Bob Merrill (W1MTE) (l.) and Jack Gray (W9JDV (r.) admiring one of the many unusual inventions displayed by pioneer Ken Richardson from Lynbrook, Long Island, at the National Conference. In addition to several original detectors, Ken brought a 1909 "Syntonizer" receiver used by United Wireless and a 3/4 KW, 25 KC, Alexanderson Alt.
"-----the meet was a smasheroo!"
(Gene Kerno, Milwaukee)

"-----outstanding...you can bet that I'll make the 1968 one!"
(Dick Hansley, New York)

"-----just wonderful!"
(Joe Pavek, Minneapolis)

"-----congratulations for a first class job—all activities well organized and presented."
(Eliot Sivowitch, Smithsonian)

"-----greatest convention I've ever attended of any kind!"
(Lee Anderson, Minneapolis)

"-----congrats on a wonderful convention—enjoyed every minute of it!"
(Dave McKenzie, Iowa)

"-----fabulous weekend!"
(Lauren Peckham, New York)

A few comments from those who attended the affair....guess everyone had a good time!

GENERAL COMMENTS: There is no need to go into detail on everything that happened other than to report that the program went according to schedule with one or two surprises thrown in for good measure. The Association is indeed grateful to Curator Frank Davis and the Henry Ford Museum Staff for their excellent cooperation and facilities.

A few highlights:
---the warm reception and standing ovation given to Mrs. Elwin Armstrong.
---admiration for the lengthy and outstanding career of pioneer Elmo Pickrell.
---the unexpected appearance of Ken Richardson, pioneer operator and inventor.
---the excellent technical program provided by the speakers.
---the smooth manner in which Poe Pavek and Vern Thompson handled the auction.
---Ralph Batchor's Judging Committee and their wise decisions.
---the Museum Guides and the vast display in the Museum.
---and the old time Saturday Nite "Movie" which climaxd a perfect day and proved the "old days" may not be so bad after all!

RANDAN SAMPLING OF THOSE ATTENDED:

Collector: "Doc" Meredith, Albuquerque, New Mexico
Journalist: Orson Raby, Toronto, Ontario, Canada
Historian: Clarence Dengler, Police Radio, Rochester, N.Y.
Collector: Ev Reunissen, Redwood City, California
BC Engineer: Bob Colmugh, New York Times Station, N.Y.
Engineer: "Hal" Dinger, Naval Research Labs, Washington
United Wireless "Op": Charlie Barker, Fredonia, New York
Collector: Ed Freeman, Yankton, South Dakota
BC Engineer: Charlie Stinger, W1W, Cincinnati, Ohio
Manufacturer: "Bill" Halligan, Chicago, Illinois
Historian: "Lou" Moreau, Altadena, California
Engineer: Bruce Boyd, Ellicott City, Maryland

The Attendance Poster showed members from 9 of the 10 call letter districts.

PROGRAMMING IN THE SPACIOUS HENRY FORD THEATER DURING ANNUAL MEET. MUSEUM FACILITIES AND PERSONNEL CO-OPERATION WERE EXCELLENT.
SATURDAY MORNING REGISTRATION AT DEARBORN

1. to r. -- Lloyd Sherman (W3CDY) and XYL from Franklin Institute (Philadelphia), Curator Frank Davis with Secretary and Link Cundall, A.W.A. Treasurer.

Pioneer Radio Astronomer Grote Reber explaining to Chairman Bruce Kelley characteristics of radio emissions from inter-stellar space as observed 30 years ago.
Marion Armstrong receiving Honorary Membership in A.W.A. at Annual Banquet. Charles Brelsford (KZWW), Vice-President, is making the presentation with Frank Davis, Ford Museum Curator, looking on.

**Film Show on Maj. Armstrong** is now being made by our club. The success on our show covering Marconi's life leads us to believe this one will top anything the AWA has made to date. As a start, Harry Houck and Bruce Kelley spent a day with Mrs. Armstrong at her summer home in New Hampshire. Here they photographed the Major's workshop, trophies, awards and the home the famous inventor loved so much.

Mrs. Armstrong graciously consented to a tape interview -- much of which will be in the show. Premiere showing is planned for the 1968 Conference in Washington. Copies of the show will ultimately be made and given to the A.R.R.L. for club distribution.

**An Inventor's Vindication**

is the title of a short writeup in the October 30th issue of NEWSWEEK magazine covering the long drawout lawsuits in recent years concerning Maj. Armstrong's FM patents. Interesting reading.

Mrs. Armstrong telling Curator Frank Davis about the first portable superhet made by her late husband.
Vern Thompson (W9JWW), Winner of "Most Unusual Receiver Contest" with Judge Chairman Ralph Batcher. An unusual assortment of receivers were entered by several dozen members. Judging was based on: 1. Unusual circuit design and appearance, 2. Restoration and condition of receiver, 3. Rareness. Ralph Batcher (former Chief Engineer for Grebe) headed the Judging Committee with Jack Gray and Frank Pagano assisting. The winners: 1ST PRIZE—VERN THOMPSON 2ND PRIZE—KEN RICHARDSON, 3RD PRIZE—LAUREN PICKHAM, HONORABLE MENTIONS—STAN JOHNSON and ROSS SMITH.

Admiral MacMillan Honored

Remember the MacMillan expeditions in the 1920's? It was quite a feat in those days to work the schooner BOWDOIN and it opened new channels of interest to the amateur. Pioneer explorer Donald MacMillan, now 93 years old (1) was recently honored in Boston for his achievements in 50 years of exploration. I bet most of you didn't even know he was still alive! (Tax Ruse Worthy)

CROSLEY SHOW presented by Jack Gray at Dearborn warrants special attention. The film show covered the history of this pioneer manufacturer and broadcaster—in fact, it even showed some of Crosley's more recent and unusual products which were quite a surprise to the audience. W8JDV did a terrific job in gathering the material and assembling it in order for presentation. We understand he may ultimately have his material in publication form.

FRIDAY NIGHT EARLY BIRDS

Group picture of A.W.A. members who arrived early and attended informal "get-to-gether" and cocktail party at Dearborn Inn. Photo taken by Bob Cobaugh (W2DTE) using 35 mm. Tri-X film without flash!
WIRELESS SPECIALITY APPARATUS RECEIVER MODEL 215

This beautiful commercial receiver quotes Ed Raser "Is built like a battleship and is very difficult to carry (?)". Made before WWI, it came equipped with perikon and silicon detectors and faintly resembles its cousin, the famous IP-76. Little information can be found on this particular model as to frequency range or where generally used. The extreme difficulty in trying to remove (?) one from the Ford Museum prompted WEZI to give one to the A.W.A. Link Cundall is currently restoring it and reports the serial is No. 117 -- a fairly low number.

