WORLD'S RAREST RECEIVER LOST

It is a matter of opinion whether the above receiver is the world's rarest --- we'll let you be the judge. Seen at left is Jerry Tyne with RCA Historian George Clark (with coat) examining the coherer receiver supposedly used by Marconi at Signal Hill in 1901 when he received the famous three dots (letter "S") across the Atlantic. Marconi sent the unit to the United States for an exhibit and agreed to leave it here with Clark as Custodian. Time passed. George died and historical equipment went in all directions. The picture was taken by Howard Schrader at George's home in 1950. Clark died in 1956. The whereabouts of the receiver died with him.
The question was asked, "Where did all the old 202's go?" Up popped one in the hands of Fran, W2BJI. It is a real live one and is operating on 3584 Kc. We recently saw it in operation at Manlius, N.Y. and have this picture to prove it. Boy! does that filament look bright after getting used to the dull emitters of the present day. Fran swears there is only 7.5 volts on the filament! Note the xmas bulbs for center-tap. It is a Hartley with plenty of C and a stiff power supply so that it keys well and really sounds solid when on the air. It operates at 15 volts -- 350 volts at 1/2 ma. on plate. W2BJI sees it is the first time in 20 years he has run a tube at the manufacturer's rating! The 202 comes from the estate of past AWA member Bob Murphy, W2AE, ex-6CP. The components were used in W6BIL, now W2BJI, when Fran lived in Lowville, N.Y., pre-war. Anyone else want to join the "Last Man's Club" with an OT xmt using a UV-202, 203, 204, VI-2, "P" or "J" tube??

MAINTENANCE PROBLEMS

Collectors who like to retain original components in early AC set and "P" eliminators frequently run into a problem with Mershon filter condensers. These wet units had relatively short life compared to dry electrolytics of the later 30's. I have restored several by the following method:

--Cut the copper rim, remove and thoroughly clean all interior surfaces.
--Replace and fill with new borax/boric solution (you may have to experiment with density). Start with low voltage and build up to allow it to form. This may take several hours. Distilled water will work better.

----Frank Pagano

ANTIQUE WIRELESS ASSOCIATION
MUSEUM
HOLCOMB, NEW YORK 14469

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

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

TELEPHONE: 315-657-7489 or 716-663-6556

Club Radio Station: Amateur W2AN

BREMER-TULLY MFG. CO.
NOTEL HEADQUARTERS -- some have asked if it is necessary to stay at the Marriott Motel when attending the Conference? The answer is "of course not." There are numerous Motels in the area east and south of the Marriott in Virginia at various rates. Obviously, local members will attend without motel reservations. Only requirement is the $4 registration which will cover three days of activities...eat where you wish.

Antique Radio Museum of the Poconos

REX MATIACK (W3EFX) will have a small amateur museum open during the summer months. Material covers a wide range of general interest including many early pieces of amateur gear which are beautifully restored. Advanced appointment necessary. Address: Frawley Rd., General Delievery, Reeders, Pa., 18352

BILL LAVERTY now has new address:
2815 Geneva St., RD 1, Box 62K
Egg Harbor, New Jersey 08215

New Members
who are or have been in the communication field....

ROBERT MILLARD (Lancaster, Pa.)
Station KSHF

CARL PODLESNY (W21UP) General Dynamics, Raytheon

GEORGE GUY (Wall, N.J.) Electronic Engineer, Signal Corps

SETH WARD (Pittsburg, Pa.)
Telephone Co.

JAMES RADFORD (Chicago, Ill.) Zenith Radio Corp., WEFM, WIZE, WONE

CHET BURRELL (Cloverdale, Ore.)
U.S.A.F. Radar, Radio Sound Serv.

WAYNE GREEN (W2UJS) General Elec.

BILL SHIBLEY (W3QV) Engineer RCA

CLARENCE SEID (W2KW/KV4AB) Conner. operator, United Fruit, etc.

ROSS STAFF (WOFDU) WLOI, WCOL, W2KO and W2NI

(Note: Sorry... the old mill knocked out "IT" instead of "IT" when identifying new members in last CTE. Several members were pinned as IT&T employees instead of IT&T....)

Important!

Don’t forget to send your latest acquisition or activity to LAUREN PECKHAM at Orinoston Rd., Bresexport, N.Y. 14816. He is heading the new column for collectors and would like to hear from you. Be brief and inclose SASE if you would like a reply.

BULLETIN SCHEDULE: Summer vacations and need to have current issue in the mail early for the Conference have thrown us off our regular 12 week schedule. Sorry. Will try and do better in future....BK.

What’s New

ANTIQUE WIRELESS ASSOCIATION

G.R. Wavemeter: WA2YRS/W2PZP (U. of B.)
Written: W6SNK, W2NX, William White
Misc.: W1HDQ, W2IK, W2EIA
FROM HEADQUARTERS

FALL MEET AND DINNER

The regular fall meet will be primarily for collectors when they gather at the Association's Barn Museum to examine old gear and swap a few items. The group will then convene at the nearby Holloway House (5:30 P.M.) for dinner and a little entertainment. The restaurant manager requires an exact dinner count so drop Lincoln Cundall a note telling how many in your party. (Saturday, Oct. 21 at 2:30 P.M.)

ANNUAL BUSINESS MEETING AND ELECTION

Members are urged to attend the meeting and discuss the Association's activities and vote. In renewing our corporate charter, our Attorney reconfirmed an original clause allowing more Board Members which makes the organization more flexible. He tells us members may be elected from out of the area. From the practical point of view most officers and directors have been selected within easy driving distance of Rochester in order to attend the several business meetings each year. Come and voice your thoughts. All paid up members are eligible to vote. Note the Meeting Place has been changed to the Holloway House to provide more room.

ANNUAL MEETING: 3:00 P.M. Nov. 12 (Dinner for those who wish to stay at 5:00 P.M.)

Our President, CHARLES BRELFORD, regretfully, will, for the first time, miss the Annual Conference. Having recently retired as Business Manager of Eastman Kodak Research Laboratories, he and Mrs. Brelsford are looking forward to an extended vacation in Europe and will not return until the latter part of October.

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

OFFICERS

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Charles Brelsford K2WW

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Bill Gould Thorn Mason

COMMITTEEMEN
Membership: Lincoln Cundall, Harold Smith and Larry Triggs
Exhibits: Lauren Peckham, George Warder, Ken Conrad, Dick Mansley
Conference: Ed Redington, Joe Pavek, Cliff Daykin, Henry Blodgett, Joe Marsey and Dex Deeley
Historians: Ducky Dengler, Harry Lott
Net Operation: Ken Gardner, W2DON

Amateur Station: W2AN

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

The BULLETIN is published quarterly and mailed in March, June, September and December. Send all news items to Secretary: MAIN ST., HOLCOMB, N.Y. 14469

Membership: Application available from Secretary or Treasurer. Membership Limited. Send all dues to:
Treasurer LINCOLN CUNDALL
69 BOULEVARD PARKWAY
ROCHESTER, NEW YORK 14612
GOOD READING

EARLY ELECTRICAL COMMUNICATION
by E. A. Marland

is an excellent example of what can occasionally be found in a large surplus bookstore outlet. This particular hardbound book is full of circuits, sketches and exceptionally sharp glossy photographs illustrating the development of landline telegraphy and telephony. The copyright date is 1964.

I'm sure we'll all agree not much can be added to 19th century since 1964. Why all the fuss? Seems I bought several of these books in a Boston bookstore for only 33¢ each!!

-- Bob Roberts, W1HJ

"THE RADIO INDUSTRY -- THE STORY OF ITS DEVELOPMENT" 1928, A.W. Shaw Co.

