill Room, where there is a cover charge for dining.

Nine bars, with beautifully appointed cocktail lounges are at various spots aboard. You will never die of thirst or starve aboard this ship. The theatre is beautiful, capable of holding 500 people, including a gallery, entered from the deck above. The Queen's Room, 100 ft. wide by 105 ft. long is for dancing and ball-room events. Furnished in white and buff color.

The garage aboard will hold 60 cars. The ship's hospital is staffed with 4 doctors, working with very modern equipment. The officer's Ward Room, located forward below the Bridge, is a thing of beauty. A complete bar and cocktail lounge, play room, an ideal spot for visiting and relaxation. (First Radio Officer Mr. Holmes, was our host in this room where we had the grandest of cocktails.)

To all our radio friends, the Radio Room was fantastic. Located on the Boat Deck forward, you are bewildered by the array of beautiful equipment. The transmitting room was located about 250 feet aft of the radio room. All equipment was built by I.T.T., and digital systems being used throughout. The emergency transmitter was powered by a 12 volt battery source with a very high ampere hour capacity. Her radio call letters are GBTT, same as the SS "Queen Mary" had. The Radio Phone is SSB, and a separate panel transmitter console with operator maintaining a 24 hour watch is maintained. She has world-wide range. Mr. J. H. Butlerworth is Chief Radio Officer; Mr. A. W. Holmes is 1st Radio Officer, and 4 other Radio Officers, all great chap, complete the Radio crew. In the Chart Room is the Satellite Tracking panel which takes bearings from 4 satellites. Two telescope machines copy press and news and automatically punch on tape which is fed into line typewriter machines in the printing shop which prints the daily newspapers. The U.S. stations mostly worked are WCC and WSl.

The control of the ship is entirely by push buttons from the Bridge. No more brass engine-room, bridge telegraph in site. Radar, Sonar, etc all in evidence. Mr. D. G. Wilson is Chief Engineer; and Mr. J. Wilson, Deputy Chief Engineer. On the bridge, Mr. D. H. Lee is Chief Officer. Commodore W. E. "Bill" Warwick is in command. Mr. M. F. Heinik is the Staff Captain.

This cruise we recently made left New York on October 23, 1970, to the Canary Islands: to Dakar, Luanda, Durban, and Cape Town, Africa; then across the South Atlantic to Brazil (Rio de Janeiro and Bahia); South America; Curacao, D.W.I.; the Virgin Islands, St. Thomas; back to New York. 3 Continent Cruise, 37 days on the "Q E 2".

She has a capacity of 2,025 passengers and a crew of 905.

73 from Earle Wohler, W6FS, Sebastopol, Calif.

University Astronomer Honored With Sullivant Medal

DR. JOHN KAUS, W3JK, pioneer radio astronomer and professor of electrical engineering at Ohio State University, is the recipient of the highly prized Sullivant Medal, a honor given only once every five years.

John is Director of the University's famous Radio Observatory where he designed several of their radio telescopes including the 360 foot diameter. He is the author of numerous books and articles on antennas and the holder of many patents including the corner reflector and helical type antennas. The amateur knows him best for his famous 8JK flat-top beam. (KS1KO)
OLD OPERATOR'S LICENSE

Present day slip of paper given to the radio amateur is a far cry from the beautiful engraved certificate the oldtimer received 40 to 50 years ago when he passed the examination. It would appear the least the F.C.C. could do (after you have paid out the present exorbitant license fee) would be the issuance of something you would like to frame on the wall.

Pictured is part of the commercial license issued to Corwin Henry, K6DX, Feb. 29, 1912, known as the OPERATOR'S CERTIFICATE OF SKILL. It is the grandaddy of all operator licenses and few old timers can claim having one as proven by a recent survey made by Ed Naser, W2ZI.

K6DX's license, although not the oldest, is interesting since he was examined on the use of German Slaby-Arco equipment and the examining noting OM Corwin was "also familiar with United Wireless gear."

New Members

affiliated with radio


James Cranshaw, Dallas, Texas Continental Electronics Ted Schreyer, W1TH, Intercity Radio, RCA Radio Marine, W5AIF, NBC Wilbert Snyder, Boulder Colorado National Bureau of Standards

UNIVERSAL STATES OF AMERICA
Department of Commerce and Labor
NAVIGATION SERVICE

OPERATOR'S CERTIFICATE OF SKILL IN RADIOCOMMUNICATION

This is to certify that, under the provisions of the Act of June 20, 1920,
Leonard Raymond Henry
has been examined in radio communication and has passed in:
(a) The adjustment of apparatus, selection of points, and changes from one frequency to another;
(b) Transmission and reception at a speed of not less than fifteen words in a minute, using American Morse, fifteen words Continental, five letters
(c) Reading and marking of all telegraphic abbreviations, and the knowledge of Morse and telegraphic abbreviations as contained in the Radio Apparatus Regulations, is shown below:

[Signature]

By direction of the Secretary of Commerce and Labor

Newspaper clipping title: FIRST BROADCAST STATIONS. Note the plural.
COLLECTING TELEGRAPH AND CABLE FORMS

This business of collecting early historical material can branch into numerous areas as most of us know by now. A few issues back mention was made of collecting signatures of famous people -- now here is another one -- the gathering of old telegram and message blanks. Pictured are a few in the National Telegraph Museum operated by W2ZM. The W-U form in the upper right was received in 1925 from underground antenna pioneer J. Harris Roger. Collections of this type should prove appealing to the layman since their value is low and they occupy little space. As a matter of fact, hundreds could be easily stored in a large photo album.

