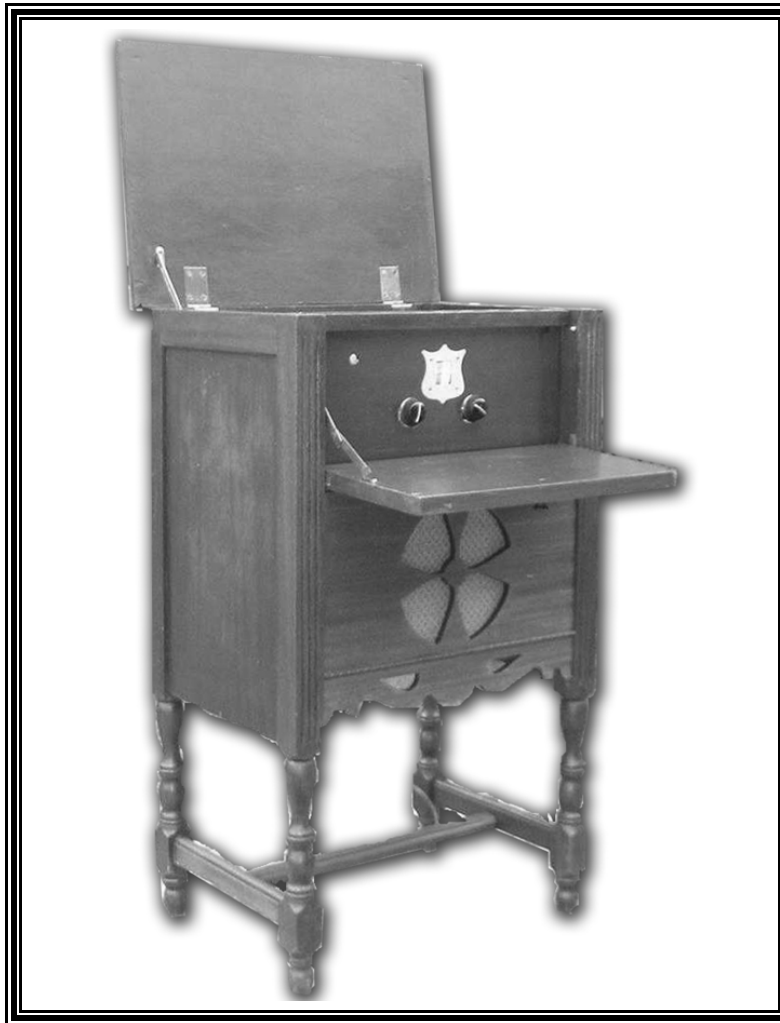




The FLASH!



Dedicated to the Preservation and Education of Wireless, Radio, Television and Associated Equipment



In this issue ...

- ✓ Restoration of a Homebrew TRF
- ✓ Submitting a Story to Our Website
- ✓ Shipping by UPS - Problems?
- ✓ Buying Radios on Graigslist

VISIT OUR WEBSITE AT WWW.RADIOACE.COM

COLORADO RADIO COLLECTORS ANTIQUE RADIO CLUB

Founded October 1988

The Flash! Copyrighted 2008, all rights reserved

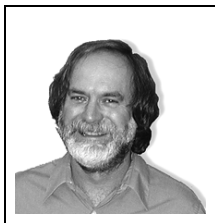
Volume 19, Issue 4

July/August 2008

Contents of this issue

<u>Article</u>	<u>Page</u>
✓ Restoration of an early 1930's Homebrew TRF Radio , by Larry Snyder	3
✓ Steps to Submit a Story on radiocae.com , by Bill Grimm	5
✓ Is UPS Destroying Our History? - by Bob Cofer	6
✓ Buy and Selling Radios on Graigslist - by Dave Gonshor	6
✓ May '08 Meeting Activities	7
✓ Collector Books for Sale - by Charles Brett	8
✓ The Open Trunk Classified Advertisements	9

MESSAGE FROM THE PRESIDENT



Welcome to the new members who attended our May meeting: **Richard Jackson, Tom Keaton and James Einolf** as well as returning member and past president **Tom Kelley**. Like minds continue to find the CRC though our web site and exposure at the Vintage Voltage Expo. Those who were in attendance at our last meeting were treated to a show-n-tell segment which reflected the CRC mission in outstanding fashion. **Bruce Young, Jerry Tynan, Barney Wooters, Dan Houfek, Tom Pouliot and Bill Harris** all shared wonderful items and stories which reveal why the CRC remains so important. Bill's great presentation causes me to mention his personal web site www.radioremembered.org once again. The CRC is one of those rare organizations that somehow seems to exceed the sum total of each of the interesting individuals who comprise it.

