

16th ANNIVERSARY ISSUE

ANTIQUE RADIO CLASSIFIED

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NUMBER 6

**GOLDEN-LEUTZ** INC.

NEW  
MODELS  
for  
1927

BY  
**GOLDEN-LEUTZ, Inc.**  
SIXTH AND WASHINGTON AVENUES  
LONG ISLAND CITY, N. Y., U. S. A.

MANUFACTURERS OF THE HIGHEST GRADE  
RADIO APPARATUS IN THE WORLD

A.R.C. — THE NATIONAL PUBLICATION FOR BUYERS AND SELLERS  
OF OLD RADIOS AND RELATED ITEMS — PUBLISHED MONTHLY

## ANTIQUE RADIO CLASSIFIED

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# ANTIQUE RADIO CLASSIFIED



## EDITOR'S COMMENTS

Anniversaries always prompt reflection. Sixteen years is a long time for a specialty publication to exist in a competitive market, and we have reason to be proud of our achievement. But, though we know how far we have come since 1984, we also know that the pressure is on to answer key questions: Where should we be going in this rapidly changing computerized world, and how can we retain your support for the services we offer — services tailored to the radio-collecting community?

Service has always been the essence of A.R.C. What is different about our service is that it is not always based on the bottom line. In fact, we deliver what you ask for, not necessarily what is most profitable to us. For example, our books are not always selected for profit like the offerings of a big Internet distributor. Instead, we choose to let the most profitable books support those that may fill the particular needs of a smaller group of collectors.

We also provide a calendar of events, regional club listings, articles on a wide range of subjects, supplier and service information, and a central clearing house for ideas and memories. Some clubs may do what we do quarterly, but A.R.C. tries to report in a more timely and comprehensive way.

A.R.C. offers in a direct, personal way what cannot always be found easily on the Internet — an intimate knowledge of the subject and a resource to answer your questions. In addition, we and our advertisers are clearly identified by name and address.

We do not want to forfeit these values — values that are so much a part of A.R.C.'s identity. To retain them we need your support. Your ads are as vital today as they were in 1984 when Gary Schneider hit on a great idea — a free ad with your subscription. Yes, the Internet is a wide resource, and you may elect to trade there for free. However, you may also trade using A.R.C., both in the magazine and on the Net.

Our lead article is a good example of what we do that is special. When Robert Kitchel submitted a photo of his huge Leutz Model L-6 to Photo Review, staff member Dave Crocker recognized it as something unusual. He encouraged Robert to write more about his set. Then, a Golden-Leutz catalog surfaced in my collection, and Ray Bintliff used it to write more about the company. Before we knew it, a 6-page article had developed.

Ray Bintliff's follow-up on his adventures in early TV is a sample of another familiar A.R.C. theme — insights into the past from people who were there. Remember Cortlandt Street and the many responses those articles evoked? Recently, the Arrow Company contacted us for a photo of its Cortlandt Street store. Again we were delighted to provide a service.

A short article by John Provan asks for contributions to an American Forces Network (AFN) display being mounted in the Allied Museum in Berlin, Germany. The article tells us how far-reaching our radio community is, and how A.R.C. is often the connecting link.

When Carlos Gimenez, Sr., wrote hoping to find the original owner of his inscribed Zenith portable, we were

ready to help. However, his son moved first and made a surprise connection with the owner — all of which makes a satisfying story of loose radio ends tied up.

Donald Bisbee offers an interesting solution to a common problem many of us have had with deteriorating old recorded tapes. Though we haven't had a chance to test the process, you may want to give it a try.

It's great news that another club has taken steps to broaden the appeal of radio meets. Two-thirds of the Radiofest meet this year will be held on the weekend.

A tradition of Radiofest has been the tour of the Muchow Museum. Sadly, Dr. Muchow passed away in March, and we memorialize his contribution to radio collecting in a "Collector Profile." Our deepest gratitude to his son Steven for contributing this article.

Jerry Wieland's article on his Internet-assisted restoration project is exactly what we mean when we talk about integrating the traditional values of A.R.C. with the new world of the Net. Jerry used our Web site to connect with Russian and Swedish collectors to find out more about his Latvian-made Riga B417. And on another international note, thanks to staff member Tammy DeGray for putting together a *Club Spotlight* on a club in France that is celebrating its 25th anniversary.

Jim Boellstorff reports on the 10th annual Harris auction where 150 buyers bid on 500 lots. Prices were good — many items sold in the \$500 range.

*Photo Review* offers a wide variety of sets from the 1920s to the 1950s and *Radio Miscellanea* contains a welcome kudo, responses to articles, and pleas for information. Richard Gleitz's prophetic 1934 birth announcement was irresistible.

The Internet. Classified ads are back on the Net! After about six weeks of repairing our Web site with Super Glue and baling wire, we assure you that you can access the ads again. You'll find the process faster, though not as flexible as we'd like. Still, it will tide us over until we can get it absolutely right. So go to it!

Coming Radio Events. June is the heart of the summer meet season. Start with the SARS Meet in Georgia, the IHRS Spring Fling in Indiana, MAARC's RadioActivity in Maryland, the CARS RadioRama in Kentucky and end with the REPS Radio Showcase in Washington. Take one of these summer weekends and travel to a meet; you'll be glad you did.

Our 17th Year: So, here we are moving into our 17th year, feeling nostalgic about the successes of the past and looking optimistically ahead. We are grateful for your loyal support and encourage you to continue it with your ads, purchases, letters, articles and photos. They will keep A.R.C. alive and well for many years to come. Happy Collecting!

John V. Terrey, Editor

## ON THE COVER

This month's cover is from the Golden-Leutz, Inc. catalog of new models for 1927. The 76-page catalog is the basis for Ray Bintliff's addendum to our lead article on Kitchel's Universal Trans-Oceanic set.

# WITH THE COLLECTORS

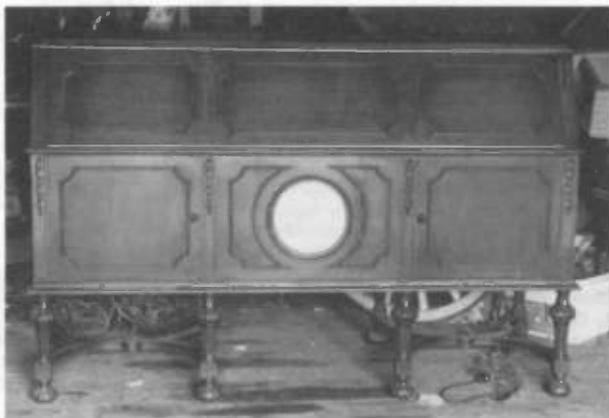
## Leutz Universal Trans-Oceanic Type L-6 One-of-a-Kind Console Version

BY ROBERT G. KITCHEL

*Radio treasures show up almost anywhere. Certainly Robert Kitchel has found a rare one, and so large that it would be difficult to hide even in a "shanty" in rural New Hampshire. Robert concluded that to examine the insides of this formidable set would be too difficult at this time, so Ray Bintliff has added information based on the Golden-Leutz catalog pictured on our cover. (Editor)*

While recently traveling in New Hampshire, I discovered a unique piece of radio history in an old shanty between Whitfield and Lancaster. It is a 65" long, 8-legged console radio manufactured by C.R. Leutz, Inc. of Altoona, Pennsylvania. It is shown with the front cover lid closed in Figure 1 and open in Figure 2. The Bakelite nameplate identifies it as the "Universal Trans-Oceanic Type L-6, Serial Number X-87." Weighing about 250 pounds, the set has a solid mahogany cabinet, which is 43" high and 24" deep.

The center section of the lower cabinet contains the speaker. The upper section consists of five metal radio panels, each connected by metal binding post straps. The first panel at the far left is shown in Figure 3. Unlike some of the other

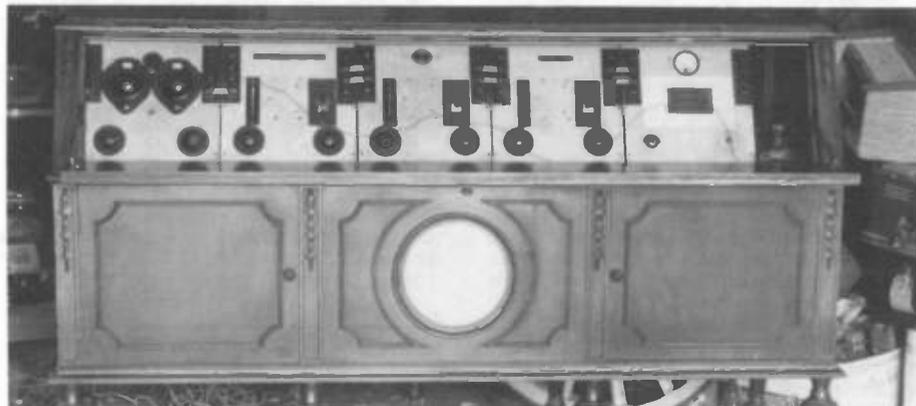


*Figure 1. The multiunit Leutz Model L-6 in its massive cabinet shown here with the front cover lid closed.*

panels, it lacks identification.

This panel includes a rotary on/off switch above the two vernier tuning dials. These two tuning dials are marked "Selector 1" and "Selector 2." They are calibrated from 0 to 100. A toggle switch marked "On/Off" is mounted below the tuning knobs. The two controls located near the bottom of the panel are marked "Antenna" and "RF Bias."

The second panel from the left, shown in Figure 4, is identified as containing the "First RF



*Figure 2. The Leutz Model L-6 shown here with the front cover lid pulled down in the open position.*

Stage" and the "Second RF Stage." The thumb-wheel dial at the left marked "Increase" drives the drum-style tuning dial located on the right side of the panel. The dial is calibrated from 0 to 100 but strangely enough it is labeled "Kilocycle." The control just below the thumb-wheel carries the legend "RF Bias." The knob below the tuning dial is labeled "Resonator."

Figure 5 shows the third panel. This panel's function is not identified, but it may be the third and fourth RF stages. The thumb-wheel and drum-dial combination are like those used in the second panel. However, this third panel has a tuning eye tube at the top, an unusual feature for an early radio. This panel also contains a "Resonator" control and an "RF Bias" control, but their positions are reversed from those used in the second panel.

The fourth panel, shown in Figure 6, is identified as the "Detector Stage." The layout of this

panel is the same as the third panel, except for the tuning eye.

The function of the fifth panel, shown in Figure 7, is not identified. But, the presence of the 250 mA meter suggests that it might contain a power supply. The phone jack at the lower left is marked "Output" so there may be an audio amplifier behind this panel. The toggle switch at the right is a conventional on/off switch.

Most significantly, a nameplate that identifies the radio as a Leutz Universal Trans-Oceanic, is attached to this panel. A close-up view of the nameplate is shown in Figure 8. To the extreme right is an open area for what seems to be a sixth panel, which is missing.

The previous owner of this unusual console told me that only three Universal Trans-Oceanic  
(Continued on following page)

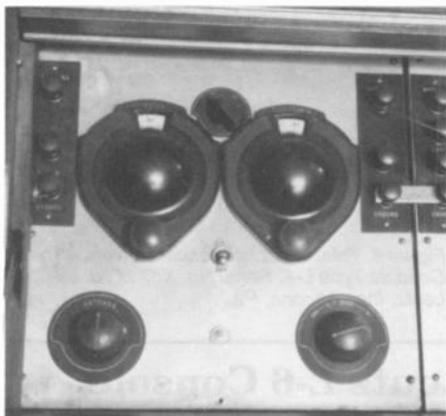


Figure 3. This assembly lacks a nameplate and its function is not clear, but its basic layout and dial plates are similar to other units in the radio.

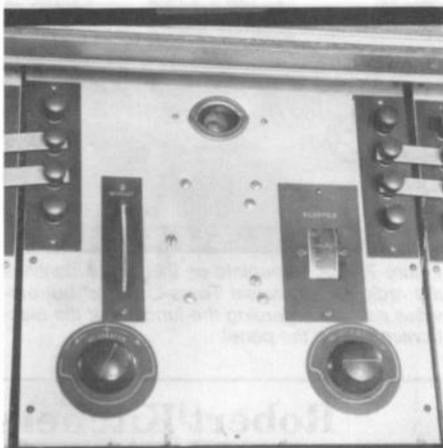


Figure 5. This panel also lacks a nameplate, and the positions of its RF bias and resonator controls are transposed as compared to the panel shown in Figure 3. In addition, a tuning eye is used.

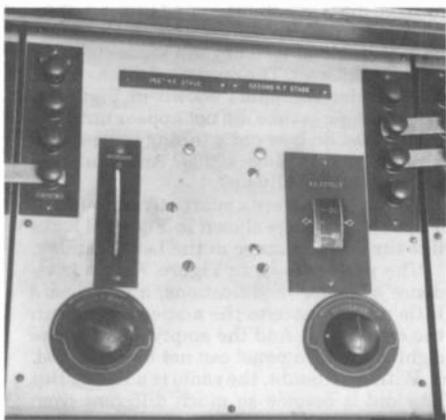


Figure 4. Identified as the First and Second RF stages, this unit has a thumb-wheel tuning control and dial. The controls at the bottom of the panel are marked "RF Bias" and "Resonator."

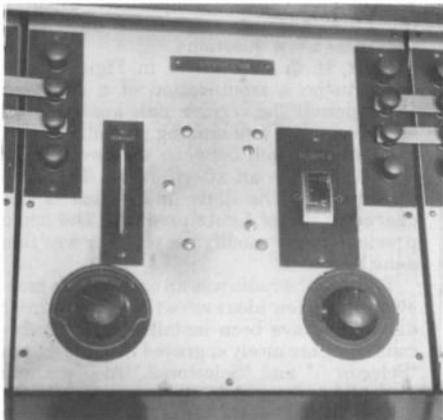


Figure 6. This panel's nameplate reads "Detector Stage" and, except for the tuning eye, the layout is the same as that of Figure 4.

(Leutz L-6 Console, continued)

models were built, and that he thought two of them were destroyed sometime during World War II. This particular set has a number "1" stamped on the back of its case.

He also told me that this Leutz supposedly had been ordered by the King of Belgium, but was never delivered. Maybe so, because whoever took ownership of this monster receiver would have had to have a large residence in order to

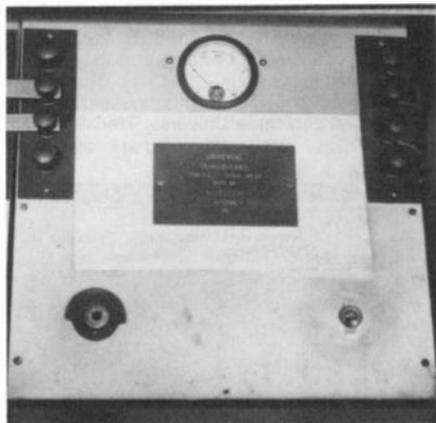


Figure 7. The nameplate on this panel identifies the radio as "Universal Trans-Oceanic" but provides no clue regarding the function of the electronics behind the panel.

display it. If any readers can shed more light on this unusual piece, please write to A.R.C.

(Robert Kitchel, Box 87, Danville, VT 05828)

Robert Kitchel, a longtime Vermonter, became fascinated with radio when listening to his grandfather's old black-dial Zenith, which he inherited and still has. A Fairbanks tombstone at a flea market caught his eye because his grandfather had worked for the company. An old radio man helped him to get it going and then began to teach him everything he knew about radios. That was the beginning of a lifetime of challenging projects and contacts with great radio people.

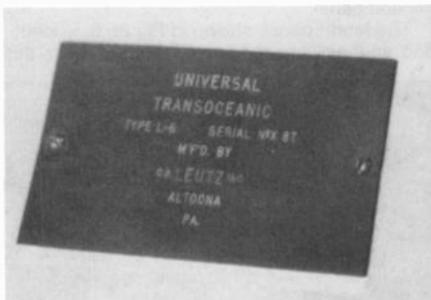


Figure 8. This nameplate reads "Universal Trans-Oceanic Type L-6, Serial No. X87 M'd. by C. R. Leutz, Inc., Altoona, Pa."

## Robert Kitchel's Leutz L-6 Console

ANALYSIS BY RAY BINTLIFF

Robert Kitchel's radio and the Universal Trans-Oceanic described in the 1927 Leutz catalog, as well as in the following article, have many features in common. But Kitchel's radio also has some significant differences that raise a few questions.

First, the panel shown in Figure 3 appears to be a modification of a standard Leutz panel. The vernier dials are squeezed in between the two binding post strips, and the rotary switch between the two vernier dials looks like an afterthought. The close placement of the dials and switch is not characteristic of Leutz products. Did some previous owner modify the panel or was this done by Leutz?

Perhaps the radio was an engineering model on which new ideas were tried. The vernier dials may have been installed by Leutz because they are nicely engraved with the names "Selector 1" and "Selector 2." Also a Leutz switch plate is used for the rotary switch.

More significantly, what did this unit do? It has an RF bias control, so there must be an RF amplifier inside. Is it a preselector? If

the nameplates can be believed, the 1st RF is in the adjoining unit.

Even more questions spring to mind. Why did Leutz combine the 1st and 2nd RF stages in a single unit? They are separate units in the catalog set. The mystery deepens when we consider the panel shown in Figure 5. The tuning-eye tube did not appear until the mid-1930s. So how did a tuning eye get into a radio from the late 1920s? And when did Leutz, Inc., go belly up?

Some things were apparently untouched. The detector stage shown in Figure 6 looks like the detector stage in the Leutz catalog.

The panel shown in Figure 7 shows evidence of major modifications, and it bears little resemblance to the audio amplifier in the catalog set. And the empty space to the right of the fifth panel can not be explained.

Without a doubt, the radio is a Leutz. But how did it become so much different from the radio described in the Leutz catalog? Maybe some A.R.C. readers can help to solve this puzzle. Or perhaps Robert will someday get to examine the innards of his set.

# Golden-Leutz and the Universal Trans-Oceanic

BY RAY BINTLIFF, W1RY



Figure 1. The impressive Universal Trans-Oceanic. Each of the six units is housed in fully shielded cabinets. There are enough controls to satisfy any "knob-twister." This and the other illustrations in this article are taken from the Golden Leutz catalog.

Robert Kitchel's article about the Leutz L-6 piqued John Terrey's curiosity and sent him scurrying to his and the A.R.C. library to look for more on Golden-Leutz, Inc., and, as so often happens, one piece of information led to another. His findings — the Leutz catalog and other references — are the basis for this article.

Charles Leutz developed an early interest in radio and obtained his Amateur license at the tender age of 14. His early experiences have been well documented elsewhere and will not be repeated here. The references listed at the end of this article are excellent sources of information about Leutz and his companies. However, it should be noted that in 1921 he formed the Experimenters Information Service to sell blueprints and construction data to radio Amateurs and other set builders.

Golden-Leutz, Inc. was created in May 1921 and the Experimenters Information Service became part of the new corporation. Leutz was its president and his partner was Claude Golden. The company was located in the Long Island City section of Queens, a borough of New York City. The name of the company was changed to C. R. Leutz, Inc., in February 1927, and in October 1929, the company relocated to Altoona, Pa.

The company's catalog for the 1927 model year is dated June 1926 and still carries the Golden-Leutz name. The catalog proclaims Golden-Leutz to be "Manufacturers of the Highest Class Radio Apparatus in the World." Several new models were offered in its 1927 line, but the Navy Model Universal Trans-Oceanic receiver, also called the Silver Ghost, is of particular interest here because of its similarity to the radio discovered by Robert Kitchel.

## UNIVERSAL TRANS-OCEANIC

The Universal Trans-Oceanic, with a price tag of \$950, was clearly the company's top-of-the-line set. In its 1927 catalog, Golden-Leutz hailed the radio as "The Most Powerful Broadcast Receiver in the World." Evidently, modesty was not one of the company's strong traits. But such advertising hype was not uncommon during that period.

The radio, shown in Figure 1, is impressive

because of its size (6 feet in length) and orderly panel layouts. It is no lightweight, as it weighs in at 140 pounds. In defending the radio's size, the Golden-Leutz catalog states, "The Universal Trans-Oceanic has been designed for universities, broadcasting stations for relay purposes, and true amateur experimenters who want to secure maximum results regardless of the number of tubes and batteries required or the space occupied."

The radio's specifications are equally impressive. By means of plug-in coils, the radio tunes from 3,600 meters to 35 meters, or about 80 kHz to 8 MHz. It is a 4-stage TRF set with a detector and 4 stages of "Distortionless Audio Frequency Amplification."

As Figure 1 shows, the receiver consists of 6 separate units, each housed in individually shielded cabinets. From left to right these units are the 1st RF stage, 2nd RF stage, 3rd RF stage, 4th RF stage, detector stage, and a 4-tube audio amplifier. Binding posts and metal straps are used to make the electrical connections between the units. Each unit contains its own B batteries. The radio's hook-up diagram calls for a 6-volt storage battery as the filament voltage for all units and a cone-type speaker 3 feet in diameter.

Although there are 5 main tuning controls for the 1st RF through the detector stage, these individual controls may be ganged mechanically by means of universal joints to achieve 1-knob tuning. When ganged, the Resonator controls are used to fine tune each stage. When not ganged, each resonator control is set to its mid-position and each stage may be individually tuned for best reception of the desired station.

## THE 1ST RF STAGE

Figure 2 provides an external view of the 1st RF Stage. The binding posts at the top left serve as the antenna and ground connections. The thumb-wheel turns the variable capacitor and the tuning dial at the right. The controls at the bottom of the panel are the antenna coupling switch at the left, and the filament rheostat on the right.

An internal view, Figure 3, shows the components of the 1st RF stage. Note the tube and tube socket on a raised mounting and the transverse-

(Continued on following page)



Figure 2. Front panel view of the 1st RF stage with its cover in place. The antenna and ground binding posts are located on the top left corner of the unit. The binding posts on the right make electrical connections to the 2nd RF stage. The thumb-wheel dial, center left, is mechanically linked to the tuning dial, center right, and the variable capacitor. The antenna coupling switch is located at the bottom left, and the filament rheostat to control RF gain is located at the bottom right.

(Golden-Leutz, continued)

mounted tuning capacitor. The RF coil is in the background and the filament rheostat appears in the lower left corner. The filament rheostat controls RF gain. Two Eveready B batteries are positioned at the rear of the unit. Each of the four RF stages use a single Type UX201-A tube. Plate voltage for the RF stages is 45 to 120 volts.

### THE 2ND RF STAGE

The 2nd RF stage is similar to the 1st unit. Figure 4 provides another view of the transverse-mounted tuning capacitor as well as a plug-in coil removed from its socket. A vernier tuning capacitor or resonator is visible on the lower right side

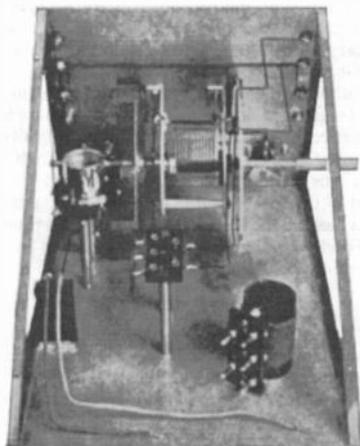


Figure 4. This internal view of the 2nd RF stage with batteries removed shows the raised tube and coil sockets. Note the transverse mounted variable capacitor with its shaft extension used to link it to the adjoining units.

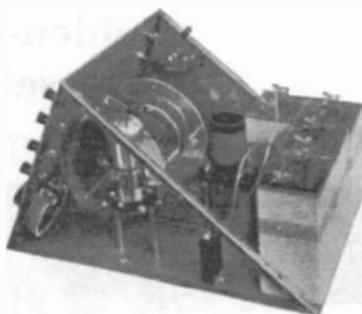


Figure 3. This internal view of the 1st RF stage shows its sloping front panel and components. The tube is mounted on standoffs to minimize capacitance effects. This unit, like all of the others, contains its own B batteries.

of the front panel. The B batteries have been removed in this photograph.

### THE 3RD AND 4TH RF STAGES

These units appear to be identical to the 2nd RF stage. A view of the 3rd RF stage is shown in Figure 5. The large disk on the right side is the thumb-wheel. This metal disk also serves to shield the tuning capacitor. In its catalog, Leutz emphasizes the use of extensive shielding to prevent feedback and oscillation.

### THE DETECTOR STAGE

The detector stage differs from the RF stages in that it uses a Type UX200 tube and a plate voltage in the range of 16 to 22 volts. External and internal views of the unit appear in Figures 6 and 7.

### THE AUDIO AMPLIFIER

This 4-tube amplifier, shown in Figures 8 and 9, uses one Type UX112 tube in the 1st audio stage and a Type UX201-A in the 2nd and 3rd audio stages. Either a Type UX171 or UX210 is

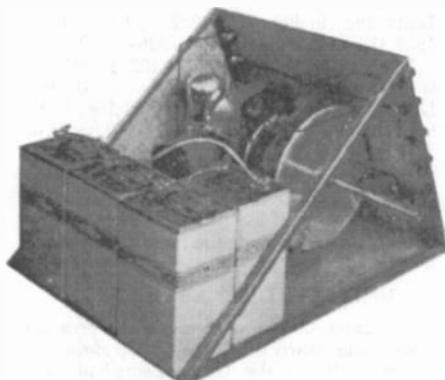


Figure 5. Golden-Leutz placed great importance on the use of extensive shielding. This view of the 3rd RF stage shows the metal thumb-wheel that also serves as a shield for the variable capacitor.



Figure 6. This external view of the detector stage shows it to be similar to the 1st and 2nd RF stages, except that it has an added control knob at the bottom center of the panel. The three controls are marked "Resonator", "Detector Plate", and "Filament."

recommended for the audio output stage. The appropriate plate and bias voltages will depend on the type of output tube used. The controls at the bottom of the panel are filament rheostats that control the gain of the AF stages.

#### SCHEMATICS FOR THE CURIOUS

Page 447 of the 1931 edition of John Rider's *Trouble Shooter's Manual* contains a schematic diagram for the battery-operated Universal Trans-Oceanic. A schematic for the AC-operated version can be found in Rider's Volume I on the Leutz page 1-1.

#### SOME ADDITIONAL THOUGHTS

Looking at the schematic for the battery-operated set makes one wonder about the cost of equipping and replenishing the batteries for this radio.

The use of plug-in coils give the radio a wide tuning range, but changing coils in all five tuned circuits must be time consuming.

On the positive side, there is no question that the radio is well shielded, and good selectivity results from the 5 stages of tuned RF (4 RF and 1 detector stage). Tracking the 5 stages must have been a challenge for its designer and the resonator controls were his way around the problem.

Considering the state of radio design and per-

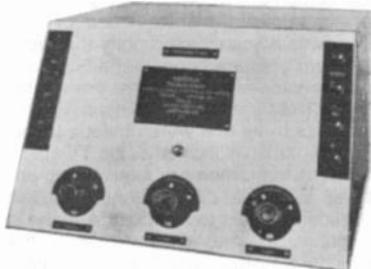


Figure 8. The radio's nameplate is mounted on the front panel of the audio amplifier unit. The controls at the bottom are filament rheostats.

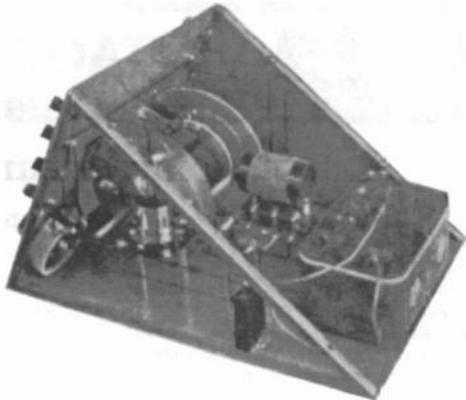


Figure 7. This internal view of the detector stage shows it to be similar to the 2nd and 3rd RF stages except that it uses a smaller battery.

formance in the mid-1920s, the Universal Trans-Oceanic must have been a powerful radio. Perhaps the Golden-Leutz claim that it was "The Most Powerful Radio in the World" was not an overstatement.

The use of the name Trans-Oceanic is interesting. Who was the first to use it? Leutz or Zenith?

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(Ray Bintliff, 2 Powder Horn Ln., Acton, MA 01720)

Ray Bintliff holds an Amateur Extra Class license. A retired engineer, he enjoys repairing and restoring pre-1945 radios and test equipment. In addition to Amateur Radio, his interests include electronic equipment design and audio reproduction.

