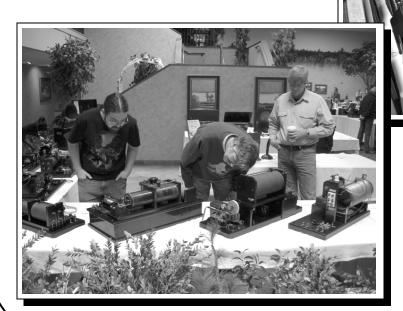
## The 05/18/08 CRC Meeting is in Littleton CELEBRATING OUR 20TH ANNIVERSARY YEAR!



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





In this issue ...

✓ Denver Radio Station KPOF and HD

✓ CRC 2008 Show & Contest Results

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### COLORADO RADIO COLLECTORS ANTIQUE RADIO CLUB

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Volume 19, Issue 3	May/June 2008
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### MESSAGE FROM THE PRESIDENT



Please join me in welcoming new members **John Bellini** and **Bill Herold** both of whom have interesting professional backgrounds. A big "*Thank You!*" goes out to longtime CRC supporter **Riggs Smith** for his generous donation of the significant quantity of tubes which were distributed amongst members during the March meeting.

Thanks also to all who made our annual show a success again this year. The number of contest entries remained consistent with previous years. Peter and Dana report a significant increase in attendance at the expanded, improved and well publicized Expo. The CRC has already been asked to participate in Vintage Voltage again next year! The specialty category selected by vote this January differed from the concept of a major brand (as designated in most previous years) but was well represented. We even had three terrific entries in the often underrepresented television category! Photos from the show and contest results appear in this issue.

One thing I have heard from time to time is disappointment that open trunk sales are no longer a routine part of meetings. The weather is improving so I'd like to encourage all those who have items for sale to park in the northeast corner of the parking lot during the upcoming meeting in Littleton. Many of us are there before the library opens at 1 PM and that easternmost row of spaces is usually open when we arrive. If everyone parks in one area and more items are brought out, perhaps this aspect of club meetings will once again flourish.

**Continued on Page 9** 

#### **CRC CONTACTS**

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### **Upcoming Events - Mark Your Calendars!**

**Meetings:** May 18th - Littleton July 13th - Castle Rock

Sept 14th - Littleton, pending July vote

Nov 9th - Wings Over Rockies Air & Space Museum

All & Space W

Auction: Sept 28th - Arvada

### **CRC MEMBERSHIP**

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

### **CRC MEETINGS**

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

### Denver Station KPOF, on the Frontier again - HD Radio!

By Wayne Gilbert, CRC Member

Seventy-six years after Christian station KPOF went on the air with a \$1,500 second-hand transmitter, they leaped into the Hybrid Digital<sup>1</sup> radio arena. Both events took a tremendous amount of courage and commitment. Both events were intended to provide a service to the Christian community of Denver and Colorado. The first event was successful; the success of the second remains to be seen.

The first broadcasts from radio station KPOF were only possible after a measure of arm-twisting to convince commissioner H. A. Bellows that

granting a religious organization a broadcasting license would not set an "unwelcome" precedent. The fact that no one at the Pillar of Fire Church in Denver knew anything about radio broadcasting is a mark of how much courage these pioneers had.

At least when they leaped into the HD radio arena, they had a skilled and experienced radioman to guide them, named Jack Pelon. It was truly one of those man-moment-machine

encounters that put a person with the right experience in a position to guide KPOF into the modern age of broadcast technology at a time when the station had to revitalize or die. The machine came in the guise of a new radio broadcasting system that would improve the quality of KPOF's AM signals to FM radio quality, and convert it to stereo in the process. A fourth component was the courage displayed by the Pillar of Fire Church's administrators when they recognized station KPOF was at that crossroads and plunged ahead with the faith of their founders.

Jack Pelon is a radio man, with an architectural background, whose career had been in Christian Radio. Before accepting a position with KPOF, he had managed other Christian stations in Denver, both large and small, and his resume included installation of three new Christian FM radio stations in Estonia.

