



# The FLASH!



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

Volume 18, Issue 2

The 03/11/07 CRC Meeting is in Littleton - See Back Page

March, April 2007

## Announcing the 2007 Annual CRC Antique Radio Show, Contest and Sale - March 25th Ramada Inn - I-25 & 120th

This year the CRC will be holding it's annual Antique Radio Show and Sale at the Ramada Inn, in conjunction with the "Vintage Voltage Expo" collectibles show. As many of you know, this is our biggest and splashiest opportunity to not only show the community what antique radio collecting is all about, but it also allows those CRC members with radio and associated equipment for sell to put their wares before a crowd of hundreds of people who will be there specifically to look at and purchase antiques.

So, get those beauties down off the shelf and win a prize and/or make a buck. For further information, contact Dave Boyle at (303) 681-3258

### See page 6 for Vintage Voltage Expo details and directions

- ✓ Our contest and show space is in the hotel's main entrance atria, where all show visitors and participants must pass.
- ✓ Unloading and access will be through the main entrance.
- ✓ Tables will be available but final layout and arrangement will be when full setup is done Sunday morning
- ✓ **Please have item Brand, Model, Age info if at all possible**

- ◆ 7:00 am - Unloading, begin setup and reg.
- ◆ 9:30 am - **CRC Contest Registration Cutoff**
- ◆ 10:00 am - Complex opens to public, begin selling
- ◆ 10:15 am - Judges briefing
- ◆ 10:30 am - Judging commences
- ◆ 1:00 pm - Awards posted
- ◆ 4:00 pm - Show closes, begin breakdown
- ◆ 5:30 pm - CRC dinner - **Note:** Dinner, if held, will be decided by consensus at show

#### Costs for Space and Table Rental:

The collectable show promoter will provide the CRC gratis show space and tables. CRC members will pay for tables that are used for selling. **The cost this year is only \$25 for each table.** Sellers may share this cost with each other in any combination they choose.

#### Contest Judging Categories:

- |                        |                          |
|------------------------|--------------------------|
| Accessories            | Metal Case               |
| Bakelite               | Novelty - Transistor     |
| Battery - 1926-1929    | Novelty - Tube           |
| Catalin                | Plastic - Tube           |
| Cathedral              | Portable - Pre 1939      |
| Classic Audio          | Portable - Post 1938     |
| Communication Gear     | Pre 1925                 |
| Console - Full Length  | Speakers                 |
| Console - High/Low Boy | Specialty - "Golden Era" |
| Crystal Set            | Television               |
| Kits/Homebrew          | Tombstone                |
| Metal Box - 1920's     | Transistor               |
| People's Choice *      | Tube/Parts Display       |
| Best Restoration **    | Wooden A/C               |
| Best of Show **        |                          |

\*=Popular vote by public \*\*=Popular vote by CRC members

#### Judging Criteria:

- Internal Condition - Judged if visible from the outside
- External Condition
- Rareness - Relatively few are in existence
- Uniqueness - Novel, and not many like it
- Presentation - How well displayed, documented, etc.

#### Additional Items of Interest:

- Power will be available, but consider bringing an extension.
- As in the past shows, sellers may include any items that fall into the category of "collectable" - they need not be strictly radio related.
- Volunteers are needed to watch over displays. Please consider coming and staying for at least a while even if you're not entered in the contest or selling.
- You are highly encouraged to wear your CRC membership badge. You will need your badge for free entry into the building for you and your family.

**The CRC, and the "Vintage Voltage Expo" promoter, do not assume any liability for lost, stolen or damaged articles, brought to this event by anyone, for show or for sale.**

# COLORADO RADIO COLLECTORS ANTIQUE RADIO CLUB

Founded October 1988

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Volume 18, Issue 2

March/April 2007

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### **MESSAGE FROM THE PRESIDENT**

I want to extend my thanks to the hearty CRC souls who braved the cold and snow to attend our January meeting. About 17 of us showed up. Most of the discussion focused on the upcoming show. Elsewhere in this edition are most of the details. I wanted to supplement the published /flyer conditions and particulars:

- Set up time for CRC members wishing to enter their radios and /or misc. equipment into the contest must be between 7am and 9am. This allows for registration, table arrangement, and displaying by category. We will have about 50 tables available to us.
- Our showing area is right adjacent to the hotel conference desk and on the path to the Vintage Voltage (VV) Expo so - - - we should get lots of traffic!
- The club is paying a set fee to allow all members to enter the VV show providing you are wearing a CRC badge.
- The only selling allowed will be in the VV area. Tables are \$25 and can be shared.
- The show officially starts at 10am. We will use the 1 hour between 9 & 10 am to continue organizing, completing registration, and assisting with the VV audio, radio, and tv show. This is part of our commitment to Dana Cain.