FAKE TUBES

John Stokes (Auckland, New Zealand) cautions members to be aware of rare tubes they may purchase. Articles in QST and QTE tell of amateurs who have made beautiful replicas of Fleming valves and other hard to find tubes as a hobby. There is a possibility these tubes may get in the hands of unscrupulous individuals and sold as authentic -- so watch out...

COLORADO/WYOMING members are urged to contact Yardley Beers, W2VF, who with others, are in the process of developing historical archives at the local Department of Commerce Laboratories. Write: Yardley Beers, 740 Willowbrook Road, Boulder, Colorado, 80302

Market Drops

The value of HOTWATER-CENT Model 5 receivers has taken a sharp decline in recent weeks. Several collectors freely admit they wouldn't hesitate selling a HC-5 for $595 --- a mark down of $5 from the supposedly market value of $600 !!

This could be quite a blow to dealers who have stocked up at the higher price. The current recession may even lower the price to $590......

MORE ON AK PAINT -- most vacuum supply houses have a spray paint, plain and crackle (usually for Hoover) that nearly matches the Atwater-Kent colors...

---KB2HDR

20
E. A. Laport

W. L. Carlson

August 23, 1961

FIRST SUPER HETERODYNE RECEIVERS

The first super heterodyne receivers manufactured by
G.E. and sold by RCA for broadcast reception were the:

1. Radiola Super-Heterodyne Second
   Harmonic (see enclosed photo)

2. Radiola Super VIII

First shipment of these sets from factory was Feb. 29,
1924. By May 30, 1925 a total of 148,300 sets had been shipped
from Schenectady.

For some unexplained reason the table model did not have
a model number and was known only as the Radiola Super-Heterodyne
Second Harmonic model. This set employed a fixed built-in loop
antenna but did not include a loudspeaker. Batteries were located
in side compartments.

The console Radiola Super VIII model included a built-in
rotatable loop antenna and a horn loudspeaker.

Both models employed the same chassis. The 6 tube (UV 199)
circuit included untuned RF stage, 2nd harmonic osc.-converter stage,
reflexed IF (on RF stage), 2nd IF stage, audio detector and two AF
stages. This circuit was first developed by Harry Houd and is described
in an IRE paper, "The Super-Heterodyne - Its Origin, Development and
Some Recent Improvements", by Edwin Armstrong Vol. 12, 1924. Fig. 12
on page 552 shows Radiola VIII. Fig. 13 is the Radiola Super-Heterodyne
Second Harmonic model.

The chassis as designed by GE engineers for manufacture
featured a component assembly potted in wax, called the "catacomb".
(See two enclosed photos.) The RF and IF transformer units employed
3 mil silicon steel laminations. Two of the IF transformers had both
primary and secondary tuned to 42 KC and were critically coupled to
give bandpass characteristics. Regeneration was reduced by capacity
neutralization and by magnetic neutralization through the common
silicon steel core.

It is interesting to note that approval for manufacturing
these sets was delayed several months pending investigation of a new
noise problem. This was our first experience with thermal noise (hiss).

W. L. Carlson

WLC/dla

Nostalgic memories by an old time engineer reminiscing about the early wireless developments in England. In addition to the practical side, the author writes of humorous incidents such as the word "squeg". A squegger it appears, is a corruption of the "squeak negger", a one tube apparatus of First War vintage to determine the value of a high resistance.

The resistor was connected as grid leak in a suitable circuit and the value determined (guessed ?) from the pitch of the audio note produced!

Mr. Donaldson tells of a contributor to "Wireless Weekly" who had the great idea (40 years ahead of time) of using aluminum paint for circuitry on an enameled panel. A resistance check when in the can was good -- so the great inventor, dreaming of a brilliant future, traced out a simple circuit on the panel... Alas, after it dried, there was very little conductivity -- even when the e.m.f. was raised to over 100 volts. Apparently, when dry, the small particles would isolate themselves and seldom touch a nearby neighbor.

-----Dick George, W6TRG

THE AIRWAY RADIO STORY -- The First Fifty Years -- 1920 to 1970 by William Breniman.

This is another masterpiece by our old friend Bill Breniman -- the plugger behind the Society of Wireless Pioneers. This time he went all out and compiled a large format type booklet just chuck full of information and pictures showing the development of Airmail Radio Service.