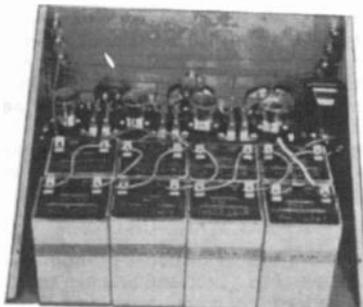


Figure 9. This internal view of the audio amplifier shows its components and the 8 batteries that are required to operate it.



# VINTAGE TELEVISION

## More Adventures in TV Land

BY RAY BINTLIFF

*As the title indicates, this article provides more tales from the early days of television when the public was still adapting and reacting to this new medium — sometimes in strange ways. In this article, Ray recalls some of his experiences as manager of an RCA TV service facility in the late 1940s.*

First, let me express my appreciation to the many A.R.C. readers who commented so favorably on my first article "Adventures in RCA TV Land" that appeared in the June 1999 issue.

### SOME CHUCKLES ALONG THE WAY

While there were technical challenges and the usual working day hassles in the TV service business, there were humorous events that livened up the day. Dealing with the public on a daily basis was never dull or easy. For example, there was the frantic call from the owner of a new TV set. He claimed that since his set had been installed, his neighbors were able to observe his daily activities on their TV sets. Scary, huh?

The telephone clerk that took the call recognized that this one needed some special attention. She told the caller that a technician would look at his set the next day. The service tech was briefed and dispatched.

When the technician arrived, he found that the customer had covered the picture tube with newspaper to prevent the neighbors from watching. To his credit, the tech handled the situation skillfully. He told the customer that this was a common problem in new TV sets and assured him that it could be corrected. The technician removed the set's back cover and pretended to make some adjustments to the set. He then assured the customer that all was well. It worked. The customer never called again.

Was this performance above and beyond the call of duty? Sure, but it was not unusual in the early days of TV.

### A REAL WAKE-UP CALL

Then there was the telephone call from a laughing customer with a problem. She explained that their telephone had been ringing each morning, but by the time she or her husband reached the first floor telephone there was no one on the line. Logically, they had a telephone installed in their

second-floor bedroom, only to discover that the sound they heard was not really the ringing of the telephone. It turned out that a bird was pecking at the TV antenna and producing a sound much like a ringing telephone. Although she thought the situation was funny, the early morning wake-up calls were beginning to wear her out.

Of course there was nothing in the TV service contract that required RCA to correct such a problem, but she was a good customer and really needed help. So, I sent out an antenna crew. They dropped the mast and tied pieces of cloth (furnished by the customer) to the antenna to keep that flicker bird away from the antenna. Again, a happy customer.

### THE PERFECTIONIST

Large-screen projection TV sets abound today, but in the late 1940s and early 1950s, they were something of a rarity and definitely "high end." Consequently, owners of early projection sets seemed more critical and demanding. But one owner stood out from the rest of the fussy folks.

Keep in mind that TV stations of the period had limited programming time and they frequently filled TV screens with test patterns. Test patterns facilitated picture setup, particularly in customer's homes. They made it possible for technicians to

adjust picture width, height and linearity without the need for test equipment such as a cross-hatch generator.

On the other hand, they also enabled those critical customers to detect deviations from the ideal test pattern. If a set's vertical or horizontal linearity was adjusted improperly the circles in a test pattern appeared egg-shaped or elongated, and other variations in the test pattern became evident. Grossly misadjusted screens produced distorted pictures that were obvious to most TV viewers regardless of whether the TV station was transmitting test patterns or regular programming.

It was extremely difficult, if not impossible, to reproduce a perfect test pattern. And the projection sets were more difficult to set up than the smaller, direct-view screens. Most screen setups produced a satisfactory picture even though some minor deviations in linearity could be detected when viewing a test pattern. In general, the screen



*In the early days of TV, stations frequently used test patterns or slides to fill the dead time between programming. This photograph shows a slide used by WHNC-TV, New Haven Connecticut, circa 1948.*

setup had to be pretty bad before a customer complained.

But this was not the case with "The Perfectionist." This fellow had two basic problems — too much time on his hands and a yardstick. He used the yardstick to check the test pattern for linearity and the results were never acceptable to him. As a result, he was on a first-name basis with every service technician in the shop as they tried to produce a picture that satisfied him. We tried to convince him that the slight non-linearity apparent in the test pattern did not affect the "viewability" of regular programs, but without success.

Besides losing patience with this guy, we were losing money. Since he had a service contract, he paid nothing for these service calls. This unproductive involvement had to be brought to a close. So, I advised him that we could do nothing more to improve his picture.

The Perfectionist struck the next blow by writing a letter to RCA in Camden, New Jersey. RCA did not take customer complaints lightly. The number of complaints received was one of the factors used in judging the performance of each service branch. So, the game started again — we must do something to satisfy this customer.

I protested that this guy was a loony, but my words fell on deaf ears. In its infinite wisdom, the customer relations group decided that the customer should be given a new projection TV in exchange for his present set. A great idea? Not really.

Projection TVs had been out of production for about three years. Well, customer relations was not beyond a bit of skulduggery. They found a projection TV at RCA Exhibition in New York City. They shipped the set to me, and my task was to

check it over, deliver it to the customer, pass it off as a new set, and remove the offending TV. In all fairness to those customer relations reps, the replacement TV was in very good condition.

Another happy ending? No way. The trucking company had mishandled the TV and its cabinet was damaged beyond repair. But, miraculously the electronics and projection drum survived. We still had a problem. The chance of finding another clean replacement TV was slim.

I couldn't possibly tell the customer that the shipping company destroyed the cabinet. It was time for one more white lie. I told him that we had received his replacement TV, but that I was disappointed because the finish on the cabinet was not as good as his present set. Therefore, (being a nice guy) I offered to put the "new" innards in his nice cabinet. Fortunately, he bit. We pulled it off. The Perfectionist became another happy customer!

#### IN RETROSPECT

The memories that I have shared with you stand out in my mind because they were humorous and had happy endings. Obviously, not all of the situations ended happily or even had a hint of humor. But the early days of black and white TV were never dull.

*(Ray Bintliff, 2 Powder Horn Ln., Acton, MA 01720)*

*Ray Bintliff, W1RY, holds an Amateur Extra Class license. A retired engineer and frequent contributor to A.R.C., he enjoys repairing and restoring pre-1945 radios and test equipment. In addition to Amateur Radio, his interests include electronic equipment design and audio reproduction.*

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## American Forces Network History Project and Reunion

BY JOHN PROVAN

In collaboration with the Allied Museum on Clay Allee in Berlin, Germany, we are preparing a display about the American Forces Network (AFN), a radio and television network which provides entertainment to servicemen stationed overseas. The display will run from September 14, 2001, to the end of February 2002. Though nothing is confirmed, we hope to bring the display to the U. S. some time in 2003 as part of the 60th anniversary of AFN.

The Museum is also organizing a reunion in 2001 of AFNers, including BDN (Blue Danube Network), AFN France, and the SEB/SEN (Southern European Network). If any former AFNers are among your readership, please have them contact us at the address below.

Over the last 60 years, it is estimated that AFN had an audience of some 16 million soldiers, family members, and civilian employees. But, it was the wider, "silent," listening audience which made AFN popular in Europe. In the 1950s-1960s, AFN had an estimated 200 million listeners in Europe, and was heard as far away as South Africa on shortwave. Probably no other station influenced its audience more than this American station, which provided a taste of jazz, country and western, and rock and roll music.

Unlike Voice of America or Radio Free Europe, AFN

was never a propaganda tool, as American soldiers would have reacted to that negatively. Therefore, AFN was a station many said, "you could trust."

Since the military never keeps outdated equipment, it is very difficult to put a display together, especially of American equipment in Europe. We have lots of recordings, shows, photos and film, but little equipment. We hope that members of radio clubs in the U. S. will assist either through loans or sale of items that our budget will allow. Among the things we are looking for (from memories of 50 to 60 years ago) are the following microphones: RCA BK1A, 44BX, and 77DX; Altec 633; and Labor MD21. We would also like to add a 1937 Crosley Arrow radio, old "On the Air" lamps, an SSD-2 receiver, a World War II Army wire recorder, an Army/Navy Hit Kit, and a master control unit. Naturally, we're interested in anything else from AFN.

We look forward to hearing from your readers and greatly appreciate any assistance they can provide.

*(AFN History Project, c/o Herb Glover, AFN Program Director AFN-E, Unit 29656, APO AE 09096; or John Provan, e-mail: Johnprovan@t-online.de. Fax: 01149 6195 61350.)*

# WITH THE COLLECTORS

## An Unusual Zenith 6D015

BY CARLOS GIMENEZ, SR. AND JR.

*The following success story started as a letter of inquiry. Carlos Gimenez, Sr., hoped that someone would have information about the original owner of his unusual Zenith. However, before we could print the letter, Carlos had an answer to his mystery. Read on. (Editor)*

The Zenith 6D015, shown in Figure 1, was featured in the September 1999 A.R.C. in an article by Richard Arnold. It is a set I have had in my collection for five years. I found it in a flea market in Vermont. My radio is in like-new shape — it has no cracks or chips whatever, and plays nicely. But, what is really unusual is that it has an inscription on the front brass plate, as shown in Figure 2. Though the words may not show clearly here, they read as follows :

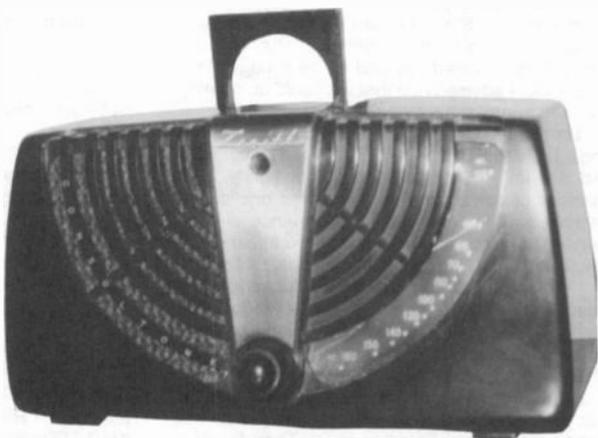


Figure 1. The 1946 Zenith Model 6D015 radio shown with its carrying handle in the up position. (Photo courtesy of Richard Arnold)

At the top:

**Ted Davis, Pittsfield, Vermont  
Boston, Mass.**

**Germany Munich  
Schwienfort Frankfort  
WVRBUB - Erdine  
Stuttgart - Ausburg  
Nurnburg - Furstenfeldbruck  
9th Air Force  
43<sup>RD</sup> Air Depot GP**

At the bottom:

**Aug. 6th 1945 Dec. 22, 1948  
5th Air Sea Rescue Sqdn.  
Western Air Base  
U.S.A.F  
Theodore E. Davis**

I wanted to know the history of this radio, who Theodore E. Davis is, or was, and if any of his family is still around. I'm 74 years old and was in the service also in World War II. I thought that perhaps A.R.C. readers could help me find some of the Davis family who would know about this set. Perhaps they would be pleased to know that it is being carefully tended here in Florida.

Well, here is the rest of the story, written by my son:

On a recent trip to Fort Meyers, Florida, while visiting my father, he told me he had something to show me. My father is a radio/TV collector and has a

house full of antiques. He buys and fixes radios and sometimes sells them. The man is incredibly smart — to see him at age 74 bring a radio back to life is amazing to me.

To get back to the story — he came out with this radio and asked me if I knew what it was.

"Yes, it's a radio," I said.

"But this radio has something written on it. Look at this!"

I read the inscription and the town Pittsfield, Vermont, caught my eye. Since my wife Judy and I live in Wells, Maine, I told my dad that I would try to see if this man was still kicking in nearby Vermont.

When I got home I asked my computer-savvy friend if he could help me find Ted Davis. He entered the name in his computer and up came eight names of Davis in Pittsfield, Vermont. That night I made one call. A woman answered, and I asked if she knew a Theodore Davis.

"You mean Ted Davis?" she asked.

"Yes," I answered, and thought, "Wow!"

"He lives in Castleton, Vermont. He's my brother-in-law."

I couldn't believe it! She gave me his telephone number, and I called him.

"Hello, is this Mr. Ted Davis?"

"Yes, who is this?"

"Hi, my name is Carlos Gimenez. Were you ever in the service?" I asked.

"Yes," he replied. "In Germany."

Oh boy! "Where in Germany?"

"Frankfort and Munich."

My heart started jumping for joy. "Did you have a

radio in the service?"

"Oh, yes, I did. I had a portable radio. It was so long ago — I have to think back."

I told him I was so happy to have found him, as my father wanted him to know that he has his old radio.

He started to laugh and told me how proud he had been of his radio and how he took it wherever he went. The last time he saw the radio was in a trade with his brother for something else. He couldn't remember what.

That for the moment is the end of the story. My father still has the radio and is happy that he knows more about its history.

(Carlos Gimenez, 15091 Shamrock Dr., Fort Myers, FL 33912-2369)

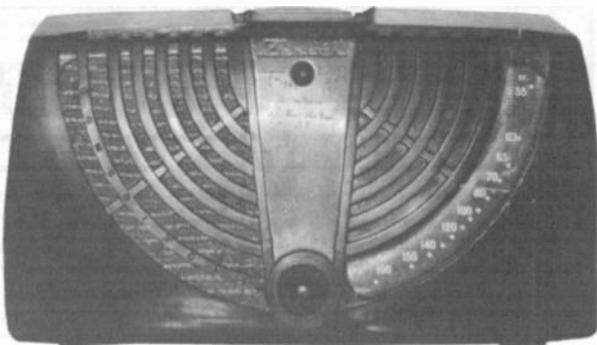


Figure 2. The author's own Zenith Model 6D015, shown here with the top center handle folded down, reveals the inscription on the center brass plate.

## Rehabilitating Old Tapes

BY DONALD BISBEE

*Many of you may still have tapes of treasured recordings made in the heyday of the reel-to-reel tape recorder. The following article addresses the problem of deteriorating tapes. Although A.R.C. hasn't tested the procedure and can't guarantee it, it may help you to preserve a piece of history in your collections. (Editor)*

It looks as if reel-to-reel tape recorders have joined antique radios as collectible items. Although radio stations have dumped them for digital gadgets and DAT decks, there are still many reel machines in use daily. Many tapes are available from the past ranging from old master tapes of famous artists to sentimental home tapes made with less than ideal equipment.

Not all tapes from the past will play today due to tape deterioration. The worst defects are found in back-coated tapes that squeal when played. Another problem is the shedding oxide which coats the heads and idlers with a sticky mess.

The first tapes made had a paper backing that easily tore or broke but can still be played on better machines (the Smithsonian claims that the Ampex ATR-100 does them best). Next came the plastic "acetate" tapes which seemed much better and smoother. They also play well usually, but have a tendency to break more easily as they age and get brittle. I'm told that high humidity helps some of these tapes recover somewhat.

Later still, mylar and polyester became available. Vastly superior in strength and not affected much by age, they nevertheless would not break cleanly. Instead they stretched, ruining some sections of tape beyond redemption. Nearly all tapes manufactured since the 1960s are mylar or polyester.

Then in the late 1960s, a new tape oxide formula was adopted on the deluxe grades of tape and a back-coating was added. This tape had much lower noise levels and lower distortion and seemed to run more smoothly through many professional Studers and Ampexes and expensive home decks.

Everyone was happy for a while, and then sometime in the 1970s, users began to find that their tapes squealed and left deposits on the guides and heads. The condition only became worse with time, and finally

the tapes would not play at all and would stall the motors of the most powerful machines. Many tapes were thrown away as useless or destroyed in the process of trying to play them. It happened to all brands but somehow Ampex, being one of the largest suppliers, seemed to get more of the blame.

There is a simple solution to the problem of tape deterioration that Ampex claims to have patented. It works to bring the tapes back to life, sounding almost like new. Even expensive calibration tapes give like-new responses. The solution is to cook your tapes in a convection hot-air oven at 120 degrees or higher, but no more than 140 degrees. Start with a cold oven. The temperature should be fairly steady within a few degrees Fahrenheit. Too hot can damage plastic reels.

After cooking for at least 24 to 48 hours, the tapes should be cooled to room temperature for another 24 hours in the oven before playing. One cycle may not be enough for some tapes; if so, the whole process needs to be repeated. The back-coating takes the longest to cure.

There seems to be some dispute about the time and temperature for tape baking, and about how many times the process is repeatable. One large manufacturer now recommends 130 degrees F for 8 hours and a 24-hour "cure" period, and claims that too much time and heat can damage tape lubricants.

I had a tape in my attic since 1974 subject to cycles of up to 140 degrees, and I was able to bring it back to life. However, it needed three treatments before it would play without shedding.

I suspect that the experts don't really know or aren't telling, so each tape is an experiment of some sort.

### Reference:

Michael Stosich. "Archival Revival," *Audio*, November 1990.

(Donald Bisbee, 685 South Roys Ave., Columbus, OH 53204)

*Donald Bisbee is a collector of antique audio equipment, as well as radios and test equipment. His collection favorites include Fairchild, Ampex, and Atwater Kent sets.*



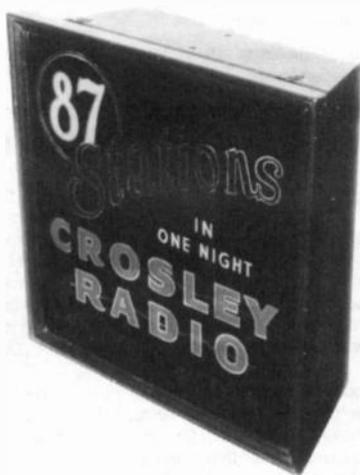
# PHOTO REVIEW



This column presents in pictorial form many of the more unusual radios, speakers, tubes, advertising, and other old radio-related items from our readers' collections. The photos are meant to help increase awareness of what's available in the radio collecting hobby. Send in any size photos from your collection. Photos must be sharp in detail, contain a single item, and preferably have a light-colored background. A short, descriptive paragraph **MUST** be included with each photo. Please note that receipt of photos is not acknowledged, publishing is not guaranteed, and photos are not returned.



**MELODY MODEL C-500 BEER BOTTLE RADIO** - This unique novelty set, manufactured in 1934, has a 5-tube radio in its 8" diameter base. It is 23½" tall. (*Wally Worth - Wollaston, MA*)



**CROSLLEY DEALER SIGN** - This display sign has a colorful, reverse-painted glass front with a wooden frame. The rear section is metal and houses the electric light bulb in its ceramic socket. The sign could either stand by itself or be hung in the dealer's window by two metal rings at the top of the unit. The wording refers to a 1929 Crosley radio that logged 87 different radio stations on one particular night. (*Dave Crocker - Mashpee, MA*)

## **AIROPHONE CRYSTAL RECEIVER**

- This catwhisker-type crystal set was manufactured by the A.W. Bowman & Co., Cambridge, Massachusetts, and Chicago, Illinois. In 1922, it sold for \$20. The tube on the right side is for 2 C-batteries to operate a buzzer for testing the hot spot on the detector. (*Sherman Wolf - Amherst, NH*)



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## PHOTO REVIEW

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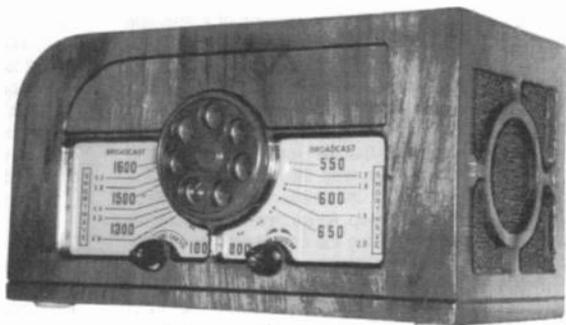


**HEATH MODEL BC-1A** – This 1959, 5-tube, transformer-powered, broadcast tuner is capable of a flat response to 9 kHz. When it receives AM stations using wide range programming, the effect is similar to FM. A bridged-T filter is employed to reduce the annoying 10 kHz beat note prevalent on the AM band. Two outputs are available from phone jacks, one medium impedance, fixed, and one low impedance, variable. (Roland Jenkins – Leavenworth, KS)

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### TELEDIAL RADIO, MANUFACTURER UNKNOWN –

This wooden, shortwave and broadcast band receiver measures 12" wide, 6 $\frac{3}{4}$ " high and 6" deep. The rotating wooden center dial with finger holes indicates a late 1930s manufacture. Can anyone identify the maker? (Edwin G. Cook – Vancouver, WA)



**ZENITH MODEL 6S238** – This 1938 chairside tunes the broadcast band, as well as the shortwave, police and foreign bands. It has 6 tubes and 4 wooden control knobs, each with the Zenith "Z" on them. (Claude Chafin – Saint Louis, MO)



**RCA VICTOR MODEL R-7A** – This tombstone, called the "Superette," is an 8-tube receiver, ca. 1932. (Clark Trissell – Lincoln NE)

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# MEET REPORT

## Meet Schedule Changes in the Wind Radiofest on Weekend Schedule

BY DOROTHY SCHECTER

FROM INFORMATION CONTRIBUTED BY ART BILSKI

*For several years, A.R.C. has encouraged clubs to take a serious look at a weekend meet schedule so as to maximize attendance and capture the interest of newcomers. The change in Radiofest's schedule for this year is a sign that the idea is really taking hold, though clubs in Michigan and Dallas proved the success of a weekend schedule some time ago. (Editor)*

The news that the Antique Radio Club of Illinois (ARCI) will hold Radiofest XIX on Friday through Sunday, August 4-6, 2000, strikes us as a clear message that even the big event organizers realize that they must include weekend days in the schedule. Otherwise, they will cater only to the fully committed and not increase interest in radio collecting beyond this select group. As we have said before, we have no chance of enticing the casual drop-in into becoming one of us unless they can do so on a day off.

Art Bilski of ARCI has told us that changing Radiofest's schedule was long in the making. But, as with most volunteer organizations, it was difficult to get a consensus and so things remained the same for a long time. Finally, many factors combined to effect a change.

First among them was feedback from attendees. Times have changed. People are overly committed to work and family affairs and cannot give a portion of a work week to a radio event. To accommodate their schedules and to give them a greater opportunity to enjoy the flea market, a weekend schedule has been adopted. The old Wednesday to Saturday schedule meant that even by Friday the flea market had been picked over, and by Saturday, many vendors had folded their tents.

In addition, we're pleased to know that Art believes articles and comments in A.R.C. certainly influenced the decision to change. We like to know that we can be a voice for making antique radio collecting better and for helping it to grow.

ARCI expects that the change will result in more public participation and that those participants will decide to stay through the full three days. The club is working to make those days action-packed with less downtime.

One new feature at this year's Radiofest will be an exciting new concept — a "Public Appraisal Fair." The public will be encouraged to bring in their radio-related treasures. "Experts" will examine the item, and, using various price guides and other references, will provide the owner with an estimated value. The owner will then have the option of placing the item in the Saturday radio auction, subject to the nominal fee to the club. This could result in many more interesting items showing up on the block.

As we've said before, Radiofest is one of the premier events for antique radio collectors. Now that it will take place on weekend days, the turnout should be larger than ever. Better make your reservations early.

DR. RALPH MUCHOW

As many of you know, ARCI and the radio-collecting community suffered a great loss this year. Dr. Ralph Muchow whose private radio museum was a star attraction every year at Radiofest passed away on March 4 at the age of 83. (See accompanying "Profile.") The museum will not be open this year, and its future is as yet undecided. Dr. Muchow's spirit will surely remain alive at Radiofest and among the many collectors who were fortunate enough to know him.

In place of the Muchow Museum tour, ARCI has arranged with Motorola to have an excellent Motorola exhibit at the hotel. To augment the exhibit, ARCI is soliciting original-finish Motorola items from collectors. Anyone interested in putting Motorola items on display should contact Tom Kleinschmidt at (847) 255-8128 or at tomkleinschmidt@home.com. Your cooperation will contribute greatly to Radiofest's success.

*(Dorothy Schecter, c/o A.R.C., P.O. Box 2, Carlisle, MA 01741)*

*The Antique Radio Club of Illinois (ARCI) sponsors the annual August Radiofest and bimonthly swap meets. It publishes the "ARCI News" and the "ARCI Update." Dues are \$15. For more information, contact Art Bilski at (630) 739-1060 or P.O. Box 1139, La Grange Park, IL 60526.*



Panoramic view of a section of the Radiofest '94 flea market.

# COLLECTOR PROFILE

## Dr. Ralph W. Muchow 1917-2000

CONTRIBUTED BY STEVEN R. MUCHOW

*To honor the memory of Dr. Ralph Muchow, one of the great champions of antique radio collecting, A.R.C. is pleased to present this "Collector Profile." Fortunately, our information comes from the best of all possible sources — Dr. Muchow's son Steven — who joined in his father's interest in preserving radio history. We are extremely grateful to Steve for sharing his memories with our readers. (Editor)*

On March 4, 2000, the radio collecting community lost a great historian and champion for our hobby. Dr. Ralph Muchow, shown in Figure 1, of Elgin, Illinois, passed away at age 83. "Doc," as he was known to many collectors, began collecting antique radios in 1967 and assembled what many consider to be the finest private collection in the world.

Perhaps you are among the hundreds of collectors who visited "Muchow's Historical Radio Museum" during the past 30 years. If so, you probably agree that it required several visits to see it all! Few people realize how this museum began and the story behind the amazing individual who was to become its curator.

Ralph's interest in radio began in 1924 — what a great time to be starting in the hobby! He built his first radio, a crystal set, when he was eight years old, and truly, never stopped building radios — especially crystal sets! Even more recently, surrounded by hundreds of museum radios, for him, there was still that certain thrill of "building your own." Figure 2 shows a variety of his crystal sets.

Many of the crystal sets he built during the past 50 years were based on designs published by the original MRL (Modern Radio Laboratories) in California. Ralph would often correspond with MRL's founder, Elmer Osterhoudt, to discuss the performance of his latest set after a night of DXing.

Circuits that performed well moved from his experimenter's "breadboard" into a wooden cabinet. One of Ralph's favorites circuits, the "flexital," was able to drive a 12-inch PM (permanent magnet) speaker and required a volume control! Even



Figure 1. Dr. Ralph Muchow surrounded by items showing the true diversity of his collecting achievements.

more amazing was his detector — an LED which did double duty as a pilot light! He estimated that he had constructed between 200 and 300 radios over his lifetime.

### THE 1930s-1940s

In the 1930s and 1940s, even as the country was reeling from the Depression and a world war, Ralph was busy and moving forward. In addition to his radio hobby, he earned a dental degree from Northwestern University in Evanston, Illinois, retired with the rank of Major from the U.S. Army, married his wife, Carole, and started a dental practice and a family. He also became a nationally ranked table tennis player.

With all of this, he still found time to build radios! For example, the 1940s brought a fascination with portable sets, and he built several battery-operated radios using 1-volt and 3-volt tubes.

### THE 1950s

Ralph's passion for building smaller and smaller radios extended into the 1950s with that "new technology" — the transistor! Transistor radios were expensive at that time, but he found a solution in an inexpensive kit offered by the Philmore Manufacturing Co., Inc. The kit, Model TR-22,

*(Continued on following page)*



Figure 2. This photo shows just four of the many kinds of crystal sets that Ralph built for his own pleasure.

(Ralph Muchow Collector Profile, continued)

was a 2-transistor "reflex" design with built-in speaker. He built one and was inundated with requests from his dental patients and friends to build one for them.

While he didn't have time to build their radios, he offered to fix them if they didn't work. Many radios came back to him with components soldered in the wrong locations and untrimmed leads. In retrospect, he felt it would have been easier to build the radios correctly himself in the first place rather than have to rebuild them later.

This example reveals how much he enjoyed radio and enjoyed sharing his passion with others, whether it was to help build and fix radios or, in later years, to conduct a museum tour. Clearly, it was his enthusiasm that sparked an interest in radio in me, his oldest son. Because of the many hours we shared together tinkering with radios, I became an Amateur radio operator and an electronics engineer.

### THE 1960s

Ralph was a craftsman, and he effectively used these skills in the early 1960s to satisfy his quest to build smaller and smaller radios. He decided to "shrink" the Philmore TR-22 transistor radio kit, substituting smaller components as tech-

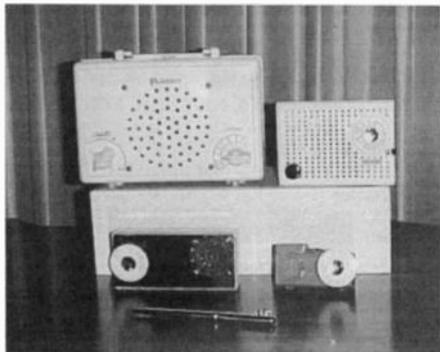


Figure 3. The Philmore TR-22 transistor radios (top) are shown in contrast to the smaller versions Ralph built himself.

nological advances made them available. Figure 3 shows the Philmore radio size reduction.