This book is a series of lectures given to the graduate school at Harvard University. Lecturers include:


"COMMERCIAL BROADCASTING PIONEER"


This informative book not only covers pioneer station WRAF but also broadcast development from 1915 on.

The above two books can be easily overlooked in a used bookstore. Both highly recommended. -- Fred Penard

MAGAZINE FOR COLLECTOR

The subject of a radio collector's magazine has much merit and has been tossed around by various groups but always the same result: not enough circulation to warrant publication.

An average full size hobby magazine of 50 to 60 pages, good grade paper, well illustrated with original material and paid editor warrants minimum circulation of maybe 5000 subscribers.

Such a monthly publication would almost be prohibitive unless cost could be offset with heavy paid advertising and advertisers demand circulation for their money. As the circulation goes up the cost per issue goes down. It is doubtful whether one could drum up 5000 to 10000 subscribers at this time or with a lesser number paying around $15 a year....Got an answer??

---

Tesla
EXCENTRIC GENIUS
by Gordon Friedlander

Nikola Tesla seems to have his share of biographies in the past few years. The latest appeared in the June, 1972 "IEEE SPECTRUM" by their Senior Staff Writer. In four pages, the author very nicely sums up this remarkable man's career. He adds material not written in other articles plus a dramatic picture of Tesla (taken at his Colorado Springs Lab in 1909) seated near a huge Tesla coil with sparks going in all directions. This article is a must for Tesal buffs. (Sterling Jensen)

EARLY RADIO BROADCASTING IN MIDDLE TENNESSEE
by John H. DeWitt

Readers interested in broadcast development will want this article in their files. The author traces wireless from Hertz to KDKA broadcasts and then concentrates on pioneer broadcasting in Tennessee. He notes WDAF at Nashville was the first licensed station (May, 1922) with their more popular station WSM starting operation in October, 1925. The article appears in the Tennessee Historical Quarterly, Spring, 1972 Edition at $1.50 plus postage. Write:

State Library and Archives Bldg.
403 7th Ave. N., Nashville,
Tennessee 37219

WILLIAM WHITE PAPERS

The latest written material to be added to A.W.A. archives are two large boxes of notebooks, pictures, historical references and miscellaneous folders from the estate of William C. White, General Electric pioneer vacuum tube engineer and inventor.

White was a close associate of Langmuir and helped develop the modern vacuum tube. He was best known and frequently spoken of as "The Father of the Industrial Radio Tube" since much of his work was in this field and not radio. He is pictured with Dr. Alfred Goldsmith, Raymon Hering and Haraden Pratt with A.W.A. members on page 1, OTB, Vol. 7, #1.

The Association is indebted to Ralph Yeandle, W2KX, for procuring the material which will be examined by Jerry Tyne. Ultimate disposition may be the Smithsonian Institution, Washington.
NET OPERATION
Conducted by Ken Gardner, W2BN

SUMMER DOPRKES have set in on the nets. Ham's sure are a traveling lot and often show up as mobiles or as a portable at a camp in the mountains or at a resort. However, the Tuesday night 3900 kc net is usually well attended. Bruce has been heard calling in from his camp near Boonville as W2CP as well as others at different points.

W2NP, Bill Gould, is a frequent mobilizer on his trips to New England. Bill does it differently—he operates CW on 80 and Lexan does the driving! Check in to the 4 PM 3504 kc net often Bill.

W2AA, John VanDyke, is the only other mobile CW man we have worked. Traveling on Long Island, John used to say "... turning a curve now..." Now in Florida he still uses W2AA but /4. Another A.W.A. member who works CW from his car is Fred Hall, as he travels to and from his office in Rochester. Haven't had Fred yet...maybe he is on 40... .

4:00 PM CW NET  — rather quiet which with members doing gardening and vacationing. If you're looking for someone on this net -- just give out a cl since several there may be several standing watch.

TWO OLD TIMERS who recently checked into the 4 PM net are: W2FW, Jack Nelson in Schenectady using a nice sounding 40 meter xmt. W2TW, Ed Stiles of Holcomb, is on with a borrowed tx and rx. Ed used to be old 8BJW with a spark coil ICW on 150-200 meters.

EMERGENCY WORK: Several AWA members performed outstanding work in New York State's Southern Tier flood area in the wake of hurricane Agnes. The group included: W2GS, W2UTH, W2QY, K2LB, W2QLI, W2KMD, W2ENA, W2LB, K2W, W2BJ just to name a few......

AWA Old Time Transmitter Contest

DATES: Tuesday, Nov. 7, 1972
       Wednesday, Nov. 15

TIME: 6:00 P.M. to 6:00 A.M.

BANDS: 75 meter phone (3903 kc)
       160 meter phone and CW

SCORING: 1 POINT for each contact with station using 1940 xmt or later.

2 POINTS for each contact with station using xmt before 1940.

If you use xmt before 1940 multiply your score by 1.5

If you use xmt and rovr pre-1940 - multiply score by 2.5

RULES: A station will score only once per mode on 160 meters.

Crossband contacts will not count. Only member contacts count.

Do not send "CQ" -- send AWA

AWA AWA followed by call letters

Send log to: Ken Gardner, W2BN
42 Oakdale Ave. S.
New Hartford, N.Y. 13413

(Note: The regular 80 meter CW Old Time Xmt Contest will again take place in the spring. Schedule for this event in December OTB.)

--- NOTICE ---

The OLD TIMERS BULLETIN is published approximately four times a year at Holcomb, N.Y. by and for members of the Antique Wireless Association, Inc., a non-profit historical society chartered by the Board of Regents of the State of New York as an educational organization. This publication does not accept paid advertising nor is it liable in any way in any buying or selling transaction entered into by its readers as a result of its contents. The Old Timers Bulletin is available only as part of the Antique Wireless Association membership fee and its issuance is subject to change as to frequency, content and size from time to time.

Change In Address?

Mail information to the Treasurer who handles current mailing list.
(NOT the Secretary)
L.A. CUNDALL, W2QY
69 BOULEVARD PKY
ROCHESTER, N.Y. 14612
WITH THE COLLECTORS

Edited by LAUREN PECCHAM, ORMISTON ED., BREESEPORT, N.Y. 14816

The above column will again appear in future Bulletins. Lauren Peckham, well
known tube and set collector, has volunteered to write the column and handle
correspondence with members interested in collecting and restoring early his-
torical equipment. He will follow somewhat the same format as in the past and
would like members to write and tell of their latest acquisition and experi-
ence with early equipment. Please be brief. He will exercise the right toedit and limit copy—so drop him a note telling of your latest activities.

COLLECTING RADIO BOOKS

Radio book collectors can be broken
into three groups:
1. The historian seeking reference
books.
2. The collector of popular juvenile
books.
3. The person who collects anything
associated with radio.

The first group can be sub-divided:
those who seek books for reference
to equipment and others for radio de-
velopment. Equipment reference books
include the several written by Elmer
Bucher (now selling for around $6),
Geo. Sterling's Manual, Mary Loomis
Radio Theory & Operating and the U.S.
Signal Corp Handbook ($7 to $8 each).
These books are excellent for the
commercial gear collector.

There are numerous books on the
subject of broadcast radios—ranging
from specialized types such as Modern
Radio Reception by Leutz to a general
book like Drake's Radio Cyclopedia
(both books are currently selling be-
tween $7 to $9). The collector should
be wary of text books since they are
usually full of equations, few pictures
and little information. An example is
Morecroft's "Principles of Radio Com-
munication" which is currently selling
for around $7 but for our money isn't
worth over $2.

On the other hand, one interested in
the history of radio can't find a better
book than Archer's "History of Radio
to 1926". We've watched this book go
up in price for the past 15 years.
Originally it could be purchased for
$10 -- current selling price in used
book stores is $25.

Then there are special books.