Estonia, for those who are

unfamiliar with European geography, is a small country that borders Russia and is just across the Baltic Sea from Sweden. While a modern country, as compared with other countries in the old USSR, it was a country where modern radio parts, and components, and even tools had to be brought in from the west. The Estonians, having been a part of the former Soviet Union. and thus unaccustomed to the Western work ethic, refused to believe that Pelon's crew could build and install a radio station in the two weeks time allocated by the budget.



It is the success of this challenge that may have convinced the board of directors of the Pillar of Fire Church that Pelon was the right man to manage KPOF, and to update its equipment and philosophies to embrace HD radio.

HD radio is, very simply, the broadcast of radio signals digitally on a sideband of the frequency allocated to the station by the FCC. This signal is 'received' by a specially built HD radio, and reconverted to audio waves that a listener can hear and enjoy. "Enjoy" is an important word here because the purpose of HD radio transmission is to improve the quality of the broadcasted signal. As a rule of thumb, normally an HD signal broadcast on the AM band will have the sound quality of a normal FM signal, while an HD signal broadcast on the FM band will have the same sound quality as one would hear when listening to a stereo compact disc, played in his own home. Of course, as in all new technology, there is a cost for this improved performance, both to the listener and to the broadcaster.

To begin with, although any broadcast radio receiver will receive HD radio signals, it takes a specially made HD radio receiver to receive the higher quality hybrid radio signals. These HD radio receivers are hard to find in most stores today, and when they are available for purchase, they are comparatively expensive. The very least expensive model HD radio available in the Denver area is priced at approximately \$200, with more deluxe models costing upward

to \$2000; however, without an HD receiver, a listener will hear only the analog signal he is currently hearing on his ordinary home or car radio.

The cost for the broadcaster is not cheap either. First, it must be determined if their current transmitter(s) are sufficiently modern to transmit the HD signal. Then if the station's antenna sufficiently is modern to broadcast HD signals, it must be cleaned of all the subsidiary antennas, dangling wires, floodlights,

and other things that normally get 'hung onto' a typical broadcast antenna. All these 'extras' detract from the antenna's ability to transmit a clear HD signal.

And then, there is the rat's nest of wires that most electronic systems usually develop-- note the back of your computer desk as a good example. Most of our computer systems started with a well-organized cable layout, but as we add modems, printers, scanners, external hard drives, camera hookups, USB port expanders, etc., the power and signal cables hanging from the back of our computers become a maze that 'works' until something doesn't, at which time we are forced to find the time to clean up the mess. Broadcast radio stations are often plagued with a similar mess of wires and cables, which must be organized and properly routed, or the HD signal will suffer.



The station's control room may also need to be upgraded at this time since the rewiring needed for the new HD systems will include leads into, and out of, the control panels located there. This upgrade is the most obvious change seen by any visitor to the station, and perhaps to the employees as well. When the necessary wiring has been organized and hidden, and the control panels typically simplified, the control room becomes a much more desirable work environment, and the more organized wire and cable placement reduces the 'cross-over 'interference found in snarled cables.

There are several companies who license the software and technology to convert standard broadcast radio transmissions into HD transmissions, but the most popular one is a company named iBiquity Digital Corporation. The price of their conversion is generally about \$75,000, a significant cost in today's economy.

It's probably well to step back at this point and review just how the new HD system will work, in concept. Talk-show hosts and disc-jockeys will still speak into microphones, but music and commercials that formerly were stored on cartridges or compact discs will now be stored on the hard disk of a computer, likely located in a remote part of the building. Computer software is used to determine the order of broadcast, sometimes even days in advance. (Disc jockeys can override this sequence if a situation warrants, perhaps inserting a visiting performer's recently released CD into the queue, or interrupting for a commentary or a current traffic or weather report.)

Conceptually, although not necessarily physically, after the broadcast signal is gathered from the various sources, it is sent as an analog signal to a replicator/splitter, which produces a second analog signal which is sent down a digital pathway, while retaining the original as the analog signal of the transmission package. The second

signal now traveling the digital path is converted into a digital representation of itself, and then compressed to remove any unwanted or unneeded sounds. This conversion takes several seconds to accomplish; thus, the digital signal leaving the converter now lags its analog counterpart traveling the analog path.

