EARLIEST MOBILE?

John Stokes (Auckland, N.Z.) sends this pix of Marconi's 1901 experimental mobile outfit stating that it preceded de Forest's (OTB Vol.7 No. 2) by three years. Marconi is seen standing at far right. The cylindrical aerial could be lowered to horizontal position when the steam van was in motion. Seated next to Marconi is none other than Ambrose Fleming. Tax to Marconi Co. Ltd. for use of pix.
The Collectors

MEL COMER finally identified the old Audion control unit he purchased last year. It is a Wallace Valve Detector made by Wallace & Co. of N.Y.C. and is shown on page 843 of Nov. 1912 issue of MODERN ELECTRICS. He hooked it to an Arnold coupler (one filament was still good in the Audion) and it worked perfectly on a local BC station!

FRANK PAGANO is still picking up interesting BC sets such as a mint Fried-Blasemann MR-60 console, several good AK's plus a Zenith Super 27 and Zenith 17 -- both classics in their field.

GEORGE STARKEY has been adding real nice spark gear to his collection such as a gap, helix, condenser, etc. Along the BC line he found several Crosley receivers and some early earphones.

MARBELL HOMERSTEEN had a nice 2 page spread in the Lafayette, Ind. JOURNAL-COURIER covering his collection in the local historical museum. The material covers a wide range from early amateur to broadcast. Marshall believes in restoration and has much of the equipment in operation including a beautiful Kennedy with 2 step amplifier as well as an early spark transmitter.

TED WOOLER is being pushed out of his home as he accumulates everything from AK Model 10 breadboards and Federals to early phonographs. His "gem" however is the first receiver he made back in the 20's. Somehow or another, Ted held on to it all these years without throwing it out.

GAYLORD EWIN found an early Silvertone neutrodyne which works perfect. He is one of the youngest members of the organization and is doing a fine job in building up a nice historical collection.

KEN CONRAD has been picking stuff up right and left at auctions and old junk stores. The most recent is an Aeriola Jr. with Murdock phones. He is presently restoring a de Forest Panel set which had several of the panels badly warped. He found by stripping the panel and placing it in an oven at 200 degrees for 15 minutes and then clamping it between 2 flat pieces of plywood he could restore the panel to original flatness.

JACK GRAY sent us an interesting newspaper clipping from the CINCINNATI ENQUIRER in which the author tells of present day interest in antiques, the collecting field, etc. ---- but states there is no interest in collecting old radios !!! You can bet that Jack set the record straight on this one!

HESS HANSEL-MANN sent us a photograph of his mint Adams-Morgan RA-10 with DA-2 det./amp. and 10-R R.F. Unit. In the same photograph was a CRL (Chicago Radio Lab) Paragon Shortwave Receiver (180-600 meters). This is a rare one by the way. Both receivers actually glistered in the photograph. No, they are not for sale.

COME ON FELLOWS ---- WE KNOW YOU ARE COLLECTING EQUIPMENT, BOOKS AND MAGAZINES ---- HOW ABOUT A NOTE NOW AND THEN TELLING US OF YOUR ACTIVITIES ---- LET US KEEP THIS COLUMN ALIVE!

ANTIQUE WIRELESS ASSOCIATION

A.R.R.L. Affiliate

A non-profit amateur organization documenting the history and technology of wireless and the work of its pioneers.

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Club Station - W2JAM

"THE OLD TIMERS BULLETIN"

A news bulletin printed for members of the Antique Wireless Association.

Editor: Bruce Kelley, W2ECR/QCP

Make-up Editor: Larry Triggs, W2YIK

Annual Dues: (including the "Old Timers Bulletin", certificate and other benefits) ---- $2.75 per year payable to Club Treasurer:

Lincoln Cundall, W2YIK
69 Boulevard Parkway
Rochester, N.Y. (14612)

Address all correspondence concerning Bulletin to: Bruce Kelley, Main Street, Holcomb, N.Y. (14469)
MORE ON LONGWAVE ACTIVITY

The following was received from Bill Gould (June 3, 1967) as a supplement to his article on longwave reception in the last Bulletin:

CIQ is Havana, Cuba.
Portsmouth, Virginia should be NMO.
Art Goodnow, W1DM, reports hearing TXU at St. Pierre. He also points out that NSE and NDK are perhaps in error possibly due to some operator sending with his left foot.

Bill Gould, K2MP, heard the following additional stations on the night of 17 March, 1967: KLB Seattle, NTK Argentina, (New Foundland), NMC San Francisco, LPD General Pancheco (Argentina) and VCG Fox River (Quebec).

Ken Gardner, W2BGN, writes that the ITU publications are available at the UN Bookstores in New York City.

PORECEAIN CLEATS -- anyone have about six of these old-fashion electrical wiring insulators? We need a few in order to setup the new station layout at the A.W.A. Museum for W2AN.

ZENITH MODEL "17"

This beautiful antique console was recently added to Frank Pagano's collection. Built in 1926, it uses (6) 201-A's in series and 4 BH rectifiers in the power supply. The meter at the far left still works!
On Review

A GUIDE TO VLF LISTENING by KE2BS
rates $1 for our money. Printed by a little known publication titled RADIO-TV EXPERIMENTER magazine, it gives a brief history of longwave activity plus a lengthy list of worldwide stations operating between 13.6 and 27.0 kc. In addition, the author comments on various receivers available for longwave reception and pictures some of the super power VLF stations. The same magazine (April/May issue) also has an article on constructing a simple longwave receiver. (Brad Burnham)

LIGHTNING, PLASMA and BALLS of FIRE by Allen Smith is an interesting article in the April issue of RADIO-ELECTRONICS. Although the subject is not exactly historical, it makes fascinating reading -- particularly since the author appears to be well informed. Briefly, among other things, it opens for conjecture that many UFO's fall into this category. The same issue also carried an article titled "Television's 40th Birthday" (1927-67) which should be of value to the television historian since the writer goes into considerable detail on early television experiments and broadcasts. Our only criticism was that it appeared to be too much Bell Telephone Lab with little mention of other pioneers.

