

THE HORN SPEAKER

THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

RADIO PERSONALITIES

PAUL GODLEY

By A. HENRY

IT IS doubtful whether any one human being in radio circles holds the interest of Americans more completely than Paul Godley. Much of this interest is the direct result of the transatlantic amateur transmitting tests completed a short time ago, in which Mr. Godley played the leading rôle, but he has also taken part in other remarkable radio activities.

Before considering these recent events it is interesting to ponder for a moment or two upon the work this man has done for radio in the past.

Paul Forman Godley was born September 25, 1889, at Garden City, Kansas. His interest in radio began about the time he entered Defiance College in Ohio. His studies there lasted for five years. During his summer vacations, Mr. Godley devoted himself to telegraph work with commercial companies and railroads in various capacities, from operator to train dispatcher.

Being interested in communication, it was quite natural for him to become enthusiastic about radio and he studied all the available literature on radio communication published at that time. In 1908 a commercial wireless station was built in Chicago, to which Mr. Godley was assigned by the operating company. Once in a position actually to handle commercial radio equipment, Mr. Godley made every effort to become proficient in its installation and maintenance, as well as its actual operation.

The United Wireless Telegraph Company opened a commercial station at Grand Rapids, Michigan, in the summer of 1909 and Mr. Godley was put in charge.

Later in the same year, an agreement was made with Dodges Institute of Telegraphy, Valparaiso, Indiana, to inaugurate a course in wireless telegraphy over which Mr. Godley had jurisdiction.

In 1911, Mr. Godley was placed in charge of a course in wireless telegraphy at the Collegiate Institute, Port Arthur, Texas, and in 1912 he took up the duties of Wire Chief for the Postal Telegraph Company at their main New York office.

The year 1913 found Mr. Godley on the "Amazon-to-the-Andes" radio service for the Brazilian Government, during which time his

experiences were as varied as they were instructive. In 1914 Mr. Godley returned to the United States, and began a study of research at his home, Leonia, New Jersey, where he devel-



oped the short wave regenerative receiver now so familiar to American radio enthusiasts.

After a winter of experimentation with receiving outfits, Mr. Godley opened a transmitting station (2 ZE) and many exceptional distance records were made during the time this station was in operation. More than anything else this station became widely known in amateur radio circles for its consistency in daylight work. Communication between Albany, Baltimore, and Philadelphia via Leonia was a regular occurrence.

In 1915 and '16 Mr. Godley was called upon by numerous radio clubs and engineering societies to discuss radio problems, and one of the first appreciations of the great possibilities of the vacuum tube and its application to amateur radio was contained in his paper "Applications of the Audion," read before the Radio Club of America in New York City. Most authorities on radio credit Mr. Godley with having taken the Armstrong Regenerative Circuit, for a time considered impracticable for short wave work, and arranged it to function satisfactorily for the amateur.

Toward the end of 1915, Mr. Godley became a member of the Adams-Morgan Company, Upper Montclair, New Jersey, and he is largely responsible for the production of "Paragon Radio Apparatus."

During the war, Mr. Godley served as Designing Engineer at the Marconi Wireless Telegraph Company of America's factory, Aldeen, New Jersey, having charge of receiver design, and the apparatus developed by him during this period for army and navy use has been commented upon very favorably. One particular type of receiving equipment, developed for Signal Corps use, was the only American built apparatus mentioned in the report of the Chief Signal Officer to the Secretary of War.

TRANS-OCEANIC RADIO TESTS

SO MUCH has been said regarding the successful attempt of American amateurs to record their signals in Europe that it is not necessary to go into detail. In brief, Mr. Godley was chosen by the American Radio Relay League to undertake this very important mission and equipped with what he considered suitable receiving apparatus, he left this country and put up a temporary receiving station in Scotland.

Mr. Godley's first attempts to hear American signals were greeted by the English press as more or less problematical and one particular London paper went so far as to ridicule his effort. However, twenty-six American amateur stations were heard during the time Mr. Godley stayed in Scotland; his operations were checked by representatives of radio amateurs in Great Britain as well as executives of large radio companies there.

THE WASHINGTON CONFERENCE

WITH the very marked stimulation in radio communication brought about, no doubt, by the recent development of radio broadcasting, our Government appreciates the fact that existing radio communication laws are not adequate to cope with existing conditions. For this reason, Secretary Hoover called upon a number of radio men to convene in Washington and made suggestions regarding new laws with special attention to the amateur and the radio enthusiasts. When asked for his opinion regarding the conference and its likely outcome, Mr. Godley replied:—

"Brought about by the rapid growth of radio broadcasting, I feel that the conference recently held in Washington developed as fine a working basis as could have been wished by any interest in a very short time. Particu-

lary fortunate were we in having a man of such calibre as Herbert C. Hoover, to steer the course of the commission. On the first day of the conference it had been generally agreed by all concerned that, firstly, for the proper continued growth of the art and industry proper, governmental control was absolutely essential: Secondly—that the order of importance of the various classes of service was (a) insurance of safety of life at sea; (b) radio broadcasting of desirable information and entertainment; (c) a continuance of amateur activities to the fullest possible extent within certain suitable fixed bands and point to point broadcasting to provide communications over stretches where existing systems are impossible.”

A very significant fact brought out at the conference was that material changes in wave lengths are likely to be put in effect in order to eliminate some of the broadcasting problems which now exist. This legislation is highly desirable for at least two very good reasons. Firstly, broadcasting programmes are at present seriously interfered with by “ship to shore” commercial telegraph work even at points remote from the seacoast during certain seasons of the year and with the least selective types of receivers. These programmes are also interfered with to some extent by indiscriminate and improperly regulated amateur transmission. Secondly, broadcasting stations on the shorter wave lengths designed to cover a radius of 150 miles very frequently cover a radius of 1,500 miles and occasionally their range is even greater than that.

This phenomenon which occurs at night during the winter, is known as “fading,” and frequently results in interference and confusion.

It is quite noticeable that fading is comparatively absent on wave lengths of the order of 1,000 or 1,500 meters.

The use of short wave lengths, then, greatly diminishes this reliability of the broadcasting schedules and if broadcasting is to enjoy the very remarkable future which opens up before it, it must be stabilized in every possible manner.

To make broadcasting other than a temporary fad, it must be made dependable and upon its dependability and permanence in the American home rests the future prosperity of those industries built upon it which are now growing so rapidly.

RADIO BROADCASTING HERE TO STAY

REGARDING this very important phase of radio Mr. Godley made the following statement. “There is little doubt in my mind that radio broadcasting is here to stay, and that before many years it will be utilized in as many as five million American homes, for it may very well come to play a part in our lives equalled only by that of the daily, weekly, and monthly periodical.



PAUL GODLEY

Like the moving picture industry, it will need to grow from a crude infancy into something greater and grander than is at present possible—its applications may even surpass in their scope the wonders of the motion picture as we know it to-day.

“But this development is very apt to be much more rapid, for, in a great sense, each broadcast listener will be his own operator, critic, director, and even producer. There will be a great variety to select from, and each of the purveyors of this service will be on the continual lookout for suggestions and criticism.

