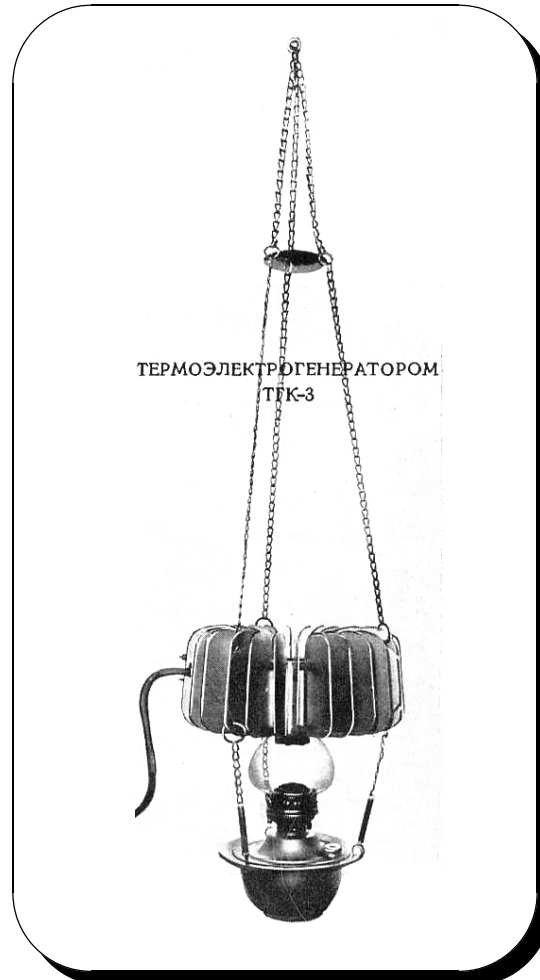




# The **FLASH!**



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



**So, you forgot to pay your electric bill? No problem!  
Leave it to the Russians to solve your dilemma  
See Page 3**

- ✓ Ten Years of Flash Articles - Index
- ✓ The FCC During WWII
- ✓ May Show N Tell Pictures

# COLORADO RADIO COLLECTORS ANTIQUE RADIO CLUB

Founded October 1988

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Volume 18, Issue 4

July/August 2007

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### MESSAGE FROM THE PRESIDENT



#### *Congratulations-this is our 20th. anniversary year*

This is the second issue of the "new and improved" Flash. I want to again thank all those of you who bring this to our mail boxes. The club has voted to print a color centerfold featuring highlights from our upcoming auction. If we can afford the cost we will also print color photos after next year's show. Kind'a continue in this concept.

To complement the Flash's new look, I am endeavoring to pick up the pace of our meetings. As you are aware, I conduct the meeting from a written agenda to keep the "necessaries" moving along. Business must be conducted but a little acceleration wouldn't hurt! We will strive for more time for the "good stuff"--- viz-a viz our last meeting. We are also trying out a new agenda item; "in meeting" auctions. We will make time for a few auction/sale items... so bring them on. Also you are welcome to bring in "for sale" items and put them on display. Negotiations can take place after the formal meeting.

The club served soda pop and popcorn & chips during our Sunday movie matinee. How's that for a new club benefit?

We are encouraging you guys to present "show & tells", technical briefings or down-right technical "dog & pony acts" of a general hobby nature. Please call me so I can get your longer technical presentations on the agenda.

The Auction/BBQ date is set for Sunday September 9<sup>th</sup>.  
Next year's show will be on Sunday, March 30<sup>th</sup>.