CONGRAT​S TO QST and WIAMA for the excellent series of pictures in QST showing historical gear at A.R.R.L. Museum. Rolan's choice of material has proven of interest from novice to old timer. The A.R.R.L. Museum has one unique feature: there are hardly any two items alike!

EDISON - THE FABULOUS CROOK by J.L. Elkhorne in March, "73" magazine. This magazine usually prints good historical material but fell short on this one. Maybe we felt a little sour when we read the article but we got the impression the author didn't think too much of Edison as an inventor -- in fact, that is about all we got out of the article. Sure, we agree that Edison had many shortcomings, narrow minded, etc., -- in fact, few pioneers are perfect in the inventive field -- but we feel unless you're going to write a complete story on the subject in a popular magazine with pro's and con's -- you're better off by not writing anything at all!

RADIO SPECTRUM BELOW 550 KHz. is another article on VLF. This one appeared in the March issue of IEEE SPECTRUM. With all this interest in longwaves, there should be a ready market for honeycomb coils!

MODERN MATURITY is the name of a magazine published for the National Association of Retired Persons. The April/May issue carried the life story of David Sarnoff and a writeup on the origin of the word "ham" as applied to the radio amateur. A well printed magazine with excellent photographs, it is sent free to N.A.R.P. members. Membership is only $2 per year. (Tnx K2PI)

MAHLON LOCKE, INVENTOR of RADIO is a new book just released. We haven't read it yet but understand it is well worth the price --- is good reading with a new "twist" to this historical radio hobby we all enjoy. It contains 145 pages plus a complete index of 19 pages. (W2IE)

Czech Stamp Honors Major E.H. Armstrong

John Hunton, WILNQ, called our attention to the issuance of a postage stamp by the Czechoslovakian Government honoring Maj. Armstrong. The stamp, which contains a picture of Armstrong, also shows a schematic of his super regenerative receiver and the antenna from Armstrong's original laboratory.

It is ironical that one of the world's greatest radio inventors, an American, should have to be first recognized by a foreign country.......

WHERE ARE THEY NOW?

LAWRENCE M. COCKADAY, fame engineer of yesterday, retired from Westminster in 1965 and now lives in Maryland. A long career, he taught physics, electrical engineering and electronics at college level as well as one time manager of the "Cockaday Engineering Co." of which he was President. The amateur and early EC constructor remembers his many technical articles and circuit designs.

(Geo. Starry)

GLENN BROWNING -- another well known name to the radio historian lives in Maine. We associate Glenn, of course, with the famous Browning-Drake receiver of the 20's.
Floyd Lyons (San Francisco) is seen admiring a de Forest spherical audion which is part of John Stokes (Auckland, N.Z.) large tube collection. We can't identify the unit John is holding other than the honeycomb coil. See p. 5, Vol. 7, No. 4 of the OTB for more info on Floyd's visit. (Photo credit: Auckland Star)

50TH ANNIVERSARY (1907-1967) for radio facilities at Winter Harbor/NBD will take place this summer according to Charles Ellsworth. A Naval event, many veterans of famous NBD will be present as well as top brass from Washington.

RADIO 8AQO -- at Cazenovia, N.Y., a fabulous amateur station of the 1920's is a subject Al Marcy, W4ID is working on. Having been associated with the owner and worked at the station, Al is well qualified to tell its history.

NEED BADLY -- a good QRS 400 mm. gas rectifier tube in order to restore my Zenith Special ZK-5 authentically. Will swap material. Frank Pagano, 1835 West 7th St., Brooklyn, N.Y., 11223

FOR SALE: Private collection of pre-1922 receivers, books and catalogs. Send SASE for list. Paul Pernazone, 723 Grand Ave., North Bergen, N.J., 07047


WANT to rebuild your 1912 loose-coupler! Mother's Cat cartons are still available and W&F will send you an ancient W.E. switch plus 10 points and 2 stops for 50¢ which just about covers handling cost and postage. ADX in cl bk.

SOLD or TRADE: Federal Jr. crystal set, Federal 41, Federal 102, Burnerphone, Audion tubes and Telefunken EVE-173 tube. Need Federal, Grebe and early spark wireless items. Harry Cap, 190 Beach St., Bridgewater, Mass., 02324

PAY TOP PRICE for Marconi, Grebe, WSA and de Forest equipment. Will trade rare tubes such as de Forest spherical audions, Fleming valves, etc. Phil Weingarten, 67-61 Alderton St., Forest Hills, N.Y., 11374

WANTED: Will swap other tubes or pay cash for 286 (triple grid), UX-221 or RCA-221, 230 and 231 with T9 tubular bulb. John Stokes, 315 Dominion Rd., Auckland, New Zealand

NEED wiring diagram for Zenith B-3 receiver. Certain parts have been removed and I would like to restore it. Chris Reimuller, W2-GER, 9509 Oak Glen Rd., Cherry Valley, California, 92223

WILL PAY and reasonable price for an Audion Control Box for a SE-143 receiver. Dave Hunt, 4631 Mayfield Road, Fremont, Calif. 94536

FOR SALE: Moorhead tubes in original Marconi Wireless Telegraph Co. cartons. Max Ortelt, W1BHK, N6D #3, Box 204, Rehoboth, Mass., 02769

WANTED: Three metal shell panel mounting FADA sockets or preferably one FADA triple socket. Also three FADA filament rheostats. Al Marcw, W4ID, 461 Third Ave., Sea Park, New Gallis, Florida, 32935