“Radio broadcasting can never quite become a case of ‘see our picture or stay at home’ and, besides, the Department of Commerce promises to follow radio broadcasting very closely in order to make certain that proper and popular programmes are provided. This is as it should be. One might even allow himself to imagine that some time in the future the popularity of a political party in office may hinge entirely upon the quality of broadcasting service.”

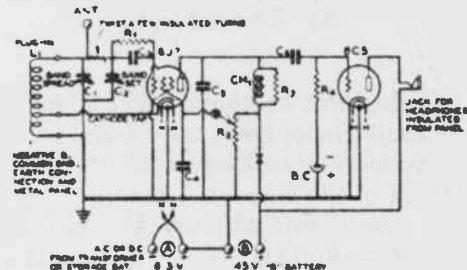
RADIO BROADCAST, May 1922

SEARS

ANTIQUE RADIO BUFFS

SAMS FOR ANTIQUE RESTORATION

See price schedule and ordering information below



Sams—the service data supply center for most home entertainment equipment...covering many trade names

Sams vast files of manufacturers' data dates back to the early 1920's. Sams also maintains complete files of all out-of-print PHOTOFACT® and Special Volume publications. Sams makes copies of this information available to you on request through our unique copying service.

Enhance that conversation piece! Dust it off and with Sams information, restore it to like-new operating condition for increased value.

FIRST PAGE: \$1.00
NEXT 9 PAGES OR LESS: 50c PER PAGE
ADDITIONAL PAGES (IF NEEDED): 35c PER PAGE

Plus \$2 (M) Postage & Handling.
Prices subject to change without notice.

Write or call:
PHOTOFACT TECH SERVICES
P.O. Box 558
Indianapolis, IN 46206
(317) 298-5411

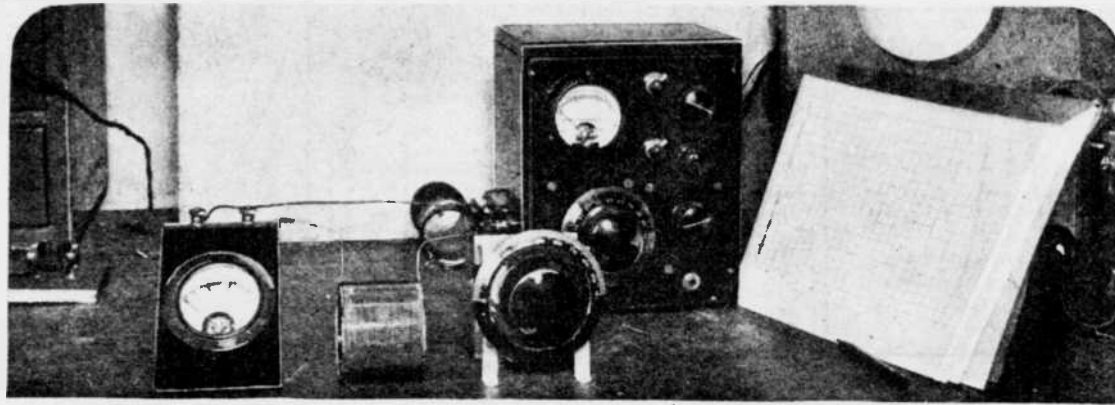
SAMS

POSTAL IDENTIFICATION STATEMENT The Horn Speaker (USPS 956120) is published monthly, except July and August by Jim Cranshaw, N5FSL, 9820 Silver

Meadow Drive, Dallas, Texas 75217. Subscription rates are \$8.50 per year, \$15.00 for two years. Second class postage paid at Dallas, Texas. POST-

MASTER: SEND ADDRESS CHANGES TO MAIL ADDRESS: THE HORN SPEAKER, P. O. BOX 53012, DALLAS, TX 75253-0012. (ISSN 2537-1430)

~RADIO NEWS HOME LABORATORY EXPERIMENTS~



Laboratory apparatus used to obtain the data presented here

Tuned Circuits and How They Function

WHAT happens when we tune a receiver? We turn the dial, one station fades out, another comes in. Why? By this simple question we are brought immediately into direct contact with some of the most fundamental problems in radio. This apparently elementary question is one of the most difficult to explain.

When a radio receiver is tuned the operator demonstrates—although he probably doesn't realize it—one of the most fundamental things in radio—the characteristics of "tuned circuits." We have all seen diagrams of "tuned circuits" such as that indicated in Fig. 1. Here L is the coil, which consists of some 50 to 100 turns of wire wound on a tube, and C is the variable condenser, which consists of a number of metal plates, some stationary and others movable, the two groups of plates being insulated from each other. One of the ends of the wire from the coil is connected to the movable plates, and the other end is connected to the stationary plates. See Fig. 2.

Now we all know (if we don't we can find out by opening up the cabinet of a receiver and watching what happens as we turn the dial) that when we turn the dial of an ordinary receiver we cause the movable condenser plates to turn and mesh more or less with the stationary plates. Evidently this operation of tuning a set has something to do with the position of these plates. We can also determine the fact, by referring to the list of call letters on page 332 of the October issue of RADIO NEWS, that the movable condenser plates are most completely meshed with the stationary plates when we are tuned to some station broadcasting on the longer wavelengths around 500 meters. When we are listening to low wavelength stations around 200 meters we will note that the condenser plates are almost completely out of mesh with each other.

Let us take a coil and a condenser and connect them in series with a meter which will indicate whether there is any current flowing in the circuit. Now suppose we lived but a short distance from some broadcasting station, WEAf for example, whose transmitter

is located on Long Island, N. Y. Now we set up the coil, the condenser and the meter, and as we slowly turn the condenser dial we watch the meter. If we start at the position where the movable plates are all out of mesh we will find that it will be necessary to rotate the dial until the movable plates are about two-thirds in mesh before anything happens. Then we will note that the meter will rather suddenly begin to indicate some current, and that the current will very rapidly increase as the dial is slowly turned. Then the needle of the meter will, for a moment, reach a high point and stop increasing. As we continue to turn the dial the needle will rapidly begin to return to zero. If we were to plot the movements of the meter needle on a piece of cross-section paper, we would get a curve like that of Fig. 3. This is known as a "resonance curve," and the point at which the needle indicated a maximum current is the point of exact resonance. Now when we tune a single control set having several tuned stages, the dial causes several condensers to turn, so that we get the combined effects of several of these "tuned circuits."

In tuning a set we cannot ordinarily measure the current as we did in the preceding experiment, for the currents are too small. But in place of the current we can listen to the loud speaker volume and note that it rises, reaches a maximum and then decreases exactly as did the current. And whenever we tune to a station we will note the same things—a rapid rise, a definite peak and then a rapid fall. Now we have, perhaps, some idea of what happens when we tune the set, and we can picture in our mind the rising and falling currents in the various tuned circuits. But why

do these circuits behave in this manner?