### 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 **July 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.

## Russian Receiver Powered by Kerosene Lamp

Submitted by Steve Touzalin, CRC Member

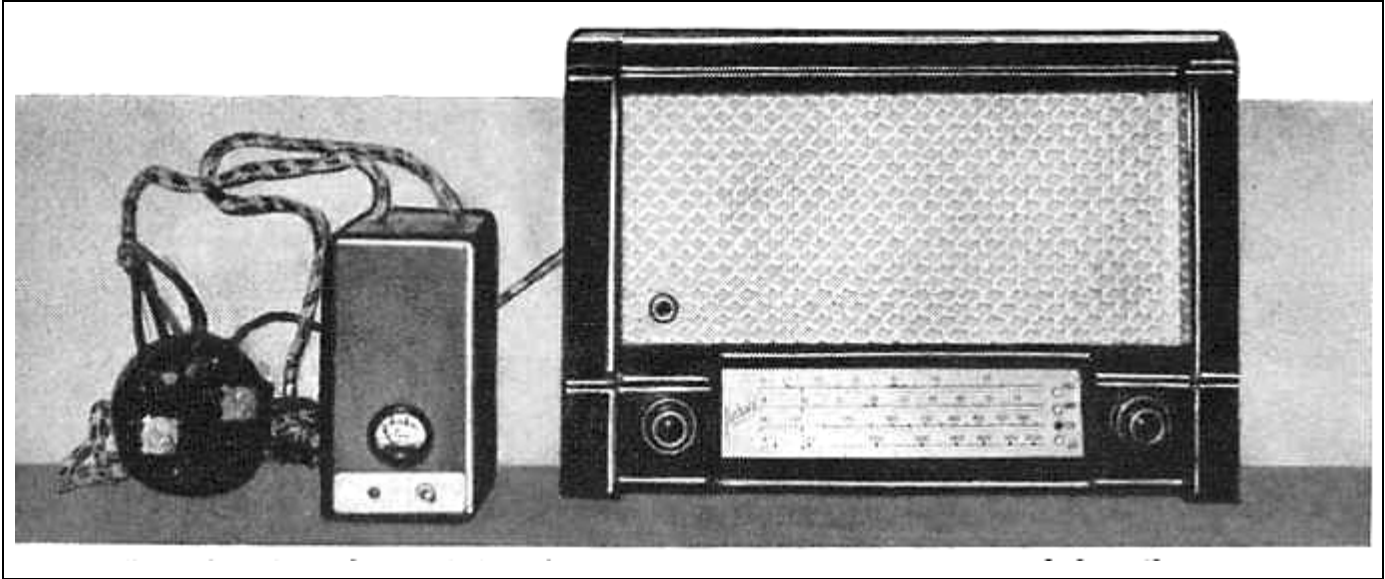
Originally appeared in the August 1958 issue of "Radio and TV News"

Subsidized set built for Middle East use operates for 8 to 16 hours on about one quart of fuel.

play even though lowered heat reduces the thermocouple voltage to about 0.8 volt.

The radio itself is a 7-tube, 4-band superhet. It covers a frequency range from 175 kc. to 12.3 mc. Two

A heavy 5-inch speaker is used, and this, coupled with the push-pull output stage, produces fairly good output. Provision is made for an external speaker and phono pickup. Trimmer adjustment holes in the shield cans are



The Russian broadcast set shown above was built as a "poor man's radio" for the Middle East to enable the residents of these countries to pick up Russian radio broadcasts. The set is subsidized in that the buyer is given a partial refund on the purchase price so that the final cost amounts to about the equivalent of \$45. Even with the refund the price is pretty steep for most of the would-be buyers. This, coupled with the fact that kerosene is expensive and hard to come by in Middle East countries, has made acceptance of the set pretty limited.