Our July meeting will be held in Castle Rock and **Mike McCutcheon** will utilize the great A-V facilities to support webmaster **Bill Grimm's** live review of CRC web site navigation. Several have requested that **Steve Touzalin** once again discusses additional interesting radio web sites.

The **annual dues drive** kicked off at the May meeting. If you have not already done so, please submit your \$12 renewal to **Mike Cook, CRC** right away so that you will continue to receive your *Flash!* and all the other benefits of membership, uninterrupted. Lots of great club activities are planned throughout the remainder of 2008 - don't miss out!

(Continued on Page 9)

CRC CONTACTS

President Robert Baumann (303) 988-2089 HQ180A@aol.com	Vice President Bob Cofer (303) 257-9598 radiocowboy@myway.com
Treasurer Mike Cook (303) 471-9596 mldcook@hotmail.com	Archive and Books Charles Brett (719) 495-8660 brett3729@aol.com
Flash! Publisher Steve Touzalin (303) 988-5394 stevetou@comcast.net	Internet Egroup Mgr. Mark Dittmar (303) 403-0669 mbdittmar@comcast.net
Webmaster Bill Grimm Website www.radioace.com	Flash! Distribution Richard Beckman (303) 344-8565 rebaldbeck@msn.com

Upcoming Events - Mark Your Calendars!

July 13th - **Meeting**, Castle Rock
July 27th - "War of the Worlds" Reenactment
See Page 9 for details
Sept 14th - **Meeting**, Littleton
Nov 9th - **Meeting**, Wings Over Rockies
Air & Space Museum
Auction: Sept 28th - Arvada

CRC MEMBERSHIP

Annual membership in the CRC runs from **July to June**. Dues entitle members to attend meetings, "The Flash!" our newsletter, discount book prices, participation in our Spring show and Fall auction. Current annual dues are \$12. New memberships will be prorated to the following June.

CRC MEETINGS

Meetings are held on the 2nd Sunday of every other month starting in January (except 3rd Sunday of May) at 1:00pm. The meetings consist of business, "show & tell", raffles, auctions, swap meets, technical discussions and other subjects of interest

Restoration of an early 1930's HOMEBREW TRF RADIO

By Larry Snyder, Colorado Radio Collectors

I purchased this radio at a garage sale in May, 2005 for \$10.00. The previous owner purchased it at a garage sale in Sunnyvale, CA in 1975 for her husband to "fix up". But, he never got around to it and it sat in her garage ever since. She did not know the brand of the radio and there was no identification on it. She had plugged it in the day before the sale and it "smoked" so she quickly unplugged it. The brown cloth covered power cord was frayed and had pieces of the insulation missing where the wires entered the metal chassis. She was lucky that it didn't short out when she plugged it in.

I was intrigued with the radio because it had all the tubes and one of them had a 1973 Sunnyvale repair shop sticker on it. Remembering that Sunnyvale, CA was the home of the Echophone Radio Manufacturing Company, I thought that this may be an Echophone kit radio. The tube lineup found was two 224's for the 1st and 2nd RF amplifiers, a UY224 for the 3rd RF amplifier, a T224 for the detector, a UX245 for the audio amplifier, and a UX280 for the rectifier tube. All the tubes were good.

The wooden 4-legged tall boy console has a lift top and a fold down writing table. The original cabinet finish had been stripped off and the wood left in the after-stripped condition. The radio has 2 knobs and a centered slot machine dial with two tuning condensers on each side of it. Inside the cabinet are a homemade galvanized sheet metal power supply on the lower shelf and a similar radio chassis on the upper shelf under the lift top. The cutout for the speaker is centered below the fold down table. The escutcheon was missing, but its mounting base has the shape similar to that of the Union Pacific Railway emblem or a Thomson C61 Radio from the 1925 era.

The 12" magnetic speaker was intact and in excellent condition. The grille cloth was shredded, with tree leaves sticking out through the cutouts in the cabinet.

The tuning condenser was meant to fit up to a slanting front panel, but in this radio the front panel is vertical so the condenser base is tilted forward with the

placement of washers under the rear mounting screw pads.

Since this was a homebrew radio, apparently made from whatever parts were available, no schematic was available. I looked long and hard in the Riders volumes for radios with identical tube lineups to no avail. So, I drew a schematic by tracing the wiring as I found it in the radio. Many wires were missing, broken, or disconnected adding to the inaccuracy of my drawing.

Before this project was over I ended up making 2 schematics: one indicating the "as found" condition including unknown wire connections and the other showing the "final as restored" wiring.

Part Replacement

The part causing the smoke the former owner saw was a 550 ohm, 2 Watt, resistor in the filament supply bias circuit. It can be seen in the upper RH corner of the chassis photo. This was replaced with a 500 ohm, 10 Watt resistor. Four other resistors were replaced because they were out of tolerance.

A 275 mH RF choke in the audio circuit was replaced due to a broken wire.