Here we have to get at the meaning of some new terms. We are all familiar with the word "impede." Rust in a water pipe impedes the flow of water through it—and in electrical circuits there are certain things that impede the flow of currents. Just as we could plot a curve showing the impedance offered to the flow of water due to various amounts of rust in a pipe, so with electrical

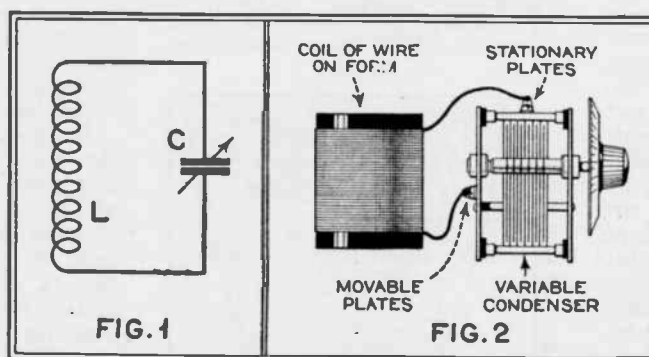


Fig. 1, extreme left, shows a simple tuned circuit. L represents the coil and C the tuning condenser. Fig. 2, to its right, shows in picture form how the parts for such a circuit are arranged

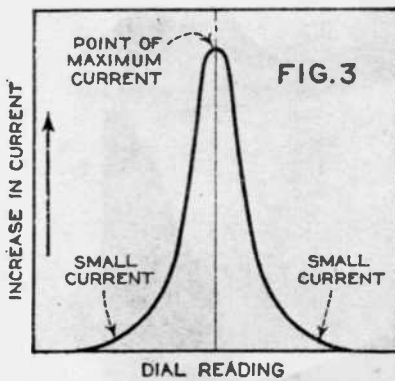
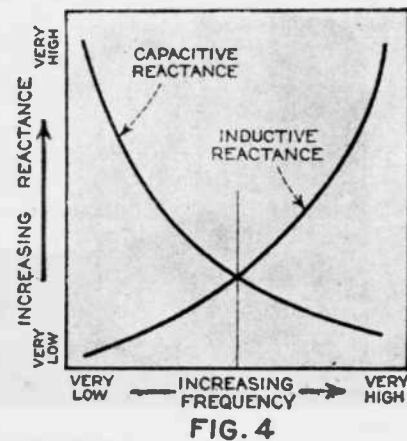


Fig. 3—As a circuit is tuned to a certain frequency the current in the circuit gradually increases to a maximum value and then decreases similarly. A curve of this action would look like that shown to the left

Fig. 4—Capacitive reactance decreases with increase in frequency, while inductive reactance increases. The two curves to the right illustrate this action



electrical impedances, as the following will show.

In electrical circuits the three essential types of impedance are resistance, capacitive reactance and inductive reactance—capacitive reactance is the impedance to the flow of current offered by a condenser, and inductive reactance is the impedance to the flow of current offered by a coil of wire. The latter two types of impedance are not constant but depend on the frequency or wavelength of the current—the impedance due to resistance is fairly constant. At very low frequencies the capacity reactance of a condenser is very large and the inductive reactance of a coil is very small. At very high frequencies the capacity reactance is very small and the inductive reactance very large. That is:

The actual value of either the inductive or capacitive reactance is also a function of the size of the condenser or coil—large condensers have *less* reactance than small condensers, large coils have *more* reactance than small coils. We can therefore vary the impedance either by changing the frequency or by changing the electrical size of either the condenser or the coil.

If the variation with frequency of the reactance of a coil and of a condenser is plotted in the form of curves we get the results given in Fig. 4. Now the laws of electrical circuits are such that the impeding effects of a coil and a condenser have opposite effects on a circuit, so that when they are both in the same circuit they tend to nullify each other. The resulting impedance of a circuit to the flow of current is found by subtracting the inductive reactance from the capacitive reactance. This has been done in Fig. 5. Here we note that at one point, "A," the impedance reaches a minimum value, and that at frequencies either higher or lower the impedance rapidly increases. We also can observe the very interesting fact that if we look at this curve upside down it has a form somewhat similar to that given in Fig. 3 where we plotted the current in the tuned circuit. Just as the greatest amount of water will flow through the pipe that offers the least impedance to its flow, so the point of maximum current in a circuit must correspond to the point of minimum impedance.

This is the point that tells us what happens when we tune a receiver. What we are doing is adjusting the capacity to a value such that, at the frequency of the station we desire to receive, the capacitive reactance is exactly equal to the inductive react-

ance of the coil, so that they cancel each other, the maximum amount of current flows and the signals are loudest.

For those who know algebra, all these facts can be explained by equations. The capacitive reactance is:

$$X_c = \frac{1}{2\pi f C}$$

and the inductive reactance is

$$X_L = 2\pi f L$$

When a circuit is in tune these two effects are opposite and equal. That is

$$X_c = X_L$$

$$\frac{1}{2\pi f C} = 2\pi f L$$

and transposing and solving for "f" we get

$$f = \frac{1}{2\pi \sqrt{LC}}$$

Since all the factors except C are fixed, in tuning we actually determine the capacity C which satisfies this equation, so that the circuit will be resonant to the frequency "f" of the station we want to receive.

The height of the curve of Fig. 3 depends largely on the resistance of the tuned circuit and practically, the maximum current at resonance in a simple tuned circuit is inversely proportional to the resistance of the coil, for the condenser usually has negligible resistance. Therefore *twice* the coil resistance reduces the current at resonance to *half*; if the coil resistance is reduced by a factor of four the current is four times greater. From the standpoint of getting large currents at resonance it is important to use low resistance coils.

It should be realized, however, that the resistance of the circuit has a marked effect on the current only *at or near* the resonant point. At all other points the reactance rather than the resistance determines the current. At a point where the reactance is say of the value of 100 ohms the current will be practically the same whether the coil has a resistance of one ohm or ten ohms. But in most cases we are anxious to get large amounts of current at resonance relative to the currents that flow with the circuit out of resonance and it is for this reason that the coil resistance is important.

Frequency	Inductive Reactance	Capacitive Reactance	Resistance
Very low	Small	Large	Essentially constant
Very high	Large	Small	

Fig. 5—By subtracting the inductive reactance from the capacitive reactance, we find the resulting impedance of a tuned circuit. At "A" minimum impedance is offered by the circuit to the received signal, whereas at points either side of "A" the impedance increases

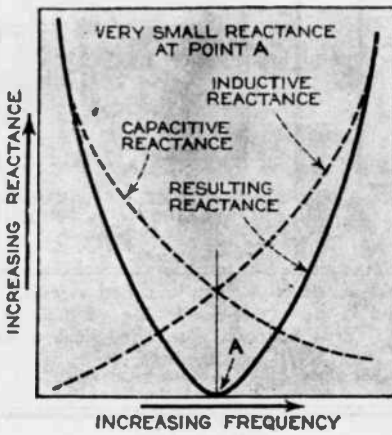


FIG. 5

Mailbox

Dear Jim,

I've just purchased a radio with "unusual" tubes. I've never seen any like them. Perhaps a reader(s) could let me know about them. Could be a collector's item for tube collectors. Here is a sketch.