#### **Other agenda items from the January meeting include;**

- We will endeavor to have some new CRC tee shirts available for sale (at our cost ) at the March meeting.
- Did you know, to get the Flash to your door it requires:
  - \* A CRC member to write an article.
  - \* Steve Touzalin and Larry Weide to publish
  - \* Richard Beckman to address and mail
  - \* Charles Brett and Dennis Lawrence to keep list records

**We continue to need club member articles -- Come on guys help your club out!!! Don't assume that someone else has that responsibility.**

### **CRC OFFICERS 2006-2007**

<b><u>President</u></b> Dave Boyle (303) 681-3258 1058 Colt Cir. Castle Rock CO 80109 djboylesr@msn.com	<b><u>Treasurer &amp; Archive/Books</u></b> Charles Brett (719) 495-8660 5980 Old Ranch Road Colorado Springs CO 80908 Bett3729@aol.com
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<b><u>Webmaster</u></b> - Bill Grimm, <b><u>Website</u></b> - www.radioace.com	

### **CRC MEMBERSHIP**

Annual membership in the CRC runs from **June to June**. Annual dues entitles members to a full year (6 issues) of the club publication "The Flash!", participation in club events such as the annual April Show, mid-summer picnic, October auction as well as our semi-monthly meetings and swap meets. Dues also entitle you to club officer elections and excellent discount prices on current hobby publications

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, swap meets, technical discussions and other subjects of interest.

# Capacitor Rebuilding

by Mark McKeown 2006

## Introduction

Many antique radio or electronic equipment restorations require replacement of the paper and electrolytic capacitors. The mica capacitors are usually good and are not replaced unless trouble shooting indicates they are bad. Because the vintage look of a lot of radios and equipment is in large part due to the many old capacitors, it is important to be able to rebuild them. Small paper capacitors up to the large canned or boxed electrolytic capacitors can be rebuilt retaining the original look.

A basic set of tools and materials makes rebuilding capacitors much simpler. I have an alcohol lamp and stand for melting wax, bee's wax and paraffin, brush for applying the wax, mylar tape, electrical tape, various sizes of spaghetti, five-minute epoxy, scissors and a heat gun or propane torch handy. A heat gun is a good investment if you are going to be doing much capacitor rebuilding. Using a propane torch is risky. I have scorched too many things with a torch to think about. I mix bee's wax and paraffin together to get the right consistency, bee's wax is too soft and paraffin is too brittle. The five-minute epoxy works well for gluing and filling during the reassembly process. A stock of old, salvaged capacitors is useful because some original capacitors are not restorable (burned, faded, lathe ate, etc.) and a look-alike replacement is necessary.

## Disassembly

Small paper and cardboard boxed capacitors – Disassembly of the small paper and cardboard-boxed capacitors is often a matter of using just the right amount of heat to melt the tar, wax or glue so that you can slip the insides out or unfold the cardboard box variety.

Small paper capacitors are often beyond salvaging the paper tube so I usually accept the bright color of the new ones or put a large piece of spaghetti over them. Another option is to use a salvaged paper tube with the same value as a replacement.