The volume control was replaced due to a broken on-off switch contact.

All the paper capacitors were replaced along with one 250 pF mica capacitor which was found to be only 80 pF.

The original filter capacitors were embedded in wax inside a metal box on top the power supply chassis. The original value of these capacitors could not be determined, but indications are they may have been 2 or 2.5 uF. These were replaced with two 4.7uF/450v electrolytic capacitors mounted in the open, in the chassis. There were also 3 other smaller capacitors embedded in wax in the same metal box. These were also unmarked and probably 1.0 uF or smaller. Their wires were broken or disconnected so their function in the circuitry was unknown. All of the original capacitors were disconnected and reinserted in the metal cans, for the next owner to find.

The line cord was replaced with a modern wide blade plug and a 1 amp fuse was added to the circuit. Chassis ground was taken to the grounded side of the power supply.

The Major Problems Encountered

After I replaced the resistors and capacitors and reconnected the broken or missing wires, to the best of my humble ability, the following problems became apparent. The radio did not work.

High Screen Voltage

The screen voltage was over 500v and equal to the plate voltage. The screen voltage should be 80-90 volts.

To solve this problem the power supply filter section was rewired and three 33k, ½W resistors were added in series, as a voltage divider, to obtain 80v screen voltage from the 240v B++ supply.

Reception was non-existent to weak

Small adjustable neutralizing capacitors were mounted inside the RF coil cans and were wired in series with the trimmer capacitors and connected to the plates of the RF amplifier tubes. These were not noticed when I drew the "as found" schematic. Because of these neutralizing capacitors I could not align the radio and I spent many weeks trying to do so.

To solve this problem the neutralizing capacitors were disconnected, but left in place. The 224 tubes have a very small grid-plate capacitance and do not need the neutralizing capacitors. These neutralizing capacitors used with the 224 tubes further indicate that the radio was assembled from various parts and pieced together.

High Voltage on the Speaker Coil

The as-found radio had the B++ voltage running through the speaker voice coil to get to the plate of the output tube. Although it worked, I did not want the high voltage on the voice coil. The circuit was modified so only the audio frequencies and voltages were on the voice coil.

Acknowledgements

I spend a lot of time in Columbus, Ohio on business and have had the opportunity to attend several Wednesday evening, monthly meetings of the Central Ohio Antique Radio Association (COARA) as a guest. On one occasion, I carried the chassis, power supply, speaker and tubes to Columbus, in my checked airline luggage, so club members could see it first hand and offer advice.

I want to thank my good friend Bill Parker of the COARA in Columbus, Ohio for his invaluable assistance and suggestions and for inviting me into his home to discuss TRF radios and circuits. He helped me get the filter capacitors and other components wired correctly, and most importantly, he kept me going, via e-mail, when I was ready to give up on the radio.

I also want to thank Ken Owens of the COARA for recommending improvements in the audio output circuit to get the high voltage off the speaker coil and bring the overall radio volume up to par.

Lessons Learned restoring this Homebrew Radio

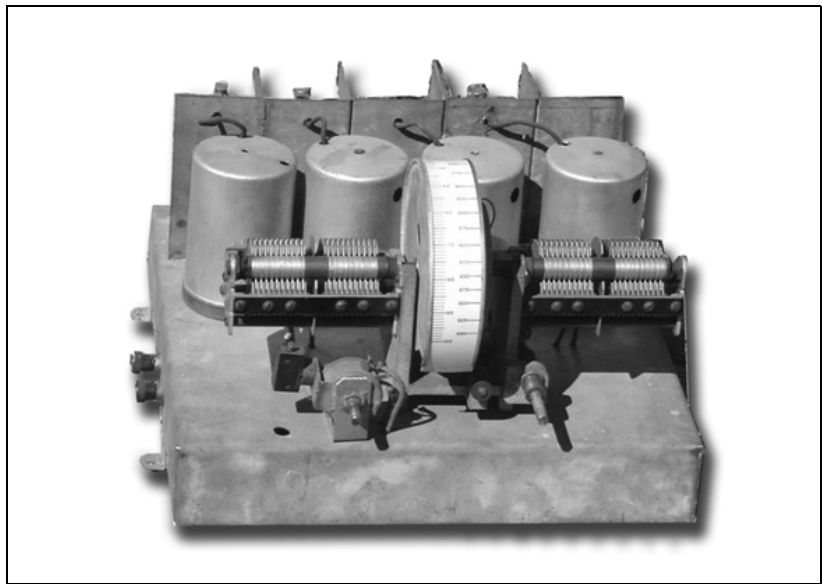
From Bill Parker I learned to "do the math" and calculate the current flows, modify the circuits to get the tubes operating within the tube specification ranges and, when no information is available, try various values of components to get the best results.