George Friedrich
7162 Jacquelin Lake
Custer, WI 54423
Tel. (715) 592-4901

Note.... You probably have a McCullough 401, first AC tube patented by McCullough.

Dear sir,

I have in my possession a very rare TV tube. The DeForest tube that made television possible in 1938.

Can you tell me its value.

Althea Pratt
9 High Street
Beacon NY 12508

Note... No, we do not price items for collectors. Thank you for writing.

TECHNICAL MILESTONES

ONE of the greatest and most significant triumphs in the history of radio occurred on the morning of January 21st when the address of King George V of England, opening the Five-Power Naval Conference in London, was carried to the world at large over a globe-girdling network of air waves and wires—a crowning achievement, majestic in scope and epochal in the linking together of nations in a manner hitherto impossible.

In this erasure of space strange tricks were played with man-made time. Tokio tuned in at 8 p. m., while New Yorkers arose at 6 a. m. to listen simultaneously to words spoken in London at 11 a. m. The mariner approaching the international date line might have heard King George's well modulated accents on the evening before they were uttered, and six minutes later listened to the conclusion of the speech on the evening after. But the scientific feat of the greatest of all international broadcasts, to date, inspiring as it is, is merged in the hope which it suggests of carrying the spirit of friendship across the boundaries of land and sea, from nation to nation, by bringing whole populations in audible presence at the seat of peaceful council.

Pickup of the proceedings at the conference was arranged by the British Broadcasting Corporation, which also put them on the air from the G5SW station. The National Broadcasting Company picked up the signals at its Riverhead, Long Island receiving station, whence they were transmitted by telephone wire to the control-room in New York City. From this point they were distributed to fifty-nine stations throughout the country.

The Columbia Broadcasting System received its program

through the shortwave Transatlantic telephone station of the British Post Office, at Rugby, England. It was picked up in the United States by the low-wave station at Netcong, N. J., otherwise used for the trans-oceanic telephone circuit by the American Telephone and Telegraph Company. Telephone wires brought the messages to the New York studios where they were distributed to the network stations.

Undoubtedly this event brought together the greatest audience ever assembled to listen to the same program, a fact alone that makes January 21st red-letter day in the history of radio.

Home Radio Talkies

Home radio talkies, or synchronized sight and sound broadcasting, left the laboratory in commercial form only a short time ago and for the first time have been demonstrated before the public.

That the exhibition was not so much a technical advance as it was a practical exhibition, was emphasized by D. E. Replogle of the Jenkins Television Corporation.

The radio-talkie program for this demonstration was broadcast simultaneously through two stations: W2XCR

which, transmitted from sound films, and W2XCD which broadcast the silent films run through the television pick-up apparatus.

RADIO NEWS FOR APRIL, 1930

ANTIQUUE AUDIO

SALES AND SERVICE

- * ALL VINTAGE RADIOS, PHONOGRAPHS, SPEAKERS, TELEPHONES, TELEGRAPHS, TELEVISIONS
- * TUBES
- * NIPPER DOGS, CERAMIC 2½ IN. TO 12 IN.
- * OVER 1,000 TAPED PROGRAMS
- * LINE CORD, KNOBS, PLUGS, SCHEMATICS
- * PUBLICATIONS. . .Antique Radios: Restoration and Price Guide. . . .Flick of the Switch . . many more

WRITE OR CALL FOR PRICE SHEET

Mastercard, Visa, American Express



HOUSTON, TEXAS 77005 1740 SUNSET BLVD (713) 521-0102



The first commercial home television receiver for tuning in talking motion pictures. Much developmental work remains to be done, but public demonstrations of this apparatus indicate that much may be expected of it in the future

ANTIQUE ELECTRONIC SUPPLY

NEW ITEMS

PARTS FOR CRYSTAL RADIOS

CRYSTAL DETECTOR ASSEMBLY - includes crystal, stand, and Cat's Whisker mounted on board AE-109 \$ 2.25

CRYSTAL HOLDER - stand, arm with Cat's Whisker, screws, nuts, less crystal AE-110 1.25

GALENA CRYSTAL - Mounted, lab tested AE-111 1.00

CAT'S WHISKER - AE-112 2/1.00

TUBE BOXES

Plain white boxes with dividers to cushion tube. Prices apply to quantities of 25 of a size. Order by size designation.

MIN. SIZE (7/8 x 7/8 x 2 15/16)	\$.11ea
GT SIZE (1 5/16 x 1 5/16 x 3 3/16)	.12
LGT SIZE (1 5/8 x 1 5/8 x 5 5/16)	.13
G SIZE (2 1/16 x 2 1/16 x 6 1/8)	.15

NIPPER DOG

9" Ceramic statue of the famous RCA dog. From Japan. AE-108 11.95

RADIOS AND SPEAKERS

New price list of antique radios and speakers available from us. Send business size, self-addressed, stamped envelope.

CAPACITOR SPECIALS

OLD STYLE TUBULAR CAPACITORS - new old stock

.025 MF.	200 V.	\$.15
.22 MF.	200 V.	.50
.22 MF.	400 V.	.60
.001 MF.	600 V.	.25
.0027 MF.	600 V.	.25
.004 MF.	600 V.	.25
.004 MF.	1600 V.	.40

50% off when ordered in quantities of 10 or more, any one type.

*Some are slightly leaky but make excellent by-pass capacitors.

TUBULAR ELECTROLYTIC CAPACITORS

80 MF.	450 V.	1.90
--------	--------	------

TUBULAR HIGH VOLTAGE
(for early TV - 10,000 volt tested)

.005 MF.	5000 V.	4.90
.05 MF.	5000 V.	6.90

TUBE SPECIAL

Type 10, 27, and 71A new in individual cartons - \$2.00 each in quantities of 5 per type.

Minimum order is \$10.00. Add \$2.00 handling, plus sufficient shipping on each order.

SEE OUR 16 PAGE CATALOG FOR COMPLETE LISTING OF PARTS AND TUBES

1725 W. University • Suite 2 • Tempe, AZ 85281 • (602) 894-9503

THE MICHIGAN ANTIQUE RADIO CLUB

PRESENTS A

SWAP MEET

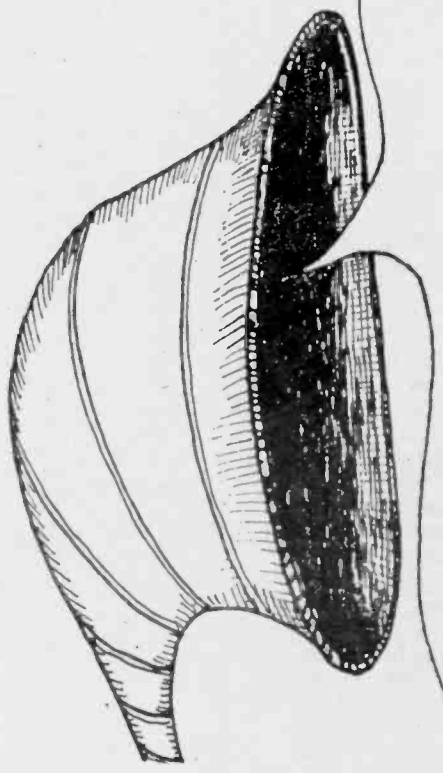
SATURDAY MAY 5, 1984
FROM 8am. TO 1pm.