### SLOT CAR RACING

When his family was involved, Ralph doubly enjoyed hobbies. This was evident in the 1960s when he became interested in racing slot cars along with his younger son Dave. A peg protruding from the bottom of these  $\frac{1}{4}$  and  $\frac{1}{2}$  scale electric cars held the car in place on a slotted track, while a hand-held rheostat controlled car speed.

Ralph enjoyed competitive sports, and this hobby brought back the competitive spirit now missing from his earlier days playing table tennis. He and Dave built and raced cars, winning many trophies at Chicagoland race-tracks. Dave went on to capture the world championship title in slot car racing.

If this were not enough, Ralph was also a railroad enthusiast. He collected antique toy trains and steam engines and constructed a fully operational 24-foot long HO gauge train layout in the basement of his home.

### THE MUSEUM — THE 1970s-1990s

Most radio collectors associate Ralph with his extraordinary radio museum. So, how and when did the museum begin? In 1967, Ralph walked by a local antique store and noticed an antique radio in the window. It turned out to be an Atwater Kent 10 breadboard. Recognizing this set from his youth, he soon had it under his arm and headed home with his prize. A successful restoration of the radio sparked an interest in Atwater Kent, and, after finding several more radios, he realized that the bug had bitten! Figure 4 shows one of his splendid treasures, a Brunswick Panatrope, in pristine condition.

Soon the basement in his home was filled with radios and no room for expansion. Out of necessity, the museum was relocated to his downtown Elgin dental building. As tenants moved out of the building, the collection grew to 3,400 sets and now occupies 24 rooms. Just one of the many rooms in Ralph's museum is shown in Figure 5. From the very beginning, Ralph insisted that no item would be displayed unless it was "museum quality." While it required a greater restoration effort, this philosophy set the museum apart from simply an aggregation of radios.

In addition to providing radio history for visitors, the museum has been a resource for other interests. For example, both the motion picture and television industries have borrowed museum pieces for use in their productions. In addition, Ralph often provided students with hard-to-find information on "wireless" needed for their school projects.

Throughout the 1970s, 1980s and 1990s, he was very active in several radio clubs. He was a founding member and past president of the Antique Radio Club of America (ARCA) and the



*Figure 4. Ralph proudly showing this handsome Brunswick Panatrophe with an RCA Radiola radio. Like everything in his museum, it is in pristine condition.*

Antique Radio Club of Illinois (ARCI). ARCA eventually was absorbed into the AWA, but ARCI continues to be a very active club, hosting the premier annual "Radiofest" meet in Elgin, Illinois, every August.

Seasoned collectors will remember Ralph and his wife Carole's regular attendance at all ARCA

and AWA conferences in the 1970s, 1980s and early 1990s. He especially looked forward to entering radios in the contests and brought home many "best of show" and "first place" awards over the years.

In 1985 Ralph was elected a "Fellow" in the Radio Club of America and received the club's "Batcher" award in 1988 for his efforts in preserving radio history. He received ARCA's "Harry Houck" award in 1989 and earned the club's "President's Museum Award" in 1992 and 1993 for his outstanding presentation of a recognized private museum. The Antique Radio Club of Illinois honored him by naming its contest "Best Of Show" award the "Dr. Ralph Muchow Award."

Each year, participants at Radiofest looked forward to viewing the Muchow collection, as Ralph gladly opened the museum for tours. This event became a family affair with immediate family, including grandchildren, participating. During the tours, Ralph brought radio history alive. There was an interesting story to tell about each radio, and his vast knowledge rarely left questions unanswered.

Were you fortunate enough to have been among the hundreds of people who visited the museum within the past thirty years? If not, the museum was featured in the February 1997 issue of Smithsonian Magazine. An abbreviated version of the article with pictures is available at the Smithsonian Magazine Web site: <http://www.smithsonianmag.si.edu/smithsonian/issues97/feb97/radio.html>

Understandably, many collectors are wondering about the future of the museum. It has been decided that the museum will remain intact for at least a year as options are considered.

*(Steven R. Muchow, 633 Canyon Ln., Elgin, IL 60123)*



*Figure 5. Ralph Muchow in just one of the 24 rooms of radios in his museum. From 1967 to the present, the collection reached a grand total of 3,400 sets.*



# The Riga B417 An Internet-Assisted Restoration Project

BY JERRY WIELAND

*In the following article, Jerry Wieland reveals yet another way in which the Internet can bring collectors together, not just locally, but internationally. Using the A.R.C. Internet Web site link to foreign references and e-mail, Jerry connected with a Russian and a Swedish collector about his Riga B417 — a success story follows. (Editor)*

When I first saw the large table radio shown in Figure 1 in a Wisconsin antique shop, it struck me as having a foreign appearance. When I picked it up and saw a cable with crocodile clips plus a line cord with a European plug, I was curious. Was it battery or AC? It rattled ominously, a knob was missing, but the wooden cabinet was in good shape. The price was right, so I bought it.

Days later, a fellow collector saw the name Riga on the rear cover and commented that Riga was a Russian port city. Using the A.R.C. Internet site foreign references, I found a link to a Russian collector's site displaying a radio with a very similar cabinet along with a schematic.

Comparing the tube location chart on the back of my radio to the schematic on his showed the two to be different. His is a 6-tube AC set with 6-volt filaments, whereas mine has a 2-volt battery cable, which I assumed to be the filament supply. The 4 octal tubes used in mine, all of which were missing, had numbers I could not cross reference: DCH21, DF22, DBC21, DLL21.

### THE E-MAIL SEARCH

An e-mail to the owner of the Russian site evoked a response that said my set was made in Latvia by the Riga Radio Works before the Soviet takeover in 1940. From 1941 to 1945, the Germans occupied Latvia. After the war, the Soviets gained control. I assume my radio was made in the early 1940s. The Russian collector could not give me any information on the tubes since he collects only Soviet era radios which do not use tubes with low voltage filaments. I downloaded all his Riga schematics hoping that some of the circuitry might be similar to mine.

I also found a Swedish Web site that lists a similar Riga model, but again the tubes didn't match. An e-mail brought the response that my



Figure 1. The Riga Model B417.

tubes could not be identified. To help find substitutes, the Swedish collector scanned many pages of a 1940s Swedish tube manual and e-mailed them to me. He also provided a page of tube terms he had translated from Swedish to English!

### ASSESSMENT OF THE SET

After reviewing all the documentation, I returned to the radio. A closer examination of my B417 revealed a number of problems. The speaker had detached from the front panel ripping away the audio output transformer secondary wires. This explained the rattling. The output transformer has three primary terminals, but only one was connected. Three chassis wires were lying loose. A resistance check of the transformer showed the primary to be open. This transformer was history.

The AC line cord terminated in a separate chassis that is rather crudely built. As Figure 2 shows, it has a large, probably selenium rectifier and a ripple filter. The capacitors in the output filter were open. A toggle switch marked 110/220 volts varied resistors in series with the load. The output wires to the radio chassis were marked 90 volts and 0 volts with crimp-on metal tags. I believe this power supply was an after-market addition to eliminate the plate supply battery. However, a 2-volt battery was still required for the filament supply resulting in a rather odd power system. I removed the 90-volt supply and concentrated on the main chassis.

The large circular dial is impressive in appearance. However, the pointer did not turn. I found

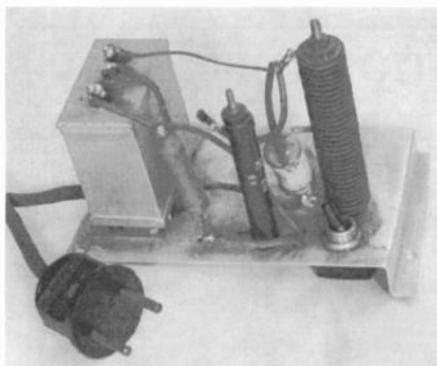


Figure 2. The B+ power supply, possibly a home brew, uses a voltage dropping resistor that allows operation on either 110- or 220-line voltage. The stacked device on the right is a solid-state rectifier. The filter capacitor is located at the left side of the chassis. Note the European-style line plug.

that the pulley was loose on the tuning capacitor shaft and the cables had excessive slack. The pulley supports two cables. One wraps around the tuning shaft and the other around the dial pointer shaft. The tuning shaft can be pushed in to activate a leaf switch which supplies power to the dial lamps. This feature is usually found on battery sets to conserve current.

After making a dial stringing diagram, I removed the dial which exposed the pulley. Rather crudely cast from pot metal, the tuning pulley was in poor condition; it was both cracked and deformed. Small projections for tension spring anchoring had broken off leaving the springs loose. One slot was so deformed that I could not pull the cable through it. Probably another item for the garbage can. I put this aside to concentrate on the circuitry.

### RESTORATION AND MODIFICATION

Tracing some of the circuits proved that the B417 is similar to an M557 schematic obtained

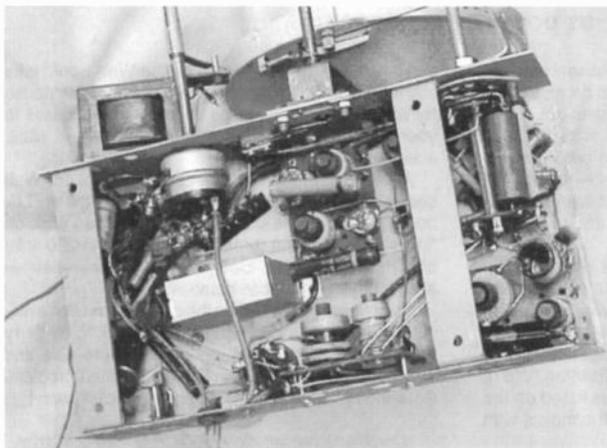


Figure 3. This bottom view of the chassis shows the component layout.

from the Russian Web site. Although the M557 has 6 tubes, one is a tuning eye and the other a rectifier. If I don't count those two, the remaining 4 tubes are similar in function to the tubes in my B417. Both radios have 3 bands — long, medium, and shortwave. Now I needed to find tubes. Should I convert the set to 6-volt tubes or look for 1-volt substitutes?

In my collection, I have a Motorola portable from the mid-1940s that uses octal tubes with low voltage filaments. I decided to check these tubes against the M557 schematic. The configuration was similar enough to make me decide to try them in the Riga.

I modified one stage at a time starting with the mixer/oscillator, followed by the IF amp, detector, and audio amp. The tube sockets required rewiring since the filament pin-outs of the substitute tubes were different from those of the original tubes. The plates, grids, and cathodes were OK as is.

I used an oscilloscope and signal generator to make sure each stage was operating before proceeding to the next. With this approach I was able to get the AM band operational. It was not as difficult as expected. For power, a multiple output DC supply provided the filament and a 90-volt plate voltage. A junk box audio output transformer and some speaker cone patching completed the operational restoration, at least on the AM band.

From the original transformer configuration, I believe the audio output tube should be a dual triode operating in push-pull. This is what the radio on the Swedish site uses. My current substitute is a single triode, so I did not use a push-pull output transformer. I will try that configuration when I find a suitable dual triode.

Next, I tried my hand at RF and IF alignment. Ferrite slugs protrude through the side of the IF shield cans and have a 5/32 hex head. The antenna coupling coils also have similar slugs but are recessed in the chassis. My socket wrench was too large for the chassis access hole. I had to use a nut driver to tune these which proved to be tricky because the metal shaft detuned the coils. After some tweaking, the AM band was more sensitive. A few stations could be heard on the shortwave band also. On the negative side, the local oscillator

dies at the lower shortwave frequencies, and sensitivity on the long-wave band is not very good.

Since the electrical restoration was progressing, I decided to make some progress on the dial and bandswitch. The stop was missing on the bandswitch allowing it to rotate 360 degrees, which bent some of the contacts. I was able to straighten the bent contacts with needle nose pliers. Since it would require extensive disassembly, I did not want to remove the bandswitch from the chassis to investigate the stop problem.

Instead, I fashioned a stop on the chassis from a piece of sheet metal bent to make contact with the collar of the bandswitch indi-

(Continued on following page)

(The Riga B417, continued.)

cator. This collar has two set screws which now act as band-switch stops when they hit the bracket. A short cord attached to this collar operates a tricolored disk that indicates which band is selected through an opening in the tuning dial face. The disk colors match the frequency band colors on the dial face.

The dial mechanism was more difficult to repair. The cast pulley was not salvageable. For a replacement, I consulted my junk boxes. A plastic insert from a lawn table was just the right diameter. To attach it to the tuning capacitor shaft, I used a collar from an old tuning pulley.

After supergluing the collar to the plastic insert, I inserted three small screws for reinforcement.

More screws were then added as anchors for the dial cords. Stringing these cords was very difficult because the tuning dial assembly covers the pulley. Once the stringing was accomplished, the dial worked well. All that remained were two dial lamp replacements. An easy job, I thought. However, the two screw base bulbs were glued into their sockets — with great glue, to say the least. I finally mangled the bulbs with the needle-nose pliers and removed the pieces. The sockets survived to accept 2.5-volt replacement bulbs.

After I had touched up cabinet scratches and added a substitute knob, the radio looked presentable, as shown in the two chassis views in Figures 3 and 4. I will continue my search for more suitable tubes, a knob, and a schematic. The set's performance still needs improvement. This is one of those projects that could last for years. However, I would not have gotten this far without the Internet. It proved to be a useful high-



Figure 4. An interior view of the Riga radio.

tech tool for restoring a rather low-tech radio.

#### Acknowledgements:

Special thanks to the following collectors whose Web sites (see URLs listed below) and personal assistance helped me with this restoration project:

Vitaly Brousnikin

<http://home.onego.ru/~vitalybr/foy.htm>

Per-Henrik Fogelstrom

<http://hem1.passagen.se/radiola/eradio.htm>

(Jerry Wieland, 780 Charleston Ln., Hoffman Estates, IL 60195)

*Jerry Wieland is an electrical engineer working in cellular phone development at Motorola. His interest in old radios began at age 12 when he started listening to shortwave broadcasts on a 1930s Silvertone console.*

## A.R.C. Web Site Valuable Resource

BY DOROTHY SCHECTER

In this new world of dissolving international barriers, A.R.C.'s Internet Web site is proving to be a valuable resource. As Jerry Wieland's article points out, with a click of your mouse, you can access links to radio-related information round the world via our Web site. Unlike many links which are reciprocal — that is, the site requires that you reciprocate with a listing on your site — A.R.C. will list any appropriate radio-related site without restrictions.

Of course, such a partnership of reciprocity is desirable, but we do not require it. As an example, we have 35 sites listed under the "Non-U.S. sites" category alone. Thus, Jerry was able to get information from a Russian site, and, indirectly, from a Swedish site that is still under construction. We're pleased to note that A.R.C., in turn, is listed on the Russian site, and, no doubt, we will connect with the Swedish site when it is ready.

The A.R.C. Web site is a direct route to information

that in a more general search on the Web would take you a great deal of time. We serve as a clearing house for what would otherwise be a jumble of responses to your general search. We seek out all related sites, even those of competitors.

If you haven't already taken advantage of our Web site as a resource, we urge you bring up the A.R.C. home page at [www.antiqueradio.com](http://www.antiqueradio.com). Then click on "Links," and browse through the more than 200 links offered. Tubes, grille cloth, parts, Catalin repair — almost anything you can name is there.

Even more important than the basic information available is the human connection. You will find, as Jerry Wieland did, many, many people out there able and willing to help with a particular radio-related problem. So, bring up that A.R.C. home page and click away!

(Dorothy Schecter, c/o A.R.C., P.O. Box 2, Carlisle, MA 01741)

# CLUB SPOTLIGHT

## Association des Amis du Musée L'ElectroAcoustique les Radiophiles Français 25th Anniversary — 1974-1999

BY TAMMY DEGRAY

The Association des Amis du Musée de l'ElectroAcoustique Les Radiophiles Français (A.E.A.) celebrated its 25th anniversary May 16, 1999, at its annual general meeting in Bordeaux, France. Founded in 1974 by Jean Engelking and four other wireless enthusiasts, the A.E.A. now has nearly 300 members and is growing steadily.

The club was founded with the aim of preserving antique equipment and documents related to wireless transmission and reception. The members' field of interest is broad and includes radio receivers and transmitters, electric telegraphs, telephones, TV sets, record players, tape recorders, sound movies, electronic tubes, transistors and more. The club president, J.C. Montagné, estimates that each member has from tens to hundreds of wireless sets, depending only on the space available.

With an eye toward the A.E.A.'s goal, the president, with the help of his fellow club members, is trying to establish a national preservation site — a complex combining preservation, a museum, and an academy to train restorers of scientific devices. At least five of the A.E.A. members have published books on the history and equipment of their hobby and on their collections.

First printed in 1974, the 24-page A.E.A. *Bulletin* is published quarterly to furnish members with news of the club, a calendar of events, technical and theoretical articles and classified ads. A look through the October/November/December 1999 *Bulletin* finds articles on the history of microphones, a home-brew triode power amplifier, World War I amplifiers, and low frequency power amplification using tube amps, plus a 25th anniversary message from J. Engelking, the founding president. All the articles have an introductory summary in English, even though the *Bulletin* is printed in French.

A.E.A. activities include meetings and flea markets. One such event is the Roger Furon meeting (named after its first organizer) held every summer since 1987 in Les Vans, in the south of France. Another is the A.E.A. annual meeting held in even years in Paris and in odd years in outlying towns. Large exhibitions are also organized every three years or so.

You can visit the A.E.A. on the Web at: [www.citeweb.net/clubaea](http://www.citeweb.net/clubaea). The site gives an overview of the club, a listing of club officers and membership information, a summary of the most recent club *Bulletin*, an upcoming events calendar, and a page of links to French radio Web sites.

### Association des Amis du Musée de l'ElectroAcoustique Les Radiophiles Français A.E.A.

Dues: \$46 (foreign); \$38 (Europe)

Publication: *Bulletin of the A.E.A.*,  
published quarterly

Membership year: Jan. 1 to Dec. 31

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For membership information:

A.E.A., 35, rue Salvador Allende  
92220 Bagneux, France





# AUCTION REPORT

## 10th Annual Harris Antique Radio Auction Marshalltown, Iowa — April 1, 2000

REPORTED BY JIM BOELLSTORFF

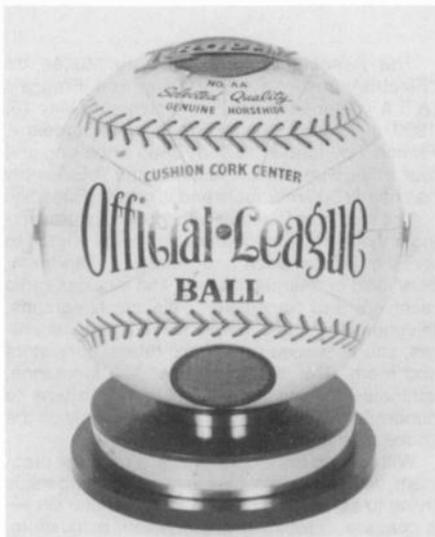
Saturday, April 1, 2000, was warm and sunny for the eager buyers attending the tenth annual antique radio auction at the Gene Harris Antique Auction Center in Marshalltown, Iowa. No April Fool here! Over 525 excellent lots of antique and collectible radios were awaiting bidding action by 159 registered buyers from 13 states. The auction was called by Gene Harris, Julie Harris-Stern, and Dale Albee.

Noticeably absent from this year's auction were the very top level of both battery and AC sets. Making up for this was the large number of 1930s to 1970s table models in both wood and plastic. Demand was good for these sets, and they realized higher prices than in previous years. Battery radios were about equal to last year's numbers with good demand and strong prices. Tubes brought good prices. Books, manuals, and advertising were in short supply.

A new feature of this auction was to have the listing of merchandise on the Internet by lot number. Harris Auction is one of the pioneers using this listing technique. Anyone with a computer and Internet capability can now contact the Harris Web page ahead of the auction, pull down an auction listing, see every item listed by lot number, and print out his own copy right at home. Only last minute, morning-of-the-auction consignments were late in getting listed.

The impact of the new Internet sales technology was a hot topic of conversation at the auction. The fact that high dollar items were absent and that even old standbys like Zenith consoles were scarce fueled talk of changes in the wind. On the other hand, Harris' use of the Internet for previewing brought in quite a number of bidders who had never been to a Harris radio auction before.

*A warning: Auction prices are not current values. Our selection of auction items is not necessarily complete. A listing such as this cannot adequately include the condition of cabinets, chassis, transformers, tubes, the operating status of the set, and the inclusion of incorrect, restored or replica components, etc. Auction prices are the result of the excitement of the auction process, the skill of the auctioneer and the specific interests of the participants. Nevertheless, auction prices serve as useful references and as another element in the value determining process. The possibility of error always exists, and if we are notified, corrections will be reported.*



*This 1941 Trophy baseball radio, made of molded cardboard sections, in very good condition, sold for \$675.*

The auction moved rapidly and bidding was spirited. Little "junk" was offered. Strength was shown in the lower priced sets indicating that collectors were going in the direction of whatever was available.

Some highlights from the auction were the following: An Atwater-Kent dealer's heavy pressed paper wall plaque in excellent condition selling at \$600; a Trophy Baseball radio at \$675; and a beautiful Zenith 12S370 12-tube, shutter-dial console at \$475.

A Stromberg-Carlson 350-V designed to fit into either a room corner or along a wall, in mint condition, was an excellent buy at \$450. A black 1926 Neutrowound Super battery set sold for \$550. Many plastic table model sets benefited from the expanded listing on the Internet with good prices ranging from \$30 to \$100. A red plastic Silvertone 4509 in very good condition sold for \$500. Plastic sets are becoming more popular and in demand, especially by the newer collectors.

Harris Auctions will plan for another radio auc-

tion extravaganza set for April 7, 2001. Early consignment will give maximum advertising coverage. See you there!

The following listing is a selection of lots from the auction. Some model numbers may have been missed, and the accuracy of the report is not guaranteed.

e=excellent, vg=very good, g=good, f=fair, p=poor, unk=condition unknown, BBT=brass-based tipped, N.O.S.=new old stock

Air King 920, g.....	\$70
Airline 15-GBC-1583, Deco, vg.....	90
Airline 54-BR-1502, red, vg.....	55
Airline 62-374.....	25
Airline 62-386, vg.....	140
Airline 62-425, vg.....	90
Airline 68-E-1622A, g.....	60
Airline 84-BR-1501B midget, g.....	55
Airline 84-BR-1507, vg.....	110
Airline 84GBC chest, g.....	45
Airline 93-BR-420B midget.....	60
Airline 93-BR-563A.....	40
Airline 1355 Minstrel, vg.....	210
Airline Roamer, vg.....	170
All-American Mohawk.....	50
American Bosch 28.....	40
Apex, g.....	50
Arborphone 27.....	150
Arborphone 27, (2), unk, g.....	50, 150
Arvin 440T, g.....	50
Arvin 444A, g.....	60
Arvin 540T metal, g.....	40
Arvin 652P, g.....	40
Astatic D-104 microphone, vg.....	45
Atwater Kent 20 compact, vg, (2).....	50, 60
Atwater Kent 32.....	60
Atwater Kent 33, (2), unk, g.....	35, 65



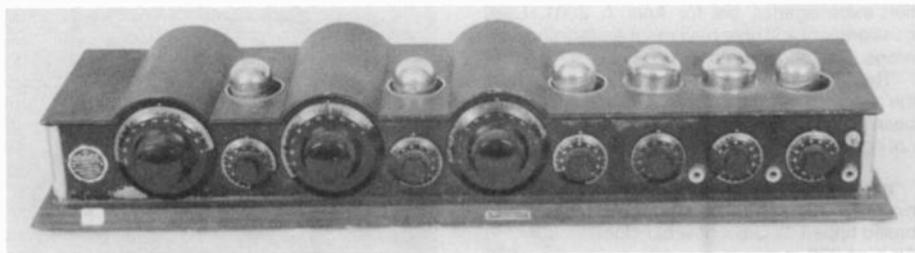
This beautiful 1939 Zenith 12S370 console was offered in excellent condition, and brought a high bid of \$475.



This unusual 1927 Atwater Kent Iowa state map advertising piece in excellent condition sold for \$225.

Atwater Kent 35, vg.....	70
Atwater Kent 44.....	40
Atwater Kent 46, e.....	60
Atwater Kent 55, f.....	30
Atwater Kent 55, in Pooley 7500 cabinet, vg.....	160
Atwater Kent 145 tombstone.....	150
Atwater Kent 305, vg.....	160
Atwater Kent 1927 Iowa map, e.....	225
Atwater Kent amplifying transformer, e.....	40
Atwater Kent E speaker, (2).....	20, 25
Atwater Kent F speaker, vg.....	25
Atwater Kent Kiel table, (2), unk, vg.....	120, 275
Atwater Kent L horn, (2), vg, e.....	70, 130
Atwater Kent wall plaque, e.....	600
Aurora 1611 crystal set, g.....	38
Baldwin Standard horn speaker.....	40
Clarion Jr.....	85
Collins 51J3, vg.....	180
Cookie jar, ceramic radio, e.....	70
Coronado 43-805.....	40
Coronado R484, g.....	25
Crosley 5-75 console, e.....	110
Crosley 5M3 mini tombstone, g.....	90
Crosley 11-104U bullseye, g.....	70
Crosley 11-105U bullseye, vg.....	130
Crosley 111-122U, vg.....	110
Crosley 124 cathedral, (2), vg.....	150, 170
Crosley 170, g.....	80
Crosley 515 tombstone, g.....	35
Crosley ACE Type V, f.....	85
Crosley E-10 CE, g.....	70
Crosley Prestotune 12 lowboy, e.....	210
Crosley, World of Music, e.....	250
Dayfan OEM7, vg.....	55
Delco 1201 32v tombstone, g.....	23
Delco R-1227.....	25
Delco SC352, g.....	40
Edison R-2, g.....	80
Eico 625 tube tester, vg.....	85
Emerson 508, g.....	30
Emerson 578A Ingraham cabinet, g.....	35
Emerson 587, g.....	30
Emerson 615B Ingraham cabinet, vg.....	75
Emerson AR-176, e.....	65

(Continued on following page)



This 1927, black metal Neutrowound Model C-6 in good condition brought a winning bid of \$450.