A packet containing the analog signal and the converted digital signal is then re-synchronized and sent to the transmitter and the antenna to be broadcast to the station's listeners.

These signals are received by the listener's receiver, which determines the quality of the digital signal. If received on a typical broadcast receiver, the signal will sound no better, or worse, than a normal analog broadcast: however, if received on an HD receiver, the quality may be significantly improved. Should the digital signal be weak or distorted, or during the first few seconds that an HD station is first 'tuned in,' the HD receiver automatically switches to, and uses, the analog component of the signal to produce the sound heard by the listener. When the digital signal improves, the HD receiver replaces the analog component with its corresponding digital component so smoothly that the listener is normally unaware of these transitions, unless he/she notices that the sound quality of the broadcast had temporarily lessened.

Keeping these transmissions in sync is very tricky, and although done automatically and mysteriously by 'black boxes' containing very sophisticated electronic circuits, it remains the responsibility of the broadcaster to synchronize the analog and digital signals, since each station's equipment may have a different 'lag time'. Maybe \$75,000 isn't really too much to pay for the technology to accomplish this synchronized hybrid transmission, after all.

When all goes well, the HD listener will hear a broadcast that is much clearer, without static or electrical interference, than can be heard by a listener with a standard analog radio. Hybrid Digital AM listeners will hear FM radio quality sound, and HD FM listeners will hear sound as though it were produced by a compact disc player in their own home. An HD listener may also benefit from other features that can be included in a hybrid digital transmission, such as seeing a song's title and performer's name appear on a

tiny digital screen, or perhaps being able to, at the press of a button, notify the station of his desire to purchase a copy of the current transmission for his own home use—for an additional fee, of course.

KPOF's management Station philosophy is to provide their listener with the highest quality of service available, and, consequently, chose to be a leader in AM HD broadcasting, having completed their conversion to hybrid radio in early 2004. Other stations have taken a 'wait and see' attitude. remembering other broadcasting technologies that have not been supported by the listening audience. It remains to be seen which philosophy will prove to be the well-timed one.

The higher quality of HD radio lends itself to fit the needs of a station that desires to be a 'companion' radio station, such as KPOF, while stations that solicit 'destination' listeners (listeners who tune to a station for a specific program) may not find the conversion worthwhile.

KPOF's management indicates that they have no accurate way of determining how many of their listeners are currently receiving their broadcasts on HD receivers, but history has shown that this small listener-supported station has always been successful in their efforts to fill a niche in the Christian Radio broadcasting spectrum.

Note: iBiquity Digital Corporation's Internet web site, ibiquity.com provides a very good description of their system, explaining in detail the differences between hybrid AM broadcasts, and hybrid FM broadcasts. They also have very good illustrations of exactly how they utilize the allocated bandwidths of both.

### **Sources:**

Pelon, Jack, General Manager, KPOF. Conversations and emails in February 2008.

"How does HD work?"
www.ibiquity.com/hd\_radio/hdradio

"HD radio" Wikipedia, en.wikipedia.org/wiki/HD-Radio

"WHAT IS HD RADIO BROADCASTING?"

www.crutchfieldadvisor.com/ISEO-rgbt cspd/learningcenter/car/hdradio\_faq.html #1

## The CRC 2008 Annual Show and Contest Results





Marty Phillips and his son bask in the glow of their "People's Choice Award" - Zenith 12S268









Part of Tom Pouliot's "Best of Show Award" for his early replica homebrew radio display



Marty Phillips also took the "Best Restoration Award" with his Emerson 520 Catalin radio



Wayne Gilbert was quite successful at selling items at this year's CRC show, contest and sale