To quote Ken Owens: "This is a homebrew radio and it may never have worked properly so don't be reluctant to change things."

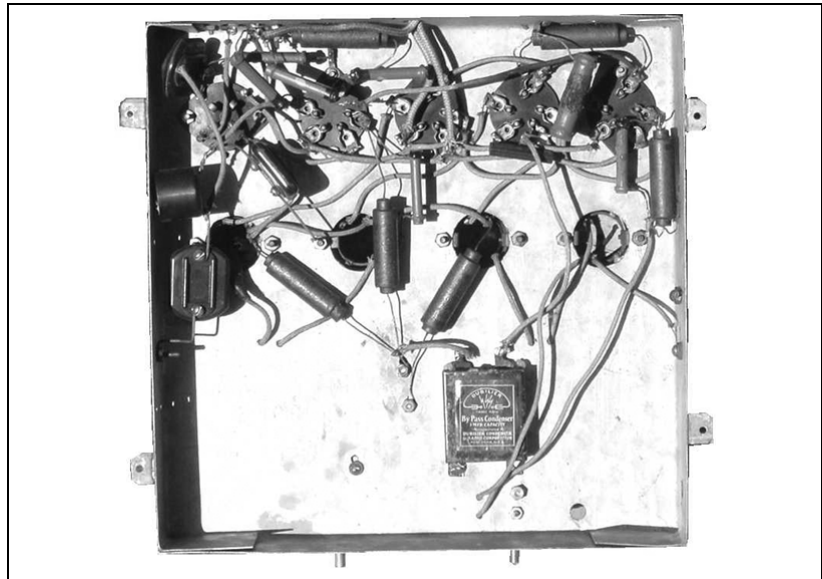
Helpful Reference Material

The RCA Radiotron Manual, Technical Series No. R-10.

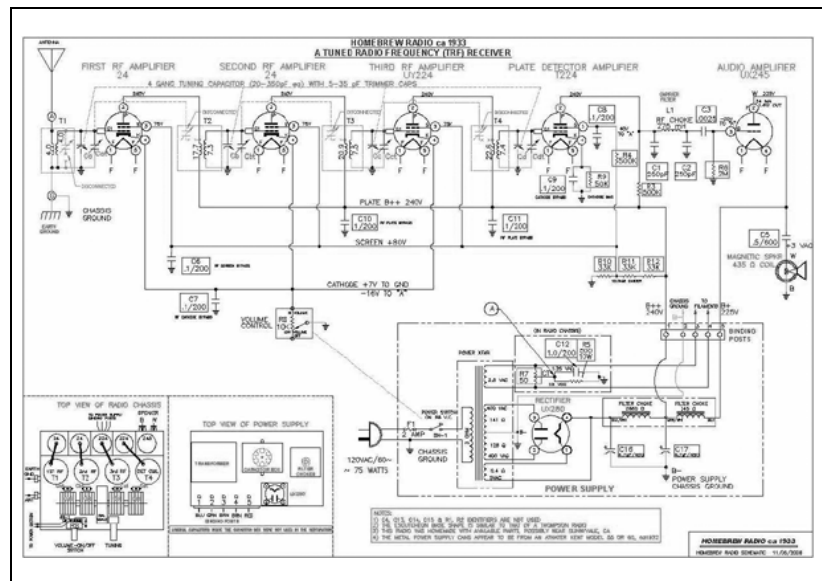
I downloaded this reference manual off the Internet when searching for tube data and specifications. It is a great source of information for the application, characteristics, and design of the circuits relating to the RCA tubes used in this radio.



The Chassis - Top



The Chassis - Bottom



The Circuit Diagram

Steps to Submit a Story on radioace.com

1. Login as CRC (contact Bill Grimm for password) and click "story" under "create content"
2. Input a title and body of the story
3. *optional* Upload image(s)
 - a. To attach an image, click the button that looks like a camera.
 - b. Click the "Upload" button". (*screen 1*)



screen 1

- c. Type the title of the image. (*screen 2*)
- d. Click the "Browse" button and browse to the image on your computer. Your image should be a GIF or JPEG at 72dpi and no greater than 500x500 pixels (*screen 2*)
- e. Click "Submit". (*screen 2*)

screen 2

(screen 3)

Choose the size of the image you wish to include (preview size is larger) and click the "Insert" button to insert the image into your story

Is UPS destroying our History?

By Bob Cofer, CRC Member

With the advent of E-bay, more and more radios are being shipped across country and around the world

A couple of months ago I received an e-mail regarding the silly things that UPS pilots had entered into their flight logs, and the smart-alec responses the mechanics made. At the end of the article there was a disclaimer stating that UPS was the only airline that had never had an accident. Anyone who has received a package from UPS more than a couple of times knows why this is. From the condition the package arrives in, it is clear that they never landed, they just threw it off the plane as they flew over.

