



The FLASH!



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



Here's some of the reasons why our November '07 meeting was terrific

Also in this issue ...

- ✓ Meet our newly elected President, Robert Baumann
- ✓ "Brewing" up a great restoration
- ✓ Who actually manufactured some of those old radio?

COLORADO RADIO COLLECTORS ANTIQUE RADIO CLUB

Founded October 1988

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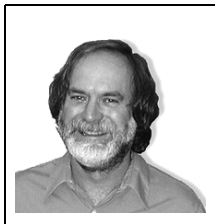
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MESSAGE FROM THE PRESIDENT



I hope all CRC members and their families have enjoyed a pleasant holiday season. Those who were able to attend our final gathering of 2007 in November shared a rewarding afternoon of club activities. It's always good to see the usual gang but also new faces and those from the past who are once again sharing their enjoyment of our hobby.

We had an informative presentation on wood revitalizing by Joe Eldredge, co-owner of Rocky Mountain Lustre. I think his company's product may quickly become a favorite of ours. A number of interesting items and stories were presented during show 'n tell. The raffle tables were full of items that changed hands thanks to contributions from several members. I would especially like to recognize Dave Gonshor and Bill Grimm for their generosity which significantly helped our treasury. And also Tom Pouliot who kept his auctioneer skills honed. In many ways, the November meeting revealed all that is good about the CRC: sharing of information, knowledge, collecting stories and restoration tips but most of all, participation. I believe the true value of the CRC is the sum of each individual's unique perspective which they are willing to share.

Please be sure you have marked your calendar with a reminder of our next meeting on Sunday, January 13th at the Bemis library in Littleton. The most important business item will be discussion of our annual show at the Vintage Voltage Expo on Sunday March 30.

(Continued on Page 9)

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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.



HOME BREWED Aged For Over 80 Years

By David Boyle, CRC Member



It all started with the purchase of a very worn out and ragged (translation: parts set!) obviously homemade radio of the 1920's. As some of you fellow collectors know, we all like a spring project and something to keep us out of trouble. This was it; The radio contained some sought after parts such as a neat variometer, rheostats, & etc. I don't need any more parts around here so a rebuild was elected. I first "reversed engineered" the wiring to develop a circuit. This indicated a pretty much straight forward 3 tube TRF circuit. There was enough of the correct components to change it into a typical Armstrong regenerative detector circuit but my theme was to rebuild it exactly as original. I wanted to qualitatively resurrect its original performance as close as possible.

After disassembly, each part was carefully reconditioned and electrically checked. Even the filament rheostats were torn down. One audio transformer was "kaput" which was replaced with a previously rebuilt one. The front panel was stripped, cleaned and lightly sanded lengthwise to mask years of scratches. A new cherry wood base was crafted in my shop and was soon mated with the front panel. I allowed one mod.-- there was enough blank panel on the right end to mount a filament voltmeter and attendant switch circuit -- so I did it!

Both old and new cloth covered wire was used in the wiring, keeping similar circuits the same color scheme. The layout was quite commodious which allowed easy build up mindful that I'm retracing someone's steps from long ago!



"Kit" Ready for Assembly

I inserted a good X200A, a soft detector, and 2ea. X201A's into the appropriate sockets and then slowly powered it up on the bench supply.

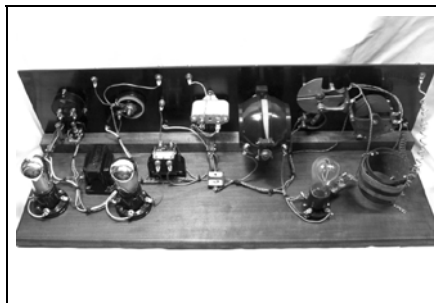
Using headphones "loosely coupled" to my ears.

To prevent further hearing loss due to unplanned **LOUD** squawks and squeals, I began to tune in several Denver stations. Actually KEZW @ 1430KHz was sounding great and, of course, KOA @ 850KHz. which dominates the middle of the BC spectrum. At this point I departed from the original design and added a C- bias provision to enhance overall performance. Many 1920's radios had this easy modification, even manufacturers came out with service notes to this regard. This was usually accomplished by cobbling in a small battery directly on and into the chassis wiring.



Completed Radio, Front

There is more than adequate audio power to drive a horn speaker with 135 volts applied to the last stage. Most likely lower voltages were used due to the cost *\$\$\$* of batteries in its day.



Completed Radio, Rear

About 7 distinct stations can be selected with some of those stepping on each other. Tuning range appears about 700Kz to 1500 Kz. Here again KOA is the lower frequency dominant station blasting away across the bandwidth. No surprise here! This set is a real knob twirlers delight with 3 tuning and 2 filament controls to fool with - plus the

added -C bias voltage to adjust.

