



The FLASH!



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

Volume 15, Issue 6

AUCTION, PG 4

- NOV. MEETING, PG 2

November - December,

Mysterious Island

by
David Boyle, CRC Member

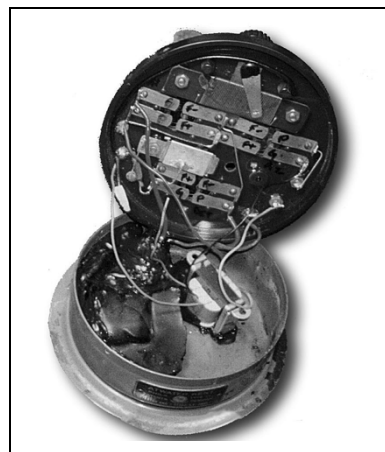
Jules Verne, the author of "Twenty Thousand Leagues Under the Sea" wrote another book entitled "Mysterious Island". A very intriguing and interesting story that captures your imagination and attention. By the end of the story all of your questions finally get answered. What a befitting title for a Flash article that talks about the wonderment of Atwater Kent's early breadboard "Islands".

I purchased my AK Model 10, series 4340, breadboard style receiver many years ago. With no longer any excuses I endeavored to get it in working condition last winter.

Initial testing indicated, among several anomalies, a defective 2nd audio transformer. Guess what; AK breadboard style radios have the detector and audio stages encased in this unique "Mysterious Island"! It was time to unravel this design and construction mystery. That accomplished, I now pass along some of what I learned.

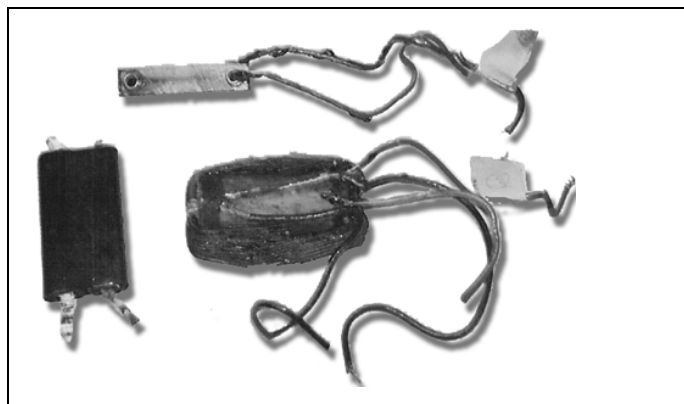
First a little history. Early in 1923 Atwater Kent began to manufacture complete radios using some of their previously produced and marketed individual components. These radios were called "board" or "Open" style receivers. They generally employed a detector /amplifier encased in a circular metal can with a Bakelite top. The so called "island". During the several years that board radios were produced these islands contained either 2, 3 or 5 tubes and related stage circuitry. One of AK's patents described this radio apparatus (island) as: "an audio coupling unit comprising an enclosing casing, insulation material in said casing, a plurality of audio coupling means imbedded in said material and

held thereby in predetermined position with respect to each other and to said casing, whereby substantial



coupling between said means is prevented".What a mouthful! Patent number 576,423 (7-21-1922)!

So anyway, I took this "island" thing apart and found nothing but a bunch of old colored wires and cracked tar. Obviously "embedded in said material"... is this tar. Reminisces of the RCA



Radiola catacomb potted in beeswax, the subject of my last flash article.

I carefully dug and chipped out the tar and thereby slowly revealed the once imbedded individual parts. I drew up a crude pictorial diagram (figure 2) and then developed a schematic of this "island" (figure 3). Using this schematic as a guide and taking simple troubleshooting steps, I found the offending 2nd audio transformer and also a defective
(Continued on Page 3)

COLORADO RADIO COLLECTORS ANTIQUE CLUB

Founded October 1988

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Volume 15, Issue 6

November/December 2004

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* The November meeting is at the Wings Over The Rockies Air Museum - See page 9 for details *

MESSAGE FROM THE PRESIDENT

Well the last meeting of the year is quickly coming up and so it is ending up being both a good year for the club and a troubling year as well. As you all should be aware of by now, we need to find a new permanent meeting place starting in January. Fortunately for us Bart Whitehouse has come to the rescue for the November meeting.