Even though I use UPS only when a seller refuses any other method, I have had countless damaged radios, and five packages delivered to the wrong address. Two I had to retrieve myself, and three the recipient was kind enough to bring to me. The unwillingness to question authority at even the lowest level never ceases to amaze me. Many people believe because it cost's more, because they have been in business longer, or because they are "professionally packed" it makes them better. Keep in mind those "professionals" are usually high school or college students.

There are better ways. In my experience, Fedex is the least of the four evils for small packages. Those four being UPS, Fedex, DHL, and USPS. For large packages, consoles and chair sides, Grey Hound bus is my first choice. I have mentioned this to a few people and about half turn their noses up in snobbish disgust at the mention of Grey Hound. I can tell you that I use Grey Hound all the time for both shipping and receiving, and unlike other carriers, they have never damaged anything.

What is not understood is processing. With the major carriers, packages are thrown on and off trucks and conveyor belts several times before they meet their destination. As they ship millions of packages, they are always under pressure to load and unload very quickly. Grey

Hound, on the other hand, handles only a few packages. They are hand loaded from a flat cart to the luggage compartment, usually only once or twice. They do not have the rough handling of other carriers. The drawback is you do have to go the station to pick it up, but they are much less expensive. A full size console can be shipped for about \$75.00.

Of course packing makes a difference too. In my next article I will share my experiences with packing techniques to help prevent disasters.

Buying and Selling Radios on Craigslist

By Dave Gonshor, CRC Member

There is an alternative to Ebay for buying and selling old radios. It is called Craigslist. Craigslist is a centralized network of online communities, featuring free. These free advertisements are entered by major metropolitan area, and include for-sale items in many categories, jobs, events and much more. Unlike Ebay, Craigslist cost absolutely nothing to post ads and sell items. Two categories are generally used for old radios: collectibles and electronics. So, which is better, Ebay or Craigslist?

Ebay's audience is worldwide, which is a good thing if you are selling something, not so good if you are buying. Your competition for bidding is potentially everybody in the world who has computer access to the internet. Ebay charges substantial fees for sellers, but nothing for buyers, aside from the item cost and probably shipping costs. A big advantage for many buyers using Ebay is that they can pay for items using Paypal (an Ebay service) using a credit card. Ebay has several categories for old radios, including tube type (by decade of manufacture), transistor, related items and parts.

A huge disadvantage of using Ebay to sell large items is that the cost of shipping has increased dramatically. A console radio can cost hundreds of dollars to crate and ship commercially from state to state. Table top radios are much less, but still the shipping costs are ever increasing (just as your gas bill is). There are some lower cost alternatives for shipping large items, such as

Greyhound Bus or Uship.com (in which shippers bid on shipping items). Craigslist is where large items can be sold locally, without the high cost of Ebay listing and value fees, and without worrying about high shipping costs.

To be sure, the buying audience on Craigslist is typically much smaller than Ebay. Items are listed by major metropolitan area. To list in more than one metropolitan area, more than one ad must be entered. Still, many times I have seen people from, say, California wanting to buy things I have posted for sale on Craigslist here in the Denver area.

There does seem to be more scamming activity on Craigslist (at least in my observation). For example, lately there have been a rash of ads offering high-end Wurlitzer Juke Boxes (like the 1015 bubbler and the peacock) for very low prices. Upon investigating these ads, I have found that the supposed seller is eager to make a quick on-line sale, is located in another country (typically Canada), is not able to allow you to inspect the item before the sale, and states the location of the item is in another state, but that shipping is included and there is a money back guarantee, etc. Does an alarm go off in your head? You bet it does! The easy solution to these scams is to insist that you inspect the item before any money changes hands. If not, then there is no sale. Pretty simple, huh?

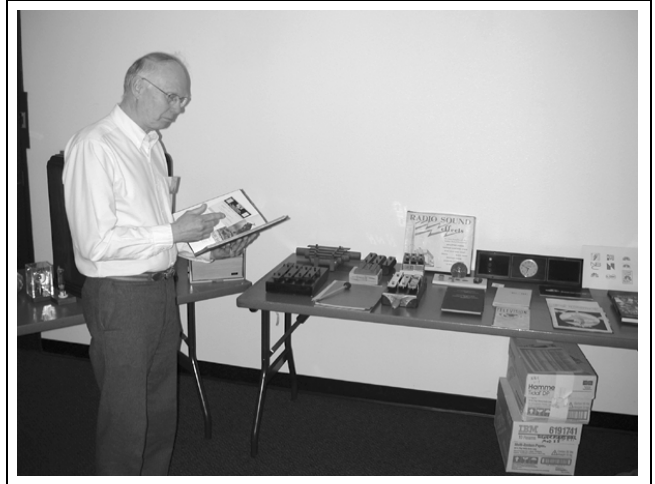
So, to summarize, Craigslist costs you nothing to buy and sell on. The audience is amenable to large items such as typically smaller, but the venue is more console radios. There is more risk on Craigslist, but that risk can be mitigated by using prudent buying techniques.