Example: "Builder of Tomorrow" (Life
of Reginald Fessenden) which had limit-
ed printing... maybe $15 now. Original
copies of "Man of High Fidelity" are
becoming scarce but the paperback is
not. "Experiments with Alternate
Currents at High Frequency" by Nikola
Tesla printed in 1904 is an interesting
one. Twelve years ago I had a chance
to buy a copy for $10. Current interest
in Tesla has skyrocketed this rare
edition to $40 -- if you can find a copy.

The "Juvenile Series" are the best
buys. The radio series books offer
little in information and can be found
in most used book stores or flea
markets. Prices range from $.10 to
$2.00—-and don't overlook "Tom Swift
and His Wireless".

The third group of book collectors
are those who collect anything associ-
ated with radio or electricity. This
would include books on telegraph, tex-
tbooks, physics, motors, batteries,
lighting, etc. One can have lotsa fun
doing this and at the same time build
up quite a library. Set your sights at
no more than $5 and you may end up
with some good "buys" without know-
ing it!

-- Carl Zeigler

AWA NETS

PHONE: 3897 Kc. (3902 Kc.)
Every Sunday -- 12 noon
Every Tuesday -- 8 P.M.

CW: 3584 Kc.
First Wednesday each month
8 P.M.
CONSIDERABLE time before the United States entered the world war the Bell Telephone system supplied the American Navy with a wireless telephone outfit designed for communication between an airplane and a station on land or on a ship. From that time on until this country entered the world conflict, the Western Electric Company, as a part of its general study, conducted the work of perfecting light, compact wireless telephone sets, which would be available on small vessels and on airplanes. The first successful wireless test between an airplane and the ground after our entry into the war was made with one of the sets designed and completely built by this enterprising engineering organization prior to our entry into the war. The test was made on Langley Field.

On May 22, 1917, Gen. George O. Squier, Chief Signal Officer of the United States Army, sent for Dr. F. B. Jewett, chief engineer of the Western Electric Company, to confer with him with reference to the matter of equipping airplanes with wireless telephone apparatus. At this conference, which was held in Washington, besides Gen. Squier and Dr. Jewett, there were present E. D. Craft, one of Dr. Jewett’s principal assistants; Capt. now Col. C. C. Culver, of the Signal Corps, and Col. Rees, of the British Army Air Service. The possibility of providing airplanes with wireless telephone service was discut, and the reports of the development work being done by the Western Electric Company made by Dr. Jewett were so promising that he was ordered in writing by Gen. Squier to proceed with the development of the system, and to actually equip planes with it.

The Bell system engineers had progress so far at that time that they were able on July 1, 1917, five weeks after the first conference, in a test at Langley Field, to actually demonstrate the working of the wireless telephone between an airplane and the ground. This test also showed that it was practical to operate the system between two or more airplanes in the air.

Working this apparatus under ordinary conditions on the ground, and in a swift-moving and tremendously noisy airplane, were two entirely different propositions. The noise of the engine and rushing air was such that it was impossible to hear one’s own voice, to say nothing of the weak signals of the telephone receiver, stated Edward B. Craft, Assistant Chief Engineer of the Western Electric Co.

One of the first problems was to design a head set which would exclude these noises, and at the same time permit of the reception of the telephone talk. A form of aviator’s helmet was devised with telephone receivers inserted to fit the ears of the pilot or observer. See accompanying illustration of the helmet with ‘phones complete. Cushions and pads were provided for adjusting the receivers to the ears and the helmet fitted close to the face so as to prevent as far as possible, the sound being heard either thru the ear passage or thru the bony structure of the head, which acts as a sort of a sounding board. A helmet, such as that illustrated, was finally developed and was found to solve this portion of the problem. The earpiece finally adopted was made of sponge rubber (made so by blowing air thru it while molten), reenforced with tin foil, and the receivers themselves embedded therein. These were mounted in a thick leather helmet, to be clamped over the flier’s head and ears. It effectually muffles bone transmission also, besides permitting the use of oxygen or gas masks.

Everyone knows how sensitive the ordinary telephone transmitter is to extraneous noises, and it does not require a wide stretch of the imagination to picture how this would act alongside the exhaust of a 200 horsepower gasoline engine. A brilliant line of experimentation finally resulted in a form of a telephone transmitter or microphone, which possess the remarkable quality of being insensitive to engine and wind noises, and at the same time very responsive to the tones of the voice. With these two elements in hand, the problem was apparently solved. The fact remains, however, that three solid months of the hardest kind of work was necessary to iron out all the kinks and get the thing in shape so that it might be considered a practicable device for the everyday use of other than experts, as Mr. Craft points out. The microphone perfected for this work has no mouthpiece, but instead a flat cap having three tiny openings about 1/16 inch in diameter. The voice waves pass thru these onto
there was nothing left but to supply a separate radio dynamo, and drive it by a wind propeller, taking its power from the rushing air. Airplanes are in the habit of flying at various speeds, and the specifications stated this to be from forty to one hundred and sixty miles per hour, the latter figure representing the speed when the machine was diving. The little dynamo, therefore, had to deliver a constant voltage with a speed varying from 4,000 to 14,000 R.P.M.

The microphone and receivers used for radiophoning from plane to plane or plane to earth are arranged by means of a switch so that the pilot and observer can converse over the telephone circuit between the pilot and his mechanic with ease, and by throwing a switch can connect themselves with the radio apparatus and talk with the men in another plane three or four miles away, or to the ground.

The primary object was to make it possible for the commander of an air squadron to control the movement of his men in the air, the same as a squad leader of infantry does on the ground. For this purpose extra long range is not required, and the distance over which they can talk is purposely limited to two or three miles, so that the enemy cannot overhear, except when actually engaged in combat, and then nobody cares.

Lewis Clement, K3AA at left.

the ground the 'planes were maneuvered all over that part of the country. They were sent on scouting expeditions and reported what they saw as they traveled thru the air. Continuous conversation was carried on, even when the 'planes were out of sight, and finally upon command they came flying back out of space and landed as directed.

Electric current must be supplied to operate the wireless set on the 'plane, as we well know, this current being used to heat the filaments of the vacuum tubes and to operate the transmitter. But the 'planes were already loaded down with all the gear they could carry, and the use of heavy storage batteries was out of the question. The airplane engineers would allow nothing to be connected to their engines, so...
OLD TYME HAM ADS

OLD TYME ADS are FREE to members who are interested in collecting and re-storing historical equipment as an amateur. They are not to be abused.

RULES FOR ADS:
1. Material must be over 25 years old.
2. Ad MUST be written on separate sheet of paper -- not part of letter. For acknowledgement -- send S.A.S.E.
3. Give full address, zip number and call letters (if any).
4. AWA will not print repetitious ads or ones indicating regular sale for profit.
5. The Association is NOT responsible for any transaction.
6. AWA retains the right to reduce size of ad.
7. All ads must be received 5 weeks prior to mailing date.
8. Mail to Antique Wireless Assn., Main Street, Holcomb, N.Y. 14419

FOR SALE: QST's from 1932 to 1969 inclusive for $35.00 or best offer POB, Lou Hardy, W2GO, 522 Shirley Avenue, Franklin Lakes, N.Y. 07417

WANTED: Loop antenna, cabinet and crystal detector for DeFord T D-7A. Also detector for Federal Junior. Have RCA Magnetic Modulator and Mercury transmitting condenser. Write: Harry Williams, WJN!T, Pleasant Hill, Missouri 64080

HELP: Want suggestions on how to preserve old radios from mildew. Humidity runs fairly high in my area which does not help insulation and components. Any advice appreciated. Bob Loxier, 318 East Houston St., Monroe, N.C. 28110