Don't let the title fool you for the subject matter covers everything associated with early aviation and the radio men who helped keep it going. It is the product of the Society of Airway Pioneers. Copies are costly and limited to those in the field. Please don't write Bill unless you can qualify:

William Breniman, Box 530
Santa Rosa, Calif. 95402

GREAT MEN IN ELECTRONICS

On several occasions AWA has praised the fine biographies appearing in the ELECTRONICS DIGEST magazine. The publisher has finally combined the series in book form which is highly recommended for the historian's library. Contents include:

---E.P.W. Alexanderson
---Alexander Graham Bell
---Lee De Forest
---Thomas Edison
---Laurens Hammond
---Joseph Henry
---Karl Jansky
---Samuel P.B. Morse
---Michael Pupin
---David Sarnoff
---Charles Steinmetz
---Almon Strowger
---Nikola Tesla
---Theodore Vail
---Vladimir Zworykin

Since the first printing (Nov., '70) others will be added such as Elvin Armstrong whose biography appeared in the recent January/February issue.

The author, A.W.A. Member William Palmer, W5SFE, has the knack of giving considerable information in a few words. The articles are well illustrated with seldom seen pictures. More info ?? Write: Electronics Digest
2615 West 7th Street
Fort Worth, Texas 76107

VETERAN WIRELESS OPERATORS

Marconi Memorial
Gold Medal

was recently awarded to A.W.A. member Ken Richardson at the Sheraton Park Hotel, N.Y.C. The medal is given annually by the Veteran Wireless Operator's Association to a pioneer who has done outstanding work in the wireless field. The presentation was made by another well known pioneer, J.R. Poppele, V.W.O.A. President.

CM Richardson started in the game in 1907 and advanced to operator of De Forest's Great Lakes Station located at Erie, Penna. in 1909 ! The call letters were "KN" -- an abbreviated form of his first name Ken. The intervening years found the recipient in numerous enterprises including development and manufacturing radio equipment. Ken has held several amateur calls and has attended AWA Meets.

Some other recipients of the Marconi Gold Medal are: Ellery Stone, Raymond Guy, Paul Godley, Allen Dumont, Arthur Godfrey and Vladimir Zworykin.
Wasp

A follow-up on the history of the Pilot Wasp was made by Peter Kailus who has a complete set of RADIO DESIGN magazines (house organ for Pilot Radio). This is what he found:

VOL. 1 NO. 3 FALL ISSUE (Sept., 1928)
Edited by M. B. Sleeper
Contains 5 page article by John Geloso titled "Short Wave Pilot Wasp Has World Wide Range". It was illustrated with many fine photos, circuit, etc. It stated: Coils and set were designed with the assistance of R.S. Kruse.

VOL. 1 NO. 4 WINTER ISSUE (1928)
Edited by Kimball Houton Stark
Inside cover of this issue has full page illustrated ad stating "3 Tube Pilot Wasp" can be assembled for $21.75 in kit form which includes all parts and 5 Pilot coils (17 to 500 meters)

VOL. 2 NO. 1 SPRING ISSUE (1929)
Edited by Robert Hertzberg
Contains 9½ page article by Robert Kruse on the "Pilot Super-Wasp". Nicely illustrated with all construction details. Complete kit with two sets of 5 coils and full size blueprint -- $29.50

VOL. 2 NO. 3 FALL ISSUE (1929)
Edited by Robert Hertzberg
Contains 13 page articles titled: "The A.C. Super-Wasp" by David Grimes. The back cover ad states that the A.C. Super-Wasp could be obtained in "Custom Set Builders" kit form for $34.50 and a power pack for $16.50

GRAPHITE POTS
are next to impossible to find when restoring very early detectors. The heart of the potentiometer, is of course, the 180 degree graphite resistor. The arm and stop points can be found in most junk boxes. Interested in an exact replica?? for only $3.25 postpaid??
Write: Roland Matson, KLOKO
388 Concord Rd.
Bedford, Mass. 01730

Television

The word TELEVISION was coined in 1900 by a Frenchman named Perskyi.. Hugo Gernsbach introduced it for the first time in the U.S. in an article in the December, 1909 issue of his MODERN ELECTRICS magazine.
WHAT A MARVELOUS NEW WAY TO TUNE A RADIO!
I HEAR A FAMOUS DESIGNER DID THE NEW CABINETS

THAT'S HOW A RADIO OUGHT TO SOUND!
SAY, THAT NEW DIAL IS A BEAUTY!

THAT'S THE RADIO I'VE BEEN LOOKING FOR!

Coming!

WORLD PREMIERE of the new 1937

ATWATER KENT the line that will

GET THE EYE • GET THE EAR • GET THE SALE

The last "ad" printed by Atwater-Kent exactly one month before they went out of business -- May, 1936 (Courtesy Frank Atlee, K4PI)