TRADE ham radio gear for antique radio and wireless equipment. Paul Giganti, W6GTV, 2469 San Carlos Ave., San Carlos, California


SWAP up to twelve early BC sets or buy for cash -- an IP-501 or IP-501A in working condition or inoperative but complete. Want same for longwave listening. Henry Wenden, KB1DO, Box 327, Worthington, Ohio, 43085

WANT: 'Camfield Super-Selective Ten', either 6 or 10 tube version for engineering test. Set described in Citizens Call Book Magazine, Nov., 1927 on page 197. The HUBCO components used in this amplifier will be acceptable if available separately. Terms: Gift, loan or reasonable purchase. Grote Reber, c/o Research Corporation, 228 North LaSalle St., Chicago, Ill. 60601

FOR SALE -- Antique broadcast receivers including RCA "28" with 104 speaker, Radiola "30" super-het, Zenith Super VII, Robertson-Davis 1½ tube super-het, Victor Radiola 7-3 combination plus many others. Send SASE stating wants. Will sell cheap. Howard Bergstrom, 1313 South 51 St., Omaha, Neb., 68106

SOLD or SWAP large variety or broadcast, amateur and commercial equipment. State your wants. Send SASE to Bill Laverty, 118 North Wycombe, Lansdowne, Penna.

*** OLD TIME ADS ***

I.B.E.E., HISTORICAL COMMITTEE adds Ralph Batchel to serve along with Har­man Pratt, Llyod Zepeschick, Morris Hoover and Ivan Coggeshall. Ralph's job will be primarily to keep the horde of historical items together and prevent them from being thrown away.
One of the many historical receivers to be seen at the Ford Science Museum.

PROF. HENRY WEenden, K8KXO, ADMIRING THE RECIIVER FROM THE OLD "RS LEVIATHAN"

NEW ENGLAND A.R.R.L. CONVENTION

We can't report all conventions but the recent one held at Swampscott (Boston) deserves comment. Our club provided a very interesting historical exhibit mostly through the efforts of Bob Merrim who brought up a station wagon loaded with gear from his New England Wireless Museum. The big eye-catcher (or should I say "noise-attractor") was a 1 KW, non-sink rotary spark set formerly owned by Dick Smith. Altogether, we had over 30 feet of table space covered with everything from loosecouplers to an Atwater-Kent broadsheet with Magnavox loud speaker. Ten large radio advertisements of yesteryear were hung in the rear as backdrop. Several thousand visitors passed by and admired the exhibit manned by Bob and Nancy Merriam, Kelley and Cundall.

New England lived up to its reputation for having lotsa old timers -- in fact, one could hardly keep track of all the two letter calls that put in appearance at the booth or over near the O.O.T.C. and QCWA booths. One of the highlights of the affair, at least for us, was an opportunity to talk with Bunice, W1MP, SPARK GAP TIMES Editor. A wonderful warm personality. The OOTC are fortunate to have Bunice working for them. I also had a nice chat with my old friend W2JE (QCWA Secretary). Gus has been rather busy "traveling East" and is currently going through the "chairs".

The A.W.A. show "THE GOLDEN TWENTIES" received an exceptionally warm response including standing applause and whistles! Guess the "gang" like a old time radio entertainment thrown into the program in addition to the usual run of technical talks. Speaking of entertainment -- the Saturday evening floor show alone was worth the price of admission. The Convention Committee really did a nice job on this one.

 cu nxt yr, 73 -- W2ICE

WOW

We recently received through the mail one of those antique "BUY-SELL-TRADE" publications which are loaded with ads. This one was published in New England and carried a "FOR SALE" --- a 4 tube receiver, which according to the owner, was really rare because according to the nameplate it could have been made in either 1908 or 1909 (Patent dates). To further impress the prospective buyer, this valuable antique was equipped with (4) 201-A GOLD SEAL TUBES! Price: $300.00

CHALLENGE --- "Brad" Burnham finds a real challenge in building up a "receive list" of Air/Navigatio stations coming in on longwaves. Those of you who have tuned in on beacon stations and others can well appreciate the problem since many of the stations operate almost on top of one another (or so it would appear) and frequently all they give are coded identification such as:

UL -- (248 kc.) Montreal
NB -- (530 kc.) North Bay
AKR-- (366 kc.) Akron, etc.

Those on voice (weather) are not too bad but DX is really limited. Brad has an impressive list to date but few new ones will be added from now on until fall because of the summer QRN.
Mr. Bruce Kelley  
Curator  
Antique Wireless Association  
4 Main Street  
Holcomb, New York

April 13, 1967

Dear Sir,

We should like to extend our personal appreciation to you and your colleagues of the Antique Wireless Association for your contribution to the "Man In Control" film in our "Man the Producer" Pavilion. It is a most interesting and informative part of the exhibit.

Mr. James Beveridge informed us of your proposed visit to Expo on the July 4th weekend. We would be very pleased to receive you and your associates and to make arrangements for your visit to our Theme exhibits. Kindly send us details of your schedule.

We will look forward to receiving your reply shortly, and remain,

Yours very truly,

Guy Dozois  
Director of Theme Branch

TESLA: We planned to print a picture in this issue of Tesla's famous tower out on Long Island -- but letters from Lloyd Esbenbach and Leland Anderson prompted us to hold off and go further with a more detail writeup in a later bulletin. In fact, we are looking for someone to volunteer to give a talk on Tesla at the National Meet.