The November CRC meeting will be held at the Wings Over The Rockies Air Museum. We will be in the Lowery Room, the same meeting room that we used once before. It is at 7711 East Academy Blvd., Denver, CO 80320, Hanger #1., ground floor and accessed through the main display room. The meeting will take place at our usual time of 1:00pm.

We need to remember that this is a one time only location and we're still searching for a permanent meeting site. If you know of any possible locations that would be suitable for our meetings please contact Dennis Laurence or Charles Brett.

* Does your company have a meeting room that we could use?

* Do you know of a public facility that would be suitable?

* Do you know of someone who has a building with a room suitable for meetings?

* Do you know of a business or institution that lets organizations use their meeting room - such as our past locations at a bank and a library?

(Continued on page 9)

CRC OFFICERS 2004-2005

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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!". Membership provides participation in club events such as the annual April Show, mid-summer picnic, September auction as well as our semi-monthly meetings and swap meets. Dues also entitle you to club officer elections, excellent discount prices on current hobby publications and the Antique Radio Classifieds annual subscription raffle every May!

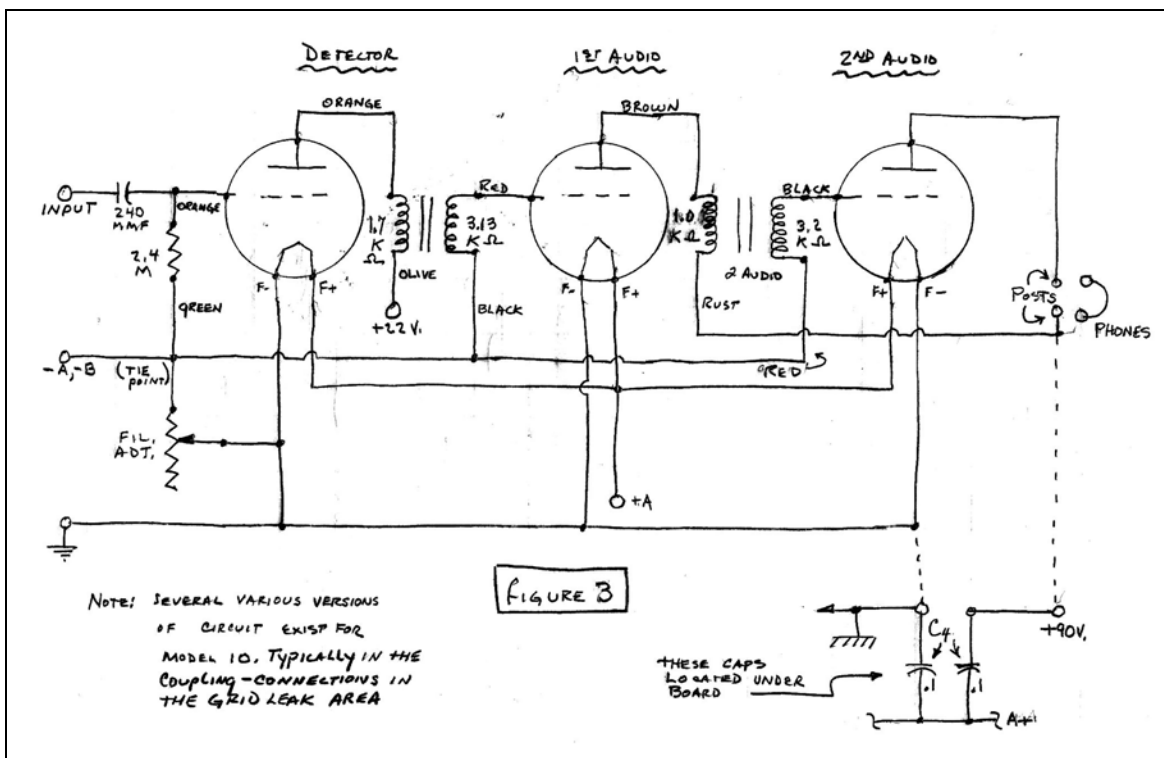
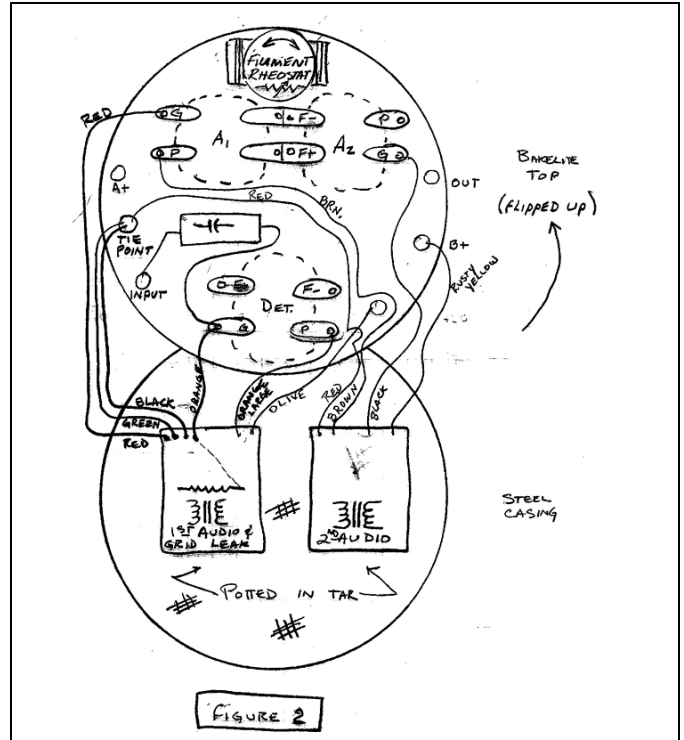
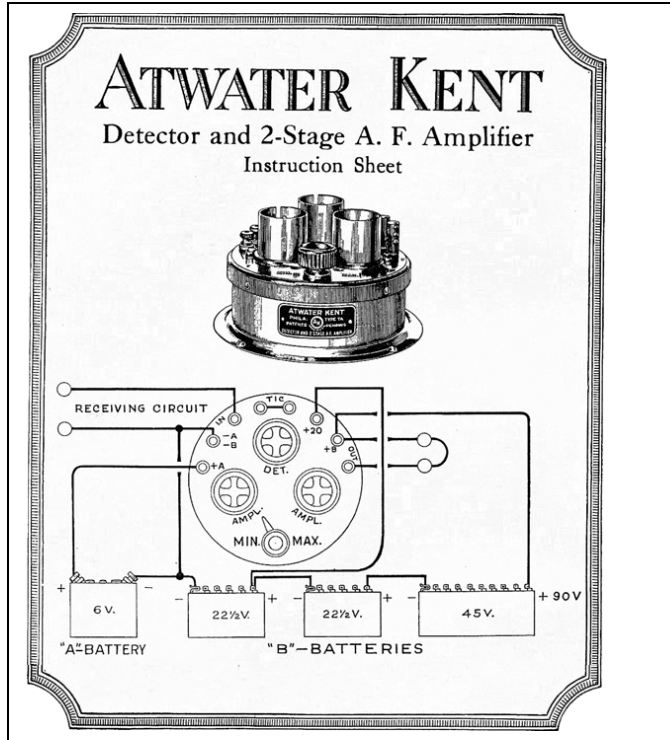
Current annual dues are \$12. New memberships will be prorated to renewal on the following June, i.e new members joining in May should submit \$12, in December \$5, etc.