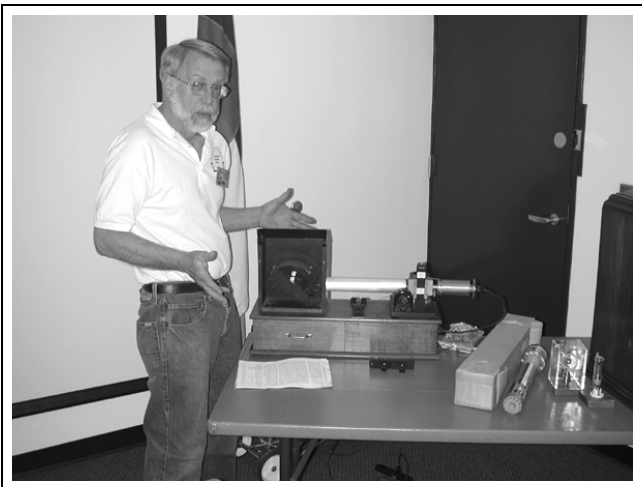
MAY '08 MEETING - ACTIVITIES



Jerry Tynan displays a unique portable by Sharp which includes AM, FM and a 33/45 phonograph.



Bill Harris demonstrates and discusses the history of the NBC chimes and their significance to the early network.



Dan Houfek describes and operates his rare, late 20's General Radio vibrating wire oscilloscope.



Robert Baumann shows us a 5820 Image Orthicon TV camera tube.



Tom Pouliot once again brings in a unique 1920's radio - a Forrest "regenerformer" battery operated radio.



Barney Wooters talks about his rare 1909 DeForrest Spherical Audion tube.