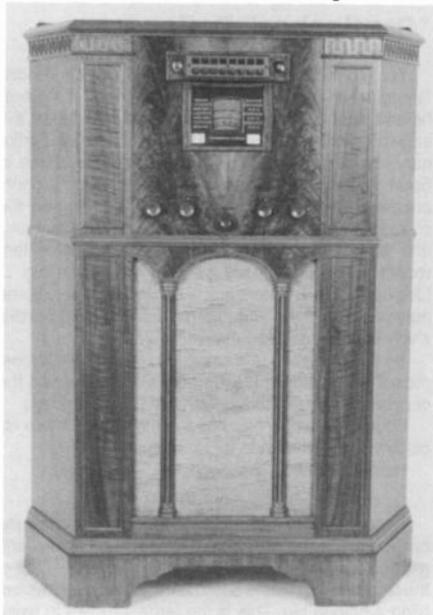
(Harris Auction, continued)

Emerson BJ-200, g .....	80	Grebe MU-1, vg .....	275
Emerson ED-354, g .....	20	Grunow 585 chairside, g .....	1,510
Emerson U-5A miniature tombstone, f .....	150	Grunow 1241 teledial, vg .....	200
Erla 3-dial, vg .....	160	Hallcrafters 5-40 port., g .....	15
Erla S-11, vg .....	140	Hallcrafters 5R32A, g .....	100
Fada 35, vg .....	185	Hallcrafters S-38E, g .....	50
Fada 192, vg .....	50	Hallcrafters S-95, g .....	18
Fada 790, vg .....	100	Hickok 533-A tube tester, f .....	40
Fada Neutrodyne kit radio, g .....	80	Home brew crystal set, g .....	40
Famsworth ET-060, f .....	20	Home brew, 1-tube, g .....	60
Firestone 4-A-12, g .....	45	Home brew, 2-dial, (2), f, vg .....	20, 50
Firestone S-7403, vg .....	40	Home brew, 3-dial, (2), f, g .....	25, 45
Freshman 3-dial, g .....	50	Home brew, Radiola VIII parts, g .....	90
Freshman Masterpiece, vg .....	120	Howard 901A, g .....	25
Freed-Eisemann 10, vg .....	70	Kardon 3-dial, vg .....	90
Freed-Eisemann NR-12, g .....	45	Kennedy XV, e .....	550
Garod 5A2, vg .....	50	Kismet 3-dial, vg .....	60
GE 4082, f .....	230	Kolster K-20 w/K-46 speaker, e .....	80
GE E-68 console, f .....	35	Kolster K-60 tombstone, vg .....	150
GE F-85 console, g .....	85	L. Tatro 32v tombstone, g .....	90
GE M-52, g .....	50	L. Tatro battery cathedral, g .....	80
GE S-22 Jr., with table, e .....	245	L. Tatro tombstone, g .....	45
		Majestic 5LA80, g .....	65
		Majestic 49-B mini-tombstone, Deco, g .....	395
		Majestic 90 console, f .....	50
		Majestic 461 tombstone, (2), g, vg .....	110, 205
		Meck 5AD, g .....	45
		Melco Supreme, vg .....	180
		Metrodyne Super 5, f .....	20
		Mitchell 1250 Lullaby, g .....	20
		Mitchell 1251 Lullaby, g .....	25
		Motorola 5A9M, vg .....	60
		Motorola 53H, green, vg .....	90
		Motorola 58A, g .....	30
		Motorola 59X, g .....	20
		Neutrowound C-6, black, g .....	450
		Neutrowound Super 6, black .....	550
		Northome, e .....	23
		Olympic 666 transistor radio, green, g .....	40
		Ozarka 4-Dial, (2), g, vg .....	105, 95
		Packard-Bell 46-A, e .....	120
		Pantheon Electric 622, g .....	30
		Peerless speaker, vg .....	40
		Philco 16 tombstone, vg .....	145
		Philco 37-650 console, (3), g, g, vg .....	80, 130, 220
		Philco 37-82 cathedral, vg .....	210
		Philco 38-12, g .....	30
		Philco 38-38 console, f .....	50
		Philco 42-321, f .....	15
		Philco 42-390 console, g .....	70
		Philco 44 cathedral, g .....	125
		Philco 46-1226 radio/phonograph, g .....	55
		Philco 48-230, wedge, e .....	90
		Philco 48-608, vg .....	100



A bid of \$160 bought this Atwater Kent Model 55 radio inside a unique Pooley 7500 console cabinet.

Philco 49-500, g	30	Scott 310 radio/phonograph, f	100
Philco 49-501, vg	310	Sentinel 5646S, g	120
Philco 53-706 lamp and clock, e	100	Sentinel Treasure Chest, g	33
Philco 54C, g	70	Setchell-Carlson 408 frog eyes, g	25
Philco 70 cathedral, (2), f, vg	140, 280	Setchell-Carlson 427 frog eyes, vg	25
Philco 87 lowboy, g	120	Setchell-Carlson 437, 32 Vdc, e	40
Philco 89 portable, vg	90	Silvertone 4212, vg	45
Philco 46427, in original box, g	45	Silvertone 4509, red, vg	500
Philco PT-2, g	20	Silvertone 4764, green, vg	110
Pilot FM converter, vg	15	Silvertone 4764, vg	70
Pilot TV-37 3" TV, vg	200	Silvertone 7025 candy cane, g	40
Raytheon tube caddy, old, WT, g	70	Silvertone 8070A, g	25
RCA Radiola 18, (3), f, g, g	25, 50, 80	Silvertone telephone dial, e	250
RCA Radiola 20, (2), g, vg	60, 90	Sobell 615, English, vg	225
RCA Radiola 25, g	40	Spartan polo figures, ivory, Deco, vg	475
RCA Radiola 100-A speaker, vg	55	Sterling R-411 tube tester, vg	95
RCA Radiola III, g	40	Stewart-Wamer 751H, g	85
RCA Victor 2-XF-91, AM/FM, g	25	Stewart-Wamer 9160, g	70
RCA Victor 8X542, g	25	Stewart-Wamer World's Fair, vg	335
RCA Victor 9W51 end table radio-/phono, f	40	Stromberg-Carlson 145-L console, vg	400
RCA Victor 9X571, (2), g, g	20, 30	Stromberg-Carlson 350-V console, e	450
RCA Victor 17K console, g	80	Stromberg-Carlson 920-H	30
RCA Victor 45-EY-3 Bakelite phono, e	40	Sylvania tube display rack, e	60
RCA Victor 45X11, g	25	Temple G1408, g	20
RCA Victor 45X12, f	23	Thorola 55, g	40
RCA Victor 56X, g	20	Trav-Ler 5054, f	18
RCA Victor 66X2, g	33	Triplett signal generator, e	80
RCA Victor 96-E chairside, g	50	Trophy baseball radio, vg	675
RCA Victor 96T7, g	50	Tube(s): (15) flats assorted (994 ct.)	80
RCA Victor 96X2, vg	90	Tube(s): (3) boxes misc. pulls, g	40
RCA Victor 98X8 Little Nipper Plaskon, g	475	Tube(s): 00A with KMA box, (1), N.O.S., e	70
RCA Victor 910 KG, g	60	Tube(s): 01-A, (4), dud, BBT	20
RCA Victor K-60 console, f	43	Tube(s): 39 sealed Zenith, (1), N.O.S., e	15
RCA Victor K-80 console, f	35	Tube(s): Airline 01-A, (1), gold, vg	35
RCA Victor RL-722 tombstone	110	Tube(s): assorted box, g	100
RCA Victor sign, TV-Radio Service, g	80	TV-3B/U tube tester, e	250
		University 315-C speaker/cabinet, g	120
		Utah cone speaker, vg	70
		Waters 334A wattmeter, e	40
		Welton (Space Helmet), e	110
		Westinghouse H-126 refrigerator, g	70
		Westinghouse WR-28 tombstone, g	120
		Willard B-eliminator, vg	70
		Yaesu FL-2100B linear amp, e	220
		Yaesu FT-101EE transceiver, e	290
		Zenith 4B106, radio only, vg	110
		Zenith 5B01, g	20
		Zenith 5R236, vg	160
		Zenith 5S228 tombstone	265
		Zenith 5S338 chairside, e	240
		Zenith 6D2615, boomerang dial, e	75
		Zenith 6G001	90
		Zenith 6S254 console, e	425
		Zenith 6S362 console, e	300
		Zenith 7G017, g	20
		Zenith 7S363 console, e	275
		Zenith 8G005YTZ1 Trans-Oceanic, e	125
		Zenith 8S568 console, vg	150
		Zenith 12S370 console, e	475
		Zenith 3000-1 Trans-Oceanic, e	200
		Zenith 50610, f	18
		Zenith G15W, g	43
		Zenith Royal 500E transistor radio	25



This top-of-the-line, 11-tube, 1939 Stromberg-Carlson console Model 350-V console went to a \$450 bid.

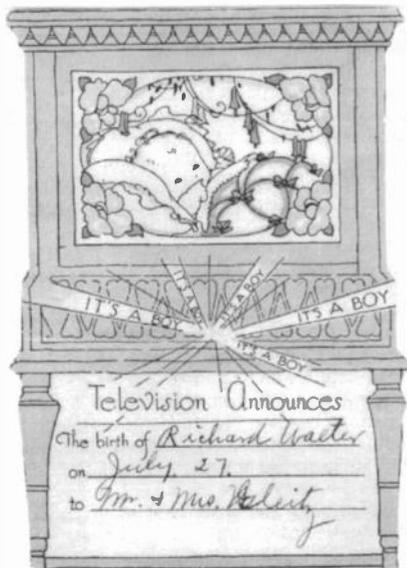
(Gene Harris Auctions, 203 South 18th Ave., Marshalltown, IA 50158, 1-800-862-6674. Jim Boellstorff, 608 Newcastle Rd., Marshalltown, IA 50158)



# RADIO MISCELLANEA

"Radio Miscellanea" includes items of general interest selected from A.R.C.'s incoming correspondence. "In The Marketplace" items are based on information submitted by the businesses themselves. "From The Internet" items are obtained from internet newsgroups and other internet resources. Submitted items should be verified for accuracy; items may be edited by A.R.C. for publication, and publication is not guaranteed. See the masthead for more details.

## Birth Announcement Prophecy



Dear Editor:

I thought that my 1934 birth announcement might be of interest. My parents must have been prophetic since I have spent my life in electronics — radio/TV servicing in the late 1950s and the next 35 years as an Electrical Project Engineer doing industrial and electric utility control systems. Since retiring, I have been collecting old radios, several of which I obtained through ads in A.R.C. I eagerly look forward to seeing it every month.

Richard Gleitz, York, PA

## A.R.C. — Keep It Coming!

Dear Editor:

Enclosed is a check to renew my subscription. Please keep it coming because I enjoy it a lot!

Your magazine introduces me not only to great articles that are informative, but also to many fine collectors who give good advice about the products I want. They are also honest about what they sell.

Again, thank you for such a fine magazine.

Paul Gannello, Oak Park, IL

## My Revere 400 Is Stuck

Dear Editor:

I have a question about the Revere 400 portable radio that I hope someone can answer. How does one remove the chassis from this radio's leather, camera-like case for service or repair?

Melvin R. George, San Jose, CA

## More RCA TV Land Memories

Dear Editor:

It was with great interest that I read a reprint of Ray Bintliff's article on his experiences as an RCA engineer in the early days of television (A.R.C., June 1999) in the RCA retirement newsletter. I was employed by RCA in February 1947, and I remember Ray — his neat appearance, suit, tie, topcoat, briefcase, glasses — though I did not know him personally. I felt he was the only person capable of doing field service work. This picture remained with me all these years.

My partner and I went out on antenna installs, and before we were given a truck, we traveled around the east side of Manhattan by trolley car. We carried 6-foot masts, tools, cable, and a drill.

I also remember the blizzard of 1947 when we were not able to move the trucks for three days. The only service calls we could make were those reachable on foot.

This article brought back many pleasant memories. Hank Eisemann, Middle Village, NY

*It's good to know that A.R.C. article reprints (granted with our permission) evoke responses from an even wider audience. (Editor)*

## "Carpinchoe" Defined

Dear Editor:

Your correspondent Ted Rogers (May 2000 *Miscellanea*) asked about the word "Carpinchoe," a material he said that Stromberg-Carlson used to support the edge of loud speaker cones. The Oxford English Dictionary contains the following entries: "A local name in South America for the capybara. These great rodents are generally called 'carpinchos.' ... When alarmed, the carpincho utters a kind of grunting cry. ... It is 4 feet long and weighs about 98 pounds — the largest extant rodent quadruped, nearly allied to the guinea pig. ... Lives about the rivers of tropical South America. ... Some naturalists call it the 'water-hog.' ... Food consists exclusively of grass and vegetables."

So the carpincho is a capybara, the world's largest rodent. Interestingly, the Catholic Church defined the capybara as a fish, so it could be eaten on Fridays.

I guess Stromberg-Carlson could charge more for carpinchoe leather than for rat leather!

Harold Kirkham, Pasadena, CA

Dear Editor:

Responding to Ted Rogers' inquiry regarding the carpinchoe (also carpincho), I found that it is fine, soft grained leather similar to pigskin. It is from the hide of the capybara, an edible South American rodent, resembling a guinea pig. This is the largest rodent in existence, reaching four feet in length. (*Webster's Third New International Dictionary, Unabridged*)

G.M. Crabtree, Lewisburg, PA

*Stump your radio friends with "carpinchoe!" (Editor)*



# CLASSIFIED ADVERTISEMENTS



**WANTED:** Old brass gadgets. Scientific and surveying instruments. Antique brass microscopes. Allan Wissner, Box 102, Ardsley, NY 10502. (914) 693-4628. E-mail: [wissner@bestweb.net](mailto:wissner@bestweb.net)

**WANTED:** Radiola I, will pay top price for one in excellent condition. Sonny Clutter, 3645 N.W. 29th Cir., Camas, WA 98607. (360) 834-5741. E-mail: [radios@radiology.com](mailto:radios@radiology.com)

**WANTED:** Collections, bulk and estate sales of radios, tubes, literature, advertising, etc. Radio Daze, LLC, 7 Assembly Dr., Mendon, NY 14506. (716) 624-9755. Fax: (716) 624-7857. E-mail: [info@radiodaze.com](mailto:info@radiodaze.com). Web: <http://www.radiodaze.com>

**WANTED:** Remler radio/phono Model Scottie. Amaud Vrand, Lauwestraat 67, B-8560, Belgium. Fax: 09 32 56 42 63 30. E-mail: [arv@unicall.be](mailto:arv@unicall.be)

**WANTED:** Sony AM stereo/FM stereo walkman SRF-A1. Karl Ayer, N9PXE, 9913 Heather Dr., Mequon, WI 53097. (262) 242-0571. E-mail: [kayercpa@ratedg.com](mailto:kayercpa@ratedg.com)

**WANTED:** Cabinet and dial knob for Musicaire 517, cabinet for Airline 62-351 (toaster style), cabinet and dial for Zenith 9001. Also need: (2) pushbuttons for Coronado 803, knobset for Philco 54C, dial pointer for Zenith 5K04, and dial cover and pointer for Westinghouse WR226. Tony LaMartina, 13325 W. Dahlia Dr., Boise, ID 83713. (208) 939-3769

**WANTED:** The books, Experiments With Electricity and Wireless Handicraft by St. John. Robert Stapleford, 1800 S.W. Randolph Ave., Topeka, KS 66604-3158

**WANTED:** (2) Zenith chassis, speakers, knobs Model 8-S-154. Eddie Enrique, 1824 Wylie Dr., Modesto, CA 95355. (209) 576-8170

**WANTED:** Escutcheon for Philco cath Mod 144B (as shown on page 64 Ramirez Philco radios). Has top shadow meter. Also, IF coil for Crosley Mod 154, p.n. in Riders G10-25444, secondary is tapped, IF 456. Thank you. Bill Nelsen, 3911 Osgood Ave. N, Stillwater, MN 55082. (651) 439-7118. E-mail: [jnnsk@uswest.net](mailto:jnnsk@uswest.net)

**WANTED:** Philco 90 cathedral speaker w/single 47, Scott Allwave 12 speakers. Thomas Peters, PO Box 3925, McAllen, TX 78502. E-mail: [oskimo@juno.com](mailto:oskimo@juno.com)

**WANTED:** Zenith 12 and 15 tube shuttercliff chassis and speakers. Frank Drost, 1120 Scarborough Ln., Woodbury, MN 55125. (651) 730-7407

**WANTED:** Crystal sets, collection now at (450) pieces, seeking more. Erwin Macho, Ambrosweg 17A/8, A-1230 Vienna, Austria. Fax: +431/8874355

**WANTED:** Tube hi-fi/commercial amps, mixers, etc. Altec, Ampex, McIntosh, Fisher, Scott, Dynaco, Leak, Heath, Marantz, etc. Sonny Goldson, 1413 Magnolia Ln., Midwest City, OK 73110. (405) 737-3312. Fax: 3355. E-mail: [SonnySound@aol.com](mailto:SonnySound@aol.com)

**WANTED:** Antique quack medical, Electrotherapy, Diathermy, X-ray equipment. Wallpapers, cabinets, shockboxes, made by Wappler, Thompson-Plaster, McIntosh, Ovington, Liebel Flarshiem, Victor, etc. Dr. Albert Abrams E.R.A. devices (oscilloclasts, dynamizers). Spectrochromes (colored light projectors). Tesla, Oudin, induction coils. Books or catalogs dealing with electrotherapy or quack medical equipment. Please visit my web site at [www.radiantslab.com/quackmed](http://www.radiantslab.com/quackmed). Send picture, description or call. Mr. David Rickert, 2107 S. 5th St. Apt. 1, Arlington, VA 22204-1931. (703) 486-2782. E-mail: [rickertd@gdls.com](mailto:rickertd@gdls.com)

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A.R.C. Advertising Policy  
Sellers and Buyers, Please Note!  
Advertising is accepted only for early items related to radio, communication, etc. All items must be described fairly; reproductions, reprints and not-original items must be so identified. Advertisers must agree to respond promptly to inquiries and orders, to resolve problems promptly if the buyer is not satisfied, and to comply with a buyer's refund request on unaltered returned items.  
.....

**WANTED:** DeForest parts for Unit Receiving Set (4 1/2" square Bakelite panels). Emie Hite, 2625 Colecreek Ln., Rock Hill, SC 29732. (803) 366-9998. E-mail: [hite@charlotte.inf.net](mailto:hite@charlotte.inf.net)

**WANTED:** Seeburg amplifier #830-3 for a 1940 Seeburg Colonel jukebox. Any other spare parts would be helpful. Call or write: Tom, PO Box 870, Oxford, NY 13830. (607) 843-5516

**WANTED:** For Zenith FP6VA phono: Zenith 142-95 (or equal) cartridge/stylus and 3-4 ohm Zenith speaker w. transformer #WC11752 (or equal). Greg Blosskey, 5036 Alexander Ave., E. Chicago, IN 46312. (219) 398-3795, eve., Sat., Sun.

**WANTED:** Viking FF-75 tape transport and recording electronics. Also Ampex Model 6D2 tape deck with recording electronics. Neil Koenig, 14108 Sylvan St., #1, Van Nuys, CA 91401. (818) 989-4137, please phone collect

**WANTED:** Bendix Model 853 and 953 radios. Radios need not work. Aaron Mall, 903 Dropleaf Ct., Baltimore, MD 21208. (410) 486-8813

**WANTED:** Metal back for Arvin 441-T (hoppy) & visit website: [www.interestinggoldjunk.com](http://www.interestinggoldjunk.com). James J. McGrath, W2IOJ, 2 Centerview Ln., West Seneca, NY 14224-2124. (716) 675-0160. E-mail: [w2ioj@interestinggoldjunk.com](mailto:w2ioj@interestinggoldjunk.com)

**WANTED:** British crystal sets, detectors, crystal tins. Please note I've moved! Ian L. Sanders, 1175 Teresa Ln., Morgan Hill, CA 95037. (408) 778-7547. E-mail: [ilsande@ibm.net](mailto:ilsande@ibm.net)

**FOR SALE:** Musicaire 112T - \$60. Olympic 6-502 - \$65. Emerson 541, wood - \$40. 5+ page list. Jacob, PO Box 9374, N. St. Paul, MN 55109. (651) 777-6791

**FOR SALE:** Have (1,500) transistor radios. List is 23 pages, will mail or e-mail. Doug Ferrero, W8YNZ, 70173 Hillside Ct., Romeo, MI 48065. (810) 336-0120. E-mail: ynzdsd@bignet.net

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**FOR SALE:** Sencore GG25 color TV gen, Zenith portable radio, Royal six-forty early Heathkit AM gen., assor. Weston meters, Wheatstone bridge, not in original case, priced to sell, retiring at 88. John Mednansky, 2437 S. Ed St., Bisbee, AZ 85605-6448

**FOR SALE:** Dual electrolytic capacitors. 50-30 MFD at 160 VDC - \$3.75 each for 4 or more. Includes P&H. Six other values in stock. Also new manufacture twist prong, stud mount, clamp mount, and octal based capacitors. Call or write for free flyers. DH Distributors, PO Box 48623, Wichita, KS 67201-8623. (888) 684-0050 v/f

**FOR SALE:** Zenith Trans-Oceanic 3000-1, plays on FM only, case and handle good - \$75. George Fitzpatrick, 204 N.E. 17th Ave., Fort Lauderdale, FL 33301. (954) 467-7036

**FOR SALE:** Switches: toggle, push, lever-tum types, all types - \$1 each. SPST, SPDT, DPST, DPDT, 125 v. See Radio Shack 1999 catalog p. 186. Minimum purchase \$10.00 including postage \$3 J.J. Papovich, 165 Trellis Ln., Sewell, NJ 08080. (856) 464 6741. E-mail: jjpapo@juno.com

**FOR SALE:** Crosley Model VI (1923) with original packing box and warranty card, excellent condition - \$325 or Best Offer. Bill Adams, 5510 Pineywoods Rd., Riner, VA 24149. (540) 382-1778

**FOR SALE:** Electricity, Edison, Marconi, wireless, radio, television. Second Hand Prose Bookshop, 8 Main St., Keyport, NJ 07735. Jerry Simkin, Bookseller, 10 Avalon Ln., Matawan, NJ 07747. (732) 583-5196. E-mail: gsimkin@monmouth.com

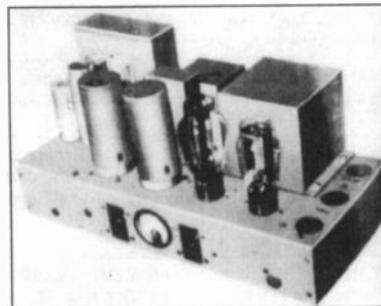
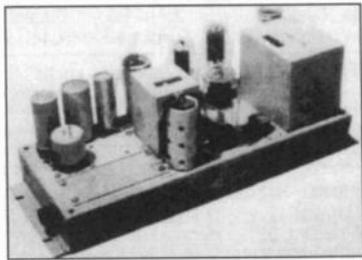
**FOR SALE:** Hallicrafters S-95. VHF receiver, near mint - \$90 + UPS. Vintage tube CBs, LSASE/list. Charles Zafonte, N1FRX, RR3 Box 2075, Fort Kent, ME 04743. (207) 834-6273

**FOR SALE:** Crystal radio kits, complete with face panel, base board, variable capacitor, prewound coil and many parts for old style radio, remit - \$22.50. Carl & Grace Ent., 5636 Romeyn, Detroit, MI 48209

**FOR SALE:** Original blank 1890s Western Union telegraph form with attached receipt, limited supply - \$6 ppd. Herman Fothe, 5292 Tiffany Ann, West Palm Beach, FL 33417. (561) 688-2794

**FOR SALE:** Books, magazines, periodicals, brochures, ads, Sams, Riders, service info, all that stuff. 54-page list. Dave Sutherland, PO Box 201, Spofford, NH 03462. (603) 363-4459. E-mail: echocove@cheshire.net. On-line at: www.echocove.com

**FOR SALE:** 1000+ tubes on sale at www.radiotubes.homepage.com, or send one stamp to: Joe Knight, 2328 Meverett Ln., Cordova, TN 38133



Always wanted Western Electric theatre amps, speakers, horns, drivers and tubes. Also seeking vintage tube equipment by Marantz, McIntosh and Tannoy. Thank you.

**Chong Ong**  
10223 Valentino Dr. #7304  
Oakton, VA 22124  
Tel. (703) 255-3218  
Fax (703) 255-3718  
E-mail: ongt88@erols.com

WANTED: Base for JVC Videosphere Model 3240, black. Will purchase whole set if necessary or just the base. Plain base (without clock) preferred. Sonny Clutter, 3645 N.W. 29th Cir., Camas, WA 98607. (360) 834-5741. E-mail: radios@radiolaguy.com

**Classified Ad Deadline Noon**

June 10 for July 2000 Issue

July 10 for Aug. 2000 Issue

Boxed, Photo, & Display Ads - 1st

WANTED: Old electrolytic condensers, stud mount type and nuts/washers. Need not be good. Also schematic/other information for 1940 Continental Piano radio. Julian Brook, PO Box 130307, Birmingham, AL 35213. (205) 879-1191. Fax: (205) 870-9255

WANTED: E.H. Scott! E.H. Scott! E.H. Scott! Interested in Scott battery and AC sets, military, accessories, advertising, and literature. Check with us before selling your items we are very serious Scott collectors. Radio Daze, LLC, 7 Assembly Dr., Mendon, NY 14506. (716) 624-9755. Fax: (716) 624-7857. Web: <http://www.ehscott.com>

WANTED: Escutcheon for Stewart-Wamer cathedral, Model 1251, pictured on p. 191 of M.A.J.A. Vol. 1. Will gladly send you photo and dial tracing to help you match it. Bret Menassa, 580 Jefferson Dr. #112, Deerfield Beach, FL 33442. (954) 480-9512. E-mail: bmenassa@worldnet.att.net

WANTED: GE K64, Westinghouse W64 or WR37, or RCA 121 cathedral radio. Mark Hewitt, 6659 Tipperary Trl., Roscoe IL 61073. (815) 623-8729. E-mail: mhewitt@inwave.com

WANTED: TM 11-2627 and adapter MX-949 for Signal Corps tube tester I-177. Gwen Cathcart, 4110 Georgetown Dr., Kenner, LA 70065

## A. G. Tannenbaum

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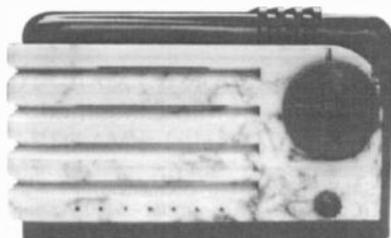
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WANTED: Prewar plastics by Detrola, Kadette, RCA, Philco, etc. My cousin Vinny and I, we was thinking, "Hey, we got the cash," (a cool mil, to be exact), "so let's spend some before dem girls gets hold of it." You know what I'm saying? Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

WANTED: For AK53 (43 & 46) 1st AF and 2nd AF audio transformers. Tony LaMartina, 13325 W. Dahlia Dr., Boise, ID 83713. (208) 939-3769

WANTED: Philco 89C '40, Admiral B, 29-G5. Ichiro Yamada, 10-21 Chiyodadai-cho Kawachi Nagano-shi, Osaka, Japan 586-0027. Ph./fax: 011-81-721-52-4695, mid/eve..local. E-mail: yamada1r@d9.dion.ne.jp (New)

WANTED: Zenith Royal 500D in black, need variation without the 500D on the front and speaker grille will look like it's pushed in rather than out. Karl Ayer, N9PXE, 9913 Heather Dr., Mequon, WI 53097. (262) 242-0571. E-mail: kayercpa@ratedg.com

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**FOR SALE:** Philco PT-25 - \$40. Crosley fiver 511 - \$65. Emerson 250-AW, excellent - \$100. Plus shipping. Arthur Kreitner, 2013 East Belle Ave., Belleville, IL 62221. (618) 233-5610

**SEND ALL A.R.C. MAIL TO**  
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**FOR SALE:** Philco 49-1401 Boomerang R-RP; AM-100 N.I.B., Comtronics AM transmitter - \$150. Advent 300 receiver - \$130. David Hafner DH110 preamp - \$60. Panasonic RFO 15 tiny transistor. McKay Dymek AM tuner, best AM tuner made. Silvertone 2001 metal four tube - \$40. Parting out 1949 Admiral and Motorola 7 inch TVs. Millen 608, 2 inch scope - \$65. **WANTED:** Handheld Marine band radio. Charles Harper, 2000 Jackstown Rd., Paris, KY 40361. (859) 484-9393. E-mail: charper@kyk.net

**FOR SALE:** 1935 Crosley Model 655 tombstone, plays well - \$150. RCA Radiotron 4th - \$75. Pickup. J.C. Toms, 1074 Spring Bay Rd., East Peoria, IL 61611

**FOR SALE:** Dial belt kits, dial lamps, cloth covered power cord, capacitors, Hammond transformers, GC Electronics supplies, refinishing products, etc., etc. Radio Daze, LLC, 7 Assembly Dr., Mendon, NY 14506. (716) 624-9755. Fax: (716) 624-7857. E-mail: info@radiodaze.com. Web: <http://www.radiodaze.com>

**FOR SALE/TRADE:** RCA Radiola UZ74325 loudspeaker - Offers? Kenneth Miller, 10027 Calvin St., Pittsburgh, PA 15235. (412) 242-4701

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**FOR SALE:** Hallicrafters S20, S38E, S40, HT40. Zenith 52, chassis, power supply, speaker. Bill Coolahan, 1450 Miami Dr. NE, Cedar Rapids, IA 52402-2933. (319) 393-8075

**FOR SALE:** 1929 Majestic operation manual, Models 91 & 92 & Majestic radio log book exc. - \$60, postpaid. Darrell Combs, 6587 Pacheco Way, Citrus Heights, CA 95610. (916) 969-0635

**FOR SALE:** Heath factory assembled Malmstadt-Enke EUW-27 sine/square generator - \$40. Warren Sprague, 11855 Orlando Cir., Waynesboro, PA 17268. (717) 762-7283

**FOR SALE:** Send SASE for list of tubes test equipment radio literature and radio parts. Harry Cap, 190 Beech St., Bridgewater, MA 02324. (508) 697-8648

**FOR SALE/TRADE:** Zenith 6G801, Victor 690 radio/recorder & Kenwood 830S. A. Bruno, 24 Butternut Dr., New City, NY 10956. (914) 354-8899

**FOR SALE:** TV Zenith Model 19EC45 plus (11) extra boards plus Goodman's book, Servicing Zenith Modules - \$70 plus shipping. L. Slaton, 404 Pebblebrook Dr., Baton Rouge, LA 70815

**FOR SALE:** New Amperex 6CD7/EM34 - \$35 ea. SASE gets a free list of all tubes. Jeff Arndt, 1215 Division St., Manitowoc, WI 54220-5734. (920) 684-8830

**FOR SALE:** General Radio impedance bridge Model 650-A w/osc amp & manual - \$165 + ship. Charles Kirsten, Radio Relics, 15556 Sandra Ln., Sylmar, CA 91342. (818) 364-0491

**FOR SALE:** Parts for EICO, Simpson, Triplett, and Precision test equipment. Also test equipment. 5U4G N.O.S. - \$15. 6L6G N.O.S. - \$20. N.O.S. panel meters. Assorted. Write your needs. **WANTED:** Geiger counter, working condition. Clayton Mundine, 6112 S. Flores St., San Antonio, TX 78214

**FOR SALE:** (5) operational Zenith tubed radios, good condition - \$125, pick up only, no shipping. B. Bank, 303 Devoe Ave., Yonkers, NY 10705. (914) 476-5933. E-mail: berbank@webtv.net

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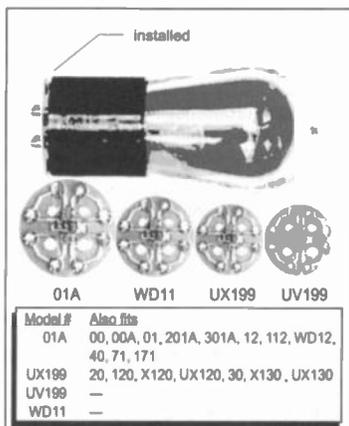
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These tube repair wafers are solid-state devices for quick and easy repair of early vacuum tubes. The wafer is installed by simply sliding it over the tube pins and reinserting the tube into its socket. If the filament is intact, but there is little or no emission, the filament may be lit for best visual effect. However, the tube can be open filament.