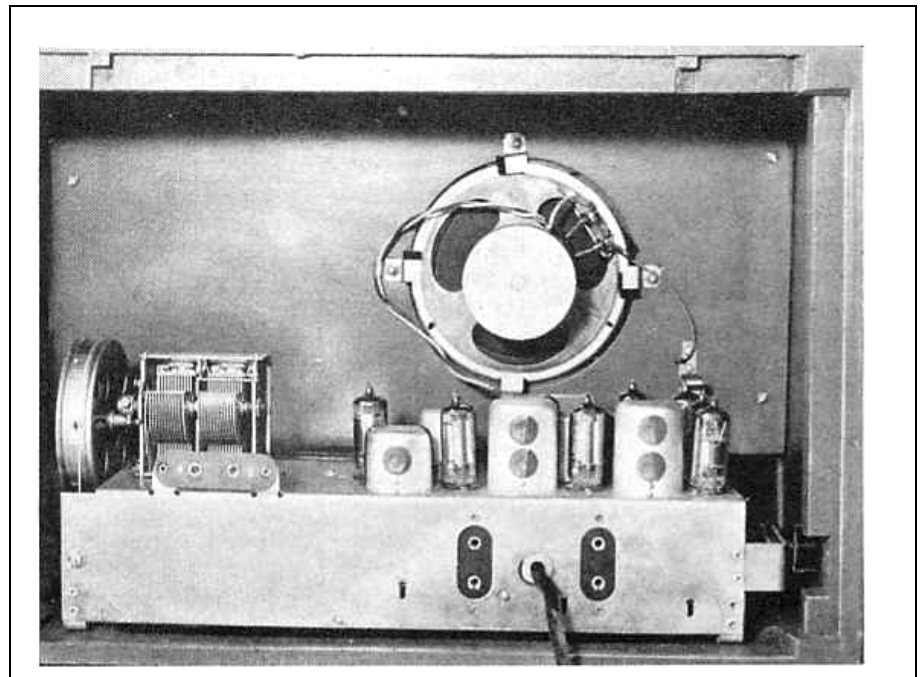
The idea of using heat, such as from a kerosene lamp, to generate a voltage to run a set is novel but it is not new. Several European countries have tried and discarded this method during World War II and before. For example, the English had a somewhat similar rig in the early thirties, using flame from a gas jet rather than a kerosene lamp, but the units were troublesome and impractical.

The thermocouple, mounted between the lamp's aluminum radiating fins, produces an output of 1.2 volts - [see front cover]. This is used for the filaments of the tubes and to drive a vibrator power supply. The output of the vibrator supply is 90 volts for tube plates and screens. The radio will continue to

concentric-type controls on the right are for band switching and tuning, while two other concentric-type controls on the left are for tone and volume. The pilot lamp is at the lower left corner of the grille. When batteries are available, these can be used to power the set directly. The thermocouple and external power supply would then not be needed.

covered with discs of red gummed paper to prevent tampering.

The chassis is made of heavy gauge aluminum, bent into U or channel-shape with mounting straps riveted to the corners. The cabinet is made of solid eucalyptus, or blue gum, with a beautiful hand-rubbed finish, however, from the inside it looks as if it had been chopped out with a dull hatchet.



## Ten Years of Flash Articles

By Dave Boyle, CRC Member

This tabulation of articles supplements a similar compilation that I authored for the March-April 1999 FLASH with some overlapping. The format chosen was to simplify my task. Both technical, historical, and informative articles are

listed herein. Literary license was once again used in the titles to briefly, but succinctly, bring into "focus" the subject matter presented in the individual article. Alphabetical listings are not arranged past the initial letter!

Some Flash back issues are still available. Obtaining article reprints and back issues will be discussed at the meeting proceeding the publication of this article.