Collector Books for Sale

Special CRC prices. Order at club meetings. Mail order shipments: add \$2.00 postage for each book ordered. Info/order: Charles Brett, 5980 Old Ranch Road, Colorado Springs 80908, (719) 495-8660, brett3729@aol.com. void all other listings	Retail	Club				
RADIOS, (GENUINE PLASTIC) OF THE MID CENTURY Jupp & Pina, hard bound, 219 pgs, 1998 PG, 450+ color pics	\$39.95					
ANTIQUE RADIOS, COLLECTOR'S GUIDE - 4th EDITION Bumis, 1997 values, revised & updated, new photos, 248 pgs	\$18.95	\$15.00				
GUIDE TO OLD RADIOS, POINTERS... - 2nd EDITION Johnson, 277 pgs, 1995-96 prices	\$19.95	\$15.00				
ANTIQUE RADIO RESTORATION GUIDE - 2nd EDITION Johnson, 144 pgs, repairing, refinishing, cleaning	\$14.95	\$12.00				
RADIO, EVOLUTION OF THE - VOLUME ONE 227 pgs, 118 in color, More than 800 radios pictured, 1992	\$22.95	\$18.00				
RADIO, EVOLUTION OF THE - VOLUME TWO 226 pgs, Radios of the 1920s to 1960s, with 93-94 values	\$24.95	\$19.00				
TRANSISTOR RADIOS, COLLECTOR'S GUIDE VOL II Bumis, 1996 prices, Full Color	\$16.95	\$13.00				
ZENITH TRANSISTOR RADIOS, 1955-1965 Smith, 1998 PG, 160 pgs, 226 color pics, info, descr.	\$29.95	\$22.00				
THE ZENITH TRANS-OCEANIC (THE ROYALTY OF RADIOS) Bryant and Cones, 160 pgs, 1995	\$29.95	\$22.00				
ZENITH RADIOS THE EARLY YEARS 1919-1936, Cones 1997-98 Price Guide, 223 pgs, 100's Photos, Desc., Hfst.	\$29.95	\$22.00				
RADIOS BY HALLCRAFTERS, revised 2nd edition Dachs, 1999 values, 220 pgs, 1000+ pics, id's, history	\$29.95	\$22.00				
CLASSIC TV'S, PRE-WAR THRU 1950'S 86 pgs, color & b/w pics, descriptions, etc.	\$18.95	\$15.00				
Machine Age to Jet Age, Radiomania's Table Radio Guide 'III, 33-62 Stein, 256 pgs, 100's of b/w photos	\$29.95	\$24.50				
TRANSISTOR RADIOS, 1954 TO 1969 Norman Smith, with prices, 160 pgs, 1000 photos, 1998	\$29.95	\$22.00				
PHILCO RADIO: 1928 - 1942 Ramirez & Prosisie, 160 pgs, 828 pics & drawings, 1993	\$29.95	\$22.00				
RADIO AND TV PREMIUMS Jim Harmon, 256 pgs, 200+ photos, 1997	\$24.95	\$19.00				
RADIO MANUFACTURES OF THE 1920'S VOL I Alan Douglas, 225 pgs, 1988	\$24.95	\$19.00				
RADIO MANUFACTURES OF THE 1920'S VOL II Alan Douglas, 266 pgs, 1989	\$29.95	\$22.00				
RADIO MANUFACTURES OF THE 1920'S VOL III Alan Douglas, 285 pgs, 1991	\$29.95	\$22.00				
CRYSTAL CLEAR VOL I Maurice Sievers, 282 Pgs, 1991	\$29.95	\$22.00				
CRYSTAL CLEAR VOL 2 Maurice Sievers, 252 Pgs, 1995	\$29.95	\$22.00				
RADIO TUBES AND BOXES OF THE 1920'S George A Fathauer, 112 Pgs, 1999	\$26.95	\$20.00				
70 YEARS OF TUBES AND VALVES, 2ND EDITION John Stokes, 264 Pgs, 1997	\$29.95	\$22.00				
RADIO DIAGRAM SOURCEBOOK Richard Gray, 264 Pgs, 1996	\$18.95	\$15.00				
THE RADIO COLLECTOR'S DIRECTORY AND PRICE GUIDE, 2ND ED. Robert Grindler, 524 Pgs, 1995	\$26.95	\$21.00				
COLLECTOR'S GUIDE TO VINTAGE TELEVISION Durbal & Glenn Bubenheimer, 200 Pgs, 1999	\$15.95	\$13.00				
NOVELTY RADIOS, VOLUME 1 Marty Bumis & Robert Breed, 223 Pgs, 1995	\$18.95	\$15.00				
NOVELTY RADIOS, VOLUME 2 Mary Bumis & Robert Breed, 199 Pgs, 1999	\$19.95	\$15.00				
COMPLETE PRICE GUIDE TO ANTIQUE RADIOS: PRE-WAR CONSOLES Mark Stein, 235 pgs, 100's of b/w photos	\$29.95	\$22.00				
TUBE TESTERS AND CLASSIC ELECTRONIC TEST GEAR Alan Douglas, 166 Pgs, 2000	\$25.95	\$19.50				
COLLECTOR'S VACUUM TUBE HANDBOOK, VOLUME I Robert T. Millard, 196 Pgs, 2001	\$25.95	\$19.50				
SILVERTONE ANTIQUE RADIOS 1930 - 1942 Stein, 239 pgs, 2001	\$34.95	\$25.50				
ANTIQUE RADIOS COLLECTOR'S GUIDE 5th EDITION John Slusser, 264 Pgs, 2001	\$19.95	\$15.00				
RADIOCRAFT JUBILEE - REPRINT OF 1938 EDITION Hugo Gernsback, Vestal Press	-----	\$12.00				
CLASSIC CONE SPEAKERS Buford & Jane Chidester, 122 Pgs, 2001	\$25.95	\$19.50				
TUBE LORE Ludwell Silbey, 186P gs, 1996	\$29.00	\$15.00				
ARTHUR COLLINS RRADIO WIZARD Ben Sterns, 394 Pgs, 2002	\$18.95	\$14.00				
MACHINE AGE TO JET AGE - VOL I Mark V. Stein, 256 Pgs, 1998	\$24.95	\$21.00				
MACHINE AGE TO JET AGE - VOL II Mark V. Stein 358 Pgs, 1997	\$28.95	\$23.00				
TABLETOP RADIOS - Vol I Mark V. Stein, 240 Pgs, 2002	\$29.95	\$22.00				
A. ATWATER KENT Williams & Wolkowitz, 108 Pgs, 2003	\$25.95	\$19.50				
THE WOOD FINISHER Bruce Johnson, 341 Pgs, 1993	\$12.00	\$10.00				
THE WEEKEND REFINISHER Bruce Johnson, 296 Pgs, 1989	\$12.00	\$10.00				
THE PLATING MAN'S MANUAL Johnson	---	\$10.00				
THE FABULOUS VICTROLA "45" Phil Youniss, 176 Pgs, 2002	\$29.95	\$22.00				
ZENITH RADIOS THE GLORY YEARS 1936 - 1945 Cones, Bryant & Blankinship, 256 Pgs, 2003	\$34.95	\$25.50				
ZENITH ILLUSTRATED CATALOG AND DATABASE 1936 - 1945 Cones, Bryant & Blankinship, 182 Pgs, 2003	\$29.95	\$22.00				
THE ALL-AMERICAN FIVE RADIO Richard McWhorter, 92 Pgs, 2003	\$19.50	\$15.00				
E.H. SCOTT...THE DEAN OF DX, 2ND EDITION Marvin Hobbs, 240 Pgs, 2003	\$29.95	\$27.50				
ANTIQUE RADIOS 6TH EDITION John Slusser, 320 Pgs, 2004	\$24.95	\$19.50				
OLD TIME RADIOS Joseph Carr, 256 Pgs, 1991	\$19.95	\$15.00				
The Early Development of Radio in Canada 1901-1930 Murray Editor, 154 Pgs, 2005	\$26.95	\$19.50				
Plastic Radios Stein, 255 Pgs, 2006	\$37.95	\$26.25				
Novelty Radio Handbook Weaver, 160 Pgs, 2006	\$29.95	\$22.00				
Philco Radios 1928-1942, 2nd Edition Ramirez & Prosisie, 192 Pgs, 2006	\$29.95	\$22.00				