No change in radio operating voltages is required. Any number of tubes may be repaired in a radio. If wafers are installed on all tubes, the B+ voltage may usually be reduced without sacrificing volume or sensitivity. Performance will vary between radio models.

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**FOR SALE:** Zenith Trans-Oceanic 1000, near mint, includes log, original owner's manual and intact battery case - \$150. George Fitzpatrick, 204 N.E. 17th Ave., Fort Lauderdale, FL 33301. (954) 467-7036

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**FOR SALE:** Heathkit EF3 signal generator applications manual, test chassis & parts. 1963 but not obsolete - \$35 + shipping. Richard Flaws, 212 Mondovi Dr., Oswego, IL 60543. (630) 554-9207

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**FOR SALE:** (2) Sears Roebuck consumer guides, 1909 catalogue. (1) Montgomery Ward & Co. cat. 18, 1875 catalogue. Florian A. Rogowski, 25103 Cunningham, Warren, MI 48091-1477

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**FOR SALE:** Crosley Cat. 124 clean, working no damage - \$300 + S/H. Carlos Gimenez, 15091 Shamrock Dr., Fort Myers, FL 33912. (941) 482-0198

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**FOR SALE:** Used and N.O.S. vacuum tubes at very fair prices, typical: 24A - \$2; 26 - \$4; 27 - \$2; 80 - \$4. Original AK instruction books, sheets and radio log cards. Andrew Toross, 425 Old Country Rd., Orange, CT 06477. (203) 795-4523

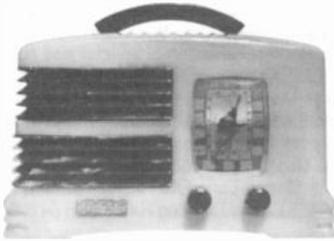
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**WANTED:** Symphony and Detrola Catalins. If only you knew how necessary these radios are to my very existence. Gee, if you knew that you'd probably never call or hope I'd wither away ending once and for all these stupid ads. Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

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**WANTED:** Escutcheon for Buckingham 80. Ray Elkins, 5238 Dunmore Dr. SE, Aumsville, OR 97325. (503) 364-9961. E-mail: relkins@wvi.com

**WANTED:** Country Belle radio by Guild. Also looking for parts for this radio too. James Bailey, 803 N. Waukesha, Bonifay, FL 32425. (850) 547-4985. E-mail: baileyj@digitalexp.com

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**WANTED:** Dial face for Hallicrafters SX62. Lowell Todd, 3552 Greenway Pl., Shreveport, LA 71105

**WANTED:** Back and knobs (or parts set) for Arvin 8" metal TV Model 4080T. Sonny Clutter, 3645 N.W. 29th Cir., Camas, WA 98607. (360) 834-5741. E-mail: radios@radiolaguy.com

**WANTED:** Dial pointer for Zenith H-725, dial cover Pilot T-601, Knight T-150 transmitter, Knight R-100, National NC-98, RCA 9X561 junker or both IF transformers. John Broadbrook, W1TYS, 20 Overlook Dr., New Milford, CT 06776-4742. (860) 354-6998

**WANTED:** Badly: Emerson table record player (my childhood toy) brown & yellow wrap around case, 2 knobs on front, no lid. To see changer, look at page 315 Riders Automatic Record Changer. Got to have. Allan Ferris, 2479 W. Blue Lick Rd., Sheperdsville, KY 40165. (502) 543-8233

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**FOR SALE:** In Door County, Wisconsin or will ship: your choice of my vast collection of antique and collectible radios, including military, foreign, transistor, amateur, cathedral, tombstone, novelties. ARC5s and dynamotors. Multibands, recorders, TVs, transcriptions, test equipment, early hearing aids. Antique books. Uniforms. Need to sell. For catalog, send three-stamp LSASE to: Cherry Lane Old Radios, John Enigl, Sr., K9HJL, 5425 Cherry Ln., Egg Harbor, WI 54209. (920) 743-3672

**FOR SALE:** Radios, tube type 1924 to 1960. Frank Vaillancourt, PO Box 726, Woodstock, VT 05091. (802) 457-3482

**FOR SALE:** Large stock of like new meters, round, square, 2", 4" SASE for list. Bill Riley, W7EXB, 863 W. 38th Ave., Eugene, OR 97405-2375. (541) 345-2169

**FOR SALE:** Juvenile fiction book, Radio Boys Under The Sea, by Duffield, 1923 - \$15 + \$5. Earle Drake, Box 1808, Hyannis, MA 02601

**FOR SALE:** Nice RCA tube caddy - \$50. Larry Cooper, 425 Court St., Rockwell City, IA 50579. (712) 297-7232, days

**FOR SALE:** B&K CRT tester 465, manual - \$80. B&K tube tester 500, manual - \$95. B&K tube tester 700, manual - \$120. Eico amplifier HF81 - \$80. Heathkit SW717 - \$70. Rauland amp 4100C - \$95. Lafayette 20C - \$60. Heathkit tube tester TTI, manual - \$225. Plus S/H. William J. Brinkley, Jr., 4501 4 St. North, St. Petersburg, FL 33703-4730. (727) 526-1014

**FOR SALE:** (100) Technician Circuit Digest, workbench library & TV schematics. Garrard phono base B1 B2. Sams Photofacts. Ann Bichanich, Jay's, 15 W. Lake St., Chisholm, MN 55719. (218) 254-4421

**FOR SALE:** RCA Radiotron 3rd - \$40. Everybody's Radio Manual - \$20. Draughts books and magazines, rare collection - BO. SASE for list. J.C. Toms, 1074 Spring Bay Rd., East Peoria, IL 61611

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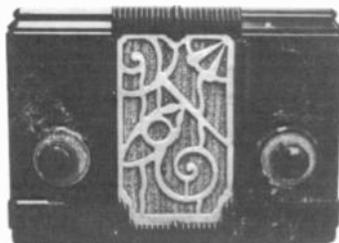
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**WANTED:** Canadian Marconi MSA & MST Series amplifiers, tuners and any related information. Barry A. Janov, 2454 Dempster, Ste. 416, Des Plaines, IL 60016. (847) 827-9100. E-mail: marconifon@aol.com

**WANTED:** National HRO5 to HRO60, SW-3, Collins SC-101 console. Masahiro Nada, 3-15-39 Nishishizu Sakura Chiba Japan. Fax: 011-81-43-487-1688. E-mail: nada@fsinet.or.jp



**WANTED:** Kadette pictured, Detrola, RCA, Air King, etc. prewar plastics. I am new to the field of collecting but have plenty of money to live with big mistakes. Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

**WANTED:** Tiny tube coat pocket size plastic radios. Mint or mangled. Typewriters collected. Paying \$500 to \$1,000 for over 75 oddball early typewriters, including basket cases. Mike Brooks, 7335 Skyline, Oakland, CA 94611. (510) 339-1751, evenings. E-mail: miniwave@aol.com

**WANTED:** World War II military publication titled: TME-227A Japanese Radio Communications Equipment, in excellent condition. Richard Sharisky, PO Box 521, Belmont, MA 02478. (617) 484-5784. Fax: (617) 489-6592

**WANTED:** For 9-X-561, gold plastic cursive nameplate "RCA Victor" 2.125 inches long (Bunis #1). Robert Wheaton, W5XW, 16015 White Fawn, San Antonio, TX 78255. (210) 695-8430

**WANTED:** Sony TC788 tape recorder manuals, band knob Panasonic RF1600 radio. **FOR SALE:** RCA Radiola 62 - \$300 pickup. Speaker for Majestic 70 and 72 - \$50. Ray Barnes, 38 Woodmere Rd., Framingham, MA 01701. (508) 877-5232

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**WANTED:** Back for Philco 40-130, Arvin tombstone chassis. Patrick Franzis, N10CJ, 235 Millville Ave., Naugatuck, CT 06770-3848. (203) 723-8976. E-mail: old\_radios@yahoo.com

**WANTED:** RCA Model 121 cathedral. Must be complete, original, and working. Send letter to: John A. Pompeo, 1328 Warren Ave., Jackson, MI 49203

**WANTED:** (2) Pilot #1282-L vernier dials w/1259 knobs and bezels in good condition, (used on Pilot Wasp and many other Pilots). The following new axial lead capacitors: .001/600V, .005/600V, .01/600V, .02/600V and .1/600V. Brands, Cornell Dublier Black Cat or Type PM, Sangamo Type 33, Mallory Gem and Sprague Black Beauty, red lettering only. Michael E. Franzen, 1618 Effie St., Los Angeles, CA 90026. E-mail: mfranzen@neteze.com

**WANTED:** Electron tubes, ball bearings, radio & aircraft receivers & transmitters, connectors, lamps, relays, switches, breakers. Hy Ness Company, 709B Delair Rd., Monroe Township, NJ 08831-4212. (609) 395-1116. Fax: (609) 395-1117

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**FOR SALE:** Radio Troubleshooter's Handbook, third edition, 1943, by Alfred A. Ghirardi, HB, good cond. - \$20 plus shipping. Phone or write: Thomas Burnside, 4838 S. Westhaven Dr., Jackson, MS 39209. (601) 922-2235

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**FOR SALE:** Sams 111-140 in (3) Sams binders, fair/good - \$35. QST 1948, 1949 magazines (24+) in QST binders - Offers. Admiral 17K22 TV w/Bakelite cabinet, 17CP4, all or parts. Charles G. Phillips, Jr., 8607 Rembrandt Cir., Newark, DE 19702. (302) 832-9592

**FOR SALE:** European radios: Grundig table 4070/U stereo, 2 speakers BC/SW1/SW2 FM, stereo - \$150. Lowe Optawood table, hi-fi Fonovox Bella Type 05710 - \$75. Frank J. Manzano, 82 Monhegon Ave., Oakland, NJ 07436. (201) 337-5263. E-mail: fjd2000@aol.com

**FOR SALE:** Too many radios, books, parts and tubes in my collection. **LSASE. WANTED:** Chassis 21/Kennedy 30/32 (A.R.C. Sept. 1998, p. 9). W.F. Horn, 13110 Marsh Rd., Bealeton, VA 22712. E-mail: wehcoll@tidalwave.net

**FOR SALE:** (4) RCA drapes and enough to make I believe (4) more. One Buick auto radio Model 981320, 1993 yr. Ernest Jones, 1204 Bond St., Kinston, NC 28501. (252) 523-4654

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July 6-9, 2000

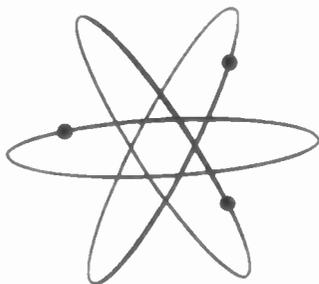


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Note: Everyone attending EXTRAVAGANZA must register! The monies collected as a result of registration are a major source of revenue that help pay for this event. Your cooperation is appreciated.

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\* Includes MARC membership from July-December 31, 2000.

**FOR SALE:** Automatic Radio 50th Anniversary (1970) cuff link, tie clasp set - \$25 includes shipping. Herb Parsons, 5 Surret Ln., Peabody, MA 01960. (978) 535-1009, after 6 pm

**FOR SALE:** Sterling R-510 tester for AC & DC tubes, with instruction card copyrighted 1928, both in good condition - Taking Offers. Harry M. Books, Jr., W3PSU, 699 Red Mill Rd., Eters, PA 17319. (717) 938-6694

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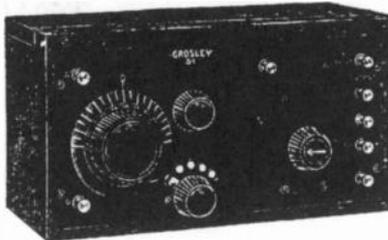
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WANTED: Dial glass, pointer, escutcheon and knobs for Zenith 6-S-223. Also Lafayette brand tubes. Jack Ghere, 1753 Community Beach Rd., Odin, IL 62870. (618) 532-5548

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WANTED: Set of knobs for a Motorola table top TV Model 9T1. Gregg Humanic, 540 Wicklow Ln., Monroe, OH 45050. (513) 539-8926

WANTED: Horns, I have (15) reproducers, Sarkes Tarzian hi-fam or FM radio receivers, microelectronic radio kit radio, table model radios made by Fordson, Detroit, Mich., especially 4-tube TRF in metal box. James Fred, 5355 S, 275 W, Cutler, IN 46920. (765) 268-2214

WANTED: Old black wrinkle Army and Navy aircraft radios from the 1930s. Top dollar! William Donzelli, 15 Gen. MacArthur Dr., Carmel, NY 10512. (914) 225-2547. E-mail: aw288@osfn.org

WANTED: Zenith Trans-Oceanic Royal 7000-1 volume knob (any of the 4 similar knobs there will do)! David Mednick, 10 Doe Dr., Wesley Hills, NY 10901-2302. (914) 354-5041. E-mail: davemed@acd-pc.com

WANTED: Spark transmitter, buying all types. Call: George Panagiotides, 68 Kedrinou St., 11522 Athens, Greece. Ph: 011-301-642-9800

WANTED: Crosley 124 chassis and speaker. Decnet shape, need not work. Phillip Majewski, PO Box 92, Tamaqua, PA 18252. E-mail: philco@hazleton.net



WANTED: Air King Skyscrapers, wealthy extraterrestrial seeks examples of this architectural marvel for new intergalactic communications museum. Please write or call collect: Rain Buttigiol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

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205F \$200 NOS, \$100 used  
211A/D/E \$300 NOS, \$175 used  
212A/D/E \$750 NOS, \$300 used  
216A / 217A \$175 NOS, \$90 used  
228A \$100 NOS, \$50 used  
231D / 257A / 281A / 349A \$50 NOS  
242A/B/C \$200 NOS, \$100 used  
244A / 249A \$25 NOS  
252A \$1100 NOS, \$650 used  
261A \$150 NOS, \$75 used  
262A Balloon / 275A \$90 NOS, \$50 used  
262B \$40 NOS, \$15 used  
264A/B/C \$30 NOS, \$15 used  
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274A / 274B \$250 NOS engraved base  
276A \$100 NOS

300A / 300B \$850 NOS (engraved base)  
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45 Balloon "Meshplate" \$110 NOS  
50 Balloon \$200 NOS, \$110 used  
50 Balloon "Meshplate" \$275 NOS  
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80/280 Balloon \$30 NOS, \$13 used  
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**FOR SALE/TRADE:** Silvertone 3026 - \$35. 1934 tombstone Emerson 36 - \$100. 1940s wood Sky Chief, nice - \$45. 1930s RCA tombstone 8572 - \$85. Stromberg-Carlson 1935 Model 61W - \$95. 1930s Motorola - \$35. 1950 RCA 9X561 - \$45. Sentinel 335P - \$35. Photofact Service for 51 & 53 TVs, both - \$5. Radio Amateur's Handbook & License Manual, both - \$10. Receiving Tube Manual app. 1940 - \$5. Thomas Guastella, 633 W. 11th St., Brooklyn, NY 11223. (718) 256-8367

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**FORSALE:** 1923 Neutrodyne receiver, radio constructor drawing - \$8. Johnson Viking 6N2 VFO - \$13. Joe Duffin, 4 W. Central Ave., Moorestown, NJ 08057. (856) 778-1436

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**FOR SALE:** N.I.B. Sony ICF-2010 - \$295. Sony ICF-2001, mint - \$195. Sony ICF-Pro-80, new boxed - \$250. Grundig YB-400 PE new boxed - \$175. All + shipping. Gerald Silver, 10863 W. Clairmont Cir., Tamarac, FL 33321. (954) 720-1972

**FOR SALE:** Philco chassis Model 42-1011 code 121, 10 tube in good condition - \$50. Crosley chassis Model 1128, 11 tube clean in good condition - \$40. Above + UPS. Phil Guinan, 106 Page Rd., Litchfield, NH 03052. (603) 889-6213

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**FOR SALE:** N.I.B. Bud No. CK-356, lo-coil kit, range 11-210 meters - \$150 ppd. Also N.I.B. LGB passenger train set w/trans Model 20301 - \$400 + \$35 shipping. John Nosbaum, W9BJP, 2743 Wilmette Ave., Wilmette, IL 60091. (847) 256-0547

**FOR SALE:** Zenith D720P FM only - \$40 plus UPS. Two good used globe 01-As - \$30 ppd. Alva May, 6823 U.S. Hwy. 340, Shenandoah, VA 22849. (540) 652-8638

**FOR SALE:** Bogen television booster Model BB-1, has two 6J6 tubes, missing front knob - Make Offer. Ken Lemke, 1452 Fall Crk. Rd., Canisteo, NY 14823. (607) 698-4938

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**WANTED:** Help, please, top dollar for Trav-Ler Mod 5028-A Snakeskin, cosmetically clean, no rips, cracks, or missing parts please. Clifford Crater, 902 N. Atlanta Cir., Seaford, DE 19973. (302) 629-6296

**WANTED:** Instruction manual for an RCA WV77A junior volt ohmyst. Allan Deeg, Box 73, Admiral, Saskatchewan, Canada S0N 0B0. (306) 297-3014

**WANTED:** 1920s 32-volt electric Delco radio. Michael Morrell, 17290 N.E. 28th St., Williston, FL 32696. (352) 528-4692

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**WANTED:** Blue glass tubes. Arcturus and others. George H. Fathauer & Assoc., LLC, 688 W. First St., Ste. 4, Tempe, AZ 85281. (480) 968-7686. E-mail: fathauer@home.com

**WANTED:** Base for Musicmaster horn speaker. See my website [www.interestinggoldjunk.com](http://www.interestinggoldjunk.com). James J. McGrath, W2IOJ, 2 Centerview Ln., West Seneca, NY 14224-2124. (716) 675-0160. E-mail: w2ioj@interestinggoldjunk.com

**WANTED:** Thordarson 45665, Triad HSM189, UTC S4, R12, R22, HA135. Lary Rubins, 172 Bennington Dr., E. Windsor, NJ 08520. (609) 426-9744. E-mail: larvt@aol.com

**WANTED:** Type E, F, G, H, J, AA, AB and AC coils and coil box for National HRO-50T1 receiver. Globe Chief, Globe Scout, Johnson Navigator or Ranger, Heath AT-1, DX-20, DX-35, DX-40 or similar transmitter. ARC-5 receiver with power supply. 1940s/1950s vintage earphones. Morgan Godwin, 166 W. 87th St., #901, New York, NY 10024-2901

**WANTED:** Looking for the Utah Superflex mushroom-shaped hard rubber speaker. One in working condition would be nice. Also want 45 rpm records of the 1950s and 1960s... the little record with the big hole in the center. Especially the ones with the picture envelope of the artist. No big band, easy listening or jazz, looking for stuff like Fats Domino, Beach Boys, Roy Orbison, Ricky Nelson, etc. Thanks. Dave Crocker, 4B Beechwood Point Dr., Mashpee, MA 02649. (508) 477-1578, before 9 pm please

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**WANTED:** Magazines: Short Wave Craft, 1930 thru 1936. How many? How much the lot? Bob Ryan, 1000 S. Gilbert St., Apt. 67, Hemet, CA 92543-7315



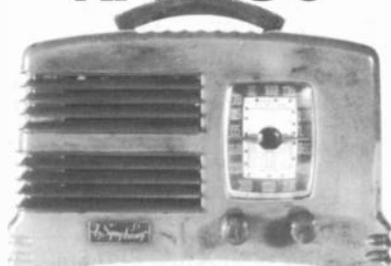
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**WANTED:** Owners operation information for the Atwater-Kent Tun-O-Matic incorporated on Models 509 and 511. Dale R. Johnston, 1305 Guadalupe Dr., Westminster, MD 21157. (410) 848-5279. E-mail: dalejohn@ccpl.carr.org

**WANTED:** I collect quality portable SW multiband radios: Philips D2999; Panasonic RF8000; Braun T1000; Zenith green military; 1960s (WRTH) hand books; front cover for Sony CRF 330K. Denis Burke, 308 Person St., PO Box 137, Runnells, IA 50237. (515) 966-2871. E-mail: zeenith@msn.com

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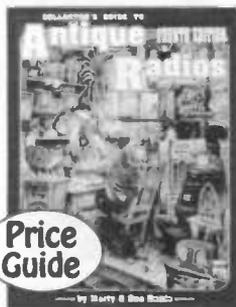
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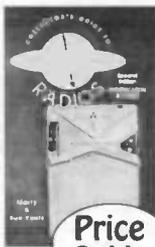
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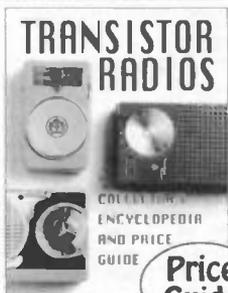
**The Collector's Guide to Vintage Televisions**, Durbal & Bubenheimer. *Size of the screen, year of manufacture, cabinet composition, and current value for over 1,400 vintage TVs made from 1945-1960 and transistor TV sets through 1980. 200+ color photos. Price guide. 176 pgs. .... \$15.95*



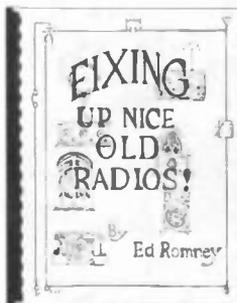
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Guide

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**Transistor Radios, A Collector's Encyclopedia and Price Guide** by Robert Lane and David Lane. *Identification guide to over 2,500 transistor and novelty radios. History and key to collecting chapters, 170 pages. — \$19.95*



Price  
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(Apr-00)

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(Apr-00)

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**FOR SALE:** Pair Altec Valencias - \$2,000. Pair huge Bozak Symphony B-4000 - \$1,000. Lots more. V. Vogt, 2311 Pimmit Dr. #114E, Falls Church, VA 22043. (206) 295-4418. E-mail: v22043@webtv.net

**FOR SALE:** Zenith 10-S-669 excellent - \$175. Claude Chafin, 4223 E. 42nd Way, Independence, MO 64055. (816) 478-4518. E-mail: n0fmo@msn.com

**FOR SALE:** Novelty radios, N.I.B. Dod 10" long, Sanyo radio watch - \$20 each, shipping extra. Steve Whited, 3637 W. 71st St., Indianapolis, IN 46268. (317) 298-9967

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**FOR SALE:** Silver Marshall (Sargent Rayment) 710 construction and operation booklet, color reprint - \$17.50. Jim Berg, 4261 Wilcox Rd., Box A, Northport, WA 99157. (509) 732-4047. E-mail: jimberg@webtv.net

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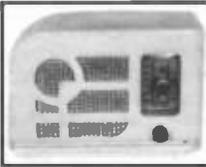
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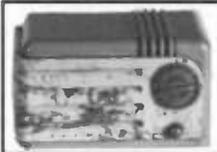
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 YELLOW \$425.00, RED \$1,200.00  
 EMERSON AU 190 & BT 245 YELLOW \$1,300.00, GREEN \$2,500.00,  
 DARK RED \$2,700.00, BLUE \$6,850.00,  
 BRIGHT RED \$11,000.00,  
 ESPEY MIDGET, YOU NAME THE PRICE I WILL PAY IT!  
 EMERSON BM258 YELLOW \$750, GREEN \$1,350, RED \$2,150, BLUE \$4,000  
 EMERSON 564 BLACK \$500.00, GREEN \$1,150.00, RED \$1,650.00  
 FADA L56, F55, 52, 5F50, 5F60, 136, 53X, YELLOW \$1,500.00, LT GREEN \$1,750.00  
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 RED & YELLOW \$6,000.00, GREEN & YELLOW \$6,250.00,  
 MOTOROLA 52 YELLOW & TORT \$1,500.00, MAROON & YELLOW \$1,850.00,  
 GREEN & YELLOW \$2,900.00,  
 SONORA KM ANY COLOR \$1,600.00,  
 SENTINEL 284 WAVEY GRILL YELLOW \$700.00, SAND 950.00,  
 RED 1,450.00, BLUE 6,500.00  
 SPARTON CLOISSONNE ANY COLOR \$3,500.00 TO \$5,500.00,  
 EMERSON 520 \$500.00

**FOR SALE:** BC 221 freq mtr - \$75. Carter 6/12 v dynamotors. Philco #20 cath. Old GE 2 case FM 2 way 30-50 MHz. Dave Schidtko, 1101 N.E. 1st St., Fairbault, MN 55021. (800) 500-8055. E-mail: dschmid@lakes.com. Web: http://villa.lakes.com/tbone

**FOR SALE:** Mint Philcos 70 & 90 cathedrals - \$500, \$800. Grandfather clock radio - \$800. Richard Bednarcik, 28 Steele Ave., Lincoln Park, NJ 07035. (973) 694-6374

**FOR SALE:** Trans-Oceanic 1000, works, good condition, orig. logbook - \$165. Trans-Oceanic Royal 7000-1, USA, complete minus logbook, plays - \$270. Knight 100-A, works - \$135. Zenith 6G801, plays - \$75. Zenith H500, complete with manual and good red ladder line and suction cups, looks nice, complete with logbook, not tested - \$175. Zenith Royal 790 Navigator, with original 9-V Zenith power pack - \$85. Zenith Royal 880 - \$40. RCA 881 console, pickup only - \$175. Nice Truetone, Mod 2611, cream, plays - \$135. Older Scott, SW receiver SLR-12-B chassis with orig. knobs and eye tube - \$140. World Star multi-band receiver, looks nice and works - \$75. Coors Light AM/FM hat radio, N.I.B. - \$30. Frost Jones headset, Mod 175, 1500 ohm - \$30. Frost Jones, Mod 174 - \$30. Brandes Superior headset - \$25. Also, Brandes headset, no cord - \$20. Federal Telephone and Telegraph headset, Type 53-W, 2200 ohms - \$45. Shure microphone, SM96, 2000 ohm condenser - \$85. Radio Shack crystal radio set, unbuilt, N.I.B. - \$23. Official Gensback Manual, circa 1931 - \$30. Practical Radio Construction and Repairing, 353 pp. - \$28. Basic Television, Grob, 3rd Ed. - \$12. Elements of Electronics, Hickey, 549 pp. - \$23. Radio Engineering Handbook, 945 pp. - \$32. Radio Operating Questions and Answers, circa 1929, 267 pp., HB - \$35. ARRL 1987-88 Tech and General Class Manual - \$16. ARRL Radio Amateur's Handbook, rare, circa 1930 - \$50. Arvin Mod 8571, parts, handle, knobs, etc. - \$18. Panasonic, Mod R-1599, AM only - \$25. Zenith T-O 3000, not tested - \$95. Hallicrafters speaker - \$65. Arvin FM only, Mod 30R12 - \$25. Astatic mike, Mod 335H-7 - \$25. Old porcelain knife switch, 4 or 5 in - \$8 each. Parting out NC300 - Call. Robyn, yellow face, 40-channel, 9-tube CB, needs minor work - \$70. GE Mod 100, circa 1946 - \$60. RCA 96T5, works - \$75. Arvin 35-86 - \$40. National NC57, parts - Call. S41-G and Ecophone, parts and knobs - Call. Hallicrafters S-40, S-77, and SX-100 parts - Call. Have Trans-Oceanic parts. Sprague Model TO-3 resistor-condenser analyzer Tel-ohmike with eye tube - \$30. Jackson, Model 640, test oscillator - \$40. Also have mics for sale - Call. Sam's Auto Radio Photofacts Series, various years, call - \$7 each or, two for - \$12. Essentials of Radio, 1948, 806 pp. - \$30. All of the above + S&H. Also, see ad in April, p. 56, and May, p. 44 for reduced prices, call or e-mail. Ron Crowe, PO Box 117, Handley, WV 25102. (304) 442-8179. E-mail: rcrowe@wvutec.edu