Category	O****	C		Portable - Post 1938	2	Milra Caal-	175	1.04
Description	<u>Owner</u>	Score	1	Zenith R-520/URR 1953 Zenith Royal 7000-1		Mike Cook Mike Cook	475 - 470 -	
Accessories				Toshiba Companion C 1		Neil Gallensky	460 -	
Simpson Aerial Antenna	Merrill Campbell	440 -	1st	Automatic Tom Thumb		Bob Stutzman	400	Jiu
All American 18618 Batt. Elim.	Jim Johnson	300 -		Westinghouse H-410P4		Merrill Campbell	275	
Bakelite	Jiii Joinison	300	Ziid	Airline 14-690 1940s		David Solliday	275	
Admiral 48-J6 1940	Merrill Campbell	450 -	1st	RCA B10 1940s		David Solliday	245	
Crosley 46FA 1947	Richard Alley	345 -		Troubadour 1940		Richard Alley	230	
Mantola R654PM 1946	Richard Alley	340 -		Pre 1926				
RCA 45X-11 1940	Jerry Waterman	335	oru -	DeForrest MR-6 1922		David Boyle	500 -	1st
Airline 14WG-624 1941	Steve Touzalin	325		Grebe MU-1 Synchroph		•	425 -	
Eca 102 1947	Merrill Campbell	315		Moskowitz Herbach 8-tu			415 -	
Crosley 10-136E 1950	Marty Phillips	315		Westinghouse RA/DA 1		Larry Weide	405	
Admiral 5Y22AN 1952	Rich Kubersky	300		Stewart Warner 325 192		David Solliday	305	
Airline 04BR-513A 1940	Merrill Campbell	300		Speakers		David Bolliday	200	
Delco 1230 1947	Jerry Waterman	265		Stromberg Carlson 5A 1	1925	Jim Johnson	425 -	1st
Sonora RBU176 1946	Mike Phillips	220		Air Chrome P50 1921		Jim Johnson	360 -	
Philco 48-460 1948	Steve Touzalin	205		Atwater Kent H 1924		Jerry Waterman	330 -	
Battery - 1926-1929				RCA 103 1926		Jerry Waterman	315	oru
Case 60A 1926	Bob Jensen	425 -	1st	RCA 103 1926		Jim Johnson	290	
Catalin	200 vensen		150	Truetone Horn 1925		Jim Johnson	265	
Bendix 526C 1946	Marty Phillips	445 -	1st	Specialty, Obscure Bra				
Emerson 520 1946	Marty Phillips	440 -		Aerodyn Special 1925		Bob Jensen	440 -	1st
Cathedral	mary i mmps	<del></del> -	-114	Kemper K52 1926		Mark McKeown	400 -	
Atwater Kent 84 1931	Jerry Waterman	325 -	1st	Kingsbury TRF 1926		Bill Dial	365 -	
Atwater Kent 944 1933	David Solliday	325 - 325 -		Mosley CM1 1962		Robert Baumann	365 -	Jiu
Philco 70 1931	Jerry Waterman	323 - 320 -		Aetna 400 1939		Merrill Campbell	300	
Phileo 60 1933	Jerry Waterman  Jerry Waterman	320 - 295	Jiu	Trego 1923		Travis Ogden	300	
Classic Audio	Jerry waterman	<u> </u>		Paramount N315P 1936		Larry Snyder	280	
Геас AL-700 1977	Robert Baumann	450 -	1et	Gilfillan 56-C 1946		Merrill Campbell	275	
Bogen DB20 1954	Mark Kuligowski	445 -		Woolaroc 3-3A 1946		Marty Phillips	270	
Heathkit AA161 1964	Mark Kuligowski	420 -		Dejur 56		Jim Johnson	265	
	Mark Kuligowski		Sru	Puritan 501 1946		Marty Phillips	255	
Eico HF12 1959	Mark Kungowski	350				Robert Baumann	215	
Communication Gear	Maula MalZaarri	400	1_4	Vibroplex 225 SL 1980 Cardwell CR-54 1946		Robert Baumann	185	
Homebrew Ham Xmitter 1941	Mark McKeown	480 -		Television		Kobert Baumann	165	
Stewart Warner R390/URR	Rich Kubersky	420 -		RCA 621 1946		Bob Cofer	480 -	1.04