IN THE MARSHALL STREET NATIONAL GUARD ARMORY

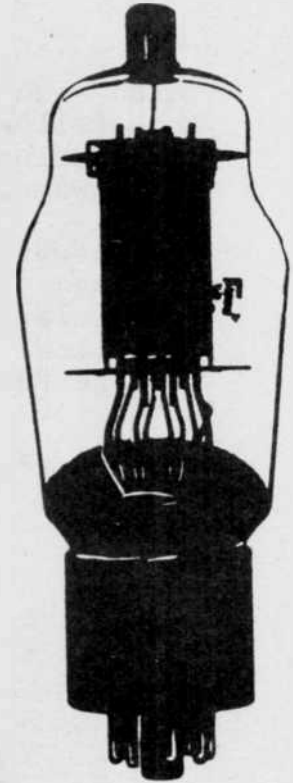
LANSING, MICHIGAN

\$4.00 in advance \$5.00 at the door tables will be provided

for more info. contact: JIM CLARK 1006 PENDLETON LANSING, MI. 48917 PHONE: (517) 323-9595



7,000,000 TUBES



More than 7,000 different types in stock! All unused, tested and fully guaranteed. We have all those precious 'OLDIES' - the tubes you need to get those valued antique receivers back into action.

You can buy the specific tube you need from our catalog and/or one of our great assortments of rare old receiving tubes. These include some of the most frequently used tubes of the 20's, 30's, and 40's. Available while they last at these low-low prices.

- Golden Oldie Assortment #1: 20 different radio tubes \$15.00
- Golden Oldie Assortment #2: 35 different radio tubes \$25.00

Write today for free catalog and special tube offers!

UNITY ELECTRONICS

P.O. Box 213 • 107 Trumbull Street • Elizabeth, New Jersey 07206 • 201-351-4200 TELEX 139403



SAT APRIL 28

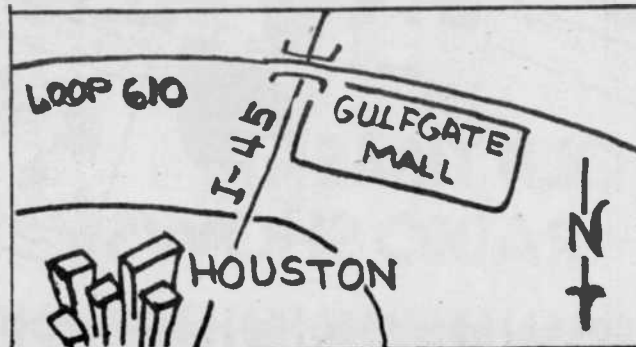
HOUSTON VINTAGE

RADIO ASSN.

PROUDLY PRESENTS

THEIR 5th ANNUAL SHOW + AUCTION

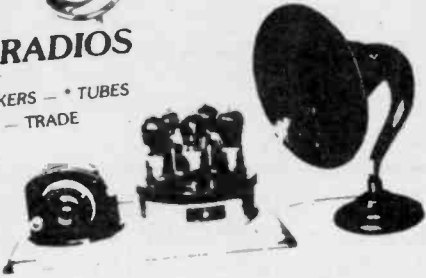
GULFGATE SHOPPING MALL 1-45 AT LOOP 610 SOUTH
 SHOW - 9:00 - 5:00
 AUCTION - 1:30 - 5:00



BULLETIN BOARD

VINTAGE RADIOS

* HORNS - * SPEAKERS - * TUBES
BUY - SELL - TRADE



LORNE BURNETT

#502 Park Towers, 9908 - 114 St.
Edmonton, Alberta T5K 1R1

Telephone: (403) 482-2012

TUBES

PARTS

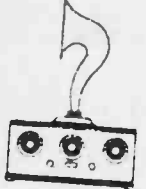
Wanted
Old Radios Made Before
1925

E. A. SMITH

2714 ALDEN ROAD
BALTIMORE, MD. 21234

BRIAN RHODES
OLD RADIO COLLECTOR

I BUY AND TRADE
OLD BATTERY AND AC
RADIOS BEFORE 1940



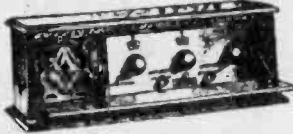
(201) 925-2665

A.W.A. MEMBER

Edward W. Sage
1781 Helene Court
Benicia, CA 94510
(707) 746-5659



Antique Radio Collector



Kent A. King
5028 Dierker Road
Apartment C-2
Columbus, Ohio 43220

Telephone: 614-459-5360

Antique Radio Collector

WANTED
MIRRORED GLASS RADIOS
BLUE PEACH GREEN ETC. BY SPARTON

TROY, MIRRO-RAY, PRATT,
GILFILLAN, REMLER, ETC.

ALSO WANTED:

GRANDFATHER CLOCK RADIOS
BY ATWATER, KENT, ERLA, ETC.

EDWARD W. SAGE
1781 HEVANE CT
BENICIA, CA 94510
(707) 746-5659

REPAIR & RESTORATION OF ALL TUBE RADIOS
OLD RADIOS BOUGHT & SOLD

FOLDENS VINTAGE
RADIO & REPAIR

JOHN H. DEWIT

R.R. 1, Beachville (Foldens Corners)
Ontario Canada N0J 1A0

Day 519-423-6362
Night 519-423-6757

ANTIQUA AUDIO
SALES & SERVICE

DURELL M. ROTH, PROP.
1740 SUNSET, BLVD.
HOUSTON, TEXAS 77005
(713) 521-0102



VINTAGE RADIOS AND PHONOGRAPHS
MONDAY - FRIDAY
9-5

QCWA VWOA SOWP RETIRED MARINE SHIP OPR.
COASTAL STA. RADIO TELEGRAPH OPR. ITT GALVESTON RADIO/KLC

GEORGE J. MACZALI
K5STR

4102 DURNESSE WAY

(713) 664-1570
HOUSTON, TEXAS 77025

176 CILLEY RD.
LANCHESTER, N.H.
1103

RESTORATION
REPAIR

VINTAGE RADIO
SERVICING

(603)
669-1698

-BUY-
SELL - TRADE

CLASSIFIED

AD SPACE:

Full page.....\$65.00

Half page.....\$35.00

Quarter page..\$20.00

Multiple runs....20% discount

Card size.. \$5.00

FOR SALE: NEW RADIO TUBES at old prices. Send a large SASE for the DCL (Dirt Cheap List), example 71A's for \$3.75. Have Atwater Kent parts plus Bosch and FADA. Custom power supplies made for battery sets, send make and model for quote. Stan Lopes, 1201-74 Monument Blvd., Concord, CA 94520.

TUBES. UNUSED, IN ORIGINAL cartons. Also filament and power transformers. Write needs. send S.A.S.E., Fala Electronics. Box 04134-13, Milwaukee, WI 53204.