SILENT KEYS

WALTER LEMON (71) at Old Greenwich, Conn. Pioneer radio engineer, inventor and international broadcaster. His patents include one on a single dial tuner, radio operated typewriter, etc. (The K3CUI)

GEN. BENJAMIN FOULOIS (87) Apr 26 in Washington, D.C. Foulois was an aviation pioneer and along with Elmo Pickerill, one of the first to test the use of radio in flight. (Tnx W3KOU)

MAKING HEADLINES: Frank Atlee, K2PI, received a real nice spread covering several pages in the Apr. 20 edition of the Philadelphia "EVENING BULLETIN" covering his collection. This makes 4 amateur collectors who received newspaper copy within the past 6 months!
A.W.A. SPRING MEETING

60 members and wives attended the club's first meet of the year and thoroughly enjoyed a diversified program. Following a delicious smorgasbord, Vice President Brelsford (K2WW) started the ball rolling in the absence of Pres. Batterston. Ralph Yeandle, former WGY Engineer from General Electric, briefly reviewed the development of exciter units with crystal ovens in high power broadcast stations. He used as an illustration an early unit recently received from Al Stewart, W8DHP which at one time was used at WTAG, Cleveland.

Link Cundall followed with his two latest restorations: an early Navy loose coupler and a 1914 Clapp-Eastham receiver using 2 separate crystal detectors. Every screw and binding post had been removed, all components re-finished or buffed and re-assembled! Anxiously standing by was Brelsford who took over and demonstrated the operation of his early 10 tube Nordeneauk super using 9 201-As and a single 112-A into a horn speaker. The group were thrilled when K2WW tuned in New York City 350 miles away with only a 20 foot antenna!

The "gang" then sat entranced for 50 minutes as they pre-viewed a new A.W.A. show in the making covering the Golden Era of Broadcasting. In conjunction with the show was a "guessing game" won by old time broadcaster Eddie Dunn and xyl-W2BKW. The evening was climaxd when a white horse came in at 11:15 P.M. and had two beers....

INFORMATION WANTED

J.O. Smith, 22L, who lived in Babylon and Valley Stream, Long Island. Any info whatsoever about this early pioneer appreciated. Write Kelley, Holcomb, N.Y.

WAYNE M. NELSON, W4AA

The photographs on the next two pages represent an example of a well planned amateur museum since there are few "duplicates" and it would appear the owner concentrated on "historical" or significant pieces instead of whatever came his way. Not shown is another large area of commercial and amateur transmitting equipment. We might add these photos may serve as a reference for future identification when corresponding with another collector. When mentioning a certain receiver -- refer to the photo and location such as the Pilot Super Wasp on the 5th shelf center, etc.

A.W.A. MEET IN CALIFORNIA

Dick Craft (Whittier, Calif.) and others on the West Coast have indicated an interest in having an A.W.A. Collectors Meet in California sometime. Fine idea. Write A.W.A. Secretary and if enough interest is shown PLUS someone to volunteer to help organize it -- a notice will be printed in the Bulletin with details.

SPARK STATION IN EAST OTH (p.9) aroused considerable comment as an excellent example of a pre-WWI setup -- however, there was one mistake -- wrong info funneled in and we had the owner's name incorrect. Thanks to Harry Lord (W5JH) and acknowledged by Lute, W3K~ -- the correct owner was identified as John Lippert, ole 8B E of East Cleveland, Ohio.

While on the subject of photos ----- please mark on the back of each picture general info or title, owner's name, date, etc. Do NOT use a ball point pen or press hard since it may work through and show up when copying.

POPOP'S PRIVACY in the invention of radio will be reviewed in an issue of TECHNOLOGY AND CULTURE, a journal for Case Institute, Cleveland, Ohio. Should prove interesting for the dye-in-the-wool historian. (K3CUI)
IN BACKYARD -- Chet, K2OPC, dropped in the office a little while back and said he saw an odd looking key in an antique junk shop over the weekend. It had a windup spring motor and quite different than anything he had ever seen. We tipped W4QY off on the location and a little later he drives into Holcomb and proudly showed us a metal box. Removing the cover we saw a rare "HULLIT" semi-automatic mechanical key made in Topeka, Kansas with patent date of Nov. 9, 1909. It has two paddles -- the dot side working automatically through the spring wound motor. How in the world this "gem" ever landed in an old shop only 6 miles from Holcomb we'll never know......

WITH THIS BULLETIN ------- you will find a brochure describing the HENRY FORD MUSEUM and GREENFIELD VILLAGE. More information concerning the site for the 1967 NATIONAL HISTORICAL RADIO CONFERENCE will be in the next Bulletin. We might add for those who plan to arrive early --- plan a trip through the Rouge Plant and see an automobile come off the production line every 55 seconds !!
TUBES ANTIQUATED ?? Some members have commented that tubes are "coming back" and many new pieces of equipment are being designed with tubes instead of transistors. A more correct analysis of the situation would be to say that tubes "never went!" Accurate figures are not available on the number of tubes manufactured today -- then in all fairness there is a factor which looses up the count vs. transistors -- the use of multi-function compactrons which replace several and lowers the tube count of the past. Suffice to say, tubes are playing a big part in new color TV sets plus a multitude of uses in industry, microwave work, etc. Predictions are that over 400 million will be made this year ---- who says tubes are antiquated ?

STROMBERG-CARLSON article brought an interesting letter from Russ Worthy. Russ calls to our attention that we neglected to mention Raymond Manson, the guiding star behind the many fine receivers manufactured by S-C. On several occasions he has compared the quality of pre-war S-C receivers and found them equal in some incidents to present hi-fi sets.

A.W.A. CW NET
3500 KC. 8 P.M. E.D.S.T.
1st Wednesday each month
This net continues through the summer with W2QY, N and K2NP alternate. The last 2 check-ins are not available but we did find the one for April:
W2ARK - W4NY
W2ZI - W8PO
K2PI - K2NP
W2IOG - W42M
W42M - W8QY

LEON THEREMIN -- remember this name 35 years ago ? He was the fellow who developed an electronic musical instrument which was quite revolutionary at the time. Even Atwater Kent showed some interest in it. Suddenly he disappeared in the late 30's and nothing more was heard of him.