TRADE -- Atwater-Kent No. 34-88 voltmeter for an AK board potentiometer. Ross Smith, 1133 Strong, Elkhart, Indiana 46514


WANTED: Does anyone have a wiring diagram for a Standard Trans. Corp. Stancor Master Pack, Model 752, 6 volt power supply? Lincoln Cundall, W2CQY, 69 Boulevard Pkwy., Rochester, N.Y. 14612

WANTED for old time transmitter: A Jewell Pattern 5 D.C. milliammeter 0-100 with paper scale. Also two molded Sangamo .01 and one .02 and three .001 condensers. Ken Gardner, W2EM, 42 Oakdale Ave. S., New Hartford, N.Y. 13413

WANT: One Sodion tube types 8-13, 13 and 2D1. Stan LeDage, W2BZM, Box 323, Maple Shade, New Jersey 08052

FOR SALE: Complete set of 23 issues of "RADIOS NEWS", covering Tyne's "Saga of the Vacuum Tube". All with covers — $45.00 plus postage. Also, Autographed Photograph THOS. A. EDISON for $75.00 plus shipping costs. Write: Floyd Lyons, 631 O'Farrell, San Francisco, Calif. 94109

NEED: Audio coupling unit for National SW-3 receiver. Jack Kingman, WHJU, 9207 St. Marks Place, Fairfax, Virginia 22030

FOR SALE: Huge inventory of old time parts many of which are in original boxes. Includes dials, knobs, tube sockets, rheostats, rotary switch levers and points, binding posts, crystals and round and square bus bar plus other items for old time set builder. Write: Art Trauffer your wants (no list): 120 Fourth St., Council Bluffs, Iowa 51501

TRADE: Duplicates from my collection of early radio books. None for sale. Send for list. Stan Atkinson, WLAFO, 59 Mason Ave., Cranston, R.I. 02910

WANTED: To complete the restoration of the HP-501's Two Step Amplifier - I need an AWS audio transformer and door-latch assembly that is used to secure the hinged tube access door to front panel. Joseph Benne Sr., 49H Hirsch Ave., Calumet City, I11. 60409
SMITHSONIAN INSTITUTION, WASHINGTON, D.C.
September 22, 23, 24
1972

Conference Headquarters
MARRIOTT TWIN BRIDGES MOTOR HOTEL, U.S. 1
(Virginia side of river near airport)

General Information...

Advance registration with meals must be made through Elliot Sivowitch at the Smithsonian before Sept. 15. Your dinner and bus tickets with registration badges will be waiting for you at Marriott Motel A.W.A. Headquarters. Please fill out and mail inclose Registration Card with check promptly to avoid disappointment. Limited seating capacity at Banquet. (Registration covering 3 days of activities, unlimited and available at Conference for only $4.)

For your convenience, a chartered bus will take you from the Motel to the Smithsonian and return thereby eliminating driving and parking in Washington.

Reservations at MARRIOTT Motel: The Association does not handle room reservations — you must make your own directly with the Motel. Be sure and mention you're attending the A.W.A. Conference for special rates.

Marriott Twin Bridges U. S. 1 & 1 - 95 Washington, D. C. 20001
Telephone: (202) 628-4200

(Note: There are also several other Motels in the area which do not require advance reservations.)
FRIDAY, SEPT. 22
MARRIOTT MOTEL
REGISTRATION
6:00 P.M.

7:00 P.M. START-OFF DINNER
SOCIETY OF WIRELESS PIONEERS
Recognition of early wireless pioneers
Rare recording of RADIO SINGAPORE 9VG with QTC List for ships on 516 Kc.
8:00 P.M. SLIDE REVIEW
Highlights of previous Conferences
8:45 P.M. O.O.T.C. MEETING
Andy Shafer, W9TE, President

SATURDAY, SEPTEMBER 23
SMITHSONIAN INSTITUTION THEATER

8:00 - 9:30 A.M.
Registration at Marriott Motel (A.W.A. Headquarters Room)

9:00 - 9:45 A.M.
Buses leave Marriott Main Entrance for Smithsonian Museum of Technology

10:30 A.M.
ILLUSTRATED HISTORY OF THE TELEGRAPH KEY
LOU MOREAU, WB6BBO/W3WRE (QST YL Editor and Key Historian)
Origin and development of hand and semi-automatic keys

11:00 A.M.
COLLECTOR’S PANEL
PERRY FERRELL, Moderator
45 minutes of fun: "Who is who?" "What is what?" Award to winning team

12 Noon
LUNCHEON
Smithsonian Dining Room (Basement)

1:15 P.M.
N.R.L. 50TH ANNIVERSARY
Announcement by HAL DINGER, W9KH
Naval Research Laboratories

2:15 P.M.
OLD TIME CONTEST TRANSMITTER SESSION
KEN GARDNER, W2QGN
Brief discussion and review of current operation

2:15 P.M.
LEWIS MASON CLEMENT, K3AA
Interviewed by WAYNE NELSON, W4AA

3:00 P.M.
BREAK (Please return by 3:10 since next program starts promptly)

3:10 P.M.
AN AMERICAN INVENTOR
EDWIN HOWARD ARMSTRONG
Illustrated sound show covering 40 years of radio development

4:15 - 4:30 P.M.
Buses return to Marriott Motel

LADIES PROGRAM
As in the past, ladies will be "on their own" as they visit the several
museums and art galleries on the Mall. Bus fare will include a special
women’s tour to the beautiful Renwick Gallery. Join the men for luncheon
if you wish. The Smithsonian Cafeteria is open all day. Remember to be
at the Bus Stop for return at 4:15 P.M.
5:00 P.M.  RECEIVER CONTEST  (Bring your receivers to Commonwealth Foyer)

I REGENERATIVE RECEIVER (one to five tubes).
II TUNED R.F. RECEIVERS (two or more stages of R.F. plus detector and audio).
III SUPERHETERODYNES -- any type.
IV Best piece of WWI MILITARY EQUIPMENT -- receiver or transmitter.

Judges: Bob Merriam (Rhode Island) Bruce Boyd (Maryland) Joe Pavek (Minnesota) Alternate: Serge Krauss (Indiana)

6:00 -  LATE REGISTRATION (Commonwealth Foyer)
7:00 P.M.  and COCKTAIL HOUR

7:00 P.M.  ANNUAL A.W.A. BANQUET  COMMONWEALTH ROOM

Toastmaster: Ed Redington, W4ZM
Welcome by Vice-President Kenneth Gardner, W2EKN
Introduction of notables and Contest Winners
Demonstration of Major Armstrong's 1920 Super-heterodyne!

HOUCK AWARD PRESENTATIONS

1972 AMATEUR HISTORIAN ---- presented by PROSE WALKER, W4EW
Federal Communication Commission

1972 PROFESSIONAL HISTORIAN -- presented by DR. JAMES BRITtain
Smithsonian Institution

9:00 P.M.  20 YEARS  CHESAPEAKE THEATER ROOM

The evolution of popular entertainment: 1919 to 1939

SUNDAY, SEPT. 24

9:00 -  SWAP SESSION
11:00 A.M.

Bring your old equipment, receivers, tubes and magazines

CO-ORDINATORS:
Ed Redington, W4ZM
Elliot Sivowitch, K3RJA (Smithsonian)
Bruce Kelley, W21CE

COMMITTEES:
Registration and Finance-- Lincoln Cumall, W2QY and Dex Deely, W2KQI
Transportation-- Cliff Daykin-- W2AFE
Collector's Panel-- Joe Marsey, W3EMX and Harvey Prace, W2EJM
Swap Session-- Jack Kingman, W4JT, Lauren Peckham and Dick Ransley
Awards-- Bob Morris, W2IV
Photography-- Al Crum, W24XK
AN AMERICAN INVENTOR

EDWIN HOWARD ARMSTRONG

Most historians agree that Major Armstrong was the greatest radio inventor. He is also one of the last individual inventors, for nearly all present day patents are issued directly or indirectly to industrial concerns with large research laboratories.