Hallicrafters S38E 1950s	David Solliday	<u> 195</u> -	3rd					
Console - Full Length				Admiral 20X122 1949		Bill Harris	465 -	
Philco 42-1008 1942	Rich Kubersky	445 -		Philco Predicta Pedistal		Dan Busetti	<u>425</u> -	Sra
Zenith 12S268 1938	Marty Phillips	340 -		Tombstone		T	25.5	4 .
Zenith 9S262 1937	Jerry Tynan	<u>205</u> -	3rd	Crosley 179 1934		Jerry Tynan	375 -	
Console - High/Low Boy				Zenith 6S128 1936		Jerry Tynan	365 -	
Majestic 91 1929	Mark Kuligowski	<u>430</u> -	1st	Admiral 551 1936		Jerry Waterman	355 -	3rd
Crystal Set				Philco 623 1935		Larry Snyder	305	
Jecophone 1 1922	Bob Jensen	<u>500</u> -	1st	Aetna 500 1934		David Solliday	290	
Homebrew, Kit				Philco 620 1936		David Solliday	285	
Homebrew Early Radio Disp.	Tom Pouliot	500 -	1st	Crosley 515 1934		David Solliday	<u> 265</u>	
Bremer-Tully 1923	Rich Kubersky	420 -	2nd	Transistor				
Homebrew Console 1930s	Larry Snyder	375 -	3rd	Zenith Royal 500 1957		Jerry Tynan	<u>460</u> -	1st
Homebrew Neutrodyne 1925	Bill Dial	375		Tube/Parts Display				
Radioshack Kit Radio	Mark Kuligowski	335		Collins Mechanical Filte		Robert Baumann	470 -	
Metal Box - 1920's	-			RCA Nuvistor 1960s		Robert Baumann	440 -	
Philco 511 1928 w/ table	Marty Phillips	420 -	1st	Western Electric 211D 1		Bob Jensen	435 -	3rd
Metal Case	·			Everyready Batteries		Mark Kuligowski	300	
Arvin 840T 1955	Steve Touzalin	330 -	1st	Wooden - Line Powere	ed			
Detrola 568-1 1948	David Solliday	275 -	2nd	Packard Bell 66D 1940		Bill Dial	340 -	1st
Novelty - Transistor				Philco 45C 1935		Jerry Tynan	330 -	2nd
Gasoline Gas Pump	Julie Mckeown	330 -	1st	Airline 14WG-731 1941	1	Steve Touzalin	325 -	3rd
Hot Dog w/ Mustard 1970s	Merrill Campbell		2nd	Philco 42-323 1942		Merrill Campbell	270	
Heinz Tomato Ketchup 1980s	Merrill Campbell	295 -		Phillips A3 26196 1960s	S	David Solliday	270	
Radioshack Statue of Liberty	Julie Mckeown	280		Westinghouse H157 194		David Solliday	255	
Rolls Royce Phamtom II 1970s	Merrill Campbell	260		Philco 48-482 1948		David Solliday	255	
Statue of Liberty 12-101 1986	Merrill Campbell	260		Philco 610 1936		David Solliday	235	
Hamilton Beach Kitchen Tunes	Mark Kuligowski	255		Airline 14-BR-736 1941		David Solliday	230	
Novelty - Tube				RCA T60 1938		David Solliday	230	
Hazeltine "Coke" 1949	Marty Phillips	365 -	1st	Sparton 652-1 1940s		David Solliday	220	
Empress 55 1946	Julie Mckeown		2nd	•		•		
Universal Publicizer Mike Radio	Bill Dial	350 - 350 -		Best of Show:	Homebre	ew Early Radios	Ton	Pouliot
Arvin 441T 1950	Travis Ogden	330 - 345	Jiu	Best Restoration: E		•		ty Phillip
Plastic - Tube	Travis Oguell	343			Zenith 12			
	Mamill Cancel -11	420	1at	People's Choice: Z	zemin 12	45400	wiar	ty Phillip
GE 65 1949	Merrill Campbell	430 -		** . *				
Philco 48-225 1948	Bob Stutzman	375 - 340 -		Note: In cases of sco	re ties a	coin toss will dec	ided t	he winner
Crosely 11-120U 1951	Merrill Campbell		4PG					