ORIGIN OF QSL -- is always a good one to toss around says W2AW. As a starter, why not find out who has THE OLDEST QSL card. So-0-oo... if you have a verification card of any kind dated before 1920 -- drop us a line at Headquarters with the particulars... Who knows... we may turn up a prize.

RELIABILITY... Earlier this year, Leed & Northrup conducted a nationwide contest to find the company's oldest Type "K" potentiometer still in use. Contest results were interesting.

Of the nearly 400 pots entered, 19 were 60 or more years old, while 42 were between 50 and 59 years old. This was despite the fact that contest rules required the pots to be complete in their parts and in operating condition.

The oldest was a 1903 potentiometer used by Worcester Polytechnic Institute, Worcester, Mass. Congrats W.P.I.!

RARE TUBE FURTHER IDENTIFIED -- we still feel the tube shown on p.5 of the spring OTB is rare. Peter Kailua was the first to identify it and since then several others have come up with the answer including R.M. Weston over in Reigate, England. The latter appeared quite familiar with Loewe multiple tubes having seen several varieties of the same...

SILENT KEYS

O.H. CALDWELL (79 yrs.) pioneer in commercial radio and an editor in the field of radio electronics.

(Tnx W3AN, W2DTE, Nick Ziroli)

TOM WILSON (WD1D), Mitchellville, Iowa. Old time A.W.A. member and Engineer at WHO/WM/TV.

HUGO GERNBACK -- see biography elsewhere in Bulletin.
SWAP -- Radiola III, 3" Pilot TV rcvr. and other material. Want Radiola "ES", Radiola VII-B and other early receivers. C.E. Clutter, Tapawingo Rd., Vienna, Virginia, 22180

WANTED -- RFL Model "N" Radio Range Receiver as used on the Liberty Douglas M-4 mail plane back in 1927. Any information would be appreciated. Adriano Delfino, Corporate Historian, United Airlines, O'Hare International Airport, Box 8800, Chicago, Ill. 60666

SWAP or sell all kinds of early equipment and books. Need cabinet for Grebe CR-9 and Boston key. Bill Laverty, 118 N. Wycombe, Lansdowne, Pa., 19050

WANTED -- 6 tube A-K breadboard and W.E. DB microphone in familiar round brown housing. Have gear to swap. Gene Kerna, 235 W. Galena Street, Milwaukee, Wis. 53212

SWAP or sell G.E. tungar, Freshman power supply, A-K Mod. 55-F, etc. Wnt A-K Model 21, Grebe Synchrophase -- need not be in good condition. Gaylord Ewing, Box 309, Jackson Creek Rd. Bressport, N.Y. 14616

WANTED -- for authentic re-conditioning of a 1930 Ford Model "A" -- an under the floorboard car radio (such as Majestic) with steering column control. Will pay fair price. Bill Gassert, WECHM 21734, Gregory, Dearborn, Mich. 48124

WANTED -- de Forest items for memorial in de Forest's hometown. Art Trauffer, 120 Fourth St., Council Bluffs, Iowa, 51501


WANTED! Lists of old radios for sale and radios wanted. Also would like to buy or swap for, a Sargeant Communications receiver and a Pilot Super Wasp. Write: R.V. Matson, K1OKO, Highland Road, Pinehurst, Mass. 01966

STILL NEED one PAPA filament rheostat and triple socket or can use three brass shell nickle-plated single sockets if liked. Need Apr. and Aug. 1916 QST -- will swap. Al Marcy, W4ID, 461-3rd Ave., Sea Park, Edgalie, Florida, 32935

PAY CASH or SWAP -- want rotary spark gap and hotwire ammeter with terminals on side of case. Have early wireless items. Harry Cap, 190 Beach St., Bridgewater, Mass. 08234

WANTED -- blue tubes, Arcturus, Sonotron, Brighton, etc. Also Sodion, parts for de Forest D-101 crystal set. Write: John Brooxman, 12581 Pasco Cerro, Saratoga, Calif., 95077

SWAP various receivers. Want A-K Mod. 50 receiver (shielded type). Frank Pagano, 1351 West 7th Street, Brooklyn, N.Y. 11222

SWAP or pay cash -- want socket for an EP-501 receiver. F.A. Nichols, WJAX, 720 E. Eldorado St., Appleton, Wis. 54911

TRADE or BUY 2" dia. low range front or flush mtg. voltmeter and ammeter (old style) in working order. Selwyn Blake, K1CPW, 186 Summer St., Andover, Mass. 01810

WANTED: A.R.R.L. Handbooks first thru eighth editions and one good workable pre-1925 headphone set of well known brand. Art Peterson, W7CZB, Rte. 1, Box 20, Garfield, Washington, 99130

FOR SALE: Large quantity of UV-200's and UV-201's made in 1922 in original boxes--brass base and tip top--only $5 each. Also have 50 un-open boxes of UX-201A's made in 1929 at fraction of orig. cost. Bill Laverty, 118 N. Wycombe Ave., Lansdowne, Pa. 19050

WANTED: 2 knobs for Zenith receivers Mod. 3K or 4K. Also need Paragon DA2 audio transformer. Looking for Scott Shielded Grid 9", Silver Marshall, McNardo sets. Have swap material. John Caperton, 516 Country Lane, Louisville, Ky., 40207

FOR SALE -- many early broadcast receiver Sets for 1st. John Drake, Box 507 New Canaan, Conn., 06841

FOR SALE: new in orig. box W.E. Mod. 387 DB microphone with ring and springs but not stand--make offer over $15. "Comet" Super-Pro with coils (the first of the great communication rcrvs. --$50. Also many other odds and ends. Prefer sale up-state N.Y. Write: Fran Thissell, W2WJ, 164 Washington St., Manlius, N.Y.

WANTED: Audio transformers for A-K single stage (1 3/4" dia. type) and PP input for Radiola III. Also want modules for A-K breadboard sets... Pay cash or trade. Ross Smith, 1133 Strong, Elkhart, Ind. 46514

Hugo Gernsback
1884-1967

HUGO Gernsback, Editor-in-Chief of RADIO-ELECTRONICS, writer, publisher, educator, inventor and prophet, died August 19 in New York City. His age was 83.

Born in Luxembourg August 16, 1884, Gernsback received an electrical engineering education at the Technikum in Bingen, Germany. He came to the United States in 1904 to exploit an invention—an improved dry battery. A year later he started the Electro Importing Co., the world's first radio supply house.