Armstrong's radio career spans more than 40 years, from the development of the first practical tube receiver (feedback circuit) to the ultimate in broadcast reception: frequency modulation.

"An American Inventor" is the biography of this great man as seen by a radio amateur. Hundreds of pictures and tape recordings have been gathered and assembled in a 45 minute presentation with premiere showing at the 1972 A.W.A. Historical Radio Conference, Smithsonian Institution, Washington, D.C.

Material ranges from intimate pictures of his Rye, New Hampshire, home to his pioneer Alpine, New Jersey, FM station. This fascinating story appeals to both amateur historian and professional engineer.

REGENRATION
Super-Heterodyne Receivers

ARMSTRONG'S
FM
FM 2-WAY RADIO

FCC May Give Okay
Armstrong Regenerative

FM-VHF

Super-

Heterodyne

VHF FM Portable

FCC Hearing Set

20 YEARS

HISTORICAL ENTERTAINMENT

The period between the two wars was one of great change in entertainment. Song sheets on the living room piano and the mechanical phonograph were still standard entertainment in 1919. On special occasions, the more affluent would see a silent movie, attend vaudeville or perhaps take in a Broadway stage show.

Much of this changed in the first decade after the first war as the result of two great technical developments: radio broadcasting and, later, sound movies.

By 1930 song sheets sales were at an all time low and movies had become "talkies". The old vaudeville circuits were in their last days and Broadway musicals had taken on a new look.

But an even greater development was yet to come -- a form of entertainment that would challenge sound movies and radio. As early as 1939 television was finding its way into the home.

"20 YEARS" is a historical documentary highlighting the change in these forms of entertainment. Original pictures and voices of great Broadway stars, old time movies, music of the jazz age and radio broadcasts make this an unforgettable presentation. Realism is accomplished through a special dissolve projection system and stereo sound.
Shortwave Stations Increase Power

Many members will remember the early days of international shortwave broadcasts -- remember tuning in 05SW, PCFJ, VK2ME, 2XAD/XAF or 8XK with your plug-in-coll 2 tube regenerative set?

WWII brought many new super SW stations and now the latest -- while thumbing through the June, 1972 issue of "Communication News" I read of two new installations: The Germans are building 12 new super-power transmitters which will feed into a multiple type antenna system by 33 miles of co-axial cable. Of particular interest is the co-ax cable -- the inner copper conductor is 3.8" diameter surrounded by an outer aluminum conductor just under 10" in diameter !!! wow ! It is of corrugated construction and shipped by rail on 197 yard length spools...

Not to be outdone, KQEM at Belmont, Calif. is re-building with a new super 250,000 watt transmitter which in conjunction with a new type log-periodic antenna will provide better than 25 million watts of effective radiated power in the direction of South America.....25 million watts...

---NEW TUBES---

Pre-war tubes are becoming difficult to find -- particularly new ones. A listing just received (July 20) carried an extensive inventory of new ones which may be of interest. As an example: Types 26, 27, 30, 33, 35, 36, 38, 46, 47 50 and even UX-200A. Write for their latest catalog:

HYTRON HUDSON CORP
2201 BERGENLINE AVE.
UNION CITY, N. J. 07087

Electronics Digest

Congrats again to Editor Bob Palmer, W5SEF, for his fine series of historical articles and biographies. We know of no other commercial publication that prints as much material of this type as his "Electronics Digest" magazine.

As an example-- the July/August 1972 issue told about pioneer Prof. Joseph Tykoconer, a writeup on Bob and Nancy Merriman's New England Wireless Museum plus two technical articles by Bob Middleton and Art Trauffer.

50TH ANNIVERSARY QSO LISTING

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RADIO COMMUNICATION AT SEA

The following is from a letter received from Norm Burton, Revesby, NSW, Australia, which should be of interest to AWA members:

"This morning I made a perfect tape of 9VG, Singapore Radio, sending his QTC list on 516 Ke. Its around 5½ thousand miles to 9VG from here. The other morning I logged WXG at Shanghai on 500 while waiting for 9VG to come up......I reckon this must be some kind of record for 500 kc. DX. Be interesting to note in UTB and see if anyone can equal or better it at this time. On 5½ thousand miles I logged WVC Calcutta, WXG, Dalren Radio, and at 7½ thousand mile mark: KU5 'Frisco which, when you take into consideration the relatively low power they use is not a bad feat.

These morning signals are interesting as they are around sunrise here, a time that can aid or retard reception over long distances. I have logged 9VG when its been broad daylight here and 30 minutes after sunrise. Hows that ? 5000 miles in broad daylight on 500 Kc. !"

A.W.A. has the tape Norm refers to and it may be played back at the forthcoming Conference at Washington.
MUSEUM PROBLEMS

Most (if not all) public museums have deep financial problems. This condition is more apparent today with increase living costs which are not reflected in museum employee's wages. One frequently hears of dedicated (?) museum personnel with B.A. or M.S. degrees working for $5000 and directors of some small museums making a little more than $10,000.

Public museums frequently depend on the whims of city fathers when they plan their annual budget. Museums are a necessity and unless they have strong lobby support their budget will be kept at minimum.

Results are interesting: In some areas museums have had to cut back on their staffs, others have reduced the number of days open to the public while some are remaining status quo with little or no plans for expansion or improvement in spite of increasing attendance.

Many museums depend on gifts or endowments from wealthy patrons. Even this source of revenue is falling short because of I.R.S. regulations. Several large museums have been faced with labor problems and union organizing. An example was the recent conflict at New York's Museum of Modern Art.

Back in the mid-60's mention was made several times of a proposed museum called AMERICAN MUSEUM OF ELECTRICITY to be located near Schenectady, N.Y. The promoters had great plans: 145 acres with headquarters building, a 7.2 mile railroad right-of-way formerly held by the New York Central R.R. on which they planned to operate an early electric locomotive with several passenger cars, several warehouses full of electrical equipment including huge generators, etc.

In addition, they collected a sizeable sum toward a $15 million goal which would have included a "campus type" setting of 12 buildings which the promoters hoped would attract 1.5 million visitors annually.

What happened? We're not sure except the project folded up and the land is in the process of being sold along with the collected artifacts and the proceeds being turned over to the courts to pay debts. A big event occurred June 5th and 6th when curators from various museums were invited to look over the inventory and split up the "loot".

Seafaring members and old time commercial radio operators will be pleased to know of a proposed addition to the Smithsonian complex to be called "Hall of American Maritime Enterprise". Full details are not available and it will not be open for at least another year.