OVER 100 RADIO ITEMS FOR SALE/
SWAP. SEND LARGE S.A.S.E. OFTEN
FOR LIST. (UPDATED WEEKLY) JIM
CLARK, 1006 PENDLETON, LANSING,
MI 48917..

FOR SALE RADIO RIDER MANUALS,
VOL. 1 TO 23, T.V. VOL. 1 TO 7.
SEND SASE FOR LIST, CLARENCE
STEVANH, BX 576, WISHEK, ND
58495.

FOR SALE- CATHEDRAL, BATTERY
AND A.C. RADIOS. SEND SASE. J.
ALBERT WARREN, BOX 279, WAVER-
LY, PA 18471.

FOR SALE: WESTERN ELECTRIC
215A's tubes. \$15.00 each new
in sealed box, Lee Williams,
22026 3 pl west, Bothell, WA
98021.

SELLING RADIO COLLECTION. Send
S.A.S.E. for list of radio
magazines and books. D. Har-
rison, 714 N. Hague Avenue,
Columbus, OH 43204. Phone (614)
279-4619. No -- collect calls,
please.

DX CRYSTAL, ONE TUBE sets,
kits, plans, handbooks, coils,
supplies. Obsolete tube quo-
tations. Catalog \$1.00; none
free. Laboratories, 1477-II ,
Garden Grove, CA 92642.

TUBES FOR EARLY ELECTRIC RADI-
OS. SASE FOR FREE PRICE LIST.
SAM FAUST, CHANGEWATER, NJ
07831.

HOMEBREWERS- 1/8" glossy black
bakelite panels any size. two
20 cent stamps for sample. BOB,
W6ME, 4178 CHASIN STREET,
OCEANSIDE, CA 92056. PS, NEED
TUNING CONDENSERS FOR NATIONAL
SW-5.

MOVING SALE: VARIOUS RADIOS AND
MISC. FOR SALE. SEND SASE AND
YOUR WANT LIST TO GET MY LIST.
SETS PRICED TO SELL. KENT KING,
5028 DIERKER, APT. C2, COLUM-
BUS, OH 43220.

REPAIR SERVICE. I will restore
that set (tube type or tran-
sistor or auto) like new for
cash or I will trade for tubes
for my services. No job too
small or too big. Experience
runs from Philharmonic Scotts
to Silvertones, over a 24- year
span. SALE. A53-C 1:3 Stancor
interstage, new xformers in
cartons for \$13 ea or 2 for
\$25. OLD RADIO HOSPITAL; P. O.
Box 31555, Houston, TX 77235.
After 7:00 p.m., ask for Maury
at (713) 723-4254.

TUB TESTERS, SIGNAL GENERATORS

AM/FM SWEEP, SCOPES, TO ALIGN
RADIOS AND BLACK AND WHITE TV.
RIDERS RADIO AND TV SERVICE
MANUALS. LIST TE4-84 50 CENTS
AND LARGE SASE. KRANTZ, 100
OSAGE AVENUE, SOMERDALE, NJ
08084.

AVAILABLE MARCH 1ST 1984, ⁴⁻²³⁻⁸⁴ A 1
PAGE LIST OF RADIO LITERATURE.
IT WILL CONTAIN MANY 1920'S AND
1930'S RADIO MAGAZINES, CATA-
LOGS, BOOKS, MANUALS, SERVICE
LITERATURE, AND MISC. PAPER
ITEMS. ---- IN ADDITION THERE
WILL BE A 1 PAGE LIST OF MISC.
RADIO ITEMS SUCH AS RADIOS,
TUBES, TEST EQUIPMENT, PARTS,
ETC. TO GET A COPY OF THIS LIST
SEND \$1.20 IN STAMPS OR MONEY
TO: GARY B. SCHNEIDER, 9951
SUNRISE BLVD., #R-9, NORTH
ROYALTON, OHIO 44133. (NO COP-
IES CAN BE GIVEN FREE DUE TO
THE HIGH PRINTING AND POSTAGE
COST). THANK YOU..

SALE OR TRADE: SPLITDORF 1
\$55.00 -- Music Master 1 \$85.00
-- Mesco 1 \$70.00 -- Westing-
house type FL \$80.00 -- AK
model L, no reproducer, \$25.00
-- RCA 103 speaker \$45.00 --
Weeco Gem crystal set \$85.00 --
Traveler portable \$85.00 ---
will consider any of these plus
Neutrowound AK 567 cathedral, A
C Gilbert crystal set, Lambert
crystal set and Martian crystal
set for any other crystal set
especially Commerce and Nat-
ional Radiophones, Anthony
Caserta, 47 Vista Lane, Levit-
town, NY 11756

A K BREADBOARDS - 10C COMPLETE,
10A MISSING CAN, NEED RESTOR-
ATION \$400.00 FOR BOTH. FOUR
CATHEDRALS \$300.00. MAJESTIC
463 ART DECO \$90.00. SUPERIOR
1240 TUBE TESTER \$20.00. PHILCO
SIGNAL GENERATOR \$15.00. KING-
STON AND KODEL "B" ELIMINATORS
\$20.00 EACH. SASE PLEASE. RAY
MINER, 1215 AVENUE B, FORT
MADISON, IOWA 52627.

HALLICRAFTERS S-20R \$85.00 --
NATIONAL ONE-TEN \$90.00 --
WESTERN COIL AND ELECTRIC RAD-
IODYNE WC-17 BATTERY SET \$75.00
-- NATIONAL SW-3 \$175 (INCLUD-
ING MATCHING HOME BUILT POWER
SUPPLY AND 7 SETS OF COILS;
PERFORMANCE IS SURPRISING)
----- SEND 2 STAMP S.A.S.E. FOR
COMPLETE AND UP TO DATE PHOTO
LIST. RON BOUCHER, 376 CILLEY
ROAD, MANCHESTER, NH 03103,
(603) 669-1698.

FOR SALE: OLD RADIOS AND TEST
EQUIPMENT. SEND LONG S.A.S.E.
FOR PIX PRICE LIST. JOHN MART-
IN, 817 COOK AVENUE, BILLINGS,
MT 59101 (406) 252-4287.

PHILCO MOD 16 CATHEDRAL.
\$175.00, PHILCO MOD. 39-7
\$40.00, ZENITH 1937 MOD GS222
\$60.00, ZENITH MOD 8G05Y TRANS-
OCEANIC \$40.00, WANT PHILCO
620B (AC ONLY). ALL RADIOS SOLD
AS IS, ALL IN WORKING AND GOOD
CONDITION, SHIPPING EXTRA.
WAYNE DIMMLER, 13 MIDTOWN ROAD,
CARLE PLACE, NY 11514 (516)
747-1325. AFTER 6 P.M.

FOR SALE PHILCO CONSOLE with
short wave and 78 RPM changer,
walnut cabinet. Mint condition,
Model 46-1226. Make offer. Bud
Schwab, 20413 Roca Chico Drive,
Malibu, CA 90265. (213)
455-2893.