In 1906 Gernsback founded Modern Electrics, the first of a long series of radio and technical magazines. He sold it in 1912, and after a series of combinations, it became one of the ancestors of today's Popular Science. He immediately started a larger magazine, the Electrical Experimenter (which became Science and Invention in 1921). In 1919 he established a purely radio magazine, Radio Amateur News. It became Radio News in 1920 and still exists as Electronics World.

When Radio News passed into other hands, Gernsback founded a new magazine, Radio-Craft (now RADIO-ELECTRONICS). It first appeared on the stands in July, 1929. Other magazines were Television (1929) and Television News (1932-33). He also published numbers of other technical, bio-medical and aviation magazines. In 1926 he established the world's first science-fiction magazine, Amazing Stories (still in existence). He is known as the father of modern science fiction.

Always a champion of the radio enthusiast, whether amateur, experimenter or professional, Gernsback's crusading for the rights of the early
“hams” caused the American Radio Relay League to refer to him at one time as the Father of Amateur Radio. His Wireless League of America, founded in 1909, was an early amateur group. He encouraged and sponsored the engineers’ association that later became the Institute of Radio Engineers (now IEEE) and tried to establish a radio service technicians’ organization, the Official Radio Service Men’s Association (ORSMA).

As inventor, Gernsback obtained some 80 patents, including one on the compression-type capacitor (the principle used in trimmers) and the use of bone conduction as an aid to hearing.

Best known to the general public as a prophet, Gernsback’s most striking prediction was the description of radar, which appeared in the Modern Electrics serial “Ralph 124C 41+.” In the same story he predicted space travel, microfilm, two-way television, germicidal rays, tape recording (with quarter-inch tape!), night baseball, artificial silk and wool, and fluorescent lights.

He was the author of three books, The Wireless Telephone (1908), Radio for All (1922) and Ralph 124C 41+, which appeared in book form in 1925. A second edition was published in 1950 and a paperback edition was put out by Crest Books in 1958. A Russian translation was published in 1964.

In 1928, his radio station, WRNY in New York City, was the first to broadcast television on a regular schedule. The miniature pictures were not considered entertainment quality even in that day, but were faithfully received by more than 2,000 amateur viewers.

He leaves four children, Madelon of Rome, Italy; M. Harvey of New York (publisher of RADIO-ELECTRONICS); Mrs. Tina Baer of New York and Mrs. Jocelyn Neichin of Monsey, N.Y., seven grandchildren and one great-grandchild.

SYNOPSIS OF PRECEDING INSTALLMENTS

Ralph 124C 41+ living in New York in the year 2060 while in conversation with a friend at his Telephot, an instrument enabling one to see at a distance, is cut off from his friend and by mistake is connected with a young lady in Switzerland, thus making her acquaintance by Telephot.

The weather engineers in Switzerland who control the weather decided to strike against the Government and turned on the high depression of their Meteor-Towers, thereby snowing in a large district. An avalanche threatens to sweep away the house in which the young Swiss lady, Miss 212B 423, lives and she appeals to the great American inventor, Ralph 124C 41+, to save her, which he promptly does by melting the avalanche by directed wireless energy from his New York laboratory.

The inventor on the same afternoon is given an ovation by distance, in which the Telephot plays a great part. Afterwards he reads a “newspaper,” the size of a postage stamp, and “writes” a lecture by means of the Microlograph, an instrument by means of which words are made to appear on a paper tape by impulses from the brain acting on the apparatus. During the night his head is connected electrically to the Hypnobioscope, an instrument by means of which words and sentences are transmitted directly to the brain while one sleeps, in such a manner that everything can be remembered the next morning.

SYNOPSIS FOR A CHAPTER IN HUGO GERNBASK’S STORY “Ralph 124C 41+

copied from the July, 1911 issue of MODERN ELECTRONICS magazine. The story appeared in serial form in 1911 and 1912. It was later published as a book.
The Famous Browning-Drake

by John W. Stokes, Auckland, New Zealand

In the days of a "circuit a month", the mid-twenties, one hookup enjoyed a long sustained popularity, this was the BROWNING-DRAKE. The merits of the B-D can briefly summarized as: sensitivity, stability and ease of neutralization.

Here's how it came about.

Firstly though and just for the record the B-D was, strictly speaking, not a "circuit" at all as evidenced by the statement issued by one of its creators. Quote - "It is the design of the (RF) transformers rather than the particular circuit in which it is employed which is the essential feature of the Browning-Drake."

To begin at the beginning, B-D had a somewhat more academic ancestry than most of the hookups of the era and this fact undoubtedly contributed to its success. It was in fact the end product of some applied research undertaken during the latter part of 1923 at Harvard University by two students, Glenn L. Browning and Frederick H. Drake. The object of this research was to investigate the reason for the indifferent results obtained with existing forms of neutralized RF stages and to this end the two investigators made a thorough mathematical study of the subject. During the course of their work they found that conventional RF coils had undesirable amount of capacitive coupling between primary and secondary which resulted in the production of a voltage in the secondary which was out of phase with that produced by the magnetic coupling.

To minimize this unwanted coupling, a special primary coil was developed which took the form of a small, narrow winding of fine wire placed inside the main former. The complete assembly was dubbed the "Regenafomer". As can be inferred from this designation, the B-D employed regeneration and its use on the BC band in the "anti-blooper" era was justified by the fact that the RF stage was guaranteed to prevent radiation.

In the original circuit a UX-199 tube was used in the RF stage because of its lower inter-electrode capacity which, it was believed, made neutralizing easier; subsequent developments allowed the use of a 201-A tube. Neutralization was accomplished by tapping the detector grid coil and feeding back an out of phase voltage through the neutralizing condenser to the RF grid. An improvement to the original design was effected in 1927 by John F. Rider who invented a modified form of coupling between the RF plate and primary coil. This took the form of an RC network which did away with the need for a separate neutralizing condenser and rendered the RF stage non-critical as regards the type of tubes used. The device in commercial form bore the name "Phasatrol" and it was marketed by ELECTRAD Inc.

W.A. Ready, President of National Co. in 1927, became interested in marketing the B-D and it was he who was responsible for the mechanical design of the Regenafomer. Due to the success of the enterprise, the name of the Company became
"results are simply amazing"

National Vehicular Vortex Dial driving a National Condenser upon which is mounted the newest National radio products—

The National Antenna Coil and the National Regenaformer prime requisites of an efficient radio set

The National Regenaformer is a tuned radio frequency transformer of highest efficiency. When used with a Browning-Drake receiver, the results are simply amazing. See these using these parts have given transcontinental radio reception with ease.

Send for Bulletin 105R

NATIONAL COMPANY, Inc.
110 Brooklyn Ave., Cambridge, Mass.