CRC MEETINGS

Meetings are held on the second 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

(Continued from page 1)
 grid leak resistor. The lower photo on page 1 shows the now removed bad parts including a block style capacitor from under the breadboard (C4 on the schematic).

I found this repair to be moderately easy and rewarding. Several other faults with other board components were also fixed. The radio now works quite well. The mystery has been solved. Go ahead now play amateur adventurer and detective with your own "Mysterious Island".



THE CRC 2004 ANNUAL AUCTION RESULTS



The weather was great, there was a good crowd and the 146 lot items, priced so that there was something for everyone, made this year's CRC annual auction a very good one. The total sales for the auction was \$2,931.50, with a resulting CRC commission of \$328.30.

As always, we want to particularly thank Mike McCutcheon for his efforts in making the museum available for the auction, and all the work that he and his brother Jim did to provide shade canopies, snacks, power and access to facilities.

In addition, we also want to give kudos to our exceptionally fine auctioneer CRC member Tom Pouliot for yet another year of coaxing out that last dollar with his exciting and entertaining auction calling.

Lastly, we want to thank Jerry Tynan and Merrill Campbell for doing all the "lugging" and staging of the lot items as the auction proceeded, and Barney Wooters for his manual logging of each auction transaction - just in case.

Description	Min Bid	Hammer Price
01A tubes qty 4 - Globes	45	N/S
01A tubes qty 4 - ST's	50	N/S
Admiral 5R11 1949		5
Admiral 6C2A (Black)		1
Admiral 6C2A (White)		1
Admiral F12		1
Airking 4704 1946 radio/phono		N/S
Airline 04BR-514B 1941	70	70
Airline 15BR-1543A		1
Airline 1941		28
Airline 84BR-1517		8
Airline 94HA-1562 1949		5
Airline GSL1615A - qty 3		4
American Bosch 5A 1931	50	50
Arborphone 27 1927		55
Artone R-1046M		5

Description	Min Bid	Hammer Price
Arvin 152T 1948		30
Assorted Clock Radios - qty 4		1
Assorted Clock Radios - qty 4		8
Assorted Clock Radios - qty 3		6
Atwater Kent 545 1935	125	130
Atwater Kent 944 1934	100	120
Clough Brengle 125 Tube Tester		7.5
Crosely 11-107U		1
Crosley 51 1924	125	N/S
Crosley 51 Deluxe 3-Tube 1924	100	N/S
Crosley D-25WE 1953	100	100
Dumont Audio Generator		20
ECA 104 1947		5
Eico 625 Tube Tester		11
Eico 950 Capacitor Checker		5
Eico VTVM		1
EMC 206 Tube Tester	20	35
Emerson 520 1946	125	125
Erla S50		10
Eveready 2 with matching spkr		60
Farnsworth BC81 1940		30
Federal B30 1925		50
Firestone S-7398-3	35	35
Fischer 3581 Vacuum Tube		3
Four tube regen kit		25
GE 574 1955		12
GE A53 1935	50	50
GE A64		35
GE F96 1937	50	N/S
GE M51 1935	25	25
GE P-736A 1958 Portable		6
GE Portable - transistor		10
GE Tube Caddy	7	15
General Radio 1209 UHF Osc.	5	N/S
General Radio 546 Audio Freq Meter	5	5
General Television 1A5 1946		30
Gilfillan 68F1948		25
Gonset 3-30MHz Converter		5
Grandville Phillips Ionization Ctr		1
Guild 556 Country Bell 1955		2
Hallicrafters S38		5
Hallicrafters S41W 1945		30

Description	Min Bid	Hammer Price
Hammarlund HQ-100		15
Heathkit Impedance Bridge		7.5
Heathkit Transistor Radio		30
Heathkit W-GC-1A Receiver	30	35
Homebrew Radio 1923		75
HP 415B Standing Wave Ind	5	N/S
HP 417A VHF Detector	5	5
Krohn-Hite 3342 Audio Filter	25	N/S
Magnavox 1RP620 1964		N/S
Magnavox C003 Clock Radio	5	N/S
Magnavox Speaker Horn - no Base		15
Military Vacuum Tube		6
Motorola 62CW		25
Motorola 7XM 1950		9
Motorola A123AN		1
Motorola TV & 2 boxes tubes		40
Navy LM-18 Freq meter	5	5
Noma Clock Radio	30	N/S
Panasonic 730 AM/FM		1
Peerless Speaker	20	40
Peerless Speaker	30	40
Philco 37-61 1937		5
Philco 37-650 1937		55
Philco 37-9 1937		17
Philco 41-258F 1941	30	50
Philco 54C 193335		40
Philco 57		25
Philco 7050 Tube Teste		30
Philco Clock Radio	5	N/S
Philmore 2 tube kit radio		35
Plastic Radios - Coronado/Mot./GE		3
Plastic Radios - RCA, Admira		6
Plastic Radios - RCA/Capehart		5
Plastic Radios - Setch Carls/GE/GE		6
Pocket Transistor Radios qty - 10		10
Portable TV		N/S
Powertech Electrics Experiminter Kit		7.5
Radiola 33 1929	60	65
Radiola 48 1930	125	N/S
Radioshack DX-200	50	N/S
RCA 1-CL-1 Clock Radio	5	N/S
RCA 21-CT-662U 1956		N/S
RCA 2B404 1952 Portable		15
RCA 33 Speaker	50	N/S
RCA 3-BX-671 Portable 1953	70	120
RCA 54B1 1946	25	35
RCA 55X2		2
RCA 65X1 1946		15
RCA Radiola 16 1925		20
RCA Radiola 20 1925		70
RCA RHD10Y	1	1
RCA Test Equipment Cart		10
RCA X551 1951		8
Recordio 6-B10 1946		1
Regency MR-10 VHF		1
Setchell Carlson AC/DC Portable		15
Setchell Carlson AC/DC Portable		5
Setchell Carlson TV B/W 19		2
Signal Corps I-72-J Signal Generato		2
Silvertone 1017		3
Silvertone 2028 Farm Set 1953		1