Canned capacitors – The large round, canned capacitors are disassembled by putting the can in a lathe and trimming off the rolled lip that holds the top insulator on. The lip can also be filed or cut off with a cutting wheel. The metal in these capacitor

cans is very soft so I cut out a rectangle of heavier sheet metal and wrap this around the can before I put it in the lathe or vise. A hose clamp helps keep the sheet metal in place (Photos 1 - 2). After the insulator and solder lugs are removed, just enough heat is applied to the outside of the can to melt the tar or wax between the capacitor and metal so that the insides can be pulled out. Sometimes screwing a large wood screw or drill into the capacitor is necessary to have something to get a hold on. After the insides are out, the thin layer of tar coating the inside of the can be removed with paint thinner or just left in the can because it won't show and there is lots of room for the new capacitors. There is a variety of rectangular canned capacitors that may need rebuilding. The approach I use is to figure out how they were assembled and try to reverse the process. Sometimes this is not possible so I cut a hole in the capacitor to remove the insides on the chassis side so that when the capacitor is installed in the equipment the surgery will not show.

Bakelite capacitors – The small rectangular bakelite cased capacitors that are common in early Philco radios are always a trial because the values are not obvious, there are lots of them, many are multi-sectioned or have terminals used as tie points making them difficult to remove from the radio. References with capacitances related to part numbers are available on the web. Otherwise if you check the capacitor with a capacitor checker you can usually read the correct capacitance even though the capacitor will leak with high voltage. My Heathkit capacitor checker puts a very low voltage across the capacitor so no leakage occurs.

The capacitors are disassembled by heating the unit until the tar potting compound filling the capacitor is soft. The insides can then be pulled and dug out. The leads can be pulled out of the capacitors as the capacitor insides are removed. The tar is then cleaned out by digging and washing with paint thinner.

## Replacement Capacitors

I use axial lead polystyrene, polypropylene, and electrolytic capacitors because they are much smaller than the original capacitors and can be put inside almost all old style paper or metal tubes, boxes, or cans. I never use NOS capacitors. If the capacitors are too large in diameter, as many as necessary smaller values can almost always be hooked in parallel to get the correct capacitance and fit into the container.

### Fillers

The smaller capacitors that replace the larger insides of the rebuilt capacitors have to be held in place or they will rattle around or could short out. I make wood filler blocks, cardboard inserts, or stuff them with paper towel, whichever seems appropriate (Photo 3). I do not repot anything although I do fill the ends of tubular paper capacitors with five-minute epoxy to get a look similar to the filler that is used originally.

### Assembly

Small paper and cardboard boxed capacitors – Small paper capacitors are assembled by wrapping tape around the new capacitor so when it is inserted into the old cardboard tube it will stay in place and the end filler material will not leak out. I then stand the capacitor on end and fill the end with five minute epoxy so that it looks like the original. The clear material does not detract that much or the epoxy can be painted to get closer to the original look.

Cardboard box replacement capacitors are hooked up to the original wires if they are still good. A cardboard or wood frame is made and the capacitors and wires are glued to the frame. The capacitors can also be taped together forming a bundle and then packed in paper in the box to hold everything in place (Photos 4 – 5). The box is then refolded using glue or wax to hold the flaps in place. Wax can then be rubbed over the box if it was originally waxed and then heated with a heat gun so it flows out smooth (Photo 6).

Canned capacitors – A hole just larger than the new capacitor leads is drilled through the bakelite or plastic end cap just adjacent to the solder lugs and one for the ground lead is drilled along the edge. The capacitors are assembled into a bundle arranged so the leads from the different values will come out as close to the corresponding terminals as possible. The leads coming from the capacitors are then wrapped around the solder lugs and soldered in place and trimmed (Photo 7). The capacitor bundle is inserted into the can with an appropriate amount of paper packing. Any metal rings are also put in place. I then epoxy the bakelite or plastic top and metal ring (if there is one) around the edge and let the epoxy harden. When the capacitor is fastened to the chassis the removed crimped edge area is hardly visible and the capacitor looks original except on very close inspection.

Bakelite capacitors – After the bakelite can is cleaned, the replacement capacitor(s) leads are

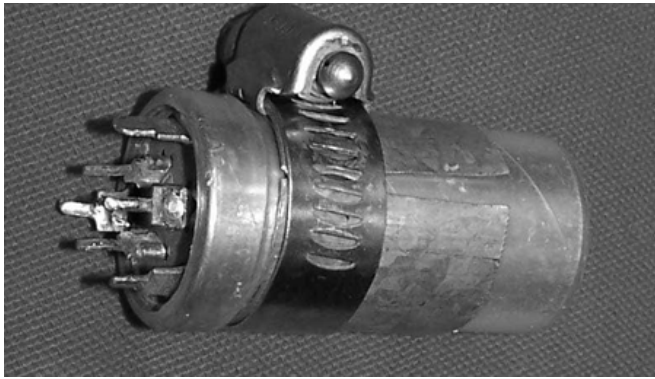
pushed through the terminal holes and soldered to the terminals (Photo 8). The leads are short enough so that no filler is necessary and when the bakelite can is fastened down to the chassis, the open end is not visible.