Géneral and Manufacturers. Established 1928.

Only equipment for the manufacture of the National Regenaformer under the Browning-Drake Patents

synchronous with Browning-Drake. The National Company issued specifications for their Official B-D kits listing the appropriate National parts. Their continuing association with B-D was reflected in the naming of two models produced in 1929-30, the MB-29 and MB-30. James Millen was the president of National Co. and the "MB" stood for Millen-Browning.

With the advent of the All-Electric receiver and screen-grid tubes, coupled with the decline in kit set popularity, B-D faded from the scene along with its famous contemporaries. The last kitset to bear the name of one of the originators was the Browning 35 which was marketed in 1935 by the Tobe Deutchman Corp. A metal tube version was produced in 1936.

Here endeth the B-D saga.

References:
"The Regenaformer" by Glenn Browning, QST, April, 1928
"Specs. for the Official Browning-Drake" National Co. Inc. factory bulletins

SOLID ALUMINUM one piece gooseneck horn speaker with adjustment knob on base.

Who made it? Frank Pagano has one but the manufacturer's name plate is missing. Can you help him out? His address is:

1835 West 7th St., Brooklyn, N.Y. 11223
BRAD BURNHAM RECEIVES BOSSING APPLAUSE for tuning in broadcast station WHAM in less than 3 minutes(!) at the recent A.W.A. Fall Dinner. The objective was to see who could tune in WHAM in the shortest space of time with a 3 minute time limit. The receiver was a Freed-Eismann using 5 UX-201A tubes. To make it difficult - the dials were all set 180 degrees off, the speaker disconnected and the filament rheostats set at zero. Gay Ewing volunteered first without too much success since he hadn't been tipped off. Brad came along next and after a very frustrating 2 minutes and 55 seconds the audience finally heard (very faintly) some music from WHAM. The next contestant didn't do too well. The previous two entrants had pulled the speaker plug in and out so many times that the cord was shorted so he couldn't hear anything. Bill, W2WV, the last contestant, was tipped off however that the knob on the horn speaker diaphragm had been set to zero!

SHIP DX? -- interested in copying ship stations? There is an article in the Sept., 1965 issue of POPULAR-ELECTRONICS magazine titled "All the Ships to Sea" or "How to QSL Ships". Written by two hams who apparently specialize in getting qsls from ships - you will find it interesting reading. It gives frequencies used and how to get station lists. (Tnx K2PI)

ANTIQUE WIRELESS ASSOCIATION
A.B.R.L. Affiliate
A non-profit amateur organisation documenting the history and technology of wireless and the work of its pioneers.

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Club Station - W2AN
"THE OLD TIMERS BULLETIN"
A news bulletin printed for members of the Antique Wireless Association.
Editor: Bruce Kelley, W2ICE/4CP
Make-up Editor: Larry Trigg, WZIK

Annual Dues: (including the "Old Timers Bulletin", certificate and other benefits) --- $2.75 per year payable to Club Treasurer:
Lincoln Cundall, W2QY
69 Boulevard Parkway
Rochester, N.Y. (14612)

Address all correspondence concerning Bulletin to: Bruce Kelley,
Main Street, Holcomb, N.Y. (14669)

AMATEUR REGULATIONS -- now that we have hashed over all the pro's and con's on the new F.C.C. Incentive Licensing Proposal (which most agree is a good thing) we find there is another worthy addition under consideration. Frank Matejka, W2MT, has made a thorough analysis of 2 letter calls - past -- present and future and concludes it would be feasible to issue 2 letter calls to all amateurs licensed prior to July 1, 1924......

NIKOLA TESLA "buffs" remind us it will be almost 25 years ago (Jan. 7, 1943) when this extraordinary person passed away. Few realize, unless they are a student of Tesla, that he did much work in the field of wireless. In fact, some speak of him as "The REAL father of radio!"
REPLICA OF STATION XVI, UNGA ISLAND, ALASKA

Communication display for Alaskan Centennial, Museum of History and Industry
Seattle, Washington

Warren Green, W7JY, sent us this photo (with W7AN's assistance) of the fine exhibit that he and others were instrumental in setting up for the Centennial which was between April and October of this year. In addition to the early wireless exhibit there was a Mainhead submarine cable receiving station set-up and an early telegraph station as used in Alaska. The equipment in the picture from left to right:

Marconi wavemeter (1913 vintage)
3/4 KW. Amrad (1919) spark transmitter
DP-501 (SE-1420) 1920 receiver
NESCO (1923) antenna loading coil
Audion box SE-1071
Audion box P-200 de Forest
Canadian Marconi receiver
Lowenstein antenna grounding switch

"SS QUEEN MARY" — many members read news accounts concerning the last official run of the great passenger ship the QUEEN MARY — but I wonder how many stayed home and copied G8T on her last voyage across the Atlantic? To the best of our knowledge Art Goodnow (WLDM) is the only one in A.W.A. Art copied a fair share of G8T's transmissions until she faded into the QSN. One reason why you may have missed it was it took place the same weekend as the Dearborn affair — Sept. 22.

A.W.A. INFORMATION

MUSEUM HOURS: Open only by appointment. Best time is a weekday evening. Write or telephone:
BRUCE KELLEY 315-657-7489
LINK CUNDALL 716-663-0856
If neither are available, call
George Batterson or Charles Brelsford (Rochester, N.Y.)

A.W.A. BULLETINS: Available only to members as a news journal. Printed every 12 weeks and mailed in March, June, September and December.

LETTERS: When writing to either Secretary or Treasurer — please send a self-addressed stamped envelope for reply.

RADIO SOCIETY OF GREAT BRITAIN's Historian John Clariccoats (G6CL) wrote us an interesting letter recently inquiring about the historical conference. John is the "Grand Old Man" of the Society having held the post of Secretary for 35 years! He tells us he recently published the history of the R.S.G.B. under the title "THE WORLD AT THEIR FINGER TIPS". More on this later.
FRANK PAGANO (Brooklyn) is still adding nice receivers to his already large collection. Example: Radiola I (Type 753A), Eveready Mod. 1, Pilot 3" TV, a rare Eveready Mod. 21 using 4 Type UX-240 tubes, a Dayton XL-30, Kennedy Mod. 70, Biwers "crystal" set, etc.

DAVE MC. KENZIE (K2SV) sent us a couple pictures of his neat amateur museum which is nicely laid out with glass showcases. Prominent in one photo is a de Forest OT-3 transmitter -- not an easy item to find. Dave appears to have a wide collection of historical equipment ranging from early broadcast to some rare transmitting gear.