For a three tuber.....not too shabby, and I'm only using a 30 foot antenna deep into the home equipment room almost at ground level.

Given a long and snowy spring I decided to design and build a matching companion power supply. My ground rules included using only existing "junk" parts; and to ensure all outputs were separate and isolated to allow some universality in powering other old battery sets of that era. This approach produced a hybrid between the 1930's tube and 1970's solid state technology.

The construction started with the bread boarding of the three required supplies: A, B, and C voltages. The first two would be regulated and capable of sufficient current to power up to a six tube circuit. The A and C voltages are variable and the B voltages are fixed at 45, 90 and 135 volts. All can be indicated on the panel meter through a switching circuit.

The completed power supply looks like a "new- oldy" from the front view resplendent with many knobs and two pilot lamps and old meter. At first glance behind the panel the components and wiring look similar. Closer inspection reveals some diode bridges and zener diodes interspersed among the three tubes and many transformers. Even a small IC is on an exposed heat sink. It's kinda a kludge but works fine and didn't cost any money. My kind of project! Please refer to the photo 4 below.

I plan to bring the complete radio and related stuff to the next meeting for a "show and tell".

Maybe it will work on a shorter antenna (?) !!!



Matching Power Supply

WHO MAKES AND SELLS PRIVATE-BRAND SETS

RADIO-TELEVISION NEWS, July, 1964

Submitted by Larry Weide

Have you ever made a service call where a familiar-looking radio or TV set had a strange name or the name of a well-known mail-order-house or chain store? Your familiarity - or lack of it - with these "private-brand" sets depends on how long you have been in the radio - TV game.

What is a private brand? We are all familiar with the big brand names - Zenith, RCA, Westinghouse, etc. These companies put their own brand names on the sets they make. Private-brand sets are made by a manufacturer who sells his sets to a retail store company. Private-brand retailers include chains "such as Sears, Roebuck; Montgomery; Ward, Western Auto Supply and Gamble Stores. Outlets of one or all of these are found in cities of 5,000 or more throughout the United States and Canada. Although I could find no figures to prove it, I believe that these four companies account for the largest share of radios, TV's and stereo sets sold today.

Probably your next question is, "Who makes private-brand equipment?"

Private-brand radios, TV sets, uhf converters and other home entertainment equipment are made by several very large as well as many small companies. At present, the field is dominated by three large manufacturers. One, Warwick Manufacturing Co. in Chicago, is a captive plant of Sears, Roebuck & Co. The other two supply numerous retail organizations and are Wells-Gardner Electronics Corp., Chicago, Ill., and Trav-Ler Industries Inc., whose offices and laboratory are in Chicago and whose assembly plant is at Orleans, Ind.

Several companies make private-brand automobile radios for Ford, Chrysler and Rambler. The Delco Radio Div. of General Motors is a GM supplier and makes Studebaker radios too.

Another private-brand operation that was really big was the uhf converter business. One company (P. R. Mallory Co., Inc.) made several thousand
The Flash!

converters a day for 20 or more of the best-known names in the industry. Some of the smaller private-brand manufacturers are listed in the chart with several of the name-brand companies that have built private-brand sets.

Many small auto parts chains, furniture stores, five-and-dime stores and drug stores have had their own brand names. You will also remember that only last year RCA was making color TV chassis for every company in the United States except two. The other set manufacturers bought the chassis from RCA, mounted them in their own cabinets and put their own brands on. This may have been the largest private-brand operation of all time.

The chart is intended to give you quick, concise information that will help you identify strange sets by their brand names. Most of the sets in use since World War II are listed here. Some sold only in limited markets haven't been included because of lack of space. The columns, reading from left to right, list:

1. The trade name on the radio or TV set, with a notation of the retail company selling it.
2. Retail outlet or store.
3. The name of the company actually making the set.
4. The code letters in the model number that designate who made the set. Not all manufacturers include this code.
5. The EIA identification number assigned by the Electronic Industries Association to member companies.

Most electronic components are interchangeable from *one* model to another, but there comes a time in every serviceman's life when he needs a special part - a cabinet, a coil, a dial glass, a transformer, a speaker or some other part obtainable only from the factory. This is when the chart will come in handy. A letter to the company will usually bring information on how to get the needed part. Most set manufacturers are very cooperative when it comes to

supplying parts to insure customer satisfaction. The repairman is often the only link between the manufacturer and the customer. Many people who retail private-brand sets have no repair facilities, and farm out their repair work to private service contractors.