ORGANIZATIONS TO JOIN

In addition to Q.C.W.A. and O.O.T.C., A.W.A. members may want to join one of these organizations:

DE FOREST PIONEERS -- a group interested in preserving the memory and work of Dr. Lee De Forest. Membership requirement: former employee or associate of De Forest. Write Secretary: Ken Richardson, 254 Vincent Avenue, Lynbrook, N.Y. 11563

SOCIETY OF WIRELESS PIONEERS -- an organization for the old time commercial operator. Membership requirement: Ship or shore station operator. Write: William Breniman, P.O. Box 530, Santa Rosa, California, 95042

TITANIC ENTHUSIASTS OF AMERICA -- members interested in the history of the White Star Liners OLYMPIC, TITANIC and BRITANNIC will find this club of particular interest. Membership requirements: None. Write: Ed Kamuda, Box 53, Indian Orchard, Mass. 01051

INDIANA HISTORICAL RADIO SOCIETY -- a group in Indiana interested in radio history and collecting. They hold regular meetings and publish a small paper. Out of state members are welcome to join. Write for application: Gary Vierk, 2505 Kickapoo Drive, Lafayette, Indiana.
for American Marconi between 1914 and 1916 at their Honolulu and Bolinas stations Kie/KET.-- Engineer with Western Electric/Bell Labs between 1916-25 (see accompanying article) Engineer in Charge of famous 1920 Catalina Island radiophone tests--helped develop SCR-68 and other WWI equipment. --worked briefly with E. H. Armstrong before he left for Paris--Chief Engineer for FADA Radio (1925-1928)-- Vice-President and Chief Engineer KOLSTER Radio (1928-1930)--Assistant to V. P. Westinghouse (1930-1931)-- I. T. & T. Companies 1931-1933 as Chief Engineer or Technical Director at:

Federal Tele. Co. (Newark), Kolster Radio (Newark), Kolster-Brandes (England), Lorenz (Berline, Germany), Bell Tele. Mfg. Co. (Antwerp, Belgium), La Material Telephonique (Paris, France), Czelja Nissl (Vienna, Austria), Standard Electric (Budapest, Hungary), Bell Tele. Mfg. Co. (Switzerland) and Standard Electric (Italy).


Clement is the author of numerous technical articles and the holder of many offices in the professional field. In his 60 year career he has known or worked with many familiar names such as Ellery Stone, F. A. D. Andrea, N. H. Slaughter, David Sarnoff, E. T. Cunningham, Dr. Zworykin, R. A. Heising, E. H. Coplitts, Lloyd Espenschied, Haraden Pratt, Dr. A. N. Goldsmith, etc.

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**EUROPEAN TUBE COLLECTOR**

Recent correspondence with Chris Petsikopoulos, Athens, Greece, yielded a large booklet giving brief history of various European tube (valve) manufacturers and tube specs. Chris gathered the information in the pursuit of his tube collecting hobby. He gave the impression there were not too many collectors on the continent. Our lists shows one in England and the Netherlands, two in Australia and one in New Zealand in addition to about 10 serious collectors in this country.
Tube historians will find the above "tree" of interest. It was published many years ago in a magazine called "Electronics". Although the latest date is 1938, most basic developments had been perfected including thyatron and magnetrons. As noted, the tree has two main branches: two element and three element tubes with the latter breaking off into multiple types. Of particular interest is the center branch or "soft" tubes. A real challenge for some future amateur historian would be a tree of solid state devices.
Call Letters That Have a Past

Call letters that were originally assigned to ships that have met disaster are seldom re-assigned to other ships, in deference to the superstitions of seamen. They are, however, now assigned to broadcasting stations. For example:

KJS, now assigned to the Bible Institute of Los Angeles, was formerly used by the steamer North Star in transmitting an important message when on a foggy morning in August, 1919, a call for immediate assistance was sent out by the radio operator of the vessel. Radio played an important rôle in the rescue of all of the 348 persons on board.

WSB, now assigned to the station of the Atlanta Journal, was formerly assigned to the steamer Francis H. Leggett which foundered off the Oregon coast on September 18, 1914, with 67 persons on board, two of whom were lost. After this wreck the call signal was re-assigned to the steamer Firwood which burned off the coast of Peru on December 18, 1919, with 28 persons on board, none of whom were lost.

WHN, now used by the station of Loew’s Theatre, New York City, was at one time assigned to the steamer Hanalei which was wrecked. It was later used by the steamer Santa Isabel which was sold to citizens of Chile. When a vessel is sold to a foreign country, the country to which it is sold assigns its own letters to the vessel’s station.

KLZ, Reynolds Radio Co., Denver, Col., was the call of the steamer Speedwell in 1920. KLZ and SOS were an important combination of signals on September 29 of that year when the Speedwell was caught in a tropical hurricane in the Gulf of Mexico. This storm was so severe that after the distress call and position of the vessel were sent out the engine room became flooded, the dynamo ceased to work and the sea carried away the whole after-deck, taking with it the storage batteries which were necessary to operate the radio station. This catastrophe caused the loss of nine lives, including the captain, mate, and two women passengers, out of 25 persons on board.

KGB, now assigned to the Tacoma Daily Ledger, was at one time used by the steam screw D. N. Luckenbach which was sunk by a submarine about 100 miles off the French coast on December 27, 1917.

WGR, Federal Telephone Manufacturing Co., Buffalo, N. Y., was used by the passenger steamer Governor prior to its assignment to the broadcasting station. The Governor was sunk in a collision with the freighter West Hartland in April, 1921. Eight lives were lost. No doubt some old-time operators recollect when WGR was heard up and down the Pacific coast.

WWJ was once the call of the steamer Peru; it is now used by the Detroit News station. The Peru was transferred to the French flag, causing the cancellation of the call letters of the United States.

KLS, now assigned to the Oakland Tribune, was formerly assigned to the steamer Kermanshah which was transferred to the Hungarian flag.

KOB, New Mexico College of Agriculture and Mechanic Arts, State College, New Mexico, was used by the steamer Princess Anne up to the time she stranded on Rockaway Shoals, Long Island, February 6, 1920, with 106 persons on board none of whom were lost. The Princess broke in two and the cargo, valued at $500,000, was practically a total loss.

(Reprint from POPULAR RADIO magazine, Sept., 1925)
HALLICRAFTER T-54

The T-54 is same as Model 505 (see next page) except it is in a gray metal cabinet and sold for $169.50.

Hallicrafter also manufactured two other models: A 10" set (Mod. T-61 selling for $275.50) and a 12" x 16" model (T-60 at $395.00) using a 2-1/2" picture tube with associated lenses and mirrors. These sets were all manufactured in the late 40's with the T-54 first and most popular.

A feature found on the Hallicrafter sets and seldom seen on others was push button channel selection instead of rotary switch.

Other early entries in the postwar television field include National with their TV-7W Model, a little 3" Pilot and the 7" Philco. Three of these models can be seen in the A.W.A. Museum in addition to a 1929 Jenkins set using Nipkow disc with lenses and mirror.

Collecting early TV receivers can be an interesting field for the historian providing he has storage space. Part replacement should be no problem except for certain picture tubes.

1,000,000 ATWATER KENT

Bob Tschopp (Barrington, Ill.) writes that a friend recently gave him a Model 35 Atwater-Kent -- one which has been in the family since new. The interesting thing about the receiver is a brass plaque which is riveted to the front panel next to the tuning dial with the following inscription:

"THIS IS THE 1,000,000TH RADIO RECEIVING SET PRODUCED BY THE ATWATER-KENT MFG. CO. IN ITS 15 ACRE PLANT, PHILADELPHIA, PA. FRIDAY DEC. 3RD, 1928. ON THE SAME DAY 5317 OTHER SETS, 11 PER MINUTE WERE COMPLETED

--- A. Atwater Kent"

BRIEF HISTORY OF PHILCO RADIO

The Philco Radio and Television Co. was originally the Helios Electric Company founded in 1892. They changed their name to Philadelphia Storage Battery Co. in 1906. Their first venture in radio was manufacturing battery eliminators in 1924 -- remember the big heavy brown metal box?

With the advent of A.C. sets the business fell off and they had to seek a RCA license to manufacture receivers. Since such licenses were next to impossible to obtain (!), the company purchased the right for $100,000 by the way of the established William J. Murdock Company.

In 1939 Philco won a court decision over RCA in a patent suit -- one of the very few who ever did. The company is now with Ford and have gone into other communication fields.
hallicrafters 505 Television Receiver

Now you can have perfected, clear, sharp, bright Television at amazingly low cost! The remarkably dependable Hallicrafters 505 brings the exciting new world of visual entertainment right into your home with astonishing clarity and brilliance.