TED WOODRUFF (W4WHP) made a nice swap with Clyde Trivelle for a rare speaker -- an "Audialian." A real oddball looking thing. Of interest: it is stamped "Made in 1925 by Audialian Co. with Lee de Forest as President"....

FRANK ATLEE (K2FI) acquired some early rare gear from Joe Mullen's estate including an E.I. condenser in oak box, a Ferron detector and a beautiful Navy type loose coupler. Frank appears to be savying away from BC sets -- although he is still partial to A-K. He was high bidder at the club's auction on an old commercial receiver.

MARSHALL NOVENSTEIN (Lafayette, Ind.) after seeing the rotary spark transmitter at Dearborn, went home and bought a used sewing machine motor and made a rotary spark set -- just like the one he had pre-WWI !

PENNY CONNELL (Bardon, Ky.) sent us some nice color pictures of his gear. Of particular interest was the fact that several sets were actually hooked up to storage batteries and in operation. The one that really got our eye was a Kellogg Wave Master console using 5 tubes. This BC set does not use variable condensers for tuning -- instead, a variable inductance is used in each HF stage !

GEORGE STARRY (Latrobe, Pa.) has been reaching out for some choice stuff of late. Recently received from England: Marconi coherer and holder, Marconi disc condenser (1912), several British books, magazines, etc. You've got a gud contact over there George !

KEN CONRAD (K2XK) is restoring an old de Forest panel set (15 panels). Ken's big problem is finding audio transformers and dials. He found that a 19 x 30" Bake-lite panel costs over $18.00 !!!

JOE PAVIK (W906P) sent a list of new items in his collection but it was misplaced. We do remember, however, a SCR-77 spark set in mint condition and a spherical audion -- so I don't think Joe is doing too bad -- do you?

MIL COMER (Amore, Pa.) now has a ½ KW rotary spark set. The rotary is Model D-95 made by I.F. Company -- ever hear of this firm ! In addition, Mel picked up a W.E. 938A Radiophone/receiver of 1918 vintage complete with dynamotors -- how about that !

BILL LAVERTY is still quite busy buying, selling and swapping. He finds the best "deals" in buying entire collections. This has resulted in some real choice gear for his personal use. Bill is now leaning more toward amateur and commercial equipment than broadcast.

CHARLIE HENRY now has his WWI U.S. Navy W.E. CW-983 transmitter/receiver with dual dynamotors now on display. He is looking for the amplifier, loud speaker and dynamotor switchboard. Charlie also acquired a 501-A receiver without meter and wooden box. Can anyone help him ? (6705 Caldwell Ave., Chicago, Ill, 60646)

RALPH PARRATT (W9UXA) picked up a 30 tube Scott Philharmonic on his return trip from Dearborn. He also located 65 early copies of QST plus a 1916 MESC0 catalog. Proves there's still stuff around !

LAUREN PECHEK does it the hard way. He recently obtained blueprints of an early 6 tube superhet using "Victoreene" coils. After much searching he found all the necessary parts and assembled the receiver and displayed it at the Fall AWA dinner. Of particular interest is the fact that it uses an I.F. of 75 KC. ! Other new sets are Federal 110, Amrad, Tuska 229, etc. making a total of 80 !

JOHN CAPERTON (Louisville) sent us several pictures of his outstanding collection which we will print in a future QST. John has been a real hustler in the past year or two and has come up with some choice ones in Kennedy, de Forest, Grebe plus commercial gear such as Marconi 106 and SE-183 with loading coil !

BILL TRIVELL (Pollock Pines, Calif.) has been unloading choice gear to various members -- and according to the list -- the fellows picked up some real nice equipment. No, Bill is not selling out -- but he has to draw the line somewhere...
JOHN GOLDS (Canal Zone) returned home (Wisconsin) for a short visit and found nearby an Aeriola Sr. complete with a good WD-11 for only $10. You don’t find this sort thing in Central America…. He also added 3 bound volumes of ELECTRICAL EXPERIMENTER (1915, 1916 and 1917) to his already 500 volume radio library. John should return to the States more often.

JOHN STOKES (Auckland, New Zealand) sent the A.W.A. a beautiful color picture of an Australian Radiola Model C-12 made by Amalgamated Wireless Ltd. (A.W.A.) in 1925. It is almost a dead ringer for our Radiola VIII except for an added “stabilizer” control. It proves the close connection A.W.A. and RCA in the old days. For a rare American item, John has a de Forest Model CT-3 Radiophone! How in the world did that ever end up in New Zealand?

“TALE THEOREU” (W8FX) made up two nice replicas: a Grabe CR-2 and a Reinartz Tuner/receiver—the latter is one you almost have to build since they are just not available. Tate is looking for a right angle Macograph key—can you help him?

GERH KRAUSS (Elkhart, Ind.) fell into another A-K Model 10 breadboard making a total now of 5 or 6 of this type… (and we thought they were scarce) George is looking for books written by author A.P. Morgan of which he has several already.

RAY DE VOS (W2TAM) will be leaving the American scene since he is retiring and moving—of all places—Monte Carlo, Monaco. Have a good time Ray and hope you find some rare stuff over there.

FRANK NICHOLS (W3AX) hit the “Jackpot” by adding to his collection an American Marconi OT plus large condenser circa 1906, a ½ KW spark transmitter with Thor type “K” transformer, an IP-500 plus an IP-501 with 2 stage mps, Murdock slide condenser, many crystal detectors, several couplers, etc. WOW!

JOHN DRAKE (New Canaan, Conn.) has some real off-beat receivers in his collection. As an example: One made by the Boston Scale and Machine Co., an E & F Gravlin regen. rx, a Cutting & Washington Type II, etc. We’ll have photos of some of these rcrvs in next OTB.

CORRECTION—In the last OTB we mentioned under Vern Thompson (Collector) that Tykociner designed the Iconoscope. This is obviously incorrect—it being Dr. Eworykin.

BOOK REVIEW

MASON LOOMIS by Tom Appleby (W3AX) is still available at $3.25 postpaid by writing: Loomis Publications P.O. Box 6318 Washington, D.C. 20015

('Info on this book can be found in earlier Bulletins.)

I WAS THERE by Ormond Raby reviewing the Dearborn Conference may appear in the Canadian magazine “ELECTRON”.