### Conclusions

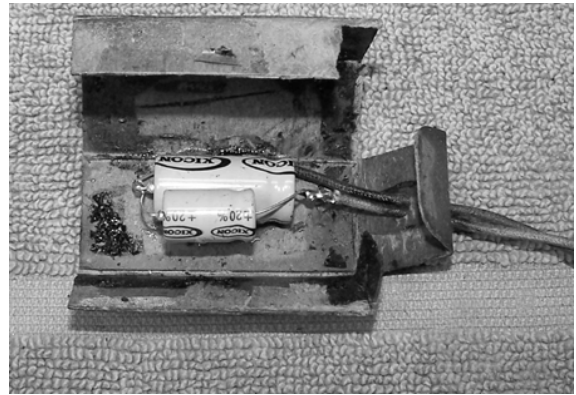
If you are careful and try to reverse the way capacitors are assembled, old capacitors can be disassembled and rebuilt so that they look very close to original. Whether the capacitors are worth the effort depends on the radio and your restoration philosophy. In any case, never use the existing terminals of a capacitor as a terminal strip without disconnecting the old capacitor. If the terminals are removed from a can, a terminal strip can be mounted across where the old terminals were and the leads are usually the correct length if you arrange the replacement capacitors appropriately on the terminal strip. The can can then be kept for cosmetic purposes.

**Please see referenced photos on next page**





1. Can cap with sheet metal in place ready to put in lathe



5. Box capacitor with new caps (in parallel) in inner box



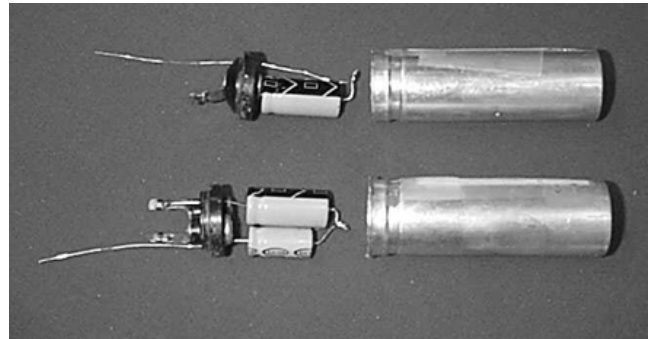
2. Can capacitor in lathe ready to cut crimp lip off



6. Box capacitor rebuilt



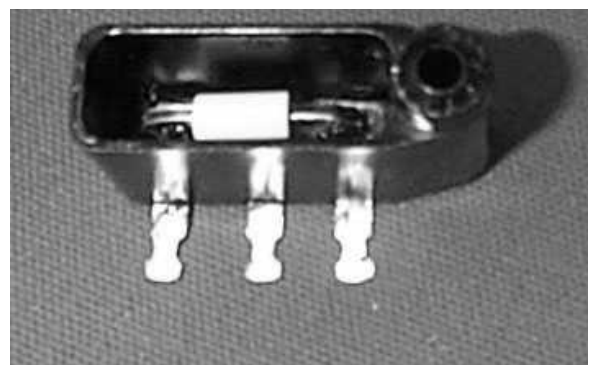
3. Filler with new capacitors in place, old capacitor at top



7. Can capacitors ready for assembly



4. Metal can multi-section capacitor ready for reassembly



8. Bakelite box with new capacitor installed



**Sunday March 25, 2007**

**Ramada Plaza**

**I-25 at 120th, Northglenn CO**

**10 am - 4 pm - *No Early Packing***

*Start GEARING UP for Denver's hottest New Collector's Show... If you love CLASSIC GEAR FOR AUDIO, RADIO, TV OR MUSIC - this is where you need to be on March 25! If you have stuff to SELL, you'll want to get tables in our Dealers Room - only \$25 each, mix and match! Read on....*