<u>Subject</u>	<u>Month/Month &amp; Year</u>
ARCTURUS TUBE BOXES	MJ 02
AK BRIEF	SO 05, ND 05
AK BREADBOARD	JA 2000
AK HORN SPEAKER	ND 04
ADMIRAL B125 RESTORATION	MJ 06
AVC/AGC CIRCUITS EXPLAINED AND REPAIRS	JF 98
AMERICAN BOSCH MODEL 28 RESTORATION	MJ 02
ACTIVE ANTENNA FOR OLD RADIOS, BUILDING	SO 2000
BOULDERADIO CO	MA 04
BUCKWALTER SUPERTON, A COLO. RADIO?	JA 98
CAPACITORS AND OLD RADIOS, 2 PARTS	MA 99, MJ 99
COLO. EARLY RADIO BROADCASTERS	MA 98
COLO. RADIO PIONEER; ROBERT WILKINSON	JF 05
COLD WAR ERA RADIOS FOR EMERGENCY USE	ND 2000
CAR RADIO DEVELOPMENT	MA 03
COCKADAY 4 CIRCUIT TUNER, BUILDING	ND 02
CLOCK RADIOS, PRE WW2	ND 01
COIL REWINDING	ND 06
DEFOREST MODEL F5	ND 02 DEFOREST,
INVENTOR OF THE VACUUM TUBE AMP.	ND 03, SO 04
EARLY RADIO BAKELITE/PLASTIC FRONT PANELS AND SMALL CABINETS	MA 99
FARM RADIO POWER SUPPLY, BUILDING	JA 2000
FESSENDEN, THE OTHER FATHER OF RADIO	JA 05
GASSY TUBES	ND 2000
GE PORTABLE RADIOS, LOOKALIKE TUBE VS TRANSISTER!	SO 2000
GE'S FIRST REAL CLOCK RADIO	MJ 01
GRID BIAS AND FILAMENT CATHODE AMPLIFIERS	JA 97
GRIMES 3 TUBE REGENERATIVE RADIO, BUILDING	JF 01
HICKOK 6000TUBE TESTER REPAIRS, 2 PARTS	JA 04, SO 04
HOLLISTER CRYSTAL COMPANY	JJ 02
HALLICRAFTERS S19-R, RESTORATION	MA 02
INDUCTORS AND TRANSFORMERS IN OLD RADIOS, 2 PARTS	MJ 01, JA 01
KOLSTER RADIO MODEL K24, RESTORATION	JJ 02
KPH, WIRELESS GIANT OF THE PACIFIC	MA 02
MUSIC MASTER RADIO RESTORATION	MJ 05
MADISON-MOORE RADIO	ND 98
MORSE CODE HISTORY	SO 99
MICA CAPACITORS, IDENTIFYING	MA 2000
ONE TUBE REGEN. RECEIVER	MJ 2000
ORKNEY RADIO MUSEUM	MA 06
PATENTS AS A SOURCE OR OLD RADIO INFO.	SO 98
PHILCO CONDENSER/RESISTER BLOCKS, 2 ARTICLES	SO 98, JF 01
PHILCO 90 RESTORATION	JF 98
PHILCO RADIO PROBLEMS, SWITCHING FROM GLASS TO METAL & VISA-VERSA!!	ND 97
PHILCO 60 REPAIR	ND 99
POWERING UP OLD RADIOS	JF 98
" Q " OF INDUCTORS EXPLAINED	JF 07

RCA CATACOMBS—6 TUBE TYPE, REPAIR	MA 04
RADIO ON THE TELEPHONE LINE (1893-1912)	ND 99
REPLACING VOLTAGE DROPPING LINE CORDS, 2 ARTICLES	JF 99, MJ 99
RADIO AT WAR ( WW 2 )	ND 01
REPRODUCING RADIO KNOBS	JF 06
ROSIE THE RIVETER, A PERSONAL STORY	JA 06
RUSS OPIE-LANGTON, A EARLY RADIO LISTENER (WIRELESS DAYS)	SO 04
REMAGNETIZING IRON-VANE SPEAKER MAGNETS	ND 01
SPARK TUNED RADIO TRANSMITTERS, BUILDING, 3 PARTS	MA,MJ-01,JF 02
SWISS RADIO CABLE SYSTEM	JF 01
THREE TUBE REGEN. RADIO, BUILDING	ND 2000
TUBE REACTIVATION AND REJUVENATION, EARLY TYPES	ND 2000
TRANSFORMER REPAIR, 2 ARTICLES	JF 99, JF 04
TUNED CIRCUITS EXPLAINED	MA 06
TRF/SUPERHET. HYBRID OF THE 1920'S	SO 02
TWO TRANSISTER “ BOYS RADIO “	SO 06
UNITED FRUIT CO., EARLY RADIO TRANSMISSIONS	MJ 99
WD-11, SUBSTITUTIONS	ND 97
WESTERN MFG.; KEARNEY, NEBRASKA (MINIAT. RADIOS/KITS-POST WW 2)	SO 97
WIRE SIZES AND RESISTANCES	MA 98

.....