100 YEARS OF RADIO in “RADIO-TV EXPERIMENTER” magazine (October-November Issue) A neat concise history of radio starting with Loomis and ending with broadcasting. The author reviews the work of leading scientists, etc. (Tax K2PI)

CONTACT AT SEA by Peter Schroeder, W1PN

This is the book many have been waiting for. Pete did a terrific job in gathering the history of early maritime wireless and then showing the development through to present day techniques used by ship and shore stations. Although the material primarily covers work on 600 meters and above (Note: we say meters) much information is given on radar, loran and H.F. practice used by the commercial operator. The only disappointing feature about the book is the price: $15.00. However, by special arrangement with the publisher, A.W.A. members may purchase the book for $9.95. It is necessary to use the envelope included with this Bulletin. Even $9.95 seems high—but one must realize the conditions under which the book is printed. It is a limited interest technical publication. Have you bought any technical college books recently? The same book as a popular beat sex novel (with a million copies) would most likely sell for around 2 bucks…. Sure, we’re plugging the book but we want to give the facts too...

CQ MAGAZINE is running a series of articles by our old friend Howard Pyle, W7OE with emphasis on the commercial operator. Always good authentic information.

ELECTRONICS DIGEST is a new bi-monthly publication by the Tandy Corp. The well known radio store “Radio Shack” (Boston) is part of Tandy Corporation. The material in the paper is directed toward the teen-ager and novice to stimulate more interest in high school science projects. (Ed. note: Wonderful idea—may eliminate a few “hippies”!) Of special interest are a series of biographies devoted to early pioneers. (Tax Ed Cummings)
Sky telegraph wire is 5 miles long

Collins Radio is testing an antenna with the Air Force which is 28,500 feet long and is reeled out of a plane from a spool. Spool and wire weigh ½ tons! The length reeled out depends on the frequency used which at times is low as 17 kc. The transmitter runs at 20 kw, and sends teletype to other aircraft as well as ground stations. The steel wire is only .15" dia. with copper coating. Some DX antenna! (Prod. Eng. mag., Aug. 28, 1967, p.27)

Tnx Brad Burnham

ANNUAL A.W.A. BOARD MEETING
Nov. 18, 1967

The Annual Meeting was changed from Nov. 11 to 18 and held at the home of Board Member Henry Blodgett, W2UX instead of Jack Armstrong K2AJA. The Meeting was called to order by Pres. Batterson who reviewed AWA activities for the past year. We pointed out that 1967 was one of our best years with large turnout at the Museum and an extremely successful affair at Dearborn. The Secretary reported a large increase in membership which is becoming quite a burden for his office as well as that of the Treasurer. After some discussion, it was agreed to try and limit membership to 500 members--present membership is approximately 470. One means of holding the membership down is to drop immediately anyone not paying their dues. Treasurer Cundall reviewed the club’s finances which are in excellent shape. It was agreed to continue dues at the present level ($2.75) unless printing or mailing costs go up. The club’s policy of having no entrance fee will continue. The main business of the Meeting concerned the Constitution which had been reviewed earlier by the Officers. It was agreed by all present the need to incorporate as soon as possible since the organization was accumulating valuable assets and was operating on a much larger scale than several years ago when founded. Pres. Batterson has an attorney who will handle the matter. Of particular importance was the disposition of equipment in the club’s museum. This matter will be discussed at a future meeting and reported in the Bulletin as well as incorporation changes which will effect the Officer’s status.

GOLDEN JUBILEE CELEBRATION

WA1NBD

WA1NBD 50TH ANNIVERSARY celebration went off “without a hitch”. 8 Admirals attended the shindig with 20 old timers from Naval Radio plus the usual crowd. Charley Ellsworth (WITU) provided much of the material for a ½ hour TV show. An amateur station was in operation for the event with the appropriate call: WA1NBD !!!!

A.W.A. EQUIPMENT -- non-members (and even members) frequently ask if any of the equipment in the club’s museum is for sale or swap. The answer, of course, is NO unless the owner indicated it could be swapped or sold. All items which bear a tag with the owner’s name or call are definitely NOT available as well as about 99% of the non-marked material.

There are, as mentioned, a few exceptions to the rule: Occasionally someone will donate a piece of equipment with the understanding that it can be swapped or even sold (with funds going into A.W.A. Treasurer) if we have a duplicate. An example of this were the 2 pieces auctioned at the recent “meet”. Not included in this “rule” are the countless dials, transformers, coils, etc. These are available FREE on a limited basis to members who are trying to restore an old set. In addition, there are thousands of QST’s between 1930 and 1960 which are FREE for one trying to fill in a few missing issues. All material MUST BE PICKED UP PERSONALLY.

ALEXANDERSON ALTERNATORS -- Bob Cobaugh (W2DTZ) recently picked up an interesting piece of information which may bear some investigation. During a conversation with Arthur Winterbottom (whose father was former RCA VP) he was told that the old Alexanderson alternators used by RCA in the Bolinas, Calif. station were sold to a company in Texas for use in inductive heating certain oil drilling tools....
**LF News From Down Under**

Excerpts from recent letters written to A.W.A. by longwave listener

**NORM BURTON, REVESEY, N.S.W. AUSTRALIA**

---"Bit of excitement last night on 500 when I got into a rescue mission. Small yacht "TAYO" lost it's rudder some 100 miles north of here and radioed for help in the morning. Wean't till evening they found it and I sat in on the final bit where the "BAYBANK" picked up the crew and took the yacht in tow and proceeded on its way. The crew were taken off this morning outside Sidney harbor by one of the police launches. Another ship went aground off the coast of New Ireland in the islands to the north of this continent but all 18 crew and 1 passenger got ashore safely but the ship is being pounded to bits on the reef. Bad wx at sea always has its train of drama and too often, tragedy as well. I have a very soft heart for those who go down to sea in ships..."

---"re DX on lower freq. My favorite band is 500 kc without a doubt and on this I do pretty good with a 6 wire fan array about 30 feet high. Haven't too much space in my garden and hope any weekend now to re-vamp the whole business. I use a vertical for HF. A ¼ wire cage with same down lead is also used on VIF."---"I can't grumble on what comes in on 500. Anything can and from anywhere as is demonstrated by my mate in West Australia. Listening on 500 he has actually heard VRJ in Bermuda and CIA in Havana! West Australia is a real fb spot for DX on any band. I can't complain too much as I often copy KFS on 500 kc. and saturday nite last had a real fb sig from XSG in Shanghai announcing his t/cf list. If I get down to the shack early enuff mornings for about 3 months of the year I can copy the t/cf list from Singapore on 516 kc. Old thing about this is that in our spring he still comes up in 40 minutes after sunrise! --- when it is broad daylight here! Seems to be sort of knife edge stuff and since it's trans-equatorial it could make a nice study for the backroom boys as to why this signal alone comes in from the north. At the same time as this is coming in thru daylight, I'll be hard put to copy BRISBANE RADIO on 500 which is only 600 miles to the north!"