Silvertone 4662 1937		2
Silvertone 7036		20
Sparton 132 1950	25	35
Table Radios - Airline/Tatro/Truetone		55
Taylor 218 Vacuum Tube		1
Telechron Clock Radio		N/S
Tenma Alingment Generato		35
Trav-ler 502 1937	40	45
Truetone D2562		1
Tube Caddy with tubes and parts		20
Tungar charger		6
Westinghouse WR-169 1939	40	40
Zenith 6D030 1946	25	25
Zenith 6D630 1942	40	60
Zenith 6S632 with push buttons		20
Zenith A550 1957		1
Zenith A600 Transoceanic		35
Zenith B508R 1957		5
Zenith Consoltone		1
Zenith F510L	5	N/S
Zenith G615 1950		9
Zenith H500		35
Zenith H500 Transoceanic		30
Zenith H661E 1951		7
Zenith J514 Clock Radio	5	N/S
Zenith R615F	25	N/S
Zenith S961 1935	100	100

Description **Min Bid** **Hammer Price**
The Flash!

Davis & Shaw *The RADIO Store!*

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PHILCO

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A.C. Dial Control

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RARE PURITY OF TONE—Richer, clearer, purer tone than ever before known to radio. Reproduction so lifelike it will amaze and delight you.

MARVELOUS SELECTIVITY—Spit-hair selectivity. Now sharper than ever in its separation of stations. No need to fear KOA.

VAST DISTANCE RANGE—Philco's range sweeps the continent and reaches into foreign lands. Many of our customers have told us of getting Honolulu, Philippine Islands, Mexico, Cuba.

BEAUTIFUL CABINET—Oriental walnut panels and solid birdseye maple center panel.

Davis and Shaw

Opposite Gas & Electric Bldg. 1434 Champa Opposite Gas & Electric Bldg.

Denver Post - August 1929

September/04 CRC Meeting



Tom Puloit and his homemade breadboard regenerative receiver.



Jim McCutcheon (standing) gets the equipment ready to show the Nikola Tesla video.



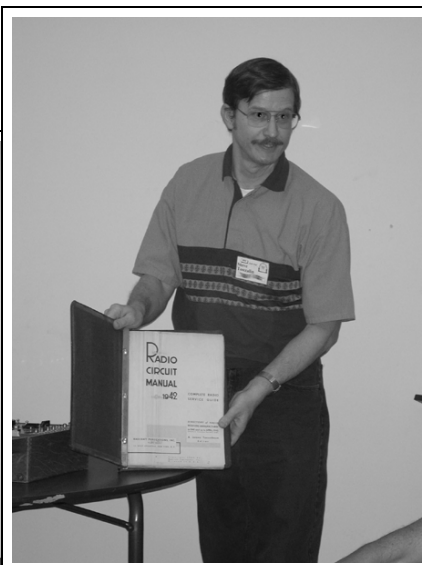
Dan Becker solicits suggestions for tips on the restoration of his 1933 Zenith 788



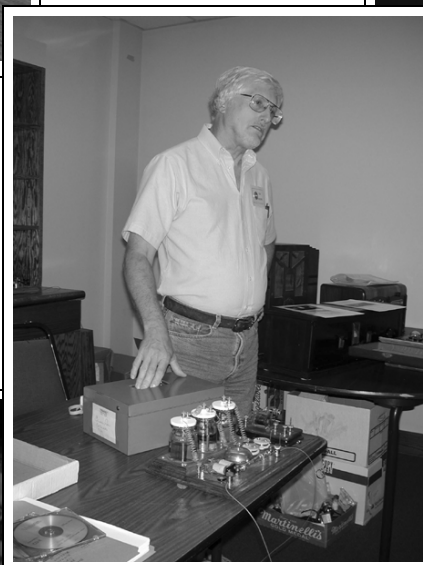
Bill Dial shows off his 1927 Metrodyne "Super 7".