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**Denver Radio Club Hamfest 2007 - The BIG one!**  
**Sunday, August 19th, 8:30am to 2:00pm**  
**Jefferson County Fairgrounds**  
**15200 West 6th Avenue**  
**Golden, CO 80401**

<http://www.qsl.net/w0tx/hamfest.htm>

The F.C.C. during WW2

Submitted by Don Andrus

*The following information is taken from an article in a recent issue of QST Magazine.*

At the onset of WW2 the FCC was asked to assist in the war effort by creating the Radio Intelligence Division, referred to as R.I.D. One R.I.D. mission developed from request by the State Department to monitor Japanese homeland broadcasts to see if the Japanese people were being fed the same propaganda content that the high powered Japanese short wave stations were beaming to the rest of the world.

At that time the closest monitoring point the F.C.C. had to Japan was on the island of Oahu. A quick check was made and it was found that the mainland Japanese broadcast stations were too weak to be heard in Hawaii, with the exception of the very high powered JOAK in Tokyo. Unfortunately this station transmitted at 640 KHz, the same frequency as KFT in Los Angeles. In Hawaii, both stations were received with the same signal strength, resulting in the unintelligibility of either station.

To resolve this, the R.I.D. determined that the northern end of the island of Oahu lay very close to the great circle route between Los Angeles and Tokyo. On a level spot they constructed a long wire antenna, 2600 feet long and 5 feet above the ground, the east end pointing directly toward Los Angeles and the west end toward Tokyo. This was a 'Beverage' antenna design, with a terminating resistor to ground on the west end, and the input to the receiver on the east end.

By adjusting the terminating resistor on the west end, they were able to completely null out the Los Angeles transmitter and listen to Tokyo with an S-9 signal strength. As a traveling wave antenna, the Los Angeles signal was shorted to ground by the terminating resistor at the west end and the Tokyo signal presented itself at full strength at the input to the receiver on the east end.

# The CRC 2007 Annual Auction

## is coming soon!

### Sunday, September 9th

# WILL YOU BE READY?

### Full Details In The September Flash Issue

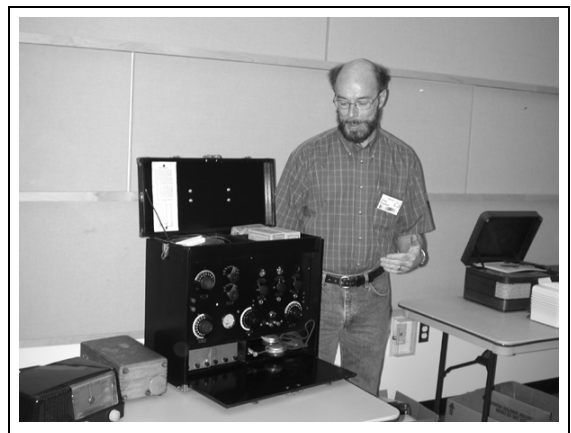
# MAY '07 MEETING - SHOW N TELL



<==  
 Ready for the videos with complimentary soda, chips and popcorn  
 ==>  
 Merrill Cambell shows us bakelite polishing techniques



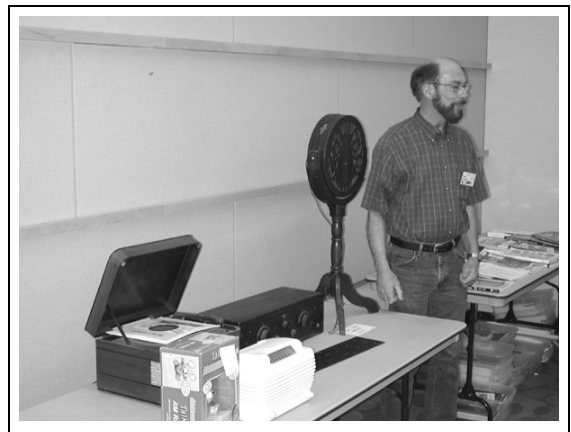
<==  
 Mike McCutcheon provides our audio/visual  
 ==>  
 Tom Pouliot displays his 20s homemade "portable"



<==  
 Dave Boyle "peddles" the CRC polo shirts  
 ==>  
 A new CRC member talks about his Canadian radio restoration project



<==  
 Dan Houfek holds his Coheror detector, age unknown  
 ==>  
 Tom Pouliot auctions off his early 20s unique speaker