Using the information in the accompanying chart, on the next page, and on the nameplates of the sets will make your repair work easier and more profitable.

HAPPY NEW YEAR!!

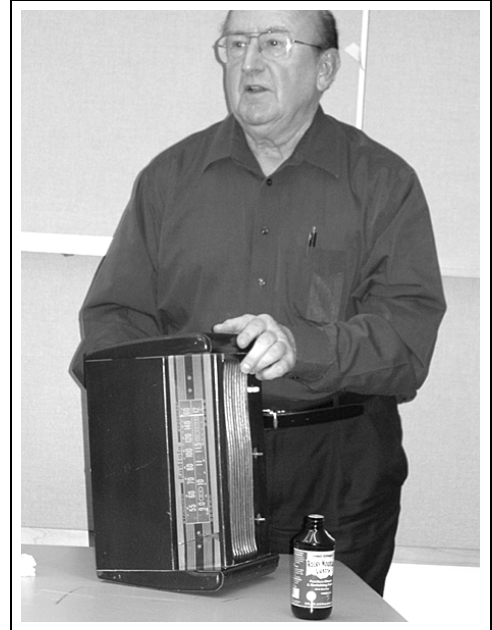


TRADE NAME	RETAIL OUTLET OR AUTO STORE	MANUFACTURE NAME	CODE LETTER	EIA CODE
AMC	Many Dept. Stores	Arvin Ind, Inc. Trav-ler Ind., Inc. Wells-Gardner Elec.		248 320 334
Airline	Montgomery Ward	Audio Industries Pentron Trav-Ler Ind. Inc. Wells-Gardner Elec. Philco Corp. Westinghouse Equire Radio Corp. Waters Conley Co. Inc. Belmont Radio Corp. Kingston Radio Corp.	GAA GPL GTC WG GPS GTM GEN JWR BR KR	320 334 260 337 742 382
Airline, Riverside	Montgomery Ward	Automatic Radio Sales	FJB	120
Allstate, Silvertone	Sears, Roebuck	Various		
Ambassador	Various	Trav-ler Ind. Inc.		320
American Motors	American Motors	Bendix Radio Div. Motorola Inc.		125 185
Bratford	W. T. Grant & Co.	Wells-Gardner Elec.	WGEC	334
Buick Cadillac Chevrolet	GMC	Delco Radio Div.		466
Columbia	CBS Corp.	Trav-Ler Ind. Inc.		320
Coronado	Gamble Stores	Trav-Ler Ind. Inc. Eico Hinnens-Galanck Wells-Gardner Elec.	TV2	320 334
Firestone	Firestone Tire & Rub.	Trav-Ler Ind. Inc.		320
Ford Mercury	Ford Motor Co.	Bendix Mororola, Inc. Bendix		125 185 125
Mopar	Chrysler Corp.	Bendiz Motorola, Inc.		125 185
Oldsmobile	GMC	Delco Radio Div.		466
Penncrest	J. C. Penny Co.	Symphonic Elec. Corp. Arvn Ind, Inc.		248
Pontiac	GMC	Delco Radio Div.		466
Renault	Ford Motor Co.	Motorola, Inc.		185
Silvertone	Sears, Roebuck	Warwick Mfg. Co Waters Conley Co. Arvin Ind, Inc.		332 382 248
Studebacker	GMC	Delco Radio Div.		466
Triumph	Ford Motor Corp.	Bendix		125
Truetone	Western Auto Supply	Trav-Ler Ind., Inc. Hinnens-Galanck Wells-Gardner Elec. Eico Esquire Radio Corp. Arvin Ind., Inc.	2DC 4DC DC	320 334 742 248
Volkswagen	Ford Motor Co.	Bendix		125