## MARCH '08 MEETING - ACTIVITIES



Tom Pouliot creates another one of his very fine homebrew radios in the earliest technology



Robert Baumann and Mike Cook conduct another very successful CRC meeting raffle

At the March meeting there was a discussion on the history of the NBC Chimes. CRC member Bill Harris has a very interesting article about the chimes on his website. Well worth checking out. See the article and much more at:

http://www.radioremembered.org



Mark Kuligowski explains his cabinet refinishing technique on his current Majestic 90 project



Tom Pouliot auctions off Dennis Lawrence's Zenith console restoration project



A beautiful Radiola also goes on the auction block

## **Collector Books for Sale**

Special CRC prices. Order at club meetings. Mail order shipments: add \$2.00 postage for each book ordered.	Mail order k ordered.	CRYSTAL CLEAR VOL 2 Maurice Sievers, 252 Pgs, 1995	\$29.95 \$22.00	THE FABULOUS VICTROLA "45" Bill Vonereis 176 Dec 2007	\$20.05	93.00
	Colorado void all	RADIO TUBES AND BOXES OF THE 1920'S George A Fathauer, 112 Pgs, 1999	\$26.95 \$20.00	ZENITH RADIOS THE GLORY YEARS 1936 - 1945 Conce Pennet & Plondrichin 355 Dec 3003	\$37.93	00:776
other listings Datail Club		70 YEARS OF TUBES AND VALVES, 2ND EDITION John Stokes, 264 Pgs, 1997	\$29.95 \$22.00	ZENITA E DIBLICA DIBLICATOR DE LO ESPECIO. ZENITA EL LUCISTA DE LO ESPECIO DE LO ESPEC	6 - 1945	23
)F TH 1998 I	5 \$28.00	RADIO DIAGRAM SOURCEBOOK Richard Gray, 264 Pgs, 1996	\$18.95 \$15.00	Contes, Bryant & Bainkinsinp, 102 rgs, 2005  THE ALL AMERICAN FIVE RADIO  Richard McWhorfer, 97 Pos. 2003	05.628	00:225
ANTIQUE RADIOS, COLLECTOR'S GUIDE - 4th EDITION Bunis, 1997 values, revised & updated, new photos, 248 pgs \$18.95	5 \$15.00	THE RADIO COLLECTOR'S DIRECTORY AND PRICE GUIDE, 2ND ED. Robert Grinder, 524 Pgs, 1995 \$26.95	DE, 2ND ED. \$26.95 \$21.00	E.H. SCOTT THE DEAN OF DX, 2ND EDITION Maryin Holbs. 240 Pps. 2003	\$29.95	\$27.50
GUIDE TO OLD RADIOS, POINTERS 2nd EDITION Johnson, 277 pgs, 1995-96 prices	5 \$15.00	COLLECTOR'S GUIDE TO VINTAGE TELEVISION Durbal & Glenn Bubenneimer, 200 Pgs, 1999	\$15.95 \$13.00	ANTIQUE RADIOS 6TH EDITION John Shuser 370 Pos 2004	\$24.95	\$19.50
ANTIQUE RADIO RESTORATION GUIDE - 2rd EDITION Johnson, 144 pgs, repairing, refinishing, cleaning \$14.95	5 \$12.00	NOVELTY RADIOS, VOLUME 1 Marty Bunis & Robert Breed, 223 Pgs, 1995	\$18.95 \$15.00	OLD TIME RADIOS Joseph Carr. 256 Pes. 1991	\$19.95	\$15.00
RADIO, EVOLUTION OF THE - VOLUME ONE 227 pgs, 118 in color, More than 800 radios pictured, 1992 \$22.95	5 \$18.00	NOVELTY RADIOS, VOLUME 2 Mary Bunis & Robert Breed, 199 Pgs, 1999	\$19.95 \$15.00	The Early Development of Radio in Canada 1901-1930 Murray Editor, 154 Pos. 2005	\$26.95	\$19.50