-----"I also listen up to 22,000 meters and usually check my clock with Greenwich Time Signal radiated by Rugby Radio on 16 kc. He's been off for awhile to rebuild when they'll up the power. He had 4½ kw, when closed down.....often copy these very longwavers on a 2 foot by 1 foot loop antenna to improve signal to noise ratio over the open antenna..."

-----"whilst digging into this business locally I unearthed an interesting fact which I'll follow through shortly. It concerns a German ship in harbor here in Sidney on Aug. 3rd, 1914. It suddenly left in a helluva hurry without clearance papers and without completely casting off as it took part of the wharf with it. It was afterwards found out that she had received direct from NAUEN - POE, the warning of the outbreak of war by radio! This fact was confirmed after the war by David Wyles who was talking with the Engineer in Charge of Naune whilst on a visit.......As the receiver would have been in all probability a galena Telefunken receiver Type ET5a, with maybe a

---WIRELESS ROOM: Hamburg Amerika Liner "SS IMPERATOR" 1912

Interior of radio room of a well known German ship typical of the type Norm Burton speaks of. Starting at the lower left corner we see: Control gear, several receivers including a Telefunken ET5a Mk.2 and a Type ET5a Mk.1. The gadget with the circles running around is a "tragbar" portable xmt of Telefunken make used for short haul work and was of 200 watt musical spark. On the far wall is the 7½ kw. musical spark set which worked on 2000-3000 m. and from any location in Atlantic work either shore! The IMPERATOR was taken by the British as WWI reparltions and re-named the BERENGARIA. In the 1920's it was re-fitted with Siemens radio gear although the 7½ kw. TX was retained as late as the early '30a...
microphone amplifier to boost the signal strength, it is not a bad bit of DX ---
even if it were POZ on 20,000 meters or so!! Will find out the name of the ship
and may be able to check on the rig if she had with Debeg in Germany....."

"I also persuaded a real Off here to make a tape putting on record a lot of
stuff about very long wave tests carried out by the Marconi Company and A.W.A.
here in 1917 and on with a view of starting a direct service between England and
Australia. They used fantastic length since they started at 10,000 meters and
worked up! The longest used was 56,000 meters!!!! Final choice was 29,500
later modified to 25,000m. He is an interesting bloke, in possession of all his
faculties and still has a part time job with an associate of A.W.A. I'm hoping
I can get him to make a tape on some of his recollections such as the time when
he was in the Atlantic 200 miles south of the Lusitania when it was torpedoed
and heard her call for help....."

"another incident I was in at occurred last week when I heard ZLB in New Zea-
land repeat an SOS cq ZLB ZLB....Turned out the "CALM" was on fire 45 miles east
of Timaru which is on the east coast of the south island of New Zealand. Needed
assistance and a British and Jap freighter were fairly close to hand --- so after a
bit the Jap was elected volunteer to go to the aid of the ship. The ship itself
was making 10 knots for Timaru and from PX the day after it got there OK and the
local fire brigade put out the fire. Getting altogether too much of this distress
stuff in these waters of late.....not the kind of excitement I like and I'm damned
if I can see anything thrilling in hearing a 'distress call' -- rather the re-
verse --I feel saddened and apprehensive knowing that lives may be lost....."

"Lot of questionable statements from U.S.A. and U.K. re early radio and who was
first, etc. Commonly thought that the most powerful stations in the world were
the Allies...this would appear to be wrong as NAUEN (POZ) started life in 1911 or so
with 25 KW of musical spark. This was soon upped to 100 KW and by 1917 was 400
KW.!! Talked to a bloke here who use to copy NAUEN up in the island of New Guinea.
Our forces captured the German Radio station at Finschhafen and took it over as it
was. He use to copy NAUEN daily on a receiver that was a galena detector backed
up by 3 microphone amplifiers! Mind you, NAUEN used a wave of 12,000 meters or so
but even with the high mast it does make you think a little........similarly, the
New Zealand Government had a listening

post at Awarua and use to copy POZ daily.

"If you'd like a tape of 600 meters with our signals I'd be glad to make you
one and let you see what cooks around here...Big story in paper today about the
"THORSHEIM" having hit an 85 m.p.h.
gale and being blown 160 miles off course, losing her mast and radio antenna, etc.
She didn't get back on the air until Wednesday and who do you think heard her?! .........static is a bugbear here in the
warmer months...the longwaves suffer alot but I beat that by switching to the loop.
There aren't the number of longwave stations here as in the northern hemisphere
between 400 to 50 kc. I'm just outside the service area of many so when I do
hear them it is DX. I hear GZC in Mauritius for about 8 months of the year in the
mornings. Your US Navy station at Port Layauty in Morocco on 56 kc. comes in almost
all the year in the mornings until 2 to 3 hours after sunrise....."

"as far as distress sessions go the incident of the "KAO" wasn't my first. Speaking of the "KAO", the ship that
took the yacht in tow had to drop her owing to rough seas. It was adrift
for some 5 or 6 days but the owner made a search, located it and had a tug take
it into port at a charge of 200 pounds. Weekend of May 29th was grim here. On
Friday a dredge coming up the coast was caught in a gale and went down about 150
miles south of here with a loss of 13 lives. This was in the afternoon so I
didn't hear it. On the Sunday I chipped into a ship calling VIS wid tfe. I then
followed him up to his gte freq to see what he had to say -- something I don't
often do. Mag runs "XXXXXXXX XXXXXXX died from angina attack - stop - inform
next of kin wife -- stop -- body in freezing chamber pending arrival at Newcastle
autopsy and internment - stop - Master." Sort of upset one's afternoon tea !....."

"On Monday nite I get on the air about 745 local on 500 and its dead
quiet except for low level hash which is a damned funny thing as the watch doesn't
end until 8 P.M. I don't have long to wait. Up comes ZLB, Auckland, N.Z. wid
"ANY SHIP NEEDING DISTRESS SIGNALS"!
One answers weakly but I can copy......
"HEARD THEM BUT NOTHING SINCE"...after a
few minutes up comes 12 dashes of 4 secs.
Such to operate auto alarm receivers in ships where op is off duty....and then
after 2 minutes ZLB repeats the SOS pre-
fix DED so as not to cause confusion. It seems the "KAITAWA" called distress on
2182 kc. voice and nothing had been heard since the bearing given was vague.
I stick with it and ZLB asks the ship that heard 'em call distress give them a shout
on 500 which it does to no avail. Silence drops again and we all sit around listening and hoping. After about 2 hours up comes another NZ ship and says she is near the reported spot but hove-to in gale and can't turn around and they have a bearing which they pass. By now it seems the "KAITAKA" was around the notorious Pandora Banks to W. of N. Island of New Zealand. After two hours I reckon the worst has happened and sign off. The day after we learn it had gone down from flotsam seen and no trace of survivors: 26 in all. The tally for the weekend -- 40 souls ------------

"the Court of Inquiry is sitting at the moment about the loss of the dredge off the south coast here in which 13 men were lost. It doesn't make pleasant reading and you wonder just how the damn thing ever got here. It was apparently very hard to steer at anytime and had 2 or 3 alterations in the rudder area. It was also supposed to be watertight when it left on it's last voyage, the hatches, etc. not having been properly watertight. It had been in some strife with the maritime surveyor here -- so all in all you wonder...."