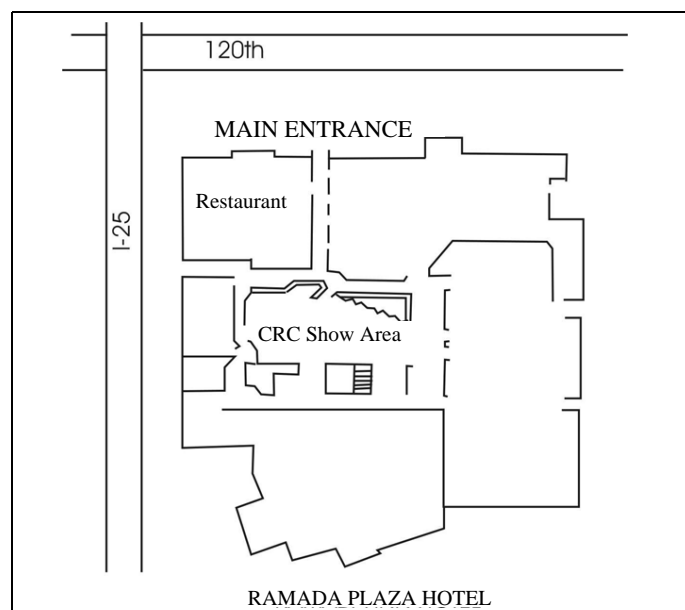
CRC members who will be bringing items for sale and/or the show and contest can bring their equipment in through the main entrance from 7:00am to 10:00am. Remember that contest registration cutoff is at 9:30am *sharp*. A sign will indicate if an additional door, on the east side, will be available for unloading. Parking is on the north and south sides.

CRC members who choose to sell may share purchased tables in any combination with others and sell any items that fall into the very broad category of "vintage voltage".

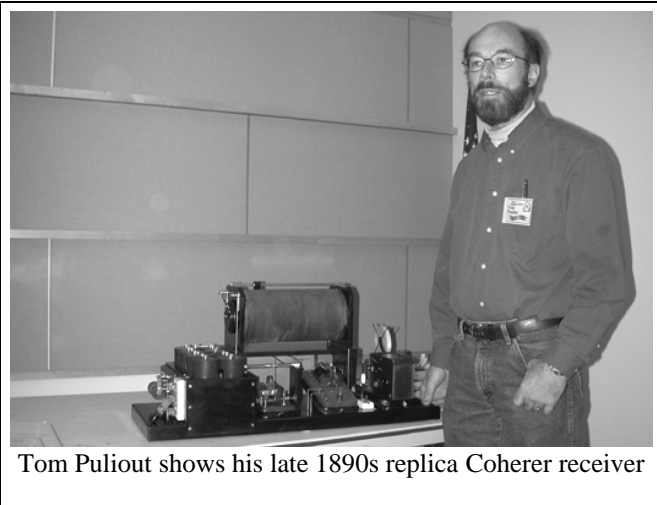
**6-ft table: \$25 or 5 for \$100.**

**10x10 booth: \$95 (Bring your own tables)**

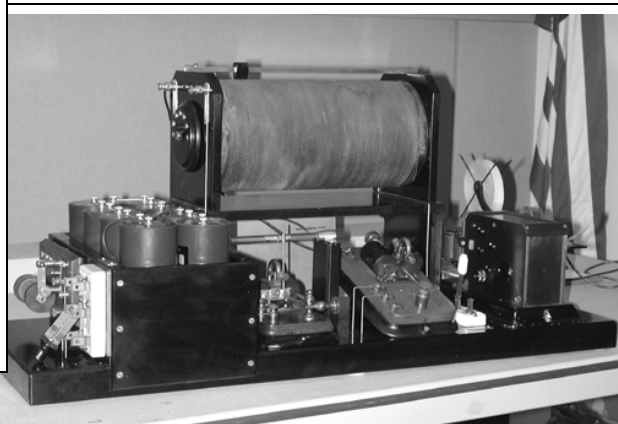
**Private Sales Room: \$250 (very limited quantity)**