RADIO, EVOLUTION OF THE - VOLUME TWO 226 pgs, Radios of the 1920s to 1960s, with 93-94 values \$24.95	5 \$19.00	COMPLETE PRICE GUIDE TO ANTIQUE RADIOS: PRE-WAR CONSOLES Mark Stein, 235 pgs, 100's of b/w photos \$22.0	AR CONSOLES \$29.95 \$22.00	Plastic Radios Stein, 255 Pes. 2006	\$37.95	\$26.25
TRANSISTOR RADIOS, COLLECTOR'S GUIDE VOL II Bunis, 1996 prices, Full Color \$16.95	5 \$13.00	TUBE TESTERS AND CLASSIC ELECTRONIC TEST GEAR Alan Douglas, 166 Pgs, 2000	\$25.95 \$19.50	Novelty Radio Handbook Weaver, 160 Pes, 2006	\$29.95	\$22.00
ZENITH TRANSISTOR RADIOS, 1955-1965 Smith, 1998 PG, 160 pgs, 226 color pics, info, descr. \$29.95	5 \$22.00	COLLECTOR'S VACUUM TUBE HANDBOOK, VOLUME I Robert T. Millard, 196 Pgs, 2001	\$25.95 \$19.50	Phileo Radios 1928-1942, 2nd Edition Ramirez & Prosise. 192 Pos. 2006	\$29.95	\$22.00
THE ZENTH TRANS-OCEANIC (THE ROYALTY OF RADIOS) Bryant and Cones, 160 gps, 1995	5 \$22.00	SILVERTONE ANTIQUE RADIOS 1930 - 1942 Stein, 239 pgs, 2001	\$34.95 \$25.50			
ZENITH RADIOS THE EARLY YEARS 1919-1936, Cones 1997-98 Price Guide, 223 pgs, 100's Photos, Desc., Hist. \$29,95	5 \$22.00	ANTIQUE RADIOS COLLECTOR'S GUIDE 5th EDITION John Slusser, 264 Pgs, 2001	\$19.95 \$15.00			
RADIOS BY HALLICRAFTERS, revised 2nd edition Dachis, 1999 values, 220 pgs, 1000+ pics, id's, history \$29.95	5 \$22.00	RADIOCRAFT JUBILEE - REPRINT OF 1938 EDITION Hugo Gernsback, Vestal Press	\$12.00			
CLASSIC TV'S, PRE-WAR THRU 1950'S 86 pgs, color & b/w pics, descriptions, etc. \$18.95	5 \$15.00	CLASSIC CONE SPEAKERS Buford & Jane Chidester, 122 Pgs, 2001	\$25.95 \$19.50			
Machine Age to Jet Age. Radiomania's Table Radio Guide 'III, 33-'62 Stein, 256 pgs, 100's of b/w photos	5 \$24.50	TUBE LORE Ludwell Silbey, 186P gs, 1996	\$29.00 \$15.00			
TRANSISTOR RADIOS, 1954 TO 1969 Norman Smith, with prices, 160 pgs, 1000 photos, 1998 \$29,95	5 \$22.00	ARTHUR COLLINS RRADIO WIZARD Ben Sieris, 394 Pgs, 2002	\$18.95 \$14.00			
PHILCO RADIO: 1928 - 1942 Ramires & Prosise, 160 pgs, 828 pies & drawings, 1993 \$29.95	5 \$22.00	MACHINE AGE TO JET AGE - VOL I Mark V. Stein, 256 Pgs, 1998	\$24.95 \$21.00			
RADIO AND TV PREMIUMS Jim Harmon, 256 pgs, 200+ photos, 1997 \$24.95	5 \$19.00	MACHINE AGE TO JET AGE - VOL II Mark V. Stein 358 Pgs, 1997	\$28.95 \$23.00			
RADIO MANUFACTURES OF THE 1920'S VOL I Alan Douglas, 225 pgs, 1988	5 \$19.00	TABLETOP RADIOS - Vol 1 Mark V. Stein, 240 Pgs, 2002	\$29.95 \$22.00			
RADIO MANUFACTURES OF THE 1920'S VOL II Alan Douglas, 266 pgs, 1989 \$22,95	5 \$22.00	A. ATWATER KENT Williams & Wolkonowicz, 108 Pgs, 2003	\$25.95 \$19.50			
RADIO MANUFACTURES OF THE 1920'S VOL III \$29.95 Alan Douglas, 285 pgs, 1991	5 \$22.00	THE WOOD FINISHER Bruce Johnson, 341 Pgs, 1993	\$12.00 \$10.00			
CRYSTAL CLEAR VOL 1 Maurice Sievers, 282 Pgs, 1991 \$229.55	5 \$22.00	THE WEEKEND REFINISHER Bruce Johnson, 296 Pgs, 1989	\$12.00 \$10.00			
		THE PLATING MAN'S MANUAL Johnson	***************************************			