JOIN THE CALIFORNIA HISTORICAL
RADIO SOCIETY. Journal pub-
lished six times a year, free
ads for members, swap meets
four times a year. Write: CHRIS,
P. O. Box 1147, Mtn. View, CA
94042-1147.

FOR SALE: WESTINGHOUSE RC, RA-
DIOLA V (AR-885), KENNEDY 281,
and others. R.S. Renne, 1020
Idlewild Drive, Dixon, IL
61021.

1. GREBE SYNCROPHASE MU-1, mint
condition inside and out,
working, with tubes \$160.00 -
2. Crosley 51, excellent,
original. working with tubes
\$75.00 -- 3. Crosley 52,
excellent, original, working,
with tubes \$90.00 -- 4. Crosley
Trirdyn. excellent, all orig-
inal, with tubes \$75.00 -- 5.
Crosley IIA, all original,
mint. no tubes \$85.00 -- 6.
Hearldyne TRF, 1925, very good,
with tubes \$60.00 -- 7. Philco
89, excellent, plays weak,
\$80.00 8. Ingram Mantel Clock
Radio. mint condition, radio
and clock work \$180.00 ---
SPEAKERS- 9. RCA UZ-1325 horn,
mint and working, \$60.00 -- 10
Atlas horn, mint and working,
\$65.00 -- 11. Muzette horn,
mint and working \$65.00 12.
Tower Meistersinger horn, base
repainted but looks good, plays
weak \$50.00 ---- Jerry Fina-
more, Rd#2 Box 623, New Castle,
PA 16101 Phone (412) 656-0338.

FOR SALES ESTATE RADIOS, BOOKS,
MAGAZINES, VERY REASONABLE. AK
CELLARETTE, EDISON CONSOLES,
RADIOLA TAPESTRY SPEAKER
\$35.00, COIN OPERATED TRADIO
RADIO \$30.00 -- EMPIRE RADIO IN
SHAPE OF HOUSE \$35.00 -- ALL
PLUS UPS. LIST LONG SASE.
ROBERT AND HELEN CORUM, 125
LOCUST AVENUE, WALLINGTON, NJ
07057 (201) 773-0918.

4-23-84

1931 BRUNSWICK RADIO - phono -
changer. radio needs work
\$250.00 -- W.E. 41A and 42A --
AMP- includes 2 racks, small
horn driver \$400.00 -- 30's
RECORDING LATHE- good for dis-
play \$35.00. -- .1931 BAIRD
(U.S.) MECHANICAL TV. Has in-
structions. accessories, 2/3 of
radio chassis \$300.00. RCA
early 30's MICROPHONE- from the
studios. Prefer trade. WALLY
WOOD, BOX 8153 LA CRESCENTA, CA
91214 (818) 246-1225.

THE WD-11 substitute, type 864
(VT-24), new, only \$5.50 each.
10/ \$50.00 while supply lasts.
Shipped UPS prepaid Continental
U.S. Insurance extra. Leonard
D'Airo. 383 Pittsburgh Avenue,
Massapequa Park, NY 11762.

FOR SALE; USED AND UNUSED RADIO
TUBES as used in the 30's to
50's radios, also radio parts,
send SASE for price list. Elmer
Nelson, 11 S. Church Street,
Princeton, IL 61356.

FOR SALE: OLD RADIOS AND TEST
EQUIPMENT. Send long S.A.S.E.
for PIX price list. John Mar-
tin, 817 Cook Avenue, Billings,
MT 59101 (406) 252-4287.

PHILCO MODEL 90 restored, ca-
thedral. Best offer over
\$200.00. Ronald Hill, 386
Roosevelt Avenue, Lyndhurst, NJ
07071.

WANTED

WANTED: 1 TUBE SETS, CRYSTAL
SETS, GREBE CR EQUIPMENT. RAY
GARNER, ROUTE 1, BOX 320, BIG
SANDY, TN 38221.

ELECTRO- MEDICAL AND QUACK DE-
VICES, BOOKS WANTED. INTEREST-
EDD IN FLOOR MODELS ANDS IN
DEVICES WITH MULTIPLE KNOBS
RESEMBLING RADIOS BUT WHICH ARE
NOT RADIOS. I AM ALREADY SAT-
URATED WITH VIOLET RAY DEVICES,
SIMPLE 4D BATTERIES. PLEASE
DESCRIBE AND PRICE. OLE LINDAN,
1404 DORSH ROAD, CLEVELAND, OH
44121

DETROLA PEEWEE MODEL 219 c.
1939 and MAJESTIC Model 5AK711
c. 1947. Both are small AC/DC
plastic sets. J.W.F. Puett, Box
28572, Dallas, TX 75228.

PHOTOCOPIES OF ANY LITERATURE
ON THE PHILHARMONIC RADIO COR-

PORATION FROM 1936 TO 1943 AND
SERVICE DATA FOR FISHER RADIO
RECEIVERS FROM 1946 TO 1949.
ALSO, TECHNICAL DATA FOR FISHER
MODELS R2 AND TV5. J.W.F.
PUETT, BOX 28572, DALLAS, TX
75228.

WANTED- SCHEMATIC FOR DeFOREST
Interpanel pg. 83 V.R., Tube
cover for Radiola 26. Philco
model 18 chassis, Case for
Federal 110, front panel for
Grebe MU-1, Lee Williams, 22026
3 PL West, Bothell, WA 98021.

RESTORING ST. JAMES EIGHT TUBE
BATTERY SUPER. IF YOU HAVE ONE
PLEASE CONTACT ME. NEED MOSTLY
INFO, SOME PARTS. ALSO WANT
BROWNING DRAKE PARTS. BILL
JELINEK, 128 N. STEVENS,
RHINELANDER, WI 54501.

WANTED: WWI SETS, IP501A, ANY-
THING WIRLESS SPECIALTY, MUR-
DOCK SPARK ITEMS, COLLINS 4A,
30W, 32, 45A TRANSMITTER, PARTS
FOR GREBE CR-5, 9, FEDERAL
DX-58, CLAPP EASTHAM R7, HR,
H7. RICHARD GROSHONG, 6604 KENT
DRIVE NE, CEDAR RAPIDS, IA
52402, (319) 377-3144.

AK 60 KIEL table radio, AK 558
cath., grandfather clock radio,
Emerson Mickey Mouse, Philco 51
cath., Philco Jr., Jackson Bell
54 Peter Pan. Jeff Vance, 1819
West Rovey, Phoenix, AZ 85015.
Include phone number, price and
condition.

WANTED: ONE LATE 1920'S STYLE
0-2000 and 0-12 ohms 2 watt
wirewound potentiometer. Shaft
1/4" by 1". All makes off KINO
lamps and scanning discs. Would
welcome vintage TV collectors
interests in any construction
projects. D'Arcy Brownrigg,
Chelsea, Quebec, JOX 1N0,
Canada.

WANTED: NON-CHROME SCOTT RADIOS
PRIOR TO 1931. ALSO WILCOX LAB,
EMEROLA AND OTHER RADIOS FROM
MICHIGAN. JIM CLARK, 1006 PEN-
DLETON, LANSING, MI 48917.
(517) 323-9595.