Covers all Television channels; you tune the stations in your locality just by pushing the proper buttons. Combined power switch and contrast control turns set on and regulates picture for best definition; brightness control adjusts for best viewing brilliancy; horizontal and vertical controls frame picture perfectly; fine tuning with 1 me range provides exact tuning of sound.

The 7" viewing tube provides a brilliant 23-square-inch picture, 5½"x4½". The built-in 5½" oval-type PM speaker handles the two-watt static-free FM audio output with exceptional fidelity. Circuit employs 18 tubes, plus 4 rectifiers and cathode-ray viewing tube (see description on inside front cover). Features include: permeability-tuned IF's; Automatic Gain Control on all RF and IF circuits; antenna input for standard 300-ohm ribbon lead-in.

The Hallicrafters S05 is presented in a hand-polished mahogany cabinet of outstanding beauty. Features handsome two-tone beach-tan front panel, with rich brown plastic knobs and escutcheon. Size: 20½" long, 11½" high, 17" deep. Operates from 105-125 volts, 50-60 cycles AC. Complete with all tubes and instructions.

National TV-7W Television Receiver

Now—at surprising low cost—you can own and enjoy a dependable TV receiver with incomparable picture clarity and wonderful tonal fidelity! Precision-built by National—world-famous professional radio builders.

The TV-7W covers all 12 Television channels. Automatic type channel selector tunes both video and FM audio in single operation. Fine tuning adjustment is provided to compensate for slight performance differences between various channels.

A 7-inch viewing tube provides a brilliant picture area—5½"x4½". External video interference is reduced and signal-to-image ratio is greatly improved through use of a special symmetrical stagger-tuned 37.5 mc IF. Picture stability is exceptional; an extra-stable sync circuit coupled with automatic gain control compensates for varying signal levels. Special RF section with tuned RF stage uses double-tuned band-pass circuit for improved selectivity and image ratio. Properly designed audio channel uses two 4½" oval PM speakers for binaural effect which results in marvelously realistic tone quality. Transformerless, hum-free power supply. Circuit includes 18 tubes, plus 5 rectifiers and picture tube (see back cover). Has standard 300-ohm antenna input.

The National TV-7W is housed in a quality-built hand-polished mahogany wood cabinet, with attractive dual-speaker grille and picture-tube escutcheon. Size: 20½" long, 17½" deep, 12½" high. For 105-125 volts,
Historic Shack Finds a Home

By Bob Keeler

Rocky Point—In a few weeks, a crane will gently lift a small weatherbeaten shack from in front of the Joseph A. Edgar School here, roll 500 feet east on Route 25A and deposit it at what may be its final site—outside the Sons of Italy lodge.

Members of the lodge, including a retired builder, Rosario Aurucci, who has been restoring the shack, will celebrate the occasion by putting a bronze plaque on it to tell part of the story of its 71 years.

Built for Marconi

In 1901, a few months before Aurucci was born in Italy, the 12-by-14-foot shack was built on a Babylon farm by an unknown local carpenter. The man for whom it was built was Guglielmo Marconi, the Italian physicist who earlier that year had beamed the first transatlantic wireless message, from England to Newfoundland. The shack was used as Marconi’s transmitting station for the world’s first shore-to-ship wireless message.

The shack was moved about 1930 to Rocky Point, the site of what was then the world’s largest transmitting station. A year or two later, it was moved inside a large barn on the property, where it survived at least one fire.

Then, three years ago, it made its most recent move, across Route 25A to the school’s front yard. “I thought it was an absolute shame to have something of historic interest in a horse stable,” said the principal of the Rocky Point district, Frank Carnetti. He and the Radio Corp. of America’s chief engineer, Robert Lundquist, agreed to have it moved to the school grounds.

Restoration Began in March

Then the Sons of Italy became involved. “We found out from the secretary of the chamber of commerce, Phil Leone,” Aurucci said. “They authorized me to restore the shack.” Last March, he said, work began, and within a few months, shingles and glass had been replaced, the foundation reinforced, and the shack painted white.

Over the years, the shack’s original equipment, including its single electric lights and pot-belly stove, have disappeared, but there are still nail-holes in the wall where the equipment was placed, and Marconi’s workbench is still there. Now, Aurucci said, he is looking for old wireless equipment to put in the shack. “I studied about Marconi when I was in school in Italy,” Aurucci said. “I was very proud of a great discovery.”

The above article recently appeared in the Long Island NEwSDDL newspaper and was sent to us by Jack Allison of East Patchogue, N.Y. As most historians know, Marconi’s Babylon station is the grand-daddy of all wireless stations in the United States. A big THANKS to the Long Island group for preserving this famous building.

Speaking of preserving, Jack wonders what is going to happen to RCA’s Rocky Point radio installation — one of the world’s largest radio complex. The number of circuits have been halved, some of the equipment is well over 35 years old and the complete site is one of — “quiet desperation”....

Crosley Models 53, 54 and 57

The image contains a schematic diagram of an electrical circuit, but the description of the diagram or its context is not provided in the text.
TWIN LIGHTS
HIGHLANDS, NEW JERSEY
U. S. A.

To Radio W2NX... 595
Confirming A1 A2 A5 QSO 14 May 1972 2335 GMT / 8 Band

The Old Old Timers Club and the Garden State
Amateur Radio Association commemorate the 75th anniversary
of the Bristol Channel Tests conducted by
guglielmo Marconi and George Kemp in May 1897. At
that time radio communications were established for the
first time over water between Lavernock Point, Wales
and Flat Holm Island, England. WM2GK is at Twin Lights,
the site of Marconi’s first experiments in the U.S.A., 1899.

Bill W2V5Z

TITANIC COMMUTATOR is the Official Journal of an organization called
"Titanic Enthusiasts of America". Their most recent issue printed 29
large photographs of the TITANIC.
The photographs are reproductions of famous oil paintings showing the ship
leaving Southampton, hitting the ice-berg or sinking. The painters were
fairly consistent in showing the
antenna as a 4 wire flat-top. An
earlier issue of the COMMUTATOR
had several photographs taken from
the 1959 movie "A Night To Remem-
ber". The T. E. A., founded in 1963,
also have interest in other White Star Liners such as the Olympic and the
Britannic. One issue carried several
articles giving pro and con on salvag-
ing the Titanic. Good copy. See info
elsewhere in OTB concerning organi-
izations to join.

MOTOROLA

In 1928 Paul Galvin was out of work
and was looking for something to do.
Like some others, he decided to make
radio receivers and started with an
investment of only $500.
He specialized, however, and in the
30's engineered a receiver that worked
well in automobiles. It was good tim-
ing with the growing demand for cars-
sogood in fact that 2,500,000 car
radios were sold in 1941 with Galvin
the largest producer with sales of
600,000 sets.

In addition, Paul's company sold
400,000 household radios. The name
of the company was officially changed
to Motorola in 1947.

160 METERS ?? Do you have equipment
that will work this old time band?
If so, join the gang Nov. 7 and 15.
See info elsewhere in OTB.
Welcome to the Nation’s Capital!

NATIONAL HISTORICAL RADIO CONFERENCE

ARLINGTON NATIONAL CEMETERY—692-5877
Open daily and Sunday September thru March, 8 a.m.-5 p.m. April thru August, 8 a.m.-7 p.m. Located here is the Tomb of the Unknown Soldier. The Amphitheater, The Custis-Lee Mansion and the graves of Presidents John F. Kennedy and William Howard Taft. Changing of the Guard at the Tomb of the Unknown Soldier every half hour.

BOTANIC GARDENS—1st and Maryland Ave., S.W. 225-8333. Open daily 9 a.m.-4 p.m.