"Most nites I can hear all our own coastal stations which are about 600 mile intervals. The New Zealand stations, 1200 miles away, come in quite easily all night. The islands to the north and east in the Pacific provide some outstanding signals at times. FJP in Noumea is an example. Sava Radio also comes in as well as QSSM. Moving North, it is possible around midnight to hitch onto Singapore with the Chinese stations coming in later as will the Philippines. Going right east to Honolulu whilst KFS "frisco has been heard as early as 9 P.M. local time and his list at 1130 GMT has been heard going DZR Manila and vice versa....."

"The receivers for 500 here are 4 in all. I have a Marconi CR.200 which is a 2 FF- Det. plus sep. het. for beat note plus 2 step audio and overall has the best signal/noise ratio and is just as selective as the other rx's. No. 2 is a Marconi CR.300 -- a superhet with 8 bands (1) tuning 14 kcs. to 25 mega/c/s with no breaks... It has choice of IF on 500, either a low IF like a 05'er or a higher like an ordinary comm. rx. No. 3 is an Australian made super A.W.A. Type No.1-C.6940 tuning 14 kcs to 560 kcs in 2 bands with an IF of 560 kcs. No. 4 is the BO453 operated "as is" from the 24 v. heater and CR.300 power pack...."

"Your new Navy VLF on our northwest cape here with its 1000 kw. is sure some signal! Everyone seems to be getting into this VLF act now as a Japanese just opened up around 40 Kcs with JF/JF2. A couple nites ago I heard a very weak signal on 500 just about sundown signing "VIF"....or at least that is what I copied. If it were "VIF" -- then it is a catch as this is Cocos Island in the Indian Ocean where the "RMSEN" was sunk in 1914....The station has restricted hours...of course if it could have been a Greek ship say "SVIF".....o well....."

73,

Norm

---STARTING TO COLLECT TUBES?

If you've got the "bag" to collect and have limited space, we suggest you start with vacuum tubes. The following list is one for the beginner to shoot for -- just like collecting coins or stamps. This list was compiled in the summer of 1928. The last 3 tubes are the "stinkers" and are not easy to come by. After you have collected these few -- the next step is to collect the earlier versions --- the ones with brass bases such as UV-200, UV-201, UV-199, etc. Then try for off brand names! Happy Hunting!

---RADIOTRONS

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<th>Description</th>
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<tr>
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<td>Detector, Amplifier, Power Amplifier</td>
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<td>Power Amplifier</td>
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<tr>
<td>UX.851</td>
<td>75 Watt Short Wave Transmitter Tube</td>
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1907 DE FOREST ARC RADIOPHONE
owned by Frank Smith, W5YA

This rare arc transmitter, one of the first types to transmit voice, will be on display at the Corpus Christi, Texas Museum. At left is a de Forest RJ-5 detector -- another rare item.

CQ to all The Wireless Pioneers!
Pioneer publisher H.W. Dickow (PACIFIC RADIO NEWS, RADIO magazine, RADIO HANDBOOK, etc.) is writing one more book before he retires -- a book titled:
"TALES OF THE WIRELESS PIONEERS."

He needs material. Pioneer wireless men are urged to write him telling of any unusual experience they may have had. Many early operators are becoming Silent Keys and this book will be a record of events which soon may be forgotten.

Write:
H. W. DICKOW
225 Buckingham Way, Apt. 603
Phone: 966-0475. (Area Code 415)
San Francisco, Calif., 94132

NEW GEAR IN A.W.A. MUSEUM

EARLY TV RECEIVERS: W2TM
TUNES: W21F, W2ETI, Charlie Barker
RECEIVERS: W2EI, W21F

BROADCAST EQUIPMENT: KE15O/W2WW


Geo. Starr, Charles Ketel, Wm. Fly

DEUTSCHE MUSEUM (Munich, Germany) which has been mentioned several times in past bulletins, no longer has a large radio display. In a conversation with Dr. Maurer earlier this year, Thorn Mayes (W6AX) was told the wireless gear was being prepared for a new exhibit which should be ready for display sometime in 1969 or early 1970.

CRYSTAL DETECTORS-COIL TUBING-WIRE-BINDING POSTS-VARIABLE CONDENSERS etc. -- in fact, you name it and chances are they have it. We're referring to the MODERN RADIO LABS -- a supplier for the home constructor who likes to restore or build old time receivers. Their catalog even lists galena and carbon-undum crystals! The catalog, listing all their merchandise, is available for only 10¢. Write to:
Modern Radio Laboratories
12941 Sheridan Lane
Garden Grove, Calif. 92640 - U. S. A.

OAKLAND OT NITZ (Calif.) had a nice exhibit of old gear displayed by AWA member Corwin Henry (K6DX). In addition, historical tapes were played of Lee de Forest and John Reinartz. (Thx W6EEM)

PROGRAM MATERIAL: Now that the 1967 Conference is history (no pun intended) and you've had time to review some of the activity in your mind ---- how about some suggestions for next year ?? Type of programs ?? Subject matter ?? Entertainment ?? This is YOUR club -- so let the officers know what you would like for 1968......

AWA Nets

NEW PHONE SCHEDULE

In order to bring more stations into the weekly phone net, the 12:30 Sunday Noon schedule is being moved to 4:00 P.M., EST. This should make it possible for stations in W-1-2-3 districts to call in. There is also a change in frequency since 3900 KC. appears to be a popular spot. Henceforth, all A.W.A. Phone Nets will be on 3900 KC. -- plus or minus a few kc. depending on QRM. The Winter Monthly Sked will continue on 2nd Wednesday of each month at 8:00 P.M. on 3900 KC. No change in CW Sked...

A.W.A. INFORMAL SCHEDULES

PHONE

Every Sunday -- 4 P.M., E.S.T.
N.C. -- W2AN or W2QY

2nd Wednesday each month, 8 P.M.
N.C. -- W2ICE or W6JW
3890 KC.

CW

FIRST WEDNESDAY each MONTH
8 P.M., E.S.T.
3580 KC.
N.C. -- W2QY or K2NP

20