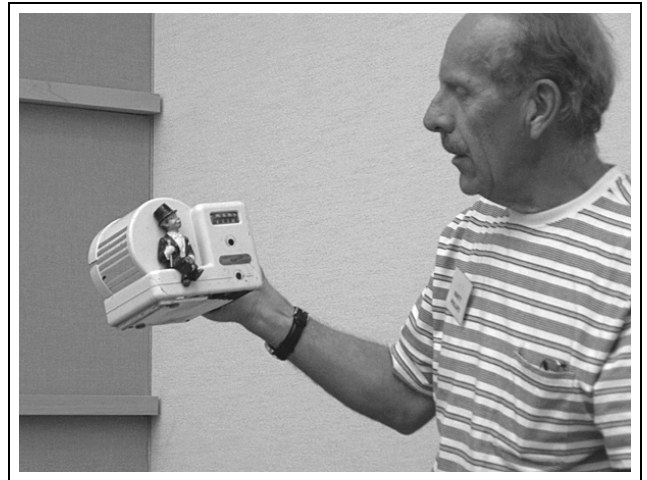
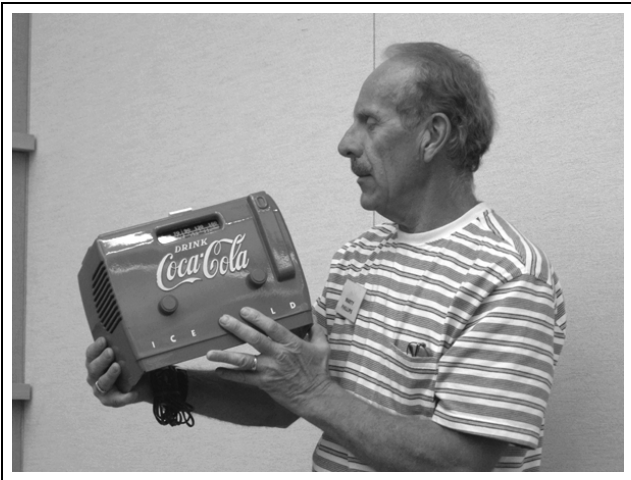
MAY 2007 MEETING



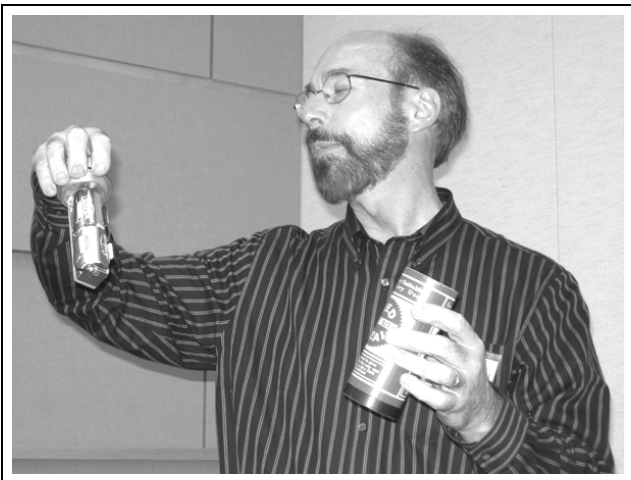
Mark Dittmar displays an early classic crystal set. ^



Joe Eldridge shows how to do finish restoring with his company's "Rocky Mountain Luster" refinishing product. >



Marty Phillips brought in some of his coveted novelty radios



Tom Pouloit tells how to make replica old style #6 dry cells batteries from Borax containers and modern D-cells

SHOW 'N TELL



The plentiful raffle table. ^

The "Vintage Voltage Show" manager reviews the March 30th CRC involvement >

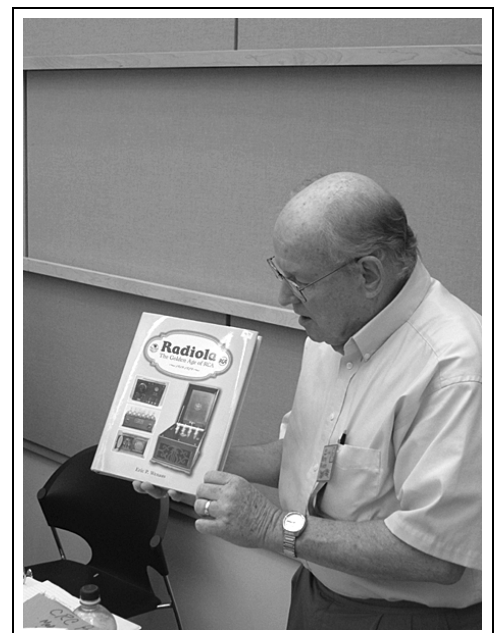


Bill Dial explains his RCA Graetz German radio v



Dave Gonshor takes us ^ back with his 50s Philco Predicta TV.

Barney talks about his RCA Radiola Sr., and how it and other early RCA radios are described in the new Radiola collector's book., <



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		
ANTIQUE RADIOS, COLLECTOR'S GUIDE - 4th EDITION Bunnis, 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 Bunnis, 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 Bunnis & Robert Breed, 223 Pgs, 1995			\$18.95	\$15.00		
NOVELTY RADIOS, VOLUME 2 Mary Bunnis & 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: 10 feet of ladder (big twin lead) line either or both 75 and 300 ohm or whatever.

Mark McKeown 303-278-3908
mmckeown@hughes.net **01/08**

FOR SALE: The below listed test equipment has been refurbished and checked as good.