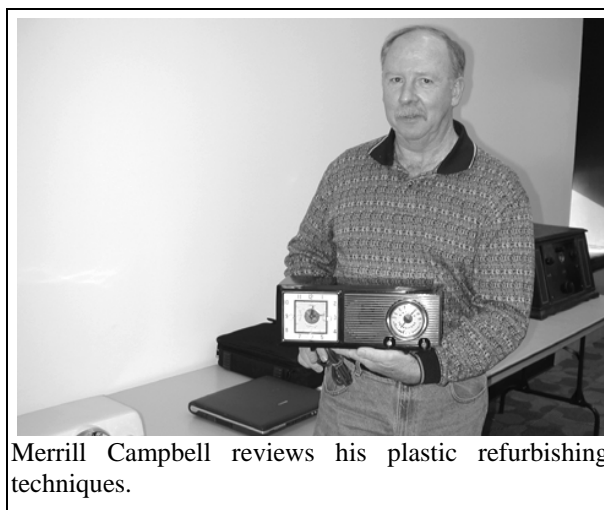
# JANUARY '07 MEETING - SHOW N TELL



Tom Puliout shows his late 1890s replica Coherer receiver



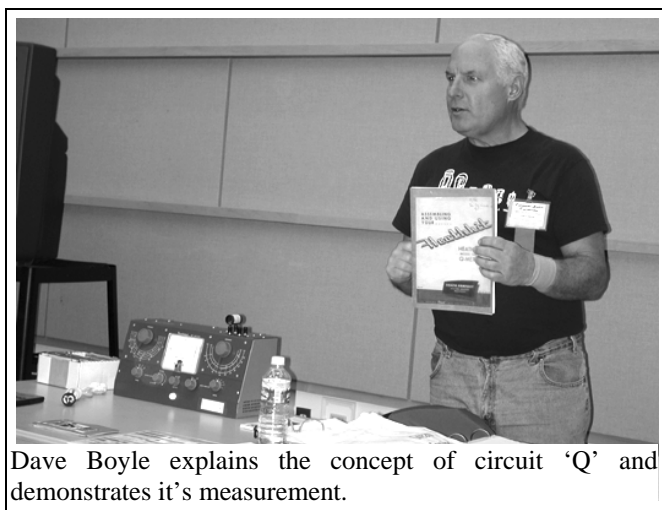
Closeup of the replica Coherer receiver. Notice the automatic paper tape CW recorder on the right.



Merrill Campbell reviews his plastic refurbishing techniques.



Merrill also describes his Crosley restoration



Dave Boyle explains the concept of circuit 'Q' and demonstrates it's measurement.