**FOR SALE:** Two Zenith Golden Triangles for parts - \$60 plus shipping. Eric Miller, PO Box 778, Linn, MO 65051. (573) 897-4121

**FOR SALE:** Zenith T-O 1000, original manual & service info, like new - \$50. Royal 7000 manual, photocopy - \$20. Ed Kalpa, 4622 Melbourne Ave., Los Angeles, CA 90027. (323) 661-1221

**FOR SALE:** 17-inch B&W picture tube, 17BZP4, N.I.B. Gordon Wilson, 11108 50th Ave., Edmonton, Alberta, Canada T6H 0H9. (780) 434-6257. E-mail: wilsons@freenet.edmonton.ab.ca

**FOR SALE:** RCA service manuals redbooks 1935, 1936, 1937 - \$35 ea. Motorola service manual 1937-42 - \$20. Sylvania Service Hints Vol. 3 - \$6. Hallicrafters SX-28 40 pp. service manual, copy - \$8. Dan Gutowski, PO Box 142, Dexter, MI 48130. (734) 433-1354

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**FOR SALE:** Optical & Electronic Research, Inc. 3D passport camera with flash, uses polaroid film - \$75. Fisher 250TX receiver, solid state - \$125. Fisher 440-T receiver, solid state - \$125. H.H. Scott Model 99A, 1954, tube mono amp - \$125. RCA transistorized portable radio RGM-49E - \$30. RCA tube type portable radio, 1955, Mod 6-B-5B - \$30. About 3,000 Sams Photofact folders, call for model lookup and available numbers - \$3 each. Garrard RC-88 Mk. II record player w/bases - \$65. "Electronic Technician Circuit Digests" Mar. 1954 to Aug. 1961 - \$35. Philco misc. service manuals 1960 & 1961 - \$20. All prices plus UPS. Bob Lynn, 26 E. Orchard St., Somerville, NJ 08876. (908) 685-9070

**FOR SALE:** Emerson 520 Catalin (see Bunis 2), fair to good condition - \$140. GE 522-F maple/gold Art Deco table radio with clock, very pretty - \$30. 5-tube homebrew radio, rough, with very nice Acme parts - \$45. Scrapbook of 90+ schematics, Fada, Crosley, Kennedy, A/K, Meissner, others - \$45. Mar-Co Reproducer field coil, cabinet fair/poor but restorable - \$15. Rek-O-Kut Challenger portable record cutter, mono, in big suitcase, with two tonearms, blank discs - Best Offer. Rauland AO-2362-1 mono power amp with (4) 2A3s - \$350. Unusual Claviline electronic keyboard with amplifier, made/marketed in 1954 by Gibson - \$110. Stromberg-Carlson stereo integrated amp, Mullard EL84s, with matching tuner - \$130. Organ amp/power supply with (2) big Stancor 41X-4 power transformers - \$50. Webcor powered speaker with small tube amp built-in - \$20. Hom midranges, tweeters and crossovers from Klipsch Heresy's - \$125 all. (1) EV Wolverine MR-10 midrange horn and CR-10 crossover, N.I.B. - \$50. KEF Chorale III minimonitors - \$100 pair. Unknown minimonitors, similar to Braun/ADS, as is - \$30 pair. N.O.S. Triad F-22 filament transformer, 6.3 volts @ 20 amps!! - \$25. Beautiful chrome 4-element mike, for accordion?, looks like a car bumper! - \$35. Many good used tubes: 12AX7s - \$2 ea.; 12AU7s - \$150; 5U4Gs - \$5; 5U4GBs - \$150; 6BG6s - \$1. Box lots, all are N.O.S.: 60+ misc diodes and transistors - \$15; (4) selenium rectifiers - \$6; several hundred vintage resistors - \$8; 30+ vintage volume controls - \$45; 80+ N.O.S. electrolytic capacitors, many are multi-section - \$55; 20+ military high-voltage bathtub capacitors - \$15; (9) vibrators - \$5; (8) RF/IF coils - \$5. Loose tubes (untested) box lots: (120+) loctals - \$15; (300+) metal tubes, 32 pounds - \$25. (4) record changer spindles for 45 rpm - \$10 all. Paper: Modern Radio Servicing, 1935 - \$12; Radio for the Millions - \$5; RCA TV PictoGuide 1952 - \$6; Sylvania tube manual - \$12; RCA RC-16 - \$10; Raytheon tube poster - \$12. Will consider reasonable offers. Freebies, local pickup only: Hallicrafters military equipment rack, 10 field coil speakers, as is. All plus shipping. C.J. Poulos, 29 Doubleday Rd., Columbia, CT 06237. (860) 228-7680, to 9 pm EST. Fax: 228-7681, anytime. E-mail: TbStkBgje@aol.com

**WANTED:** Predicta screen plate 21", no cracks or scratches. Roland Frolund, 1265 Linn Ct., Turlock, CA 95380. (209) 668-1959. E-mail: rrolund@aol.com

**WANTED:** Coronado console radio with Gamble-Skogmo chassis no. 807-B, working or not. Cabinet only will be considered. Have photos of what I want if you request them. Steve Danielson, 7630 Grand Oaks Cir., Lincoln, NE 68516. (402) 472-8693. E-mail: sdanielson1@unl.edu

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**WANTED:** Duston's Radio Library, Vol. 1-12. Looking for all info on Merle Duston. Will purchase or pay for copies. Richard Dzick, 37079 Tamarack Dr., Sterling Heights, MI 48310-4159. (810) 268-4671. E-mail: n8mq@aol.com

**WANTED:** 1940s televisions: Garod; Belmont 21AX22; DuMont Clifton RA102; Emerson 545; Farnsworth GV260; Automatic; Cleerview; Videodyne. Ed Dessau, 40 Verma Rd., Monroe, CT 06468. (203) 452-1981. E-mail: ekdessau@aol.com



**WANTED:** Fada Catalins. I like 'em perfect or in pieces - whatever you have to offer. Don't humiliate yourself by letting some other "big shot" collector take advantage of you. Go ahead and use me. Uh oh! Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

**WANTED:** Headset that fits on for RCA Radiola 17, 1929. Dan Trombley, 54 Cherry St., Rutland, VT 05701

**WANTED:** Microphones wanted. Top prices paid for: RCA 44 BX, RCA 77 DX, RCA KU 3A, WE 639. Also: RCA On Air lights and RCA Recording lights. Fast and courteous service. Bill Bryant Management, 955 Davidson Dr., Nashville, TN 37205. (615) 352-3456. Fax: (615) 352-1922. E-mail: billbryantmgmt@home.com

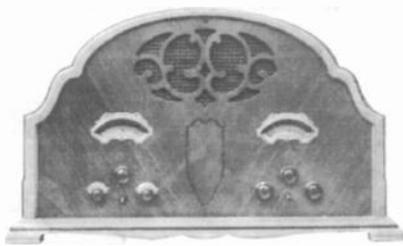
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Andrew Mooradian,  
5 Priscilla Lane  
Winchester, Massachusetts  
01890  
tel. 781-729-1873 after 7 pm



**WANTED:** Western Electric 753, 713. Have other Western Electric, Tannoy GRF to trade. F. Cooney, 30 Columbia Ave., Cranford, NJ 07016. E-mail: fjc1z@worldnet.att.net



**WANTED:** The above Pilot radio, will pay up to \$1,500 or trade. Call: Bill Moore, 1901 Spanish Oaks, Huntsville, AL 35803. (256) 885-0068. E-mail: bmoore2nd@aol.com

**WANTED:** Shortwave converter for Stewart-Warner 1932 console upright style radio, model is 104-A. Dennis Luyon, 6058 Phillips-Rice Rd., Cortland, OH 44410. (330) 637-9319, call after 6 pm Eastern

**WANTED:** Prewar Capeheart power & audio amp section for a Panamuse 22 M-2 FM. Also need glass dial plate and main speaker. E.J. Crummey, 11560 Sunshine Ter., Studio City, CA 91604. (818) 506-4828. E-mail: jcrummey@primenet.com

**WANTED:** Need help to make a gear for old phonograph 2 1/4" x 1/8" with 84 teeth and 1/8" shaft hole. FOR SALE: Nice S-38B - \$40. AK 32 near mint NT - \$80. D. W. McDonald, 1813 Main Ave., Clear Lake, IA 50428. (515) 357-2446

**WANTED:** Heathkit vibrator tester Model VT-1, copy of manual needed. Stan Marlin, Box 1035, Assiniboia, Saskatchewan, Canada S0H 0B0. (306) 642-3824. Fax: (306) 642-5381

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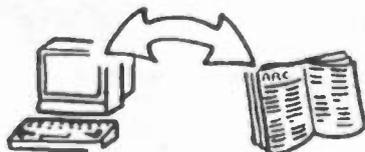
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(Jun-00)

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(Apr-00)

**FOR SALE:** Zenith cube 5J217, nice; R615; 4G800ZY, not too bad; some consoles too. Philco 20, case needs 5 grille bars only, chassis untested - \$135. Radiola 18, nice. Radiola 66, fair - \$120. RCA TV 8-TK-29, RBA806, chassis KCS32A, fair case, clean chassis; Crosley 3-dialer, parts set; Knight Span Master; 45 rpms Decca P-902 & RCA 9-JY; Motorola speaker TU-324A; Hallicrafters S-40, poor, parts?; S-94, works; small lot magazines: (2) 73, (17) QST, (5) Ham Radio, 40s, 50s, 60s & 70s. More, send wants. E-mail for jpegs. **WANTED:** Grunow 7B chassis, Philco 118 cathedral cabinet and 650 tombstone cabinet. Wilbur Gilroy, PO Box 459, Lake Winola, PA 18625. (570) 378-2508. E-mail: wbrg@aol.com

**FOR SALE:** 1940s, 50s radio hardware collection, 10 lbs., jacks, plugs, sockets, switches, trimmer capacitors, etc., mostly N.O.S. - \$25. Ellsworth O. Johnson, 364 S. Coeur Dalene St., Spokane, WA 99204-1063. (509) 838-2161. E-mail: eojohnsonww2@home.com

**FOR SALE:** Watch for our web site coming soon at GN4RADIO.COM! AK 92, touched up original, rebuilt - \$750. Pilot TV, very nice - \$395. 6-tube Traveller cathedral, near mint - \$395. RCA Transistor Strato-World 1MBT 6, excellent condition - \$450. Bing Crosby Philco radio phono - \$125. Wooden Teletone speaker, excellent, driver good, 13" - \$145. Zenith 7S434 pillared table model, rare - \$550. RCA La Siesta - \$725. Sony mini-TV 5-307UW with box, excellent, with accessories - \$295. Brown Hallicrafters TW 2000 - \$195. Stewart-Warner 1231 mini cathedral, nice original - \$345. Majestic 5T white painted Bakelite, excellent original paint, slight crack on bottom, clock mirror cracked - \$395. Zenith tombstone 7S28. Zenith 10S531 large table model. Rare Zenith console 9S369. 15S479 motor drive shutterdial. Stromberg-Carlsons: 231F mirror top chairside; 130H; 130R; 225H. Cathedrals: Zenith LH - \$395; Zenith 210 - \$395; Zenith 805 - \$425. To reference our Zenith models, order our 60 page 11 x 17 Zenith Brochure Book for - \$28.95 ppd. The Story Of Zenith: 1954 booklet Zenith reprinted 10 years ago - \$9 ppd. Most Trans-Oceanics available - Call. Many Rlders's manuals available including 3, 17, 18, 20 - Call. Zenith consoles: Aviatix; 15S373; 15U270; 15U479; 12H689; 12S568; 12S569; 12S471; 12S370; 12S371; 12S265; 12S266; 12S268; 12U159; 12U158; 12A58; 12A57; 980; 11S474; 10S470; 10S153; 10S155; 10S156; 10S160; 9S54; 9S55; 9S262; 9S264; 9S365; 9S367; 9S369; 8S154; 8S463 (5808); 8S359; 7S261 bookcase; 6S362; 7S363; 7S364; 775B; 755 and many others. Zenith chairside: 10S147; 9S244; 9S344; 7S342; 7S340; 7S240; 6S239; 6S238; 6S203 phono; 6S241 bar radio. Zenith table models: 4K535; 5S126; 5S127; 5S319; 6S322; 6S528; 7S432. Cathedrals: LH; L; 210; 805; 6D029; 6D630; 7S323; 6S439; 6V27; 6S27; 6S128; 6S229; 8S443; 10S130; 12S445; 8S531; 288; 711; 807; and others. Others available: Stromberg, Philco, GE, RCA, Fada. We can and do ship consoles and we do it right. All radios unrestored electrically unless noted. Satisfaction guaranteed, highest quality assured. New free parts and supplies catalog. We offer complete chassis restoration service on all radios, including complete speaker repair - Call. Visiting Minneapolis? Visit our store at 5200 Bloomington Ave., 5 minutes from the airport. Visa, MC, Discover. Alan Jerspersion, PO Box 17338, Minneapolis MN 55417. (612) 727-2489. Fax: (612) 821-4821, 8 am to 5 pm, Tues.-Fri., Sat. 10-3. E-mail: mte612@aol.com

**FOR SALE:** Grebe MU-1 excellent - \$325. Music Master mahogany wood horn speaker - \$325. Pilotone 5TRF - \$165. Crosley Super Trirdyn Special - \$165. Arborphone battery set - \$160. Zenith 69 very ornate Highboy - \$325. Philco 70 cathedral - \$485. Freshman Masterpiece w/ built in speaker - \$160. Emerson 38 very nice - \$150. Atwater Kent 20C - \$125. 20 Big Box - \$110. AK "E" cone speaker - \$75. J. Gary Cameron, 824 Andrews St., Southington, CT 06489. (860) 276-9200

**FOR SALE:** Philco portable Model 42-842, great condition, plays very strong & great reception - \$40 including shipping. David Spivey, #1 Rocky Valley Cove, Little Rock, AR 72212. (800) 505-0621, weekdays

**FOR SALE:** Speaker RCA 103, good condition - \$125. Margaret Johnson, 32793 Amberidge Dr., Roseville, MI 48066. (810) 294-9342

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**FOR SALE:** Aeriola Jr., nice crystal radio, repro label and one replacement detector part - \$575. Scott Balderston, 707 Watch Island Reach, Chesapeake, VA 23320. (757) 549-0449

**FOR SALE:** Stewart-Warner 51T136, Philco PT30 repaired cabinet, Motorola A12N23UL, working - \$15 each. Jim Clifford, KE4DSP, 108 Bayfield Dr., Brandon, FL 33511. (813) 654-7531. E-mail: j.c.clifford@juno.com

**FOR SALE:** Truetone Stratoscope D2615, Midwest chassis 1700847 15 tubes, Spartan chassis 2997Q3. Tony Weir, 1422 Belgrove Dr., St. Louis, MO 63137. (314) 869-9348. E-mail: karen.weir@gte.net

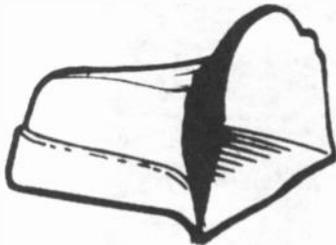
**FOR SALE/TRADE:** Awesome Pioneer SL-L1000 linear tracking turntable w/Shure RX-47 new stylus, perfect condition, in orig. box, packing, manual, etc. McIntosh 230 stereo integrated tube amp/preamp, 30 watts per channel, walnut case, very powerful, like new. Westinghouse Refrigerator, almond, H-134, rebuilt including speaker - \$175 OBO. Precision Model 612 tube checker, wood case, checks newer tubes, Nuvistors, Novars, etc. - \$75. RCA 74 Jr., very nice on Deco stand. Altec 639-B on 24-A teardrop stand, cloth nice, orig. paint very good. Weston Bakelite lab meters, 1 AC, 1 DC, 1 red mottled line meter. Will trade any or all of the above for the following items or cash purchase: German Bakelite symbol/eagle People's Radio or other. **WANTED:** WWII and cold war era Enigma machines and other spy stuff. Radio, transmitter, receivers, cameras, etc. Always looking for vintage mics, have several to trade. Particularly, RCA 77-C, Telefunken U-47 power supply, Model NG, Neumann CMV-3 bottle. Always looking for tube compressors, EQs, mics, preamps, etc. Demand items go to highest bidder. Don't be bashful! Make offer. The more you buy the cheaper it gets! Ward Kremer, 5807 Papaya Dr., Ft. Pierce, FL 34982. Ph./fax: (561) 468-7732. E-mail: WKremer798@aol.com

**WANTED:** Crosley gold dial table radios. Crosley knobs. German table radios. Sonora nameplate. Clem Petrick, RR1 Box 79, Portland, ND 58274. (701) 786-4003

**WANTED:** Whole collection of back issues of AWA Old Timer's Bulletin. Harry Blesy, N9CQX, 9S740 Clarendon Hills Rd., Hinsdale, IL 60521. (630) 789-1793

**WANTED:** Addison A2 and Fada bullet Catalin radios. I'd like one of each to round out my collection. Thanks! Dave Springer, 1115 Brookfield Ln., Wausau, WI 54401. (715) 355-0271, before 9 pm CST

**WANTED:** E.H. Scott speaker and cabinet for Allwave 23, Nelson-Ross 034 manual. Jiri Placek, 60 Applewood Ln., Boyertown, PA 19512. (610) 367-0861



**WANTED:** The horn speaker pictured above. It's made of heavy ceramic material and made by the Bennett Co., Chicago, and called the "Auditorium." Doesn't have to work. Thanks. Dave Crocker, 4B Beechwood Point Dr., Mashpee, MA 02649. (508) 477-1578

**WANTED:** Cabinet for Truetone Model D-698. **FOR SALE:** Motorola TC 101 UHF converter -- \$20. Jim Ligouri, 7 Sycamore Ct., Atkinson, NH 03811. (603) 362-5712. E-mail: Jjligouri@aol.com

**WANTED:** Wood radios with chrome grilles, miniature cathedrals, and tiny 1930s wood sets. Jay Malkin, 1250 Galapago No. 206, Denver, CO 80204. (303) 623-6451

**WANTED:** In quantities, common tube types 2050, 2051, or 502A. Bob Putnak, 1507 4th St., Monongahela, PA 15063. (724) 258-6236. E-mail: tubesound@home.com

**WANTED:** Clean Hallicrafters speaker R42, R46. Dennis Olmstead, WB9EMD, 431 Ridgewood, Glen Ellyn, IL 60137. Ph./fax: (630) 469-0531. E-mail: wb9end@aol.com

**WANTED:** TVs: 1952 Shaw with doors; Sparton 4940 Mirror-Lid. Any Farnsworth or related. Fred Ringwald, 2909-A Mesa Rd., Colorado Springs, CO 80904. (719) 635-8595. E-mail: fred.ringwald@wcom.com

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**WANTED:** Aeriola Sr. in nice condition. Also 864 tubes. Jerald Hueber, 1368 King Richard Pkwy., W. Carrollton, OH 45449-2354. (937) 866-6958. E-mail: peghueber@aol.com

**WANTED:** Pilot panels and cabinets for Pilot Super Wasp and AC Super Wasp. Richard B. Jehlik, 4441 N. River Rd., Omaha, NE 68112. (402) 457-4604, after 9 pm. E-mail: rjehlik@creighton.edu

**WANTED:** Information and/or schematic for radio with "Armed Forces Radio, Service" on the dial. Uses 6Q7, 6V6, 6X5, 6U7, 6K8 tubes. Charles Ahr, 2291 Sylved Ln., Cincinnati, OH 45238

**WANTED:** Western Electric 594A driver \$5,000. Jun Mizuno, 933 Portswood Cir., San Jose, CA 95120. Ph./fax: (408) 268-4016

**WANTED:** World War II cold era Enigma machines. Other spy stuff: cameras, radio transmitters, receivers, etc. Always looking for vintage mics: RCA 77-C, Neumann CMV-3 bottle, others. See other ad this issue. Ward Kremer, 5807 Papaya Dr., Ft. Pierce, FL 34982. Ph./fax: (561) 468-7732. E-mail: WKremer798@aol.com

**WANTED:** Top perforated cover for RCA 77DX microphone, also cradle or yoke. **FOR SALE:** Air King console from 1937, nice -- \$150, you pick up. Thanks. Ted Depto, 913 5th Ave., Patton, PA 16668. (814) 674-8834

**WANTED:** Radiola III-A parts. Radiola 17 lamp hood. Trans-Oceanic antenna clip. Mike Cutler, 2419 Ave. O, Galveston, TX 77550. (409) 763-0938. E-mail: Michaelscottcutler@worldnet.att.net

**WANTED:** Fawcett How-To books, softcover, on 1950s/60s hi-fi/stereo, etc. Others considered. Mark Skinner, 1308 Redwood Dr., Pekin, IL 61554. E-mail: skin2cats@ntslink.net

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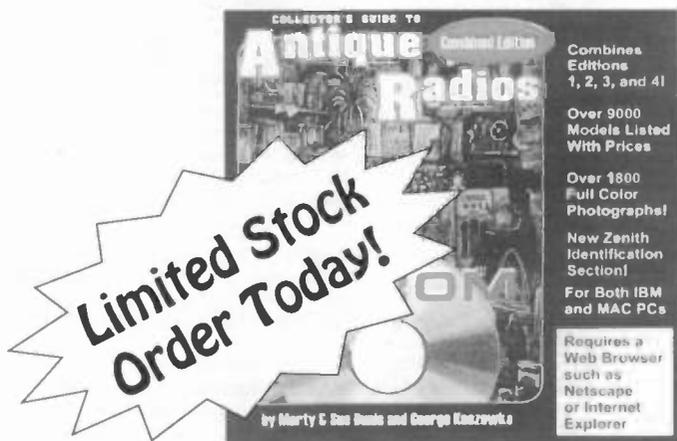
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**FOR SALE/TRADE:** RCA color bar generator, Type WR-61B, with manual - \$45. Ron Russell, 2839 Bristol Ln., Lodi, CA 95242. (209) 367-5819. E-mail: ronruss@neteze.com

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**WANTED:** RCA tube manuals: R-10/C-10; RC-12; have RC-11 for trade or trade photocopies. Gary A. Micanek, 226 Henry Ave., Manchester, MO 63011. (636) 227-7046. E-mail: micanek@aol.com

**WANTED:** Grebe CR series receivers (CR8 etc.), R Series amplifiers (RORK etc.), advertising, literature, cone speaker. Steve Wallace, 3707 Pricetown Rd., Fleetwood, PA 19522. (610) 944-7230. E-mail: kks@epix.net

**WANTED:** Philco 38-15 (Ramirez, p. 100) or dial face, pointer, and escutcheon. Also, Philco 610 or 611. David E. Maddocks, 13371 Mango Dr., Del Mar, CA 92014. (858) 350-9475

**WANTED:** Philco 70 w/original finish and brass escutcheon. Michael Harrington, PO Box 250995, Little Rock, AR 72225

**WANTED:** 1970s handheld LED calculators, all makes, models, especially HP (LED & LCD). Erik Hedegaard, 1084 Washington Ave., Pelham Manor, NY 10803. (914) 738-9422. E-mail: floete@aol.com

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**WANTED:** Sensor assembly and manual for Gamma Scientific Model 2020 photometer and operating instructions for Technology Instrument Corp. Type 310-A Z angle meter. Warren Sprague, 11855 Orlando Cir., Waynesboro, PA 17268. (717) 762-7283

**WANTED:** Buying Western Electric tubes, tubes 205D/E, N.O.S. tennis ball shape \$500; used \$340; 274A/B, N.O.S., engraved base \$265; used \$190. Tubes subject to inspection and testing. Call, write, fax or e-mail to: George Stagakis, 1714A 41st St., North Bergen, NJ 07047. (201) 867-9136. Fax: (201) 867-4044. E-mail: georgestv@aol.com

**WANTED: Zenith 25-tube Stratosphere or cabinet, any condition. Will trade from vast supply of fine radios or buy. Will pick up. Alan Jespersion, PO Box 17338, Minneapolis, MN 55417. (612) 727-2489. E-mail: mte612@aol.com**

**WANTED:** VM Model 166A Stereovoice auxiliary speaker with amplifier. John Daum, 109 Walker Dr., Butler, PA 16001. (724) 283-4785. E-mail: jcdjr@aol.com

**WANTED:** Service manual for Sony CRF-320. Walter Johns, 40 Swarthmore Rd., Wellesley, MA 02482. (781) 237-9277. E-mail: jowalkten@aol.com

**WANTED:** Western Electric amps, horn, sprk, x-fmr, wire, socket, caps, and data-sheet etc. 101, 102, 104, 205, 211, 212, 216, 217, 242, 252, 253, 262, 271, 274, 275, 276, 284, 300, 310, 339, 347, 348, 349, 350, VT2, VT25A, VT52. Others: KT66, 77, 88, RCA50/250/350, 845, Telefunken ECC81, 82, 83. Jun Mizuno, 933 Portwood Cir., San Jose, CA 95120. Ph/fax: (408) 268-4016. E-mail: jmizuno@usa.net

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**FOR SALE:** FT-727-R, handheld, xcvr, all accessories and manual - \$135. Len Gardner, 458 Two Mile Creek Rd., Tonawanda, NY 14150. (716) 873-0447

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**WANTED:** Antique quack medical, scientific devices, especially violet rays. Also open frame motors and fans. Richard Cane, 1333 N.W. 127th Dr., Sunrise, FL 33323. (954) 846-7116. E-mail: rbcane@sprynet.com

**WANTED:** Dynaco Mark III amp with cover in good cosmetic condition. Sam Swand, PO Box 271, Menomonie, WI 54751

**WANTED:** Mosley CM-1, Ten-Tec 315, RX-10, Heathkit AR-3, GE-371, Hallicrafters CR-3000. Herman Schnur, 3205 Brick Kiln Rd., Greenville, NC 27858. (252) 752-2264

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*Your payment helps to keep A.R.C. healthy!*

**WANTED:** HP Audio oscillator 204D. AKG BX5, BX15. Orban 622B manual. Thanks. John Sampson, 75 Glenwood Dr., Leominster, MA 01453. (978) 537-0092. E-mail: sampsonj@massed.net

**WANTED:** Excellent original working Pla-Pal Penthouse radio. Joseph DiCaro, 4155 Lastrada Hts., Mississauga, Ontario, Canada L5C 3V1. (905) 848-7759. E-mail: joedicaro@excite.com

**WANTED:** TV preamps; tunable boosters, especially by Standard, TEC, RMS, ITI. Visit <http://oldtv.homepage.com>. Mark Nelson, AJ2X, 17 Wentworth Rd., Natick, MA 01760-1736

**WANTED:** Cabinet (stand?) Majestic 50, three Karas Orthometric (brand) vernier dials; Karas audios. Dale Davenport, 622 S. 18th St., Ft. Smith, AR 72901. (501) 785-4929, eves.