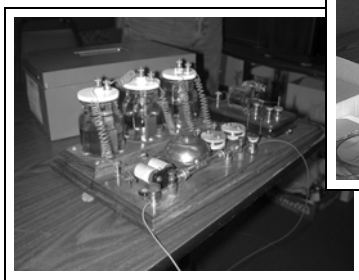
Steve Touzalin shows us a great restoration he did on a 1940 Truetone 2551. This included some very tricky cabinet reconstruction.



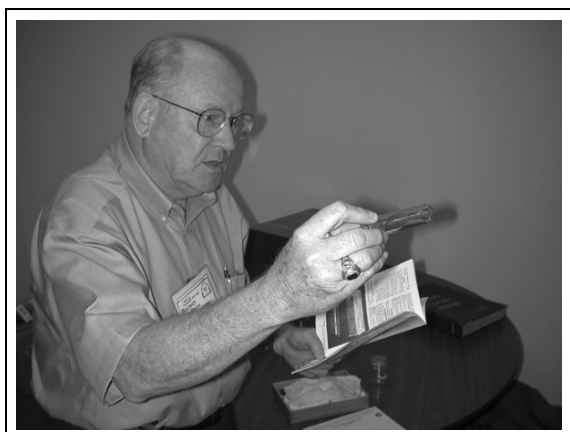
Show 'N Tell



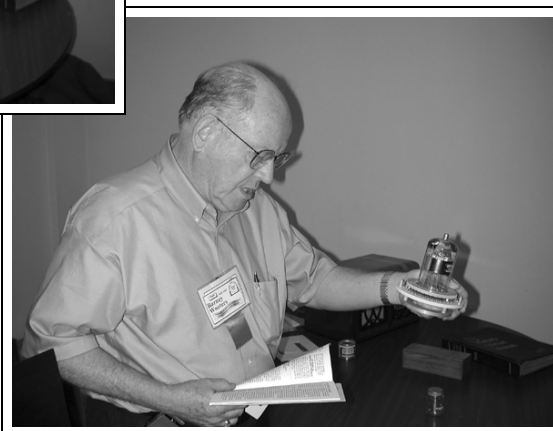
Don Andrus demonstrates and explains the operation of a Coherer detector. Don hand built the dectector, along with both the receiver and the spark transmitter.



Ron McCulley displays a Supreme model 85 tube tester that he found on eBay.



Barney Wooters shows us a couple of rare tubes. Left is a "bootleg" or unlicensed tube of circa 1915. On the right is a 6324 30 position Commutator tube, used for circular distribution of signal pulses.



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., 480+ color pics	\$30.95	\$28.00
ANTIQUE RADIOS, COLLECTOR'S GUIDE - 4th EDITION Bums, 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 Bums, 1996 prices, Full Color	\$16.95	\$13.00
ZENITH TRANSISTOR RADIOS, 1955-1965 Smith, 1998 PG., 160 pgs, 226 color pics, info, deser.	\$20.95	\$22.00
THE ZENITH TRANS-OCEANIC (THE ROYALTY OF RADIOS) Bryant and Cones, 160 pgs, 1995	\$20.95	\$22.00
ZENITH RADIOS THE EARLY YEARS 1919-1936, Cones 1997-98 Price Guide, 223 pgs, 100's Photos, Desc., Hist.	\$20.95	\$22.00
RADIOS BY HALLCRAFTERS, revised 2nd edition Dachis, 1999 values, 220 pgs, 1000+ pics, id's, history	\$20.95	\$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, Radionama'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	\$20.95	\$22.00
PHO CO RADIO: 1928 - 1942 Ramires & Prosser, 160 pgs, 828 pics & drawings, 1993	\$20.95	\$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	\$20.95	\$22.00
RADIO MANUFACTURES OF THE 1920'S VOL. III Alan Douglas, 285 pgs, 1991	\$20.95	\$22.00
CRYSTAL CLEAR VOL. 1 Maurice Stevers, 282 Pgs, 1991	\$20.95	\$22.00
CRYSTAL CLEAR VOL. 2 Maurice Stevers, 252 Pgs, 1995	\$20.95	\$22.00