BUT -- he is very much alive according to a recent article in the NEW YORK TIMES. Theremin is a spry, voluble man of 71, and is Professor of Acoustics at the Moscow Conservatory having returned to U.S.S.R., his homeland, just before WWII !! (Tks...Jose Garcia)
In April of 1911, the British Marconi Company began the publication of THE MARCONIGRAPH which was a magazine intended for the public, but containing some material of a "house organ" nature. This continued until March, 1913, when the name was changed to the WIRELESS WORLD.

The American equivalent of this magazine, called the AMERICAN MARCONIGRAPH, appeared in September, 1912. It was published by the Marconi Publishing Company at 456 Fourth Ave., New York City and was edited by J. Andrew White. It was 6 1/2" wide and 9 3/4" high and each issue contained 100 pages. The price in the United States was $1.00 per year. Its contents were in general of the same nature as those of its contemporary in England.

The MARCONIGRAPH is not to be confused with the MARCONIGRAM issued by Monroe and Monroe of New York in connection with selling stock in the various Marconi companies. This magazine was published around 1909.

The MARCONIGRAPH continued publication in New York until the issue of August, 1913. In September of 1913 it became the WIRELESS AGE with J. Andrew White as Editor and published by the Marconi Publishing Co. with same address as above in New York City. The price: $1.50 per year. Its size was now 6 3/4" wide by 9 3/4" high with the first issue containing 48 pages. Its cover was symbolic representation of Neptune and the Spirit of Radio engaged in watching a message being sent from a shore station to a ship. The contents of the new magazine were much broader than its predecessor, and in fact, it became almost entirely a magazine of wireless for the public and retained little of its Marconi house organ nature.

In July, 1916, the cover was changed with pictures of prominent wireless men or stations appearing in place of the symbolic scene. The magazine by this time had enlarged to 82 pages. Editorship and place of publication remained the same.

In January, 1917, the magazine was issued by Wireless Press, Inc., 42 Broad Street, New York City with J. Andrew White still remaining as Editor. In the next issue (February) the price was advanced to $2.00 per year, the number of pages remaining at 82. In December of the same year, the Wireless moved to 25 Elm Street.

On January, 1918, a simpler cover was adopted, a list of the more prominent articles of each issue appearing on the cover in a box. In June, however, the magazine reverted to more elaborate cover designs and colored pictures of general radio interest being now featured.

Sometime after September, 1918, and on or before February, 1919, the WIRELESS AGE adopted a much larger form, the page being now 9" wide x 12 1/4" high. The cover still featured a large color picture of general wireless interest. The format started with 48 pages with same editor and address. Elmer E. Bucher was now Technical Editor.

In June, 1919, the Wireless Press moved to 233 Broadway and on November or December, 1919 to 64 Broad Street. On or before June, 1920, they made their final move to 326 Broadway, New York City.

In November or December, 1920, the price was increased to $2.50 per annum. The magazine now contained 48 pages per issue. By May, 1922, the magazine had enlarged greatly. It had gone up to 108 pages and contained such features as rotagravures of broadcasting stars and pages of radio humor of the day. This size dropped to 96 pages by April, 1923. J. Andrew White remained Editor until the end of 1923 although he did not carry on any actual work for the last three
months of the year. In November of 1923
the magazine carried the names of Major
Jerome W. Howe as Editor and C.S. Anderson
as Associate Editor. Mr. Anderson
had served in that same capacity under
J.A. White since about 1917. The issue
now contained 96 pages.

On August, 1924, C.S. Anderson became
Managing Editor with W.A. Hurst as Associate
Editor. In June, 1925, Mr. Anderson's
name appears alone as Managing Editor.

The final issue of the magazine was in
August, 1925. RADIO BROADCAST magazine
was given the right to include the name
WIRELESS AGE in its title for six months.
In April, 1926, the title WIRELESS AGE,
reverted to the RCA house organ, supplanting
the name WORLD WIDE WIRELESS immediately preceding it. With the August, 1925
issue, the RCA publication of a radio
magazine of general popular appeal ceased.

We now retrace our steps to 1914 when
the idea of a purely service magazine,
or house organ, for the employees of
the Marconi Telegraph Company took form.
This appeared at first on the Pacific
Coast under the name of MARCONI SERVICE
MAGAZINE, the first issue being March,
1914. It was published "in the interests
of all employees of the Marconi Wireless Telegraph Company of America,
Pacific Coast Division." and printed
by the Marconi Publishing Co. of the

Pacific Coast, 414 Merchants Exchange
Building, San Francisco. A.H. Ginman
was Editor and L. Malarin circulation
manager. Its cost was $1.00 per year
and each issue contained 12 pages with
a size of 5 7/8" by 8."

The December, 1915 was the last of
this magazine. "With this we lay down
our pen to take it up again in collaboration with our co-workers in the
East since Management has decided to
increase the scope of our service magazine
to include all divisions. Hence, our
next number will be issued by the
New York Office."

The name was changed to MARCONI SER-
VICE NEWS in the new issue of January,
1916 with J. Andrew White as Editor,
he being at the time also editor of
WIRELESS AGE. It was published at 233
Broadway. The issue contained 16 pages
and was 6" x 8½" high.

In January, 1917, E.B. Pillsbury be-
came Editor. The front cover was bright-ened up a bit with the name of the magazine in red and the symbol of the Marconi
Company printed on the back.

Beginning January, 1918, the front
cover began to show pictures of radio
masts and stations. The Marconi emblem
on the back cover gave way to a list
of books on wireless. The issue now
ran 24 pages.

Letterhead of the old National Amateur Wireless Association which used
WIRELESS AGE magazine as their official publication. Note the dignitaries listed as "National Advisory Board of Vice Presidents" !!! In fact, note the President !

Was the A.B.R.L. survived this impressive competition ??