The Flash! -8- May, June 2008



### 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 HO180A@aol.com **03/08** 

**FOR SALE:** The following test instruments:

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

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

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

Mark McKeown 303-278-3908

Mmckeown@hughes.net

Mmckeown@hughes.net 05/08

**WANTED:** Broadcast reception letters and/or EKKO stamps.

FOR SALE: I have the following tubes to sell for a fair price. Call or email me for prices and quantities; 24, 27, 35, 40, 45, 47, 80, 199, 200, 01A, 01A short pin. Wayne Gilbert 303-431-6774 wagil@aol.com 05/08

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

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

#### WAR OF THE WORLDS:

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

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

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

Any questions call JoAnn or Fred Bantin (303) 427-5431

WANTED: CRC Members Help!! Please help me collect comments and anecdotes about our club for an article planned for anniversary edition of the *Flash*. Here is your chance to relate a story or event that struck you as interesting, or even something that you feel is very typical of the club.

Simply call me to relate your anecdote, or send it by email to wagil@aol.com.

Please help make this article fun, as well as interesting. Thanks
Wayne Gilbert. (303) 431-6774 05/08

### President's Message - Continued

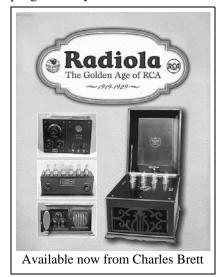
Planning for the 20<sup>th</sup> anniversary edition of our newsletter is already well under way. CRC resident researcher and historian Wavne Gilbert has volunteered to author the centerpiece article containing memories and anecdotes from as many early and longtime members as he can interview. Please look for his request inside the back cover of this issue and share your best recollections with Wayne. I'm pretty sure he will agree to honor your anonymity if you contribute a particularly revealing story and request he do so. A handful of volunteers are needed to review newsletter back issues and select photos to support planned articles. Please contact Flash Editor Steve Touzalin to lend your support.

Note also the invitation from **Fred** and **JoAnn Bantin** that appears on this page. This sounds like it will be an entertaining evening. I appreciate Fred's invitation and hope that many CRC members take advantage of this wonderful opportunity.

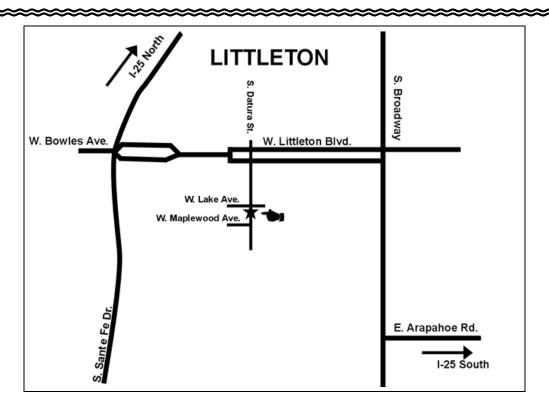
**Wanted:** RCA Super Hydra-Dyne wooden cabinet Hi-Fi console, Model U-46. Can provide photos.

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

05/08



# For our May 18th, 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