BUREAU OF ENGRAVING AND PRINTING—14th and G Sts., S.W. WO 4-7611. Continuous tours Monday thru Friday, 8 a.m.-2:30 p.m. Closed Saturday, Sunday and Holidays.

CAPITOL—Capitol Hill 224-3121. Open daily 9 a.m.-4:30 p.m. Tours 9-3:45.

CORCORAN GALLERY OF ART—17th and New York Ave., N.W. 7-5215. Open Tuesday thru Friday, 11 a.m.-5:00 p.m. Closed Saturday, Sunday and Holidays 12-6 p.m. Closed Monday.

CUSTIS-LEE MANSION—602-9833. Open daily, October thru March, 9:30 a.m.-4:30 p.m.; April thru September, 9:30 a.m.-6 p.m. Admission $0.50 to all over 15 years of age.

FEDERAL BUREAU OF INVESTIGATION—9th and Pennsylvania Ave., N.W. EX 3-7100, ext. 447. Open Monday thru Friday, 9:15 a.m.-4:15 p.m. Closed Saturday, Sunday and Holidays. Tours start every 15 minutes and last approximately one hour. Advance reservations necessary for group tours.

FOLGER (SHAKESPEARE) LIBRARY—201 East Capitol St. NE 6-4800. Exhibit Hall open Monday thru Saturday, 10 a.m.-4:30 p.m. Closed Sunday and Holidays.

FORD’S THEATER, AND LINCOLN MUSEUM—511 10th St. N.W. Open 9 a.m. to 5 p.m. every day. For theater schedule, call 426-6924.

FRANCISCAN MONASTERY—14th and Quincy St., N.E. LA 6-6800. Catacombs and Gardens open Monday thru Friday 8:30 a.m.-4:00 p.m. Tours every 45 minutes. Sundays after each mass until 4:30 p.m.

LIBRARY OF CONGRESS—1st and Independence Ave., S.E. 426-5000. Exhibit Halls open Monday thru Saturday, 8:30 a.m.-9:30 p.m.; Sunday, 11:00 a.m.-9:30 p.m.

LINCOLN MEMORIAL—West Potomac Park, foot of 23rd St., N.W. Open daily, 8 a.m. to Midnight.

MARINE CORPS MEMORIAL (IWO JIMA STATUE)—Route 50 across Arlington Memorial Bridge.

JOHN F. KENNEDY CENTER FOR THE PERFORMING ARTS—On the Rock Creek Parkway and Potomac River at the end of New Hampshire Avenue, N.W. Contains Opera House, Concert Hall, Eisenhower Theater for drama and Film Theater. Call 254-3600 for ticket information. Building open 10 a.m.-5 p.m. for tourists. For group tour information, call 254-3650.

NATIONAL ARCHIVES—7th and Constitution Ave., N.W. 7-8404. —Monday thru Saturday, 9 a.m.-10 p.m.; Sunday, 1 p.m.-10:00 p.m.

NATIONAL GALLERY OF ART—6th and Constitution Ave., N.W. RE 7-4215. Open daily, 10 a.m.-5 p.m.; Sunday, 12 Noon to 9 p.m. September-June Sunday Concerts 7 p.m. in East Garden Court.

NATIONAL GEOPHYSICAL SOCIETY—17th & M Sts., N.W. 296-7500. Open Monday thru Friday, 9 a.m.-6 p.m.; Saturday and Holidays, 9 a.m.-5 p.m.; Sunday, 12 Noon-5 p.m.**

NATIONAL RIFLE ASSOCIATION FIREARMS MUSEUM—16th & Rhode Island Ave., N.W. 783-6505. Open daily, 10 a.m.-4 p.m.

NATIONAL SHRINE OF THE IMMACULATE CONCEPTION—4th & Michigan Ave., N.E. LA 6-8300. Open daily, 7 a.m.-8 p.m.; Sunday and Holy Day Masses at 7, 8, 9, 10, 11, 12 Noon; 1:15 and 4:30 p.m. Guided tours every half hour.

OCTAGON HOUSE—18th & New York Ave., N.W. 936-3105. Built in 1800, this is one of Washington’s most historic houses. Supported by the American Institute of Architects Foundation. Architectural exhibits. Open Tuesday thru Thursday, 10 a.m.-4 p.m.; Sunday, 1-4 p.m.

PAN AMERICAN UNION—17th & Constitution Ave., N.W. EX 3-8460. Open Monday thru Saturday, 8:30 a.m.-4 p.m. Conducted tours 15¢ per person. Gift Shop.

PETERSEN HOUSE (HOUSE WHERE LINCOLN DIED)—10th St., between E & F, N.W. 426-6830. Open daily, 9 a.m.-5:00 p.m.*

SMITHSONIAN INSTITUTION GROUP—628-4422.

AIR AND SPACE MUSEUM—10th & Independence Ave., S.W.

ARTS AND INDUSTRIES BLDG.—9th & Jefferson Dr., S.W.

FREER GALLERY OF ART—12th & Jefferson Dr., S.W.

MUSEUM OF HISTORY AND TECHNOLOGY—12th & Constitution Ave., N.W.

MUSEUM OF NATURAL HISTORY—10th & Constitution Ave., N.W.

NATIONAL COLLECTION OF FINE ARTS—8th & G Sts., N.W. 361-5180.

NATIONAL PORTRAIT GALLERY—8th & F Sts., N.W. 628-1810.

SMITHSONIAN BLDG.—10th & Jefferson Dr., S.W. (Administration)

All above are open daily, 10 a.m.-5:30 p.m. Information on Special Events recorded daily. 737-8611.

SUPREME COURT—1st and Maryland Ave., N.E. EX 3-1640. Open Monday thru Friday, 9 a.m.-4:30 p.m.; Closed Saturday, Sunday and Holidays. Tours every half hour, except when court is in session. Last tour weekdays at 4 p.m.

TRUXTON-DECatur NAVAL MUSEUM—1610 H St., N.W. ST 3-2573. Open every day, 10:30 a.m.-4 p.m. Closed Monday.*

U.S. NAVAL MUSEUM—8th and M Sts., S.E. 693-2651. Open daily, 10 a.m.-4 p.m.

U.S. NAVAL OBSERVATORY—34th and Massachusetts Ave., N.W. 254-4507. Conducted tours at 2 p.m. only, Monday thru Friday. Advance reservations required for groups of 10 or more.

VOICE OF AMERICA—330 Independence Ave., S.W. 755-4744. Tours Monday thru Friday, 9 a.m.-4 p.m.; except 12 Noon on the hour.

WASHINGTON CATHEDRAL—Wisconsin and Massachusetts Ave., N.W. 6-8500. Weekday services 9, 9, 10 Noon and 4 p.m.; Sunday services 8, 9, 10, 11 and 4 p.m. Conducted tours Monday thru Saturday, 10 a.m.-3:15 p.m.; Sunday 12:15, 1:30 and 2:30 p.m. Tomb and Memorial of Woodrow Wilson in National Cathedral. Carlton Rectories Wednesday and Sunday, 12:15 p.m. and 5 p.m. during the summer on Saturday.

WASHINGTON MUNIMENT—On the Mall at 15th St., N.W. 426-6800. Open daily, March 20 thru Labor Day, 8 a.m.-11 p.m.; Labor Day to March 19, 9 a.m.-5 p.m. Elevator fee 10c for visitors over 18.

WHITE HOUSE—1600 Pennsylvania Ave., N.W. 426-1414. Closed Sunday and Monday. Open Tuesday thru Saturday, 10 a.m.-12 Noon; Holidays and Saturdays, April thru August, 10 a.m.-2 p.m. No passes required.

ZOOCOLOGICAL PARK—3000 Connecticut Ave., N.W. 265-1668. Grounds open daily, 6 a.m. to dark; gates close one hour after buildings.