# 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	\$28.00		
ANTIQUA RADIO, COLLECTOR'S GUIDE - 4th EDITION Bunn, 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		
ANTIQUA 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 Bunn, 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 Grander, 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 Bunn & Robert Breed, 223 Pgs, 1995			\$18.95	\$15.00		
NOVELTY RADIOS, VOLUME 2 Mary Bunn & 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		
ANTIQUA RADIO 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		
ANTIQUA 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  
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:** 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**

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

mmckeown@hughes.net **02/07**

## Just a Friendly Reminder



**Have you paid your 2007 CRC dues yet? Remember that we'll have to stop sending newsletters to anyone who is not paid up before the next newsletter is issued.**

*Most Amazing Value in Radio History*

## Victor Radio

**The New Micro-Synchronous Radio**



**Beautiful New Victor Console Radio**

COM- PLETE **\$178** EASY TERMS

**7 Features of Every Victor**

Micro-synchronous balance: Every element always in resonance. Condensers automatically harmonized. Perfect performance on any wave length.

Super-automatic, full-vision illuminated station selector. . . The station you want is always in plain sight.

Improved Victor circuit . . . sensitive, selective.

Push-pull amplification. Two new RCA power Rectifiers No. 245.

Marvelous new Victor electro-dynamic reproducer.

Three distinct units—interchangeable—accessible.

Exquisite, compact cabinets. Fit in with finest home furnishings.



**New Victor Radio With Electrola**

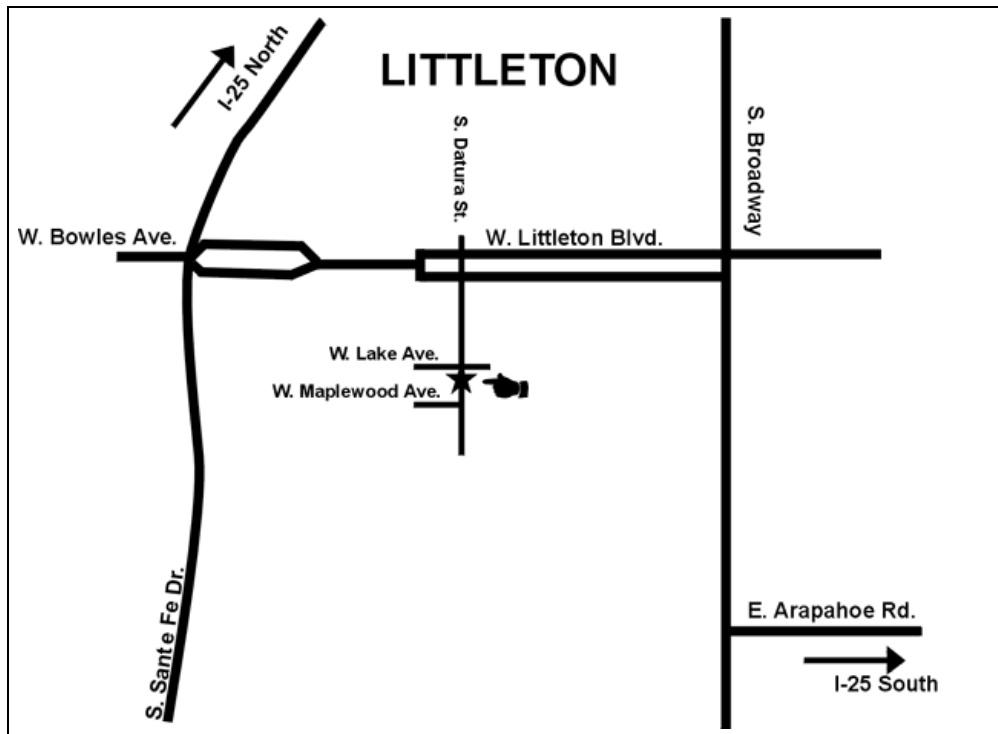
COM- PLETE **\$298** EASY TERMS

Two Instruments in One  
Demonstrations Every Day . . . Come In and Get the Treat of Your Life

The Denver Music Co.

1536-40 Stout Street
KEystone 5201
Dependable 46 Years

*For our Jul 8th, 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**