- ✓ RCA audio oscillator model
WA-44C.....\$40/obo
- ✓ Heathkit 5" laboratory scope model
O-12.....\$35/obo
- ✓ ADC stereo equalizer with 10
frequency slide controls lit up by red
LEDS, with manual.....\$15/obo
- ✓ Radiola 82 dual chassis superhet
model, (also GE model H-51) no
cabinet, with speaker. complete with
all tubes, including 2 each 45's!!!
Very good condition\$85/obo
- ✓ Hickok Military tube tester model
I-177. Refurbished and repaired.
Minor calibration problem. With
new manual.....\$110/obo

David Boyle (303) 681-3258 **10/07**

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 **10/07**

WANTED: Broadcast reception letters
and/or EKKO stamps.

Wayne Gilbert (303) 431-6774
wagil@aol.com **10/07**

PRESIDENT'S MESSAGE

(Continued from Page 2)

We will be reviewing final plans and selecting this year's specialty category, all of which should be of interest to members both new and old. Last year's show was fantastic due to the participation of so many members in the new format, single day event. If you were there I'm certain you had a great time. If you were unable to participate, be sure to not miss out again this year!

As we say goodbye the 2007, I think we can all agree that under Dave Boyle's leadership the CRC enjoyed a very successful year. It won't be an easy

task to maintain Dave's high standards but with your support, I will try to guide the club through the upcoming year in a manner that makes you glad your a CRC member.

I believe this past year has shown there are many things the club is doing right. I would like every member to know their opinion is valued and encourage each of you to comment on what you think is going well or anything you think could be done differently. Please feel free to e-mail me at hq180a@aol.com.

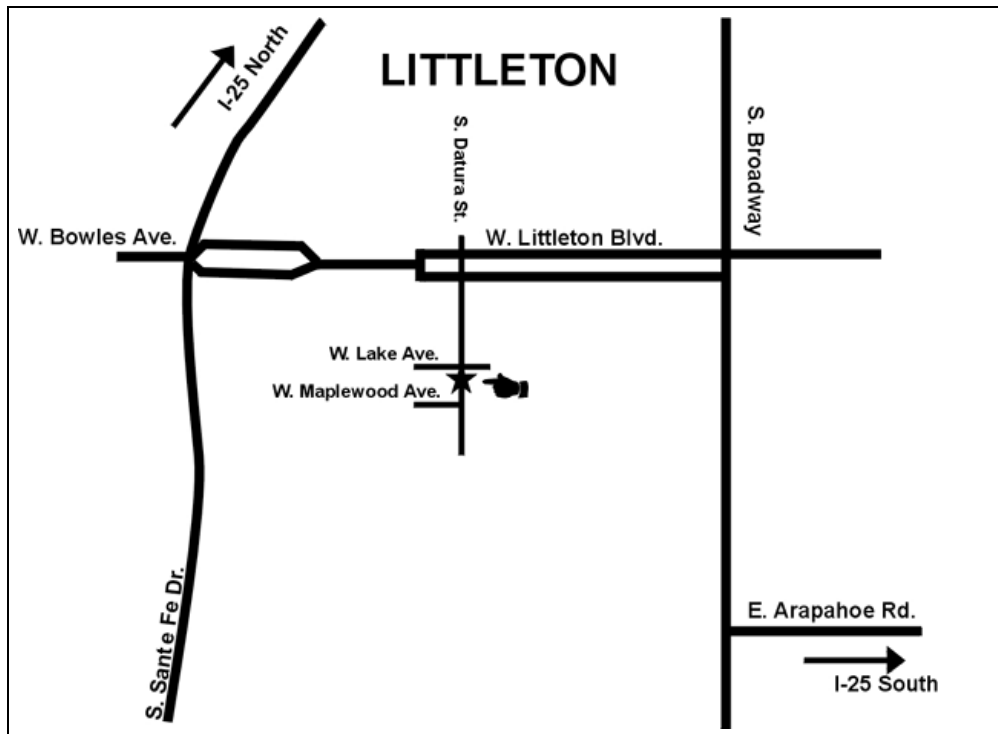
The position of vice president remains open to nominations or a volunteer. As always, we welcome

informative presentations during upcoming meetings (a little advance notice is appreciated) and submissions of any kind for publication in *The Flash!* It doesn't need to be a detailed or lengthy article.

Be sure to come our next meeting and make it a point to buy yourself a book as a belated Christmas present to yourself. Charlie has the best prices on special interest titles you will find anywhere. By purchasing just one book you can realize a return of most, if not all, of your annual dues.

Thank you all for your continued support through membership in the CRC. -- Robert

*For our January 13th, 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