ANDREW WHITE, ACTING PRESIDENT
GUGLIELMO MARCONI, PRESIDENT
HARRY L. WELKER, SECRETARY

National Amateur Wireless Association
FOUNDED TO PROMOTE THE BEST INTERESTS OF RADIO COMMUNICATION AMONG WIRELESS AMATEURS IN AMERICA

NATIONAL ADVISORY BOARD OF VICE PRESIDENTS

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E. E. BUCHER
INSTRUCTION ENGINEER
WILLIAM H. KIRWIN
CHIEF OF RELAY COMMUNICATIONS

AN OT STATION was in operation at the
Ford Science Museum during the recent
Old Timers Nite. The equipment was laid
out and provided at one station by Tate
(4SFX) and consisted of a Millen 'strip
transmitter using a 616 xtal into an
807 with an old HRG as rx. Using the
call W8MRM, it remained in operation for
24 hours and was appropriately located in
the Smith Creek Telegraph Station
circa Civil War period.

ZENITH RESTORATION -- George Starry
sent us some "before" and "after"
photos of an old CRL receiver he sold
to an executive of the present Zenith
Radio Corp. We'll vouch for the poor
condition of the original with missing
dials, cracked panel, etc. The
restoration job is fantastic according
to the color print -- looks just like
new ! (and I bet it cost a pretty penny........)

- 13 -
Several members have at one time or another asked “What was tops in an early broadcast receiver?” It is not an easy question to answer since it covers quite a field. Are we talking quality reproduction? DX selectivity and sensitivity? Workmanship or price? To get things rolling, we would like to throw the 1928 ZENITH in the “ring.” A top name then as now, they manufactured a receiver that was hard to beat. Assuming inflation has doubled prices —— how would you like to purchase the Spanish Model ($2500) for $5000?

**ZENITH ELECTRIC DELUXE MODELS**

(Including Rectifying Tubes all Deluxe Models use 11 Tubes)

The only regularly manufactured receiver functioning successfully without lop or antenna. The only set with six gang condensers on one shaft. Therefore the unusual selectivity. These condensers are the most accurate to be found in any radio set. The only regularly manufactured set with a wave range of 50 to 580 meters. Employ complete double shielding. Illuminated dial. Single control. All Deluxe models are equipped with the latest development in the Dynamic cone speaker. Our engineers have accomplished the remarkable feat of electrifying the 10 tube set. The Deluxe receivers are built to operate an alternating current 110 volt, 60 cycles, using AC tubes.

Colonial Model, conveys a patriotic cleanness to the days of its historic period. This design creates a background for those who peruse in search for a true record of culture and refinement in the home. Price (less tubes)

- **$650**
- **Colonial**

The English Model in the chart, secure lines known to this particular class of exclusive furniture exudes the spirit of the present day in the application of simple moldings and a few curved lines, which have a historical background. Price (less tubes)

- **$800**
- **English**

The Chinese Model, a receiver of great beauty and antenna, the effect of which can only be realized when skillfully disposed among other decorative styles. Custom built—60 days delivery. Price (less tubes)

- **$1250**
- **Chinese**

The English Model in the chart, secure lines known to this particular class of exclusive furniture exudes the spirit of the present day in the application of simple moldings and a few curved lines, which have a historical background. Price (less tubes)

- **$1700**
- **Colonial**

The Chinese Model, a receiver of great beauty and antenna, the effect of which can only be realized when skillfully disposed among other decorative styles. Custom built—60 days delivery. Price (less tubes)

- **$2500**
- **Chinese**

**OLD TIME TRANSMITTER** of high power crystal control single tube type will be on the air occasionally this summer at W2AN. This rather interesting unit was received from Peter Boros and has a tricky socket arrangement whereby one can use either standard UX base tubes (UX-201A, UX-210, etc.) or 50 watt socket for a 203A or 211. By using an adapter in the UX socket one can also try out a low power 199! Several crystals are available including AWA Net freq. of 3580 kc.

**CODE SPEED** for General Class Amateur License changed from 10 to 13 words per minute in January, 1936. (Rule 404A and Rule 407)

**RADIOLA SUPER-KEN** with catacombs really performs for Ken Conrad. Although some have commented that the original 199 tube complement isn’t so hot — Ken finds his Radiola “29” suitcase model drags in Ft. Worth, Texas loudspeaker volume with the loop antenna only 5 feet above ground!

**TITANIC** —- Thorn Hayes (WGAX) has been corresponding with the Marconi Historian in England and expects to visit him about the time you read this bulletin. The interest among historians and old time wireless operators warrant further programming at the National Conference on this tragic event 55 years ago.
The Antique Wireless Association
HISTORICAL
CONVENTION

1967 SEPTEMBER 1967
SUN MON TUE WED THUR FRI SAT
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

FORD SCIENCE MUSEUM ---- DEARBORN, MICHIGAN

PROGRAM HIGHLIGHTS

Illustrated Reports:

Prof. Reginald Fessenden
Bob Merriam, W1NTE (Rhode Island)

Unusual Communication Receivers
Ed Raser, W2ZI (New Jersey)

The Leitz Receiver
Wayne Nelson, W4AA (North Carolina)

Identification of Rare Teletype Instruments
Lou Moreau, WD6BHO/W3WHE (California)

The Crosley Receiver
Jack Gray, W8JDV (Ohio)

Miscellaneous Programming:

Demonstration of 1904 Telefunken Equipment
Link Cundall, W2QY (New York)

Replica of Signals Between Titanic and Carpathia
Thorn Mayes, W6AX (California)

Rare Movie: The End of an Era showing famous longwave stations -- Tuckerton, Bayville, New Brunswick, Marion and Rocky Point plus the falling of Brant Rock Tower.

Special Guided Tours through one of the world's largest Science Museums.