The Open Trunk

Member submitted advertisements



WANTED: Morse keys/bugs/paddles, Allied Radio/Knight Kits, "heavy metal" communications gear (Collins, National, Hallicrafters, Hammarlund).

Robert Baumann, (303) 988-2089
HQ180A@aol.com **03/08**

FOR SALE: The following test instruments:

- Hickok # 209 VTVM and multimeter with capacitance measurement. 8 inch large dial, like new, rebuilt and fully calibrated. Includes manual and new test leads. Top of the line in its day. \$85 obo.
- RCA WO505, 5 inch 'scope, professional radio and TV repair model. Solid state, AC/DC. Looks and performs like new. Refurbished and ready for repair or experimental needs. \$65 obo.
- Heathkit # O-12, 5 inch "Professional" scope built by myself. Hardly used and in VG condition, still meets original specs. \$30.00.
- RCA WA-44C audio oscillator. VG, refurbished and tested. \$30.00.
- BK #801 Capacity Analyzer with 5" meter. A beautiful looking and sensitive capacitor tester, all parameters. With manual, fully rebuilt and calibrated. Every radio hobbyist needs one. NOTE: Today's modern capacitance testers may not test for leakage, which is so important in repairing old radios. \$60 obo.

David Boyle (303) 681-3258 **03/08**

WANTED:Wanted: 50,000 ohm resistor, 50 watts or more.

Mark McKeown 303-278-3908
Mmckeown@hughes.net **05/08**

WANTED: Broadcast reception letters and/or EKKO stamps.

Wayne Gilbert 303-431-6774
wagil@aol.com **05/08**

REPAIR SERVICE: Radio repairs for club members. Reasonable rates. Good references.

David Boyle (303) 681-3258 **03/08**

WAR OF THE WORLDS:

As some of you know, JoAnn and I do old radio show recreations. We do these shows, not for broadcast; but for live audiences in what we call Radio Theater. We use scripts, microphones, and sound effects from the original shows. Our actors dress their parts and often ham it up either on purpose or by mistakes.. We are known as the St. Luke's Radio Players and this is our tenth year of doing productions.

At the Vintage Voltage Expo, I talked to several of our members who indicated that they might be interested in our next production, which will be a recreation of the 1938 Mercury Theater show of "War of the Worlds". The show is free, but any free will offering is always appreciated to fund our future productions.

The show will be on Sunday evening July 27 at St. Luke's Episcopal Church located at 13th and Quebec Street, Denver, CO. There is parking on the east side of the building. Before the show, at 6:00 PM, come and enjoy a hot dog, chips and a beverage for \$4.00 or free coffee, tea and cookies. The show will start at 7:00 PM. You are all cordially invited. Hope to see many of you there for a relaxing Sunday evening before another busy summer work week.

Any questions call

JoAnn or Fred Bantin (303) 427-5431

Wanted: RCA Super Hydra-Dyne wooden cabinet Hi-Fi console, Model U-46. Can provide photos.

Bill Kohl 303-761-0911
squidgobbler@yahoo.com **07/08**

WANTED: One each 4 and 5 pin globe tubes for museum display. Dudsfine, type unimportant. No grid caps. **Don Andrus** 303-270-8807

DWAndrus@aol.com **07/08**

President's message continued from Page 2

I hope to see many members at the **July 13 meeting** and the **July 27 War of the Worlds** old time radio reenactment. Thanks once again to **Fred and JoAnn Bantin** for extending this invitation to all CRC members!

Robert

Available now from Charles Brett

For our July 13th, 1:00pm meeting
We will be meeting at the Castle Rock Public Library Building

**From I-25, take the Plum Creek Pkwy exit
Turn East onto Plum Creek Pkwy
Turn LEFT/North onto S. Wilcox St.
Go to the CR Public Library building at 100 S. Wilcox St.
The meeting is at the back of the lot, past the Dairy Queen.**



**Colorado Radio Collectors
Antique Radio Club
417 S. Queen Cir.
Lakewood CO 80226**

FIRST CLASS MAIL