**WANTED:** Western Electric tubes. 205D/E(TB): N.O.S. \$450; used \$320. 262A: N.O.S. \$140; used \$80. 348A: N.O.S. \$100; used \$60. 239A: N.O.S. \$50; used \$30. 264C: N.O.S. \$50; used \$30. 300A: N.O.S. \$1,000. Jun Mizuno, 933 Portwood Cir., San Jose, CA 95120. Ph./fax: (408) 268-4016

**WANTED:** Parts for Kennedy 281 receiver, late style tuning knob plus rheostat knob. Gerry Hale, 538 Camer St., Richland, WA 99352. (509) 627-6319. E-mail: gd.hale@gte.net

**WHAT IS YOUR PRICE?  
1920'S TO 1930'S RADIO**

**COLLECTION WANTED  
ESPECIALLY IF IT INCLUDES  
A SELECTION OF BREADBOARDS  
AND/OR UNUSUAL SPEAKERS.**

*Will buy as is, where is.*

**Russell Ofria**

**8432 Darby Ave., Northridge, CA 91325  
818-989-5222 days, 818-701-6181 eves PST**

**WANTED:** Dial escutcheon for Emerson Baronet. Emerson parts sets. Steve Hansman, 855 Arundel Dr. N., Arnold, MD 21012. (410) 974-0561. E-mail: Shans01a@aol.com

**WANTED:** Escutcheon for Stewart-Wamer cathedral, Model 1251, pictured on p. 191 of Machine Age to Jet Age, Vol. 1. Will gladly send you photo and dial tracing to help you match it. Bret Menassa, 580 Jefferson Dr. #112, Deerfield Beach, FL 33442. (954) 480-9512. E-mail: bmenassa@worldnet.att.net



**WANTED:** Emerson Catalin radios. Would you believe that my mother's last request is that I gather every known example of this radio ever made. I guess she wanted me to suffer a long time. Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

**WANTED:** Early radio and television advertising, magazines, catalogs, brochures, literature, etc. Thanks! R. Carobene, PO Box 650206, Fresh Meadows, NY 11365. (718) 281-0504. E-mail: cphobia@bway.net

**WANTED:** RCA radio/phono console Models 9U, 9U2, D11-2, 15U, D-22-1, 331, 341, 380, 381 or the phonograph from any. Dan Gutowski, PO Box 142, Dexter, MI 48130. (734) 433-1354. E-mail: dg16ms26@msn.com



**BUY/SELL**

**TUBES**

**NEW & USED**

**SEND FOR OUR "WANT LIST"  
OR  
OUR FREE CATALOG**

**ELECTRON TUBE ENTERPRISES  
P. O. BOX 8311  
ESSEX, VT 05451-8311**

**TEL: 802-879-1844**

**FAX: 802-879-7764**

**EMAIL: etetubes@vbimail.champlain.edu**

**SERVICES:** Quality radio schematics, Rider/Sams 1920-70 - \$3ppd. Give make/model. Richard A. Lerche, 1561 Bluebell Ct., Livermore, CA 94550. (925) 447-9365. E-mail: lerche@home.com

**E-MAIL ADDRESS FOR  
ANTIQUA RADIO CLASSIFIED  
ARC@antiqueradio.com**

**Ads - Subscriptions - Book Orders  
See inside front cover for details**

**MESSAGE:** Attention Europel Help wanted finding RCA 5T4 export tableset. E-mail for details. Reward! Dave Smith, Box 81, Olney, IL 62450. E-mail: k9uim@otbnet.com

**MESSAGE:** Yard sale: Radios, novelties, parts, computer items and electronics. June 10th and 11th. 10 am-4 pm. Nick Carrieri, 77 Haven Ave., Ronkonkoma, NY 11779. (631) 585-5815

**MESSAGE:** Owners of '34-'42 hi-fidelity table/console radios, contact me regarding book. Mark Oppat, 253 Blanche St., Plymouth, MI 48170. (734) 455-4169. E-mail: moppat@flash.net

**MESSAGE:** Send now for the World's Premier 78 rpm & Cylinder Record Auction Catalog. Nauck's Vintage Records, 6323 Inway Dr., Spring, TX 77389. E-mail: nauck@78rpm.com

**MESSAGE:** Frontier Capacitor will now accept credit cards from Master and Visa on orders, \$20 minimum. Our current beige flyer prices are good thru June first. Everett Hoard, Frontier Capacitor, PO Box 218, 403 S. McIntosh St., Lehr, ND 58460. (701) 378-2341. Fax: (701) 378-2551. Toll Free: (877) 372-2341

**MESSAGE:** There are a few C.A.R.S. calendars left. They will be available at RadioRama '00, see advertisement in this issue. Greg Tierney, 4739 Stonelick Olive Branch, Batavia, OH 45103. (513) 230-5065

**HELP:** Need 7JP4 and a 3KP4 to restore otherwise very good sets. Any leads appreciated. Thank you. Bill Morse, 15 Green St., New London, CT 06320. (860) 442-0233. E-mail: bill@tuberadiorepair.com

**HELP:** Need information and (picture/parts, as applicable), for mating the dial/tuning meter with the rectangular cabinet opening (plate, adapter, escutcheon, etc.) for a Stromberg-Carlson Model 52 console. Also need 4 skirted, brown grooved, Bakelite knobs for this radio. May call collect. Cliff Huff, 2215 Ridgewood, Carrollton, TX 75006. (972) 416-7713. E-mail: cliffordrhuff@yahoo.com

**HELP:** Need rear arch tracing of Tiffany-Tone cathedral radio (M.A.J.A. 3, p. 239). Bob Slagle, PO Box 7203, Colorado Springs, CO 80933. (719) 635-6208

**HELP:** Need assistance on getting my Wilcox-Gay Recordette Model 8J10 working. John Phipps, 1412 Navaho Trl., St. Charles, MO 63304

**HELP:** Need decals to restore 1950s Coca-Cola tube radio. Where do I get them? Thank you. Bruce Phillips, 127 Bunker Hill, Stratham, NH 03885. (603) 772-7516. E-mail: radiocorphanage@prodigy.net

**HELP:** Need vertical output transformer for Fada S7C20, Stancor A-8112, Merit A-3039 replacements. Thank you. Vertical opened after hours of work. Bill Morse, 292 Pequot Ave., 4C, New London, CT 06320. E-mail: wsm@mixmap.com

**FOR TRADE:** Excellent military version Zenith Trans-Oceanic R520URR, brown leather for Walton's set. Barry McDaniel, 6 Pecos Ln., Little Rock, AR 72212. (800) 755-3326, days

**FOR TRADE:** Multiband: Standard Mod SR-RV 4000F. Toshiba Mod 1GL825. Sony Mod PRO80, complete vg.  
**WANTED:** Zenith T-O R7000 Taiwan. Perrotta-Antonio, via Raffaele Aversa, 37, 83100-Avellino, Italy

## ABBREVIATIONS USED IN CLASSIFIED ADS

### MISCELLANEOUS

amp = amplifier  
BC = broadcast  
BO = best offer  
ca. = circa (approx. date)  
ea. = each  
F.O.B. = free on board  
IB = instruction book  
LSASE = A Long SASE  
(see SASE)  
LW = long wave  
M.I.B. = mint in box  
MO = money order  
Mod = model  
N.I.B. = new in original box  
N.O.S. = new old stock  
(an original, unused vintage item)  
NT = no tubes  
OB = in original box  
OBO = or best offer  
P&H = postage & handling  
ppd = postage paid  
(shipping included)

PS = power supply, also  
"pwr sup"  
PU = pick up only  
rcvr = receiver  
SASE = self-addressed  
stamped envelope  
(send a long, #10,  
envelope)  
spkr = speaker  
SW = shortwave  
UPS = United Parcel  
Service  
vol. = volume  
w/ = with  
w/o = without  
WT = with tubes  
xcvr = transceiver  
xfmr = transformer  
xmtr = transmitter  
xstr = transistor  
xtal = crystal

### BOOKS USED AS REFERENCES

(V.R., p 30) means *Vintage Radio*, page 30  
**Blast** = *Radio - A Blast From The Past*  
**Bunis 1, 2, 3 or 4** = *Collector's Guide to Antique Radios, 1st, 2nd, 3rd or 4th editions*  
**Collins** = *Radios - The Golden Age*  
**Douglas V1, V2 or V3** = *Radio Manufacturers of the 1920s, Volumes 1, 2 or 3*  
**E.O.R. 1 or 2** = *Evolution of the Radio, Volumes 1 or 2*  
**F.O.S.** = *Flick of the Switch*  
**Grinder/Fathauer** = *Radio Collector's Directory and Price Guide*  
**G.O.R.** = *Guide to Old Radios*  
**Johnson's A.R.** = *Antique Radios - Restoration & Price Guide*  
**M.A.J.A.** = *Machine Age to Jet Age*  
**O.T.B.** = *Old Timer's Bulletin* published by Antique Wireless Association (AWA)  
**Sidell** = *Classic Plastic Radios*  
**V.R.** = *Vintage Radio*

### CONDITION

(If good or better, mention non-original parts)  
p = poor  
g = good  
exc = excellent  
f = fair  
vg = very good

A.R.C. does not encourage abbreviations except those listed here. Please spell out all other words. Special note for hams - most subscribers are not hams so we do not recommend ham-type abbreviations.



### **ARKANSAS – Jun. 1**

**ANTIQUÉ RADIO COLLECTORS CLUB  
OF FORT SMITH – MEETING**

Fort Smith, AR – St. Luke Lutheran Church  
Waldron Road, at Free Ferry

7:30 pm

Info: Paul Tucker, 4700 N. "N" St.  
Fort Smith, AR 72904 – (501) 782-8178

### **AUSTRALIA – Jun. 4**

**HIST. RADIO SOC. OF AUSTRALIA  
SE QUEENSLAND GROUP – MEETING**

Call for Time & Location

Info: Ray Slater – (07) 3207 5294

### **NEVADA – Jun. 1**

**NEVADAN ENTHUSIASTS FOR  
ANTIQUÉ RADIOS – MEETING**

Las Vegas, NV – Sunset Road Library  
Corner of Green Valley Pkwy. & Sunset Rd.

7 pm

Info: Cort & Eileen Ancman – (702) 312-7110  
ancman@juno.com

### **NEW YORK – Jun. 4**

**GREATER NEW YORK VINTAGE  
WIRELESS ASSOCIATION  
SWAP MEET**

Lake Ronkonkoma, NY – 367 Hawkins Ave.  
8 am-Noon

Info: Chris Lieppert – (631) 471-9526  
Chris Bacon – (516) 437-7106

### **AUSTRALIA – Jun. 3**

**HIST. RADIO SOC. OF AUSTRALIA  
SYDNEY GROUP – SWAP MEET**

Avoca – 147 The Round Dr.

Time TBA

Theme: Airzone Mantels

Info: John McIlwaine – 02 4332 6008

### **WISCONSIN – Jun. 4**

**WISCONSIN ANTIQUÉ RADIO CLUB  
SWAP MEET**

Hubertus, WI – Richfield Chalet  
271 Hwy. 175

7 am-10 am

Info: Dale Boyce – (414) 353-0734  
10230 W. Greenwood Ter., Milwaukee, WI 53224

### **CALIFORNIA – Jun. 3**

**CALIFORNIA HISTORICAL RADIO SOC.  
SWAP MEET**

San Rafael, CA – Erik's Downtown Drive-In  
8 am

Info: CHRS Hotline – (415) 821-9800

### **ONTARIO – Jun. 7**

**OTTAWA VINTAGE RADIO CLUB  
FLEA MARKET – MEETING**

Ottawa, Ont. – The Ottawa Citizen  
Conference Room – 1101 Baxter Rd.

7 pm: Flea Market

8 pm: Meeting

Theme: Sparton Radio

Info: OVRC – (613) 832-3097

### **WASHINGTON – Jun. 3**

**RADIO ENTHUSIASTS OF PUGET SOUND  
MEETING – 2 pm**

Seattle, WA – Queen Anne Library  
400 W. Garfield

Info: REPS, 9936 N.E. 197th Street  
Bothell, WA 98041 – (206) 488-9518

### **VIRGINIA – Jun. 7**

**TIDEWATER ANTIQUÉ RADIO ASSOC.  
MEETING**

Call for location & directions

7 pm

Info: Vic Johnston – (757) 825-0757, eves.  
Scott Balderston – (757) 549-0449, eves.

### **Always Updating Club List**

*Please send A.R.C. the name, address, etc.  
of your club's contact person.*

*Although non-members are welcome at all  
events, joining may be required at some.  
Admission is charged at some events.*

## **ARKANSAS - Jun. 8**

**ARKANSAS ANTIQUE RADIO CLUB  
MEETING - 7 pm**

Call for Location and Directions  
Info: Tom Burgess - (501) 455-0773  
(Call to confirm details)

## **NEW JERSEY - Jun. 9**

**NEW JERSEY ANTIQUE RADIO CLUB  
MEETING - 7:30 pm**

Freehold, NJ - Grace Lutheran Church  
West Main St. & Park Ave. (Old Rt. 33)  
Info: Marv Beeferman - (609) 693-9430  
Phil Vourtsis - (732) 446-2427

## **GEORGIA - Jun. 9-10**

**SOUTHEASTERN ANTIQUE RADIO SOCIETY  
SUMMER SWAP MEET**

Alpharetta, GA - Fairfield Inn  
11385 Haynes Bridge Rd. - Exit 9, GA Hwy. 400  
(770) 663-4000 - special rate for attendees  
Time: TBA  
Info: Gordon Hunter - (770) 475-0713

## **INDIANA - Jun. 9-10**

**INDIANA HISTORICAL RADIO SOCIETY  
29TH ANNUAL REGIONAL SPRING FESTIVAL**

Indianapolis, IN - Signature Inn East  
E. Washington St. at I-465 - (317) 353-6966

**Fri.:** 7:30 am - Registration  
7:30 am-6 pm - Flea Market  
9 am-1:30 pm - Old Equipment Contest Room  
Noon - Coed Luncheon  
2 pm - Seminars  
5:45 pm - Annual Awards Banquet  
6:45 pm - Equipment Contest Awards  
**Sat.:** 7:30 am - Registration  
10:30 am - Donation Auction  
11:15 am - Auction

Info: George Freeman - (812) 265-6878  
102 E. Main St., Madison, IN 47250

## **OKLAHOMA - Jun. 10**

**OKLA. VINTAGE RADIO COLLECTORS  
MEETING**

Oklahoma City, OK - Oklahoma Station BBQ  
Springdale Shopping Center, 4333 N.W. 50th  
6 pm: Dinner - 7 pm: Meeting

Info: Jim Collings - (405) 755-4139 - jrcradio@home.com  
Frank Karner - (405) 760-4656 - fkarnr@mmcable.com

*Changes, cancellations and errors do occur. To avoid disappointment, verify place, date and time especially for events which are new to you.*

## **ILLINOIS - Jun. 11**

**ANTIQUÉ RADIO CLUB OF ILLINOIS  
SWAP MEET**

Elgin, IL - Ramada Inn  
345 River Rd.  
7 am-1 pm: West Parking Lot  
Info: A.R.C.I., PO Box 1139, LaGrange Park,  
IL 60526 - E-mail: arci31280@aol.com

## **NEW MEXICO - Jun. 11**

**NEW MEXICO RADIO COLLECTORS CLUB  
ANNUAL PICNIC**

Albuquerque, NM - 2910 Virginia NE  
Info: Chuck Burch, 39 Chaco Loop, Sandia Park  
NM 87047 - (505) 286-9674 - ChuckBurch@aol.com

## **NEW ZEALAND - Jun. 11**

**NEW ZEALAND VINTAGE RADIO SOCIETY  
WELLINGTON MEETING**

Wellington - Tiriti Hall, Te Pene Ave., Titahi Bay  
1 pm  
Info: Bob Hatton, 40 Rose St., Wadestown - 04-4728788

## **GEORGIA - Jun. 12**

**SOUTHEASTERN ANTIQUE RADIO SOC.  
MEETING WITH SHOW & TELL**

Norcross, GA - Picadilly Cafeteria  
3400 Holcomb Bridge Road  
6:30 pm

Topic: "L" "M" & "O" Radios  
Info: Gordon Hunter - (770) 475-0713  
SARS, PO Box 1055, Tucker, GA 30085-1055

## **MISSOURI - Jun. 13**

**ANTIQUÉ RADIO COLLECTORS &  
HISTORIANS OF GREATER ST. LOUIS  
MEETING**

Kirkwood, MO - Kirkwood Community Center  
111 S. Geyer Rd., Room 201-A  
7:30 pm: Meeting (earlier for conversation)  
Show & Tell, Swap Table  
Info: Derek Cohn, 8141 Stratford Dr.,  
Clayton, MO 63105 - (314) 725-2333

*A free\* listing on these pages is available for each coming antique radio event. Sponsors should provide description of event, date, time, place, directions, & information/contact person. Since listings are on a "space available" basis, no guarantee of listing is made. \*Club/museum/non-profit events are listed free; other events are obtained from advertisements placed elsewhere in A.R.C. Sorry, we don't have room for hamfests.*

## MARK YOUR CALENDAR

- Jun. 1 - AR, Fort Smith - ARCCFS Meeting
- Jun. 1 - NV, Las Vegas - NEAR Meeting
- Jun. 3 - Australia, Sydney - HRSA Meeting
- Jun. 3 - CA, San Rafael - CHRS Meeting
- Jun. 3 - WA, Seattle - REPS Meeting
- Jun. 4 - Australia, SEQ - HRSA Meeting
- Jun. 4 - NY, Lake Ronkonkoma - GNYVWA Swap
- Jun. 4 - VA, Manassas - Hamfest
- Jun. 4 - WI, Hubertus - WARC Meeting
- Jun. 7 - Ontario - OVRC Flea Market/Mtg.
- Jun. 7 - VA, TBA - TARA Meeting
- Jun. 8 - AR, Little Rock - AARC Meeting
- Jun. 9 - NJ, Freehold - NJARC Meeting
- Jun. 9-10 - GA, Alpharetta - SARS Summer Swap Meet
- Jun. 9-10 - IN, Indianapolis - IHRS/AWA Spring Fling
- Jun. 10 - OK, Oklahoma City - OKVRC Meeting
- Jun. 11 - IL, Elgin - ARCI Meeting
- Jun. 11 - IL, Wheaton - Hamfest
- Jun. 11 - New Zealand, Wellington - NZVRS Meet
- Jun. 11 - NM, Albuquerque - NMRCC Picnic
- Jun. 12 - GA, Norcross - SARS Meeting
- Jun. 13 - MO, Kirkwood - ARCH Meeting
- Jun. 13 - NC, Greenville - ECARC Meeting
- Jun. 13 - OH, Kettering - ARCO Meeting
- Jun. 13 - PA, Telford - DVHRC Meet & Auction
- Jun. 13 - TX, Houston - HVRA Meeting
- Jun. 15 - Australia, Melbourne - HRSA Gen. Mtg.
- Jun. 15 - NY, Goshen - HARPS Meeting
- Jun. 15-17 - MD, Beltsville - MAARC RadioActivity
- Jun. 17 - CA, Escondido - SCARS Swap Meet
- Jun. 17 - CA, Merced - CHRS Swapmeet
- Jun. 17 - TX, Houston - HVRA Basic Elec. Seminar
- Jun. 17 - TX, Irving - VRPS Meeting
- Jun. 18 - TX, Schertz - TARC Meeting
- Jun. 18 - WA, Seattle - PSARA Meeting
- Jun. 19 - New Zealand, Auckland - NZVRS Meeting
- Jun. 20 - CA, Sacramento - CHRS-SC. Meeting
- Jun. 21 - Austria, Vienna - Dorotheum Auction
- Jun. 21 - OH, Cincinnati - CARS Meeting
- Jun. 21 - OH, Columbus - COARA Meeting
- Jun. 23-24 - KY, Florence - CARS Radiorama 2000
- Jun. 24 - CT, E. Hartford - VRCM Swap Meet
- Jun. 26 - AL, Birmingham - ALHRS Meeting
- Jun. 27 - OH, Kettering - SPARK Meeting
- Jun. 30 - NJ, Stewartville - Radio Auction
- Jun. 30-Jul. 1 - WA, Seattle - PEMCOREPS Showcase
- Jul. 1 - CA, San Francisco - CHRS Swapmeet
- Jul. 2 - NY, Lake Ronkonkoma - GNYVWA Swap
- Jul. 5 - VA, TBA - TARA Meeting
- Jul. 6 - AR, Fort Smith - ARCCFS Meeting
- Jul. 6 - NV, Las Vegas - NEAR Meeting
- Jul. 6-9 - MI, Lansing - MARC Extravaganza '00
- Jul. 8 - OK, Oklahoma City - OKVRC Meeting
- Jul. 9 - NM, Albuquerque - NMRCC Meet
- Jul. 9 - OH, Tallmadge - BARPC Summer Picnic
- Jul. 10 - GA, Norcross - SARS Meeting
- Jul. 10 - MO, Kirkwood - ARCH Meeting
- Jul. 10 - NC, Greenville - ECARC Meeting
- Jul. 11 - OH, Kettering - ARCO Meeting
- Jul. 11 - TX, Houston - HVRA Meeting
- Jul. 11 - WA, Seattle - REPS Meeting
- Jul. 13 - AR, Little Rock - AARC Meeting
- Jul. 13 - PA, Telford - DVHRC Meet & Auction
- Jul. 14 - NJ, Freehold - NJARC Meeting
- Jul. 15 - Australia, NSW - HRSA Meeting

## MARK YOUR CALENDAR

*(Continued from bottom left column)*

- Jul. 15 - CA, San Diego - SCARS Swap Meet
- Jul. 15 - NH, Nashua - NEARC Meet
- Jul. 15 - TX, Houston - HVRA Basic Elec. Seminar
- Jul. 15 - TX, Kyle - TARC Meeting
- Jul. 16 - Australia, Melbourne - HRSA Gen. Mtg.
- Jul. 16 - CO, Denver - CRC Meeting
- Jul. 16 - KS, Overland Park - MAARC Swap Meet
- Jul. 22 - Australia, Victoria - HRSA Auction
- Jul. 22 - NC, Raleigh - CC-AWA Summer Swap Meet
- Jul. 22 - OH, Columbus - COARA Summer Show
- Jul. 23 - British Columbia - CVRS Meeting
- Jul. 29 - RI, E. Greenwich - Yankee Tune-Up
- Aug. 4-6 - IL, Elgin - ARCI Radiofest XIX
- Aug. 19 - IN, Elkhart - IHRS Summer Meet
- Aug. 26-27 - MA, Boxboro - Boxboro 2000 (ARRL)
- Sep. 6-9 - NY, Rochester - AWA Meet
- Oct. 14 - IN, Greenfield - IHRS Fall Meet
- Oct. 21 - NH, Nashua - NEARC Meet

*See expanded listing for many of these events*

## N. CAROLINA - Jun. 13

### EAST CAROLINA ANTIQUE RADIO CLUB MEETING

Greenville, NC - Golden Corral Rest.  
504 S.W. Greendale Blvd.

6:30 pm

Info: Bill Engstrom - (252) 355-8732  
Herman Schnur - (252) 752-2264

## OHIO - Jun. 13

### ANTIQUÉ RADIO COLLECTORS OF OHIO MEETING - 7:30 pm

Kettering, OH - National City Bank Basement  
4100 Far Hills Ave., at Stroop Rd.

Topic: Early TVs

Info: John Heck - (937) 435-1571  
ARCO, PO Box 292292, Kettering, OH 45429

## PENNSYLVANIA - Jun. 13

### DELAWARE VALLEY HIST. RADIO CLUB MEETING - SWAP MEET - AUCTION

Telford, PA - Telford Community Bldg.  
Hamilton & Hamlin

7:30 pm

Info: Bill Overbeck, PO Box 847  
Havertown, PA 19083

## TEXAS - Jun. 13

### HOUSTON VINTAGE RADIO ASSOC. MEETING - PROGRAM - AUCTION

Houston, TX - TBA

6:30 pm

Info: Bill Werzner - (713) 721-2242  
mingqi53@earthlink.net

## **AUSTRALIA - Jun. 15**

**HIST. RADIO SOC. OF AUSTRALIA  
MELBOURNE GROUP - GENERAL MEETING**

Glen Iris - Gardiner Church of Christ Hall  
Malvern Rd. cnr Scott Grove

7:30 pm

Theme: The Rarest, Oldest, or Oldest Radios

Info: Warwick Woods - 03 9885 1030  
wwwoods@netspace.net.au

## **TEXAS - Jun. 17**

**HOUSTON VINTAGE RADIO ASSOC.  
BASIC ELECTRONICS SEMINAR**

Houston, TX - New Garden Rest.  
11403 Chimney Rock Rd.

8 am: Breakfast

9 am-Noon: Seminar

Info: Bill Werzner - (713) 721-2242  
mingqi53@earthlink.net

## **NEW YORK - Jun. 15**

**HUDSON VALLEY ANTIQUE RADIO  
AND PHONO. SOCIETY  
MEETING**

Goshen, NY - Catawac Fire House

7 pm-9 pm

Info: Peter DeAngelo - (914) 496-5130  
(Call to confirm details)

## **TEXAS - Jun. 17**

**VINTAGE RADIO & PHONO. SOCIETY  
MEETING**

Irving, TX - Senter East Building  
3 pm

Info: George Potter - (972) 353-4862  
VRPS, PO Box 165345, Irving, TX 75016

## **MARYLAND - Jun. 15-17**

**MID-ATLANTIC ANTIQUE RADIO CLUB  
RADIOACTIVITY 2000**

Beltsville, MD - Sheraton College Park  
4095 Powder Mill Rd. - (301) 937-4422

Thurs.: 1 pm - Registration

1-7 pm - Flea Market

7-9 pm - Radio Repair Clinic

Fri.: 6 am-6 pm - Flea Market

7 am - Registration

7:30 am - Free Coffee & Donuts

10 am - Scanning Spot TV Seminar

2 pm - Old Equipment Contest

6-9:30 pm - Nole Estate Auction

Sat.: 7 am - Flea Market

10:30 am - Silent Auction

12:30-3:30 pm - Auction

Info: Brian Belanger - (301) 258-0708  
5730 Avery Park Dr., Rockville, MD 20855-1738  
bcbelanger@aol.com

## **TEXAS - Jun. 18**

**TEXAS ANTIQUE RADIO CLUB  
MEETING**

Schertz, TX - VFW Hall

2:30 pm

Info: Jim Moffett, 218 Shannon Lee, San  
Antonio, TX 78216 - (210) 826-4938

## **WASHINGTON - Jun. 18**

**PUGET SOUND ANTIQUE RADIO  
ASSOCIATION - MEETING**

Seattle, WA - Shoreline Museum  
N. 175th & Linden Ave.

9 am-Noon: Tailgate Swap Meet

Noon: Meeting, Program, Show & Tell

Info: Pete Petersen - (425) 747-1323  
PSARA - PO Box 2095, Snohomish, WA  
98291-0125 - (360) 568-2698

## **CALIFORNIA - Jun. 17**

**CALIFORNIA HISTORICAL RADIO SOC.  
SWAP MEET**

Merced, CA - Cliff's Warehouse  
9 am

Info: CHRIS Hotline - (415) 821-9800

## **NEW ZEALAND - Jun. 19**

**NEW ZEALAND VINTAGE RADIO SOCIETY  
AUCKLAND MEETING**

Auckland - Horticultural Soc. Hall, Chamberlain  
Park Golf Clubhouse, 990 Great North Rd.

7:30 pm

Info: Ian Sangster - ian.Sangster@aimz.co.nz

## **CALIFORNIA - Jun. 17**

**SO. CAL. ANTIQUE RADIO SOCIETY  
SWAP MEET, MUSEUM TOUR & LUNCH**

Escondido, CA - Deer Park Winery & Car  
Museum, 29103 Champagne Blvd.

9 am

Info: Mary Curry - (619) 461-9327  
currycat@funtv.com

*NOTE: The "Coming Radio Events"  
pages are tabulated from the best  
information available to A.R.C. How-  
ever, changes, cancellations and er-  
rors do occur. To avoid disappoint-  
ment, verify place, date and time espe-  
cially for events which are new to you.*

## CALIFORNIA - Jun. 20

### CALIF. HISTORICAL RADIO SOCIETY SACRAMENTO CHAPTER MEETING

Sacramento, CA - SMUD Building  
Corner of Elkhorn & Don Julio  
7 pm

Info: CHRS Hotline - (415) 821-9800

## CONNECTICUT - Jun. 24

### VINTAGE RADIO & COMM. MUSEUM SWAP MEET

E. Hartford, CT - 711 Main St.  
6 am

Info: John Ellsworth - (860) 675-9916

## AUSTRIA - Jun. 21

### AUCTIONHOUSE DOROTHEUM 10. HISTORICAL RADIO AUCTION Erlachgasse 90 - 1100 Vienna

2 pm

Catalog Order: Fax +43-1/515 60-508  
katalog@dorotheum.at

Info: Dr. Gerti Draxler - +43-1/515 60-226  
www.dorotheum.com

## ALABAMA - Jun. 26

### ALABAMA HISTORICAL RADIO SOCIETY MEETING - 7 pm

Birmingham, AL - Homewood Public Library  
1721 Oxmoor Road

Info: Julian Brook, PO Box 130307,  
Birmingham, AL 35213 - (205) 879-1191

## OHIO - Jun. 27

### SOCIETY FOR PRESERVATION OF ANTIQUA RADIO KNOWLEDGE MEETING

Kettering, OH - Party Room at Cassano's  
Pizza, 1700 E. Stroop Rd.