Informal Q.O.T.C. "Get-To-Gather"

Swapping Session -- buy and sell old receivers, tubes, parts, magazines and books.......

PLUS PLUS MUCH MORE... SEE NEXT BULLETIN FOR FULL DETAILS!
Wives accompanying their husbands to the Annual Historical Conference can spend countless hours admiring rare antique furniture, glass, textiles, timepieces, etc. in the 22 Early American Shops.
A partial view of one of the largest STEAM ENGINE COLLECTIONS in the world at the Ford Museum. In addition, there are over 200 beautiful antique automobiles including Barney Oldfield's famous racer "999"!
NEW GEAR IN A.W.A. MUSEUM

Receivers: W1AEB
Transmitters: W4HII, Rensselaer Poly Institute
Tubes: F9JI, F9RH, W2UTH, W4HII
W2FMX
Wavemeter: W1MV
Miscellaneous: W1AEB, W2FMX, R. P. I.
Broadcast gear: W8DHF
Catalogs and books: W1MV, W8HR
Radio Game: Gene Kerns

BEDDED CO-AXIAL CABLE: Remember this type of feed-line made by Amphenol back in the 1930's? Grote Reber is looking for some -- any length will do and he will pay cash for same. Can you help him out?

Grote Reber, Research Corporation
228 North LaSalle Street
Chicago, Illinois, 60601

SEQUENCE IN TV DOCUMENTARY was filmed at Jack Gray's Museum recently. The film concerned the DC-3 plane that killed Knute Rockne, fame Notre Dame football coach in 1931. The need for authentic broadcast equipment for background was required -- and W8JDV's museum was a perfect setup for the cameras!

S.F.B. MORSE BIRTHDAY DINNERs (April 22)

proved to be the usual rousing success around the country with many reports coming in from A.W.A. members who attended their local M.T.C. Chapter. The gang down in New Jersey had added entertainment when Edison's original film "THE GREAT TRAIN ROBBERY" was shown.

RECENT A.W.A. ACTIVITIES

OLD TIMERS NITE: Dearborn, Michigan (May) provided an opportunity to lay the groundwork for the coming National Historical Radio Conference and at the same time gave the Michigan group a chance to see the "GOLDEN TWENTIES".

WESTERN NEW YORK HAMFEST: at Rochester, N.Y. (May) brought the usual crowd to see the club's museum with our old friend Bob Roy, W9HR (SQT Publisher) being one of the first to show up. Although the local gang (W2BGN, W2ICE, W2IIE and W2Q1) worked hard trying to finish a new wing to the museum, it was not open in time for the event.

FIRST USE OF WORD "RADIO" - see page 793 of Radio-Craft magazine, Sept. 1945 issue for Don McNicol's version. (Geo. Publow)

A.W.A. HISTORICAL DISPLAY AT A.R.R.L. NEW ENGLAND CONVENTION

1. to r.: Nancy and Bob Merriam (W1IIE), Kelley (W2ICE) and Hal Voorhis

ANTIQUE WIRELESS ASSOC.

THE NEW ENGLAND WIRELESS MUSEUM
EAST GREENWICH, RHODE ISLAND
Tropical Radio Co.

By the middle of this summer the Tropical Radio Telegraph Company will have 10 new ultra-modern 5W SSB transmitters in operation. Two will be in the U.S. with the remainder in Honduras, Panama and Nicaragua. This company has long been a pioneer in Communication and always using the latest equipment. Perhaps we should give a little background on TTT for the new comer.

Tropical Radio is a subsidiary of the United Fruit Company whose business is in Central America. It was quite a trick in the old days to know when to harvest the bananas, take them to port and then ship to U.S.A. The time sked for having the bananas at the port, shipping, etc. had to be very accurate or otherwise you would have a waiting ship or a lotta rotten bananas!

The company recognized the value of wireless for scheduling as early as 1904 when they setup their first spark station. In 1907 they switched to a Fessenden 25 KW. 500 cycle sink rotary and had complete vacuum operation by 1925. All boats as well as main ports were equipped with wireless equipment. It was a goal for many an old time operator to work for United Fruit since their facilities and equipment were the best. A main supplier in the early days was Wireless Speciality Apparatus Co.

For various reasons including the fact they were also handling commercial traffic other than their own, the radio end of the company was setup as a separate company in 1913 under the name of Tropical Radio Tele. Co. They started to use shortwave in 1928 and by 1933 had a two way radio telephone circuit between Central America and U.S.A.

Still pioneering, they introduced an independent sideband transmitter in 1941. By 1945 all telegraph operation had been phased out being replaced by radio teletype and frequency shift keying.

Several A.W.A. members worked for this company stationed either at a land base or aboard ship. More detail information on U.F. Co. or T.R.T. can be found in issue of old RADIO BROADCAST magazine and a more recent one -- the April, 1967, issue of COMMUNICATION NEWS.

BT TUBES? Frank Pagano tells us that one can occasionally find on the surplus market tubes to replace the old 6H or BA rectifier. One is the CK-1009/B and the other CK-1006. The latter is also a VT-249.

1967
A.W.A. CALENDER

SUMMER DINNER and A.W.A.
OPEN HOUSE
Holcomb, N.Y., Saturday
AUGUST 12
Visit the New York Steam Pageant
at nearby Canastota during the day.
Dinner at the Holloway House,
East Bloomfield at 7 P.M.
Open House at the A.W.A. Museum
at 8 P.M. A new wing has been
added and over 50 new pieces of
equipment will be on display.
Please write Link Cundall for
dinner reservations. Advance
payment not necessary but reser-
vations are !

NATIONAL
HISTORICAL
RADIO
CONFERENCE
Ford Science Museum
DEARBORN, MICHIGAN
Sept. 22-23-24

FALL DINNER
and entertainment-------
Saturday, Oct. 21

ANNUAL BUSINESS MEETING
Saturday, Nov. 11
Pittsford, N.Y.