EMERSON RADIO COLLECTOR seeks
10" wooden cased early Emerson
TV as well as unusual table
radios and radio phonographs.
Ray Miller, Box 1711, Ocean-
side, CA 92054.

WANTED: MANUAL OR CIRCUIT DIA-
GRAM; Zerox ok for Supreme Di-
agnometer AAA-1. John Martin,
817 Cook Avenue, Billings, MT
59101, (406) 252-4287.

WANTED: RADIOLA 33 LID, Radiola
28 catacomb, RCA Service notes
1923- 1928, AK 47 powr supply.

Jim Conaway, 709 Halstead Road,
Wilmington, DE 19803 (302)
478-5815.

WANTED: WE ARE LOOKING FOR OLD
ELECTRON TUBES. Our buying
prices are: 2A3 \$6.00 -- 45/
145/ 245/ 345 \$10.00 -- 50/
250/ 350 \$12.00 -- VT-52 \$6.00
-- VT-62 \$4.00 -- 202 \$10.00 --
203A \$10.00 -- 210 \$10.00 --
211 \$10.00 -- 224/ 227 \$4.00 --
242C \$15.00 -- 82 \$4.00 -- 83
\$4.00 -- 280 \$8.00 -- 281 \$8.00
-- 845 \$20.00 -- 5691/ 5692/
5693 \$6.00. For all the tubes
that are originally boxed, es-
pecially antique shaped tubes
that are RCA boxed, we will pay
extra charge of a \$1.00 or
more. About used tubes please
contact us. ---- Western Elec-
tric brands: VT-1 \$15.00 --
VT2/ 205B/ D/ E \$12.00 -- 101D/
F / 102A/ D/ F/ G (only antique
glass 101 and 102) \$12.00 --
211A/ E \$20.00 -- 212D/ E
\$30.00 -- 242A/ C \$20.00 --
252A \$20.00 -- 262A/ B \$6.00 --
274A/ B \$12.00 -- 275A \$20.00
-- 284D \$25.00 -- 300A/B \$50.00
-- 301A \$8.00 -- 339A \$8.00 --
350B \$15.00 ---- P and C
Electronics, 4-12-14 Yushima
Bunkyoku, Tokyo, Japan 113

"WANTED- ZENITH console radio
with push buttons and organ
tuning buttons, made in late
30's. (213) 455-2893. Bud
Schwab, 20413 Roca Chica Drive,
Malibu, CA 90265.

WANTED: Collector wants ADAMS-
MORGAN and/ or PARAGON equip-
ment, detectors, and litera-
ture. Randy Renne, 1020 Idle-
wild Drive, Dixon, IL 61021.

WANTED: OLD RCA, CUNNINGHAM,
WESTERN ELECTRIC, TUBES, AMPS,
SPEAKERS, MCINTOSH, MARANTZ,
AMPS. (713) 728-4343, MAURY
CORB, 11122 ATWELL, HOUSTON, TX
77096.

CABINET FOR KENNEDY XV. 4 prong
analyzer cable for Supreme or
Readrite. 2 good WD-11 tubes.
John Martin, 817 Cook Avenue,
Billings, MT 59101.

DIAL PLATE FOR G.E. RADIO M51A,
approximately 4 5/3 X 5/8
top-18 meg to 5.5 meg -- bot-
tom- 1800 KC to 500 KC. Don't
wash even with water- numbers
came right off. Art Corbus,
5704 11th Avenue, N.W.,
Seattle, WA 98107.

WANTED: C.R.L. PARAGON and
other early CHICAGO RADIO LAB-
ORATORY equipment. Randy Renne,
1020 Idlewild Drive, Dixon, IL
61021.

--

**Radiofest
'84**

**The National Conference
of
The Antique Radio Club Of America**

**June 21-22-23, 1984
at
The Holiday Inn - Elgin, IL.
345 River Rd.**

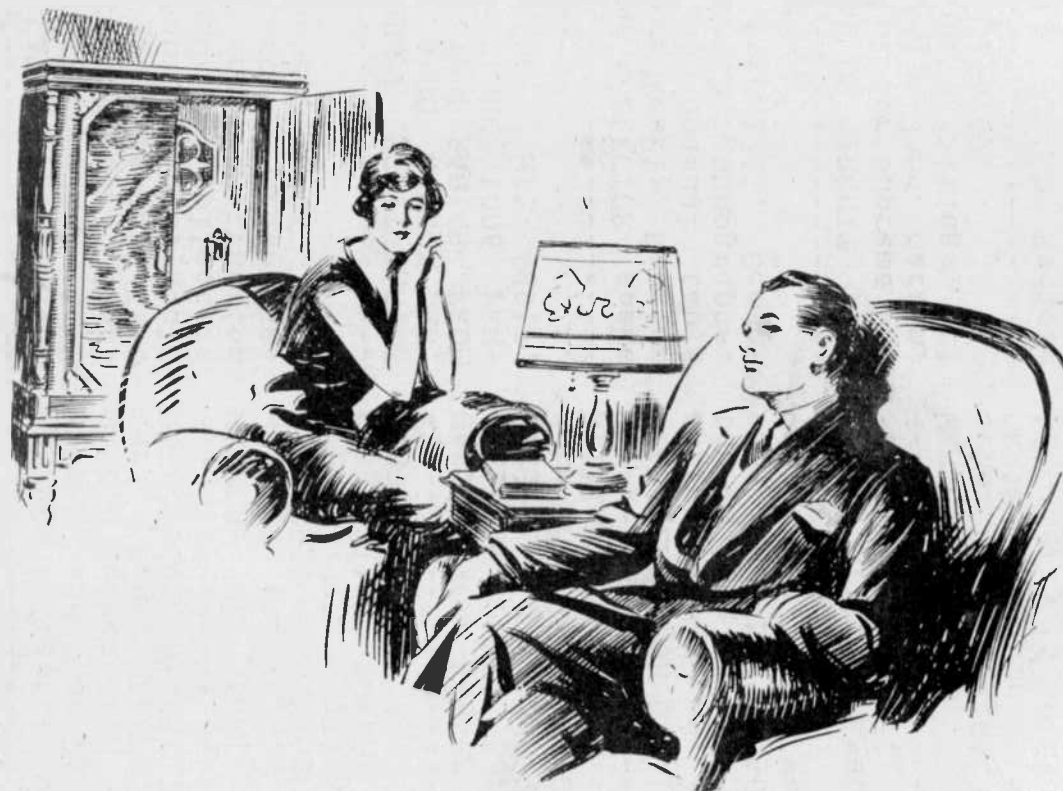
**Featuring...
A Grand Tour of Dr. Ralph Muchow's
Fantastic Radio Museum
For Motel Reservations - Contact:
The Holiday Inn - 312-695-5000**

**For Convention information - Call or write:
Joe Willis
P.O. Box 14732
Chicago, IL. 60614
312-871-3928**

APRIL

THE HORN SPEAKER

1984



MR. GLENN MC CRODY
924 WEST SIXTH
STORM LAKE IA -50588
**5984
73