7:30 pm

Presentation: The Elmo Pickerill Story  
Show & Tell: Crystal Radios

Info: PO Box 292111, Kettering, OH 45429  
E-mail: sparkinc@juno.com

## OHIO - Jun. 21

### CENTRAL OHIO ANTIQUE RADIO ASSOC. MEETING

Columbus, OH - DeVry Institute of Tech.  
1350 Alum Creek Rd., I-70 Exit 103B

7:30 pm

Info: Barry Gould - (614) 777-8534  
Chuck Davis - (614) 792-6237

## OHIO - Jun. 21

### CINCINNATI ANTIQUE RADIO SOCIETY MEETING

Norwood, OH - ITT Technical Institute  
4750 Wesley Ave.

7:30 pm

Info: Kirk Webb - (513) 231-4557  
2183 Springwheel Ln., Cincinnati, OH 45244

## NEW JERSEY - Jun. 30

### RADIO AUCTION

Stewartsville, NJ - Dennis Auction Center  
Hwy. 57W

6 pm

Info: (908) 859-3424 - www.dennisauction.com

## KENTUCKY - Jun. 23-24

### CINCINNATI ANTIQUE RADIO SOCIETY RADIORAMA 2000

Florence, KY - Signature Inn Hotel/  
Turfway Inn Hotel - Exit 182 off I-75  
(606) 371-0081 - mention Radlorama

Fri.: 4 pm - Registration

Sat.: Dawn - Swap Meet  
10:30 am - Auction

Info: Bob White - (513) 385-6145  
crosley@fuse.net

## WASHINGTON - Jun. 30-Jul. 1

### RADIO ENTHUSIASTS OF PUGET SOUND PEMCO/REPS RADIO SHOWCASE

Seattle, WA - Seattle Center  
The Northwest Rooms

Theme: OTR Treasures

Hotel: Comfort Suites - (800) 228-5150

Fri.: 3 pm-9 pm

Sat.: 8:30 am-9:15 pm

Info: Mike Sprague, 9936 NE 197th St., Bothell,  
WA 98011 - (425) 488-9518 - hrrmikes@aol.com

**Submission Deadline for  
July issue is June 5  
August issue is July 5**

## CALIFORNIA - Jul. 1

### CALIFORNIA HISTORICAL RADIO SOC. SWAP MEET - 8 am

San Francisco, CA - St. Anne's Church  
of the Sunset

Info: CHRS Hotline - (415) 821-9800

## **NEW YORK - Jul. 2**

### **GREATER NEW YORK VINTAGE WIRELESS ASSOCIATION SWAP MEET**

Lake Ronkonkoma, NY - 367 Hawkins Ave.  
8 am-Noon

Info: Chris Lieppert - (631) 471-9526  
Chris Bacon - (516) 437-7106

## **OKLAHOMA - Jul. 8**

### **OKLA. VINTAGE RADIO COLLECTORS MEETING**

Oklahoma City, OK - Oklahoma Station BBQ  
Springdale Shopping Center, 4333 N.W. 50th  
6 pm: Dinner - 7 pm: Meeting

Info: Jim Collings - (405) 755-4139 - jrcradio@home.com  
Frank Karner - (405) 760-4656 - ftkarner@mmcable.com

## **VIRGINIA - Jul. 5**

### **TIDEWATER ANTIQUE RADIO ASSOC. MEETING - 7 pm**

Call for location & directions

Info: Vic Johnston - (757) 825-0757, eves.  
Scott Balderston - (757) 549-0449, eves.

## **NEW MEXICO - Jul. 9**

### **NEW MEXICO RADIO COLLECTORS CLUB MEET**

Albuquerque, NM - Anna Kaseman Hospital  
8300 Constitution Ave. (W. of Wyoming)

1:30 pm: Tailgate Swap Meet

2 pm: Program - Advertising Items,  
Show & Tell and Auction

Info: Chuck Burch, 39 Chaco Loop, Sandia Park,  
NM 87047 - (505) 286-9674 - ChuckBurch@aol.com

## **ARKANSAS - Jul. 6**

### **ANTIQUA RADIO COLLECTORS CLUB OF FORT SMITH MEETING**

Fort Smith, AR - St. Luke Lutheran Church  
Waldron Road, at Free Ferry  
7:30 pm

Info: Paul Tucker, 4700 N. "N" St.  
Fort Smith, AR 72904 - (501) 782-8178

## **OHIO - Jul. 9**

### **BUCKEYE ANTIQUE RADIO & PHONO. CLUB SUMMER PICNIC - 1:30 pm**

Tallmadge, OH - Maca Aquatic Center  
183 Maca Dr.

Info: Kevin Grimm - (330) 928-8341

## **NEVADA - Jul. 6**

### **NEVADAN ENTHUSIASTS FOR ANTIQUA RADIOS - MEETING**

Las Vegas, NV - Sunset Road Library  
Corner of Green Valley Pkwy. & Sunset Rd.  
7 pm

Info: Cort & Eileen Ancman - (702) 312-7110  
ancman@juno.com

## **GEORGIA - Jul. 10**

### **SOUTHEASTERN ANTIQUE RADIO SOC. MEETING WITH SHOW & TELL**

Norcross, GA - Picadilly Cafeteria  
3400 Holcomb Bridge Road

6:30 pm

Topic: "Z" Radios

Info: Gordon Hunter - (770) 475-0713  
SARS, PO Box 1055, Tucker, GA 30085-1055

## **MICHIGAN - Jul. 6-9**

### **MICHIGAN ANTIQUE RADIO CLUB EXTRAVAGANZA '00**

Lansing, MI

Holiday Inn South Convention Center  
6820 S. Cedar St. - (517) 694-8123

Theme: Heathkit

3-day Open Air Flea Market

Auction - Heathkit Exhibit

Equipment Contest - Daily Drawings

Informative Programs

Info: Extravaganza '00, 3520 Okemos Rd. #6,  
Okemos, MI 48864 - Jim Clark - (517) 349-7187  
HGGW75A@prodigy.com - JC072651@aol.com

## **MISSOURI - Jul. 10**

### **ANTIQUA RADIO COLL. & HIST. OF GREATER ST. LOUIS MEETING**

Kirkwood, MO - Kirkwood Community Center  
111 S. Geyer Rd., Room 201-A

7:30 pm: Meeting (earlier for conversation)  
Show & Tell, Swap Table

Info: Derek Cohn, 8141 Stratford Dr.,  
Clayton, MO 63105 - (314) 725-2333

## **SUBMISSION DEADLINE**

### **5th OF MONTH**

Please include date, time, place, directions,  
event details & information/contact person.

Attend a radio event near you, learn,  
meet others in the hobby, and perhaps  
find an item or two for your collection!

## **N. CAROLINA - Jul. 10**

### **EAST CAROLINA ANTIQUE RADIO CLUB MEETING**

Greenville, NC - Golden Corral Rest.  
504 S.W. Greendale Blvd.

6:30 pm

Info: Bill Engstrom - (252) 355-8732  
Herman Schnur - (252) 752-2264

## **OHIO - Jul. 11**

### **ANTIQUA RADIO COLLECTORS OF OHIO MEETING - 7:30 pm**

Kettering, OH - Party Room at Cassano's  
Pizza, 1700 E. Stroop Rd.

Topic: Art Deco Radios

Info: John Heck - (937) 435-1571  
ARCO, PO Box 292292, Kettering, OH 45429

## **TEXAS - Jul. 11**

### **HOUSTON VINTAGE RADIO ASSOC. MEETING - PROGRAM - AUCTION**

Houston, TX - TBA

6:30 pm

Info: Bill Werzner - (713) 721-2242  
mingqi53@earthlink.net

## **WASHINGTON - Jul. 11**

### **RADIO ENTHUSIASTS OF PUGET SOUND MEETING**

Seattle, WA - Queen Anne Library  
400 W. Garfield

2 pm

Info: REPS, 9936 N.E. 197th Street  
Bothell, WA 98041 - (206) 488-9518

## **ARKANSAS - Jul. 13**

### **ARKANSAS ANTIQUE RADIO CLUB MEETING**

Call for Location and Directions

7 pm

Info: Tom Burgess - (501) 455-0773

## **PENNSYLVANIA - Jul. 13**

### **DELAWARE VALLEY HISTORIC RADIO CLUB MEETING - SWAP MEET - AUCTION**

Telford, PA - Telford Community Bldg.  
Hamilton & Hamlin

7:30 pm

Info: Bill Overbeck, PO Box 847,  
Havertown, PA 19083

## **NEW JERSEY - Jul. 14**

### **NEW JERSEY ANTIQUE RADIO CLUB MEETING - 7 pm**

Freehold, NJ - Grace Lutheran Church  
West Main St. & Park Ave. (Old Rt. 33)

Info: Marv Beeferman - (609) 693-9430  
Phil Vourtsis - (732) 446-2427

## **AUSTRALIA - Jul. 15**

### **HIST. RADIO SOC. OF AUSTRALIA NSW NORTH COAST GROUP MEETING**

Call for Time & Location

Theme: Horn Speakers

Info: Ted Gill - 02 6653 2216

## **CALIFORNIA - Jul. 15**

### **SO. CAL. ANTIQUE RADIO SOCIETY SWAP MEET & BRUNCH**

San Diego, CA - Fudrucker's  
8285 Mira Mesa Blvd.

9:30 am: Swap - 11 am: Brunch

Info: Mike Zuccaro - (619) 271-8294  
mjzuccaro@aol.com

## **NEW HAMPSHIRE - Jul. 15**

### **NEW ENGLAND ANTIQUE RADIO CLUB SWAP MEET**

Nashua, NH - Resurrection Center  
Rt. 3 (Everett Turnpike) Exit 6

1 1/2 miles West on Rt. 130, 449 Broad St.

7:30-8 am: Real Early Admission

8-9 am: Early Admission

9 am-1 pm: General Admission

Over 100 tables - 50/50 Raffle - CATERED  
Old Equipment Contest

Reservations required to sell

Info: Joe Coco - (617) 923-2665  
PO Box 2382, Fitchburg, MA 01420

## **TEXAS - Jul. 15**

### **HOUSTON VINTAGE RADIO ASSOC. BASIC ELECTRONICS SEMINAR**

Houston, TX - New Garden Rest.  
11403 Chimney Rock Rd.

8 am: Breakfast

9 am-Noon: Seminar

Info: Bill Werzner - (713) 721-2242  
mingqi53@earthlink.net

*Submit your event listing to A.R.C.  
arc@antiqueradio.com or fax: (978) 371-7129.  
Or mail to: PO Box 2, Carlisle, MA 01741.*

## **TEXAS – Jul. 15**

### **TEXAS ANTIQUE RADIO CLUB MEETING**

Kyle, TX – Railroad BBQ  
10 am

Info: Jim Moffett, 218 Shannon Lee, San  
Antonio, TX 78216 – (210) 826-4938

## **OHIO – Jul. 22**

### **CENTRAL OHIO ANTIQUE RADIO ASSOC. SUMMER SHOW/SALE/SWAP MEET**

Columbus, OH – DeVry Tech. Business  
Parking Lot, 1580 Alum Creek Drive  
7 am-11 am

Info: Barry Gould – (614) 777-8534  
Mike Keller – (614) 866-7725

## **AUSTRALIA – Jul. 16**

### **HIST. RADIO SOC. OF AUSTRALIA MELBOURNE GROUP - GENERAL MEETING**

Glen Iris – Gardiner Church of Christ Hall  
Malvern Rd. cnr Scott Grove  
7:30 pm

Theme: Stromberg-Carlson Radios  
Info: Warwick Woods – 03 9885 1030 –  
wwwoods@netspace.net.au

## **BRITISH COLUMBIA – Jul. 23**

### **CANADIAN VINTAGE RADIO SOCIETY BRITISH COLUMBIA CHAPTER MEETING**

Time: TBA

Richmond, BC – Steveston Hotel  
Info: Fred Tutt – (604) 275-2033

## **COLORADO – Jul. 16**

### **COLORADO RADIO COLLECTORS MEETING**

Denver, CO – VecraBank Bldg.  
1380 South Federal Ave.

1 pm

Info: Larry Weide – (303) 758-8382

## **RHODE ISLAND – Jul. 29**

### **NEW ENGLAND WIRELESS & STEAM MUSEUM – YANKEE RADIO TUNE-UP**

E. Greenwich, RI – N.E. Wireless & Steam Mus.  
1300 Frenchtown Rd.

8 am-3 pm

Flea Market & Tailgaters – Silent Auction  
Info: N.E. Wireless & Steam Museum  
(401) 885-0545

## **KANSAS – Jul. 16**

### **MID-AMERICA ANTIQUE RADIO CLUB SUMMER SWAP MEET**

Overland Park, KS – Leawood Park  
9-11 am

Info: John Mallery – (913) 268-7135  
73644.623@compuserve.com

## **ILLINOIS – Aug. 4-6**

### **ANTIQUE RADIO CLUB OF ILLINOIS RADIOFEST XIX**

Elgin, IL – Ramada Inn  
345 River Rd – (847) 695-5000

Daily Open Air Flea Market  
Hi-Fi Display – 50/50 Raffle  
Awards Banquet and Show  
Radio Auction – Donation Auction  
Appraisals – Old Radio Contest  
Microphone Presentation  
Motorola Display

Info: A.R.C.I., PO Box 1139, LaGrange Park,  
IL 60526 – E-mail: arci31280@aol.com

## **AUSTRALIA – Jul. 22**

### **HIST. RADIO SOC. OF AUSTRALIA VICTORIAN GROUP – AUCTION**

Glen Iris – St. Andrews Uniting Church Hall  
Malvern Rd. near Burke Rd.

12:30 pm

Info: Doug Ellis – (03) 9802 0577

## **NEW YORK – Sep. 6-9**

**ANTIQUE WIRELESS ASSOCIATION  
39TH HISTORICAL RADIO CONFERENCE**  
Rochester, NY – Thruway Marriott Hotel  
Easy access from New York State Thruway  
(I-90), I-390, or Rochester Airport  
(716) 359-1800

Theme: Crosley

4-day, 3-acre Antique Radio Flea Market  
Info: AWA, Box E, Breesport, NY 14816  
Secretary's phone – (607) 739-5443

*[If you can go to only one meet,  
make it to this one. Editor]*

## **N. CAROLINA – Jul. 22**

### **CAROLINAS CHAPTER - AWA SUMMER SWAP MEET**

Raleigh, NC – NC State Fairgrounds  
Time TBA

Info: Ron Lawrence – (704) 289-1166  
kc4yoy@trellis.net – www.CC-AWA.org

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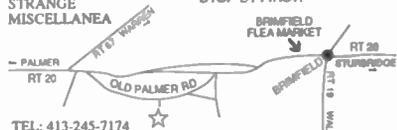
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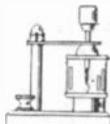
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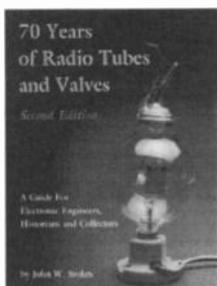
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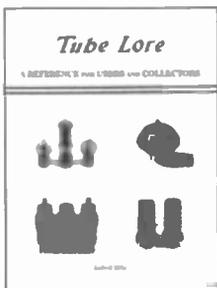
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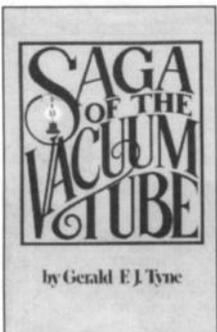


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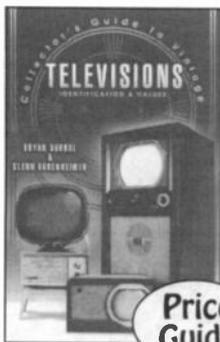
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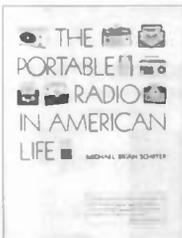
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# Amateur Radio Books



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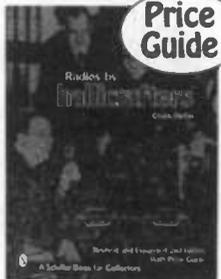
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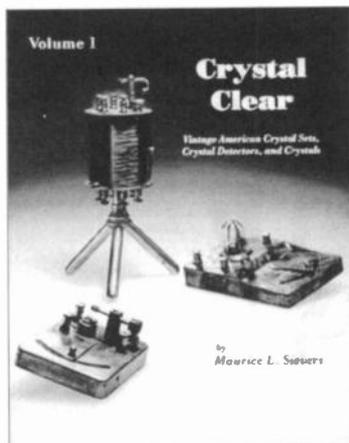


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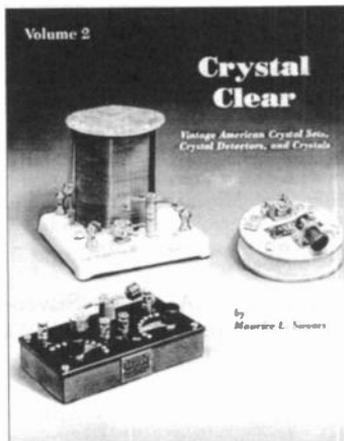
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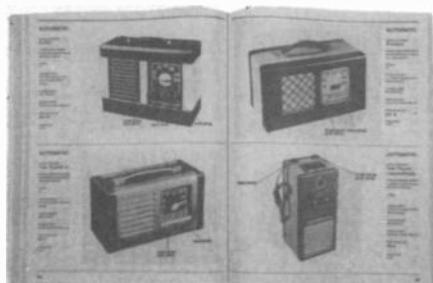
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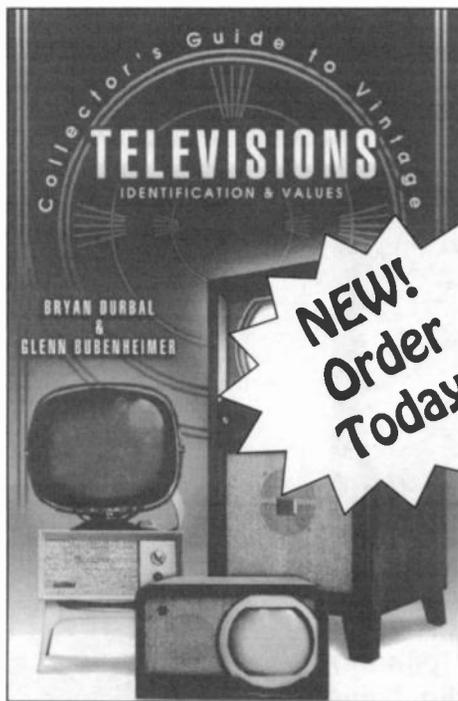


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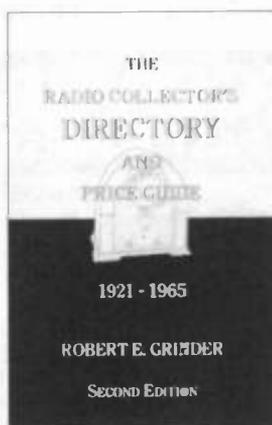
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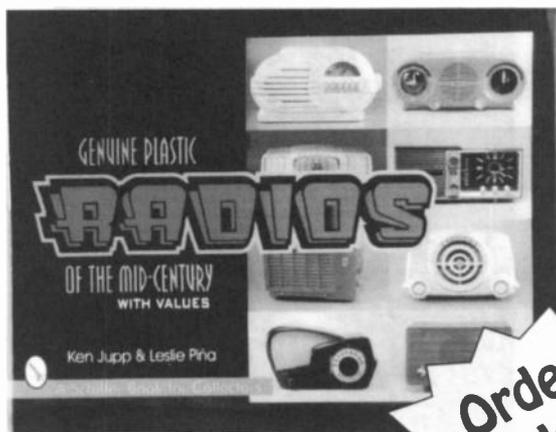
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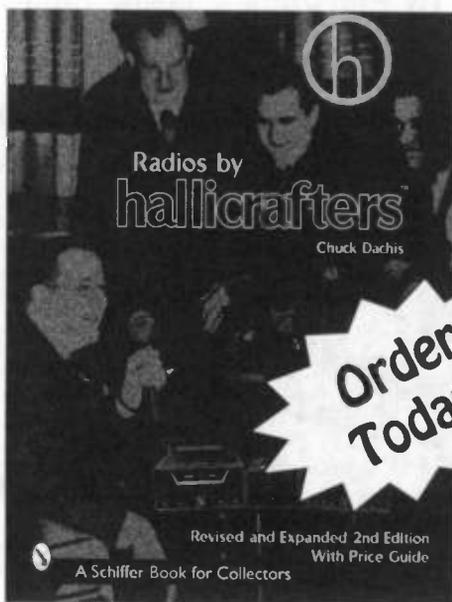
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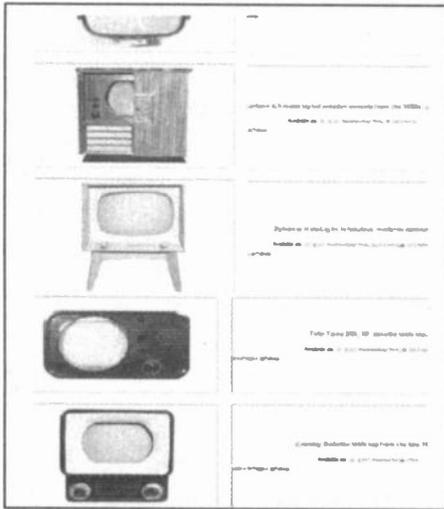
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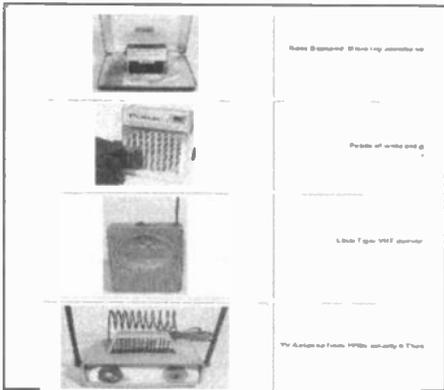
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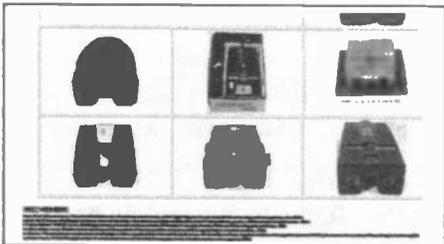
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# CLASSIFIED ADVERTISING POLICY

ONE FREE 20-WORD AD for subscribers in each issue; additional words are 29¢ each. See details below. Classified ads sent by mail, fax, e-mail or by any other method must be received (not just postmarked!) by Noon Eastern Time on the classified ad deadline date to guarantee inclusion in the current issue. Late ads are held for the following issue. Please enclose correct payment with all ads. Stamps or cash are OK for small amounts. (Canadian and other foreign advertisers, please see "Payment" on page 2 for methods.) "Free words" cannot be accumulated from month to month; free words must be requested when ad is submitted.

**Faxed & e-mailed ads:** Please see additional information on the inside front cover.

**When including ads with other A.R.C. correspondence, write the ads on a separate piece of paper.** Include SUB# with ad. Ads may be sent in advance; but, write each ad on a separate piece of paper and indicate the month (or successive two months) you want the ad to run.

To minimize our typing errors: Please write legibly. Use both capital and small letters. Do not use a dash between words. Carefully write the following numbers and letters (especially in model numbers) since some can look alike; for example 1, I and l (the number one, the capital i and the small L.) Also: 0, O, o, Q and D; r and n; 6, b and G; V, U, u, v and Y; A and R; 5 S and s; 2, Z and z. We try to correct spelling errors, so when using an uncommon word or manufacturer which we might mistake as a more common word or manufacturer, note it so that we do not "correct" it. Editor's annotations are in [brackets].

**Advertising is accepted only for early items related to radio, communication, etc. All items must be described fairly; reproductions, reprints and not-original items must be so identified. Advertisers must agree to respond promptly to inquiries and orders, to resolve problems promptly if the buyer is not satisfied, and to comply with a buyer's refund request on unaltered returned items.**

The publisher reserves the right to edit ads without notification to the advertiser and to reject ads for any reason. Names other than the advertiser will be edited out of ads. Ads with non-radio-related items will be returned or edited unless the non-radio-related items are for trade of radio-related items, or they are incidental to and appear at the end of an otherwise acceptable ad. The publisher is not responsible for errors due to illegibly written ads or for any other reason. See also Publishing Rights on page 2.

**Clubs:** Since club activities receive free coverage on the *Coming Radio Events* pages, the free 20 words may not be used for club activity ads. A discount on display advertising is available for clubs.

## CLASSIFIED AD DETAILS

**Deadline: NOON ET— 10th of the month!**

Classified ads must have a standard heading such as **WANTED, FOR SALE, FOR TRADE, FOR SALE/TRADE, SERVICES, MESSAGE, HELP, AUCTION, MEET, etc.** This heading is the only bold or all-capitalized words allowed in the ad. Capitalize only manufacturer names, model names, etc. This standard ad format makes scanning the ads easier.

Before writing your ad, please look over the ads in a recent issue of A.R.C., and try to write your ad in the same style. Full name (or company name) and address is **required** in all classified ads; we will add it if you forget.

To encourage varied content of the ads, the same classified ad may be run only once per issue and for only two consecutive months. (To run an ad longer, use a boxed classified or display ad.)

### Classified Ad Rates per Month

Subscribers:

First 20 words: **FREE\***

29¢ per word for extra words over 20 **plus**

10¢ per word for a shaded ad (count all words including free words).

\* Subscribers may take 20 free words on only **one** ad each month.

Non-Subscribers:

47¢ per word **plus**

10¢ per word for shaded ad.

Please do not forget to send in the extra 29¢ per word when your classified ad runs over the free 20 words; your payment will be appreciated, and it will help to keep A.R.C. healthy.

## BOXED CLASSIFIED AD DETAILS

**Deadline: 1st of the month!**

Boxed classified ads can run unchanged for three months or more. No words are free. Ads may be shaded and may include bold and all-capitalized words freely. The ad need not begin with "For Sale," etc. Minimum run is 3 months, prepaid. Discount: 10% for 6 months; 20% for 12 months.

### Boxed Classified Ad Rates per Month

Nonshaded ads:

40¢ per word for all words,\* none free, **plus**

10¢ per word for each bold word **plus**

10¢ per word for each all-caps word.

Shaded Ads (All words are bold at no charge):

50¢ per word for all words\* **plus**

10¢ per word for each all-caps word.

Non-Subscribers:

Add 20¢ per word to above costs.

\*Three words can be bold-all-caps at no extra charge.

## PHOTO & DRAWING DETAILS

**Deadline: 1st of the month**

**for all ads with drawings or photos!**

Drawings and photos are encouraged as the response to your ad is much larger and the reader knows better what you want or are selling. Send in your drawing or photograph, and A.R.C. will reduce it or enlarge it as needed.

### Photo and Drawing Rates per Month

\$23.00 per month for each photo or drawing (If ad is canceled, this amount cannot always be refunded.)

## CHANGES & CANCELLATIONS

Please check your ads carefully before sending them in. Once ads are received, it is not always possible to refund the amount sent, pull the ad or make changes.

## IMPORTANT — COUNTING WORDS — IMPORTANT

The standard headings: **WANTED, FOR SALE, etc.**, count as **one word** each time used in an ad. **Name, address** and (one) **telephone number**, count as **6 words**, regardless of length. **Ham call letters** and **business name** can be included in the 6 words and do not count extra. Full name (or company name) and address is **required** in all classified ads. Each additional word, abbreviation, model number or number group, extra telephone numbers, fax, e-mail, etc. count as **one word** each. Hyphenated words count as **two words**.

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