RADIO TUBES AND BOXES OF THE 1920'S George A Fehner, 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 Ginder, 524 Pgs, 1995	\$26.95	\$21.00
COLLECTOR'S GUIDE TO VINTAGE TELEVISION Dudral & Glenn Bubenheimer, 200 Pgs, 1999	\$15.95	\$13.00
NOVELTY RADIOS, VOLUME 1 Mary Bums & Robert Breed, 223 Pgs, 1995	\$18.95	\$15.00
NOVELTY RADIOS, VOLUME 2 Mary Bums & 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	\$26.95	\$22.00
TUBE TESTERS AND CLASSIC ELECTRONIC TEST GEAR Alan Douglas, 166 Pgs, 2000	\$25.95	\$19.50
COLLECTOR'S VACUUM TUBE HANDBOOK, VOLUME 1 Robert T. Millard, 196 Pgs, 2001	\$25.95	\$19.50
SIX VERTONE ANTIQUE RADIOS 1930 - 1942 Stein, 239 pgs., 2001	\$34.95	\$25.50
ANTIQUE RADIOS COLLECTOR'S GUIDE 5th EDITION John Shusser, 264 Pgs, 2001	\$19.95	\$15.00
RADIOCRAFT JUBILEE - REPRINT OF 1938 EDITION Hugo Gernsback, Vestal Press	-----	\$12.00
CLASSIC CONE SPEAKERS Batford & Jane Chidester, 122 Pgs, 2001	\$25.95	\$19.50
TUBE LORE Ludwael Sibey, 186P ggs, 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 & Volkowicz, 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 PLAYING MAN'S MANUAL Johnson	----	\$10.00
THE FABULOUS VICTROLA "45"		

Paul Vourakis, 176 Pgs, 2002	\$29.95	\$22.00
ZENITH RADIOS THE GLORY YEARS 1936 - 1945 Cones, Bryant & Blankship, 256 Pgs, 2003	\$34.95	\$25.50
ZENITH ILLUSTRATED CATALOG AND DATABASE 1936 - 1945 Cones, Bryant & Blankship, 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

The Open Trunk

Member submitted advertisements



Submission of Sell/Want ads are always free to CRC members. Non-members may advertise in the Flash for \$0.20 a word. Display advertising is available by contacting the CRC publisher for info and rates.

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

Robert Baumann

(303) 988-2089, rgbdenver@att.net

07/04

FOR SALE: A/K model L chassis with speaker, Various Bakelite & Plastic radios, Various Transistor radios, Fluke 12 multimeter, Numerous 1940s Radio magazines, Spool of old style coil wire, and "1926-38 Radio Diagrams" by Beitman. Photos available online.

Wayne Gilbert

(303) 431-6774, wafil@aol.com

07/04

FOR SALE: 330 folders of Sam's Photofacts, covering folder numbers 386 through 4227. Make Offer.

Richard Beckman

(303) 344-8565

09/04

WANTED: A tube shield for a Philco 90. Contact

Mike Cook

(303) 471-9596

11/04

(President's Message from page 2)

Congratulations to all involved in the very successful auction, including buyers, sellers, and everyone who helped organize and run the event! This is indeed a unique club in that many members get involved and help out without even being asked!

Articles for the Flash; We have done pretty well this year but Steve tells me that **we have run out of material for the January Flash.** Remember that, considering required formatting and printer lead time, it takes at least two months before a submitted article can appear in a Flash issue. So don't hesitate to send in your articles on technical subjects, finds, restorations, visits and whatever else you feel would interest the CRC membership. We need your articles - **NOW!**

I will be going to Wales again this Christmas, but hopefully my wife will be coming home sometime in January or February. So again I will miss the January meeting, but I am sure that you can carry on without me!

So for a little fun, that has absolutely nothing to do with the club, here is the name of the little village in North Wales that is supposed to be the longest name for a village, town or city in the world.

Llanfairpwllgwyngyllgogerychwyrndrobwyll-llantysiliogogoch

[Easy for him to say - Ed.]

For those of you that I won't see until March have a great holiday season!

Dennis Laurence

GREAT NEWS!

We have a meeting place for our November 14th meeting

The Wings Over The Rockies Air Museum

See page 9 for details and directions



Colorado Radio Collectors

Antique Radio Club

417 S. Queen Cir.

Lakewood CO 80226

FIRST CLASS MAIL