# 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					
ANTIQUA RADIO, COLLECTOR'S GUIDE - 4th EDITION Bunn, 1997 values, revised & updated, new photos, 248 pgs	\$18.95					
GUIDE TO OLD RADIOS, POINTERS... - 2nd EDITION Johnson, 277 pgs, 1995-96 prices	\$19.95					
ANTIQUA RADIO RESTORATION GUIDE - 2nd EDITION Johnson, 144 pgs, repairing, refinishing, cleaning	\$14.95					
RADIO, EVOLUTION OF THE - VOLUME ONE 227 pgs, 118 in color, More than 800 radios pictured, 1992	\$22.95					
RADIO, EVOLUTION OF THE - VOLUME TWO 226 pgs, Radios of the 1920s to 1960s, with 93-94 values	\$24.95					
TRANSISTOR RADIOS, COLLECTOR'S GUIDE VOL II Bunn, 1996 prices, Full Color	\$16.95					
ZENITH TRANSISTOR RADIOS, 1955-1965 Smith, 1998 PG, 160 pgs, 226 color pics, info, descr.	\$29.95					
THE ZENITH TRANS-OCEANIC (THE ROYALTY OF RADIOS) Bryant and Cones, 160 pgs, 1995	\$29.95					
ZENITH RADIOS THE EARLY YEARS 1919-1936, Cones 1997-98 Price Guide, 223 pgs, 100's Photos, Desc., Hlst.	\$29.95					
RADIOS BY HALLCRAFTERS, revised 2nd edition Dachs, 1999 values, 220 pgs, 1000+ pics, id's, history	\$29.95					
CLASSIC TV'S, PRE-WAR THRU 1950'S 86 pgs, color & b/w pics, descriptions, etc.	\$18.95					
Machine Age to Jet Age, Radiomania's Table Radio Guide 'III, 33-62 Stein, 256 pgs, 100's of b/w photos	\$29.95					
TRANSISTOR RADIOS, 1954 TO 1969 Norman Smith, with prices, 160 pgs, 1000 photos, 1998	\$29.95					
PHILCO RADIO: 1928 - 1942 Ramires & Prossie, 160 pgs, 828 pics & drawings, 1993	\$29.95					
RADIO AND TV PREMIUMS Jim Harmon, 256 pgs, 200+ photos, 1997	\$24.95					
RADIO MANUFACTURES OF THE 1920'S VOL I Alan Douglas, 225 pgs, 1988	\$24.95					
RADIO MANUFACTURES OF THE 1920'S VOL II Alan Douglas, 266 pgs, 1989	\$29.95					
RADIO MANUFACTURES OF THE 1920'S VOL III Alan Douglas, 285 pgs, 1991	\$29.95					
CRYSTAL CLEAR VOL I Maurice Sievers, 282 Pgs, 1991	\$29.95					
CRYSTAL CLEAR VOL 2 Maurice Sievers, 252 Pgs, 1995	\$29.95					
RADIO TUBES AND BOXES OF THE 1920'S George A Fathauer, 112 Pgs, 1999	\$26.95					
70 YEARS OF TUBES AND VALVES, 2ND EDITION John Stokes, 264 Pgs, 1997	\$29.95					
RADIO DIAGRAM SOURCEBOOK Richard Gray, 264 Pgs, 1996	\$18.95					
THE RADIO COLLECTOR'S DIRECTORY AND PRICE GUIDE, 2ND ED. Robert Grindler, 524 Pgs, 1995	\$26.95					
COLLECTOR'S GUIDE TO VINTAGE TELEVISION Durbal & Glenn Bubenheimer, 200 Pgs, 1999	\$15.95					
NOVELTY RADIOS, VOLUME 1 Marty Bunn & Robert Breed, 223 Pgs, 1995	\$18.95					
NOVELTY RADIOS, VOLUME 2 Mary Bunn & Robert Breed, 199 Pgs, 1999	\$19.95					
COMPLETE PRICE GUIDE TO ANTIQUE RADIOS: PRE-WAR CONSOLES Mark Stein, 235 pgs, 100's of b/w photos	\$29.95					
TUBE TESTERS AND CLASSIC ELECTRONIC TEST GEAR Alan Douglas, 166 Pgs, 2000	\$25.95					
COLLECTOR'S VACUUM TUBE HANDBOOK, VOLUME I Robert T. Millard, 196 Pgs, 2001	\$25.95					
SILVERTONE ANTIQUE RADIOS 1930 - 1942 Stein, 239 pgs, 2001	\$34.95					
ANTIQUA RADIO COLLECTOR'S GUIDE 5th EDITION John Slusser, 264 Pgs, 2001	\$19.95					
RADIOCRAFT JUBILEE - REPRINT OF 1938 EDITION Hugo Gernsback, Vestal Press	-----					
CLASSIC CONE SPEAKERS Buford & Jane Chidester, 122 Pgs, 2001	\$25.95					
TUBE LORE Ludwell Silbey, 186P gs, 1996	\$29.00					
ARTHUR COLLINS RRADIO WIZARD Ben Sterns, 394 Pgs, 2002	\$18.95					
MACHINE AGE TO JET AGE - VOL I Mark V. Stein, 256 Pgs, 1998	\$24.95					
MACHINE AGE TO JET AGE - VOL II Mark V. Stein 358 Pgs, 1997	\$28.95					
TABLETOP RADIOS - Vol I Mark V. Stein, 240 Pgs, 2002	\$29.95					
A. ATWATER KENT Williams & Wolkowitz, 108 Pgs, 2003	\$25.95					
THE WOOD FINISHER Bruce Johnson, 341 Pgs, 1993	\$12.00					
THE WEEKEND REFINISHER Bruce Johnson, 296 Pgs, 1989	\$12.00					
THE PLATING MAN'S MANUAL Johnson	---					
THE FABULOUS VICTROLA "45" Phil Yourtsis, 176 Pgs, 2002	\$29.95					
ZENITH RADIOS THE GLORY YEARS 1936 - 1945 Cones, Bryant & Blankinship, 256 Pgs, 2003	\$34.95					
ZENITH ILLUSTRATED CATALOG AND DATABASE 1936 - 1945 Cones, Bryant & Blankinship, 182 Pgs, 2003	\$29.95					
THE ALL-AMERICAN FIVE RADIO Richard McWhorter, 92 Pgs, 2003	\$19.50					
E.H. SCOTT...THE DEAN OF DX, 2ND EDITION Marvin Hobbs, 240 Pgs, 2003	\$29.95					
ANTIQUA RADIOS 6TH EDITION John Slusser, 320 Pgs, 2004	\$24.95					
OLD TIME RADIOS Joseph Carr, 256 Pgs, 1991	\$19.95					