BIRTHS AND DEATHS OF RADIO PIONEERS:
Alexandre Popov: 1859-1905
Guglielmo Marconi: 1874-1937
Edwin Armstrong: 1890-1954

TERRIBLE MISTAKE in last OTB. As most of you have guessed by now a fair part of each BULLETIN is typed "off the cuff" without proofreading before it is rushed off to the printer. Hence, mis-spelt words (?), etc. We had two dainies in the last one. On the more serious side -- for some reason we called W5VA Frank Davis instead of Frank Smith -- and this isn't the first time either ! --- we also had EJ Handy as SCM instead of Communication Manager. The big criticism came, however, from a member who wanted to know how come we titled Bill Gould's fine article "Listening on 500 Kw." -- when it should have been 600 meters !!! I wonder what would have happened if we had used the new "hertz" designation !
Price List of Radio Apparatus
EFFECTIVE AUGUST 21st, 1922
(Supersedes all Previous Lists)

BROADCASTING RECEIVERS AND AMPLIFIERS

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Code Word</th>
<th>Type</th>
<th>Description</th>
<th>List Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IXABA</td>
<td>AR-1300</td>
<td>G. E. Crystal Radiophone Receiver and Regenerative Tuner, 175-700 meters.</td>
<td>$50.00</td>
</tr>
<tr>
<td>2</td>
<td>IXARF</td>
<td>AA-1400</td>
<td>G. E. Detector-2-Stage Amplifier, for use with Receiver AR-1300, less tubes.</td>
<td>75.00</td>
</tr>
<tr>
<td>3</td>
<td>IXALC</td>
<td>RG</td>
<td>Radiola 1 G. E. Crystal Radiophone Receiver, 175-700 meters, with Telephones.</td>
<td>25.00</td>
</tr>
<tr>
<td>4</td>
<td>IXAND</td>
<td>RG</td>
<td>Westinghouse Aerola Grand Receiver, 150-550 meters, comprising one Aerotron Detector, three Aerotron Amplifiers, four Ballast Vacuum Tubes and four &quot;B&quot; Batteries.</td>
<td>325.00</td>
</tr>
<tr>
<td>4-6</td>
<td>IZUYN</td>
<td>RG</td>
<td>Disto, with Stand.</td>
<td>350.00</td>
</tr>
<tr>
<td>5</td>
<td>IXAPE</td>
<td>RF</td>
<td>Westinghouse Aerola, Sr., 190-500 meters, with Brandes Telephones and one WD-11-D Aerola, Sr., Dry Battery Detector Tube.</td>
<td>65.00</td>
</tr>
<tr>
<td>6</td>
<td>IXASP</td>
<td>RE</td>
<td>Westinghouse Aerola, Jr., 190-500 meters, with Brandes Telephones and Spare Crystals.</td>
<td>25.00</td>
</tr>
<tr>
<td>7</td>
<td>IXASG</td>
<td>RC</td>
<td>Westinghouse Short Wave Regenerative Receiver, 180-700 meters, less tubes.</td>
<td>132.30</td>
</tr>
<tr>
<td>8</td>
<td>IXATI</td>
<td>RA</td>
<td>Westinghouse Short Wave Regenerative Tuner, 180-700 meters.</td>
<td>65.00</td>
</tr>
<tr>
<td>9</td>
<td>IXAWK</td>
<td>DA</td>
<td>Westinghouse Detector and Dry Battery 2-Stage Amplifier, for use with RA Tuner, less tubes.</td>
<td>70.00</td>
</tr>
<tr>
<td>10</td>
<td>IXAZL</td>
<td>AR-1375</td>
<td>Wireless Specialty Crystal Receiver, 170-2650 meters, with Telephones.</td>
<td>130.00</td>
</tr>
<tr>
<td>11</td>
<td>IZPIT</td>
<td>AA-1320</td>
<td>G. E. 3-Stage Radio Frequency Amplifier, 300 Meters Max., less tubes.</td>
<td>80.00</td>
</tr>
<tr>
<td>12</td>
<td>IXPLU</td>
<td>AC</td>
<td>Westinghouse 3-Stage Audio Amplifier, for Aerola Senior, with tubes.</td>
<td>68.00</td>
</tr>
<tr>
<td>13</td>
<td>IZSOS</td>
<td>AA-485</td>
<td>Wireless Specialty, 6 Tube (Detector and 7-stage) Radio-Audio Amplifier, less tubes.</td>
<td>160.00</td>
</tr>
</tbody>
</table>

RADIOLA BROADCAST SET COLLECTORS
To bring some of the newer collectors up-to-date, we list above early receivers distributed by RCA. Note we say &quot;distribute&quot; since RCA did NOT manufacture BC receivers until close to 1930. All RCA receivers prior to this date were made by other companies, notably General Electric who also made their first A.C. sets using 226's, 227's, 171A's etc.

All of the receivers listed fall into the rare class, particularly Items # 10 and 13 made by Wireless Speciality Apparatus Co. Items #3 and 10 are somewhat similar. Most all of these receivers are in the club's museum. General Comments: Items #1 and 2 can be recognized because of their &quot;battleship&quot; construction --- the cabinets being made of very heavy metal. Items #7, 8 and 9 made by Westinghouse make up the famous &quot;F&quot; series and are noted for their professional appearance with beautiful wood cabinets.

Items #1, 2, 7, 8 and 9 use UV-200 and 201 tubes. The Aerola Sr. used a WD-11 and Item #4 used a WD-11 (WD-21-D), three WB-21-A's amplifiers and four WB-800 ballast tubes! Note #3 is RADIOLA No. 1 --- a real hard one to find. These receivers were all in production prior to August, 1922.