# The Open Trunk

Member submitted advertisements



**FOR SALE:** 1928 AK-52 7 tube metal console, asking \$150 - trades considered.

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

**Robert Baumann**, (303) 988-2089  
rgbdenver@aol.com

02/07

**FOR SALE:** 1941 RCA Radio Victrola, Anniversary Model V-205.

**Larry Beckman**, (970) 482-2537  
Fort Collins

06/06

**WANTED:** I'm looking for any info about Dr. Lee DeForest and his activities in Colorado and Montana in early 1900s. I'm also looking for a copy of an advertisement for the 2-transistor "Boy's Radio" from 1959-1960 publications.

**Wayne Gilbert**, (303) 431-6774  
wagil@aol.com

06/06

**FOR SALE:** Stromberg-Carlson NO. 744-B Radio Receiver and Phonograph Combination with Drop Panel. \$250.00



**Merrill Campbell** (719) 596-3482  
campbell321@juno.com

08/06

**FOR SALE:** Atwater Kent Model 20C, in GOOD original condition. The set works, and comes with 5 globe tubes, and a Sterling "B" Eliminator, NO speaker. Asking \$225. If interested, contact

**Barney Wooters**, (303) 770-5314

10/06

**FOR SALE:** Old "Supreme Radio Analyzer" Model 339 Deluxe - works but instructions lost, \$15 OBO. Also Weston Model 976 Electronic Multimeter with comprehensive inst. manual - may need some repairs, \$15 OBO. Also many old used and NOS tubes, meters, Bakelite molded capacitors, Porcelainized resistors, etc. - real cheap!

**Ken Motzer**, Longmont, CO (303) 684-8147  
kenlea1@juno.com

12/06

**FOR SALE:** Heathkits; all excellent, restored, and calibrated:

# O-12, 5" 'scope, \$50

# SG-8 Rf signal generator, \$30

# QF-1 Q multiplier, \$15

# IG-52 TV alignment generator, \$70

**ALSO FOR SALE:** Eico #324 Signal generator, restored, repaired, and calibrated, \$45,

Sylvania #620 Tube tester, mutual conductance, professional model; restored and calibrated. \$85,

RCA #WA-44A Audio generator, VG, \$40,

BK Picture tube tester and rejuvenator, \$18.

**David Boyle** (303) 681-3258

12/06

**FOR SALE:** RCA Radiola 18. Complete with tubes, one knob missing. \$35 OBO. Atwater Kent 42 F Complete. \$40 OBO. bantin@sprynet.com

**Fred Bantin** (303) 427-5431

02/07

**WANTED:** Screen Magnifying glass for early screen TV sets. **Mark McKeown** (303) 278-3908  
mmckeown@hughes.net

02/07

**FOR SALE:** Battery sets, Cathedrals, Table Models, and Speakers.

**Bob Slagle** (719) 564-7894 (Pueblo)

peakradio@comcast.net

02/07

## NOTE

Now there is a website that offers precision laser cut backs for many table top radios. They're made from materials that are exact or similar in appearance to the originals.

Go to

**"Retro-Tronics"**

<http://retro-tronics.com/index.php>

*For our March 11th, 1:00pm meeting ....  
We will be meeting at the Bemis Public Library, Littleton*



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

**FIRST CLASS MAIL**