

# The Colorado Radio Collectors

Antique Radio Club

# FLASH!


Volume 13

June

July

2002

Issue 4



*WINGS OVER THE ROCKIES*  
**AIR & SPACE  
MUSEUM**

**COLORADO'S OFFICIAL  
AIR & SPACE MUSEUM**

In this issue. . .

- ◆ New Meeting Location this Month!!
- ◆ April Show Photos
- ◆ May Meeting Photos
- ◆ Kolster Model K-24 Restoration

# The Colorado Radio Collectors Antique Radio Club

**Membership:** Annual membership in the CRC runs from June to June.

Members are requested to pay their \$12 dues at the May meeting. If unable to attend, please submit dues by mail to the treasurer. All payments should be made out to "Robert Baumann, CRC Treasurer." Annual dues entitles members to 6 issues of *The Flash!* and participation in club events such as the annual April show, midsummer picnic, September auction as well as meetings and swaps every other month. Also officer elections and the *Antique Radio Classifieds* annual subscription raffle every May!

New members are encouraged to join throughout the year. Only new memberships will be prorated to ensure renewal on the following June. New members who join from May to August should submit \$12; September & October \$10; November & December \$8; January & February \$6 and March & April \$4.

Renewing members who fail to submit dues in a timely fashion risk interruption in the delivery of *The Flash!* Upon payment of late dues, recent past issues may be requested from the CRC Publisher. Older issues require contacting the CRC Archivist. For bookkeeping reasons, all renewing memberships run June to June at the \$12 rate regardless of when one might realize their membership has lapsed.

**Article Contributions:** Submission of articles are always appreciated. This could include historical and technical items as well as stories about individual collections. Articles may be written or e-mailed, and need not be in final form. Submissions and requests for information

should be directed to the CRC "Flash!" Publishers.

**Meetings:** Unless otherwise noted in this journal, regular meetings are held on the second Sunday of every other month starting with January (except: 3rd Sunday of May) at 1:00PM at the Museum of the Americas Bldg., 2nd floor. 863 Santa Fe. (between 8th & 9th Ave.'s). The meeting normally includes business items, discussions, "show and tell", a raffle and a swap meet.

## C.R.C. 2000-2001 Officers

**President** Mark Dittmar  
Westminster (303) 403-0669  
mark\_dittmar@maxtor.com

**Vice Pres.** Dennis Laurence  
Colorado Springs  
(719)-278-9181

**Treasurer** Robert Baumann  
Lakewood (303) 988-2089  
RGBdenver@att.net

**Publishers** Rick Ammon, Richard Beckman, Mark Dittmar, Mark Gibson, Steve Touzalin

**Archives &** Charles Brett

**Book Sales** Colo. Springs (719)495-8660  
brett3729@aol.com

**Publishing Deadlines:** All submissions must be submitted by the 1st of Feb., Apr., Jun., Aug., Oct. and Dec. for publishing in the following months.

**Want Ads:** Submission of Sell/Want ads are always free to CRC members. Nonmembers may advertise in the Flash! for \$0.20 a word.

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**Thanks** to the **Pressworks** for printing the Flash! - (303) 934-8600



# *Colorado Radio Collectors Antique Radio Club*

Founded October 1988

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

**Volume 13, Issue 4**

**July/August 2002**

## **TABLE OF CONTENTS**

<b>A Letter from the President - Mark Dittmar</b>	<b>2</b>
<b>The Restoration of a Hallicrafters S-19R - Doug Moore</b>	<b>3</b>
<b>KPH "Wireless Giant of the Pacific" - Mark Dittmar</b>	<b>11</b>
<b>Radio Web Site Reviews - Mark Gibson</b>	<b>15</b>
<b>January Meeting Highlights - Larry Weide</b>	<b>16</b>
<b>Riders Manual-Philco Supplemental Data - David Boyle</b>	<b>18</b>
<b>Collector Books for Sale - Great deals for CRC members!</b>	<b>22</b>
<b>The Open Trunk- Want ads and For Sale Items</b>	<b>24</b>

### **ABOUT THE COVER**

**This Month's CRC Meeting will be held at  
the "Wings Over the Rockies Museum"**

**See Page 3 for details**

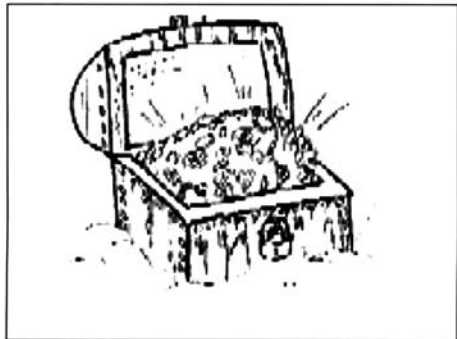
# Message from the Treasurer

by Robert Baumann

Thanks to all those who have already renewed their annual dues. Your \$12 will ensure that you continue to receive The Flash! and be kept aware of all CRC events and activities. The true value of this group resides in the collective backgrounds, experience and interests of you, the individual members. It is our goal to meet your expectations and retain existing members while adding new ones through referral and increased club visibility. I trust you feel as I do that there are many benefits of CRC membership. Please keep in mind the majority of these benefits essentially cost nothing as almost 100% of annual dues payments go to the printing and distribution of The Flash! Many of the other advantages of membership result from individual hard work, generosity and volunteerism. As established CRC events evolve and we find new areas to pursue, opportunities are available for members to pitch in. I know I don't speak only for myself when I say I have found involvement with the CRC much more rewarding since I began to participate rather than simply benefit from the work of others.

PAGE: 2

Thanks again for your personal support in the CRC through continued membership. If you have not already done so, please make out your check today payable to: Robert Baumann, CRC and either bring it to the July meeting or mail it to: **1985 South Cape Way, Lakewood, CO 80227.**



Past meetings have proven to be both interesting and educational. We have a special meeting planned for July so please be sure to attend! Your attendance and involvement in club meetings is the first step to realizing the true value of your CRC membership. Why not also consider lending a hand in event planning or even consider filling an open officer position? Speaking from personal experience, I'm certain you'll find it very rewarding!

# CRC July Meeting Venue

at the **Wings Over the Rockies Museum**, July 21st

by Bart Whitehouse, CRC Member



**"Step right up folks and Wireless Wizards, and behold the astounding old radios exhibit at the CRC July 21st meeting. Over the past couple of years, many skilled CRC volunteers**

**have contributed their time and talents to help the Museum create a permanent exhibit dedicated to the development of wireless, radio, and avionics. The July gathering is your opportunity to view the results."**

To our knowledge, the Wings Over the Rockies museum Avionics/Radio exhibit is the only permanent, dedicated to early radio exhibit open daily to the public in the Central Plains states and the Rocky Mountain region. This is your chance to see not only the familiar classic radios of the 20's,30's, &40's, but also the specialized equipment of Aviation Radio.

You will see early 20's military wireless sets. Also rare hand-built aviation sets of Pan Am



in the early '30s; the days of Juan Trippe and Charles Lindbergh. Plan to remain after the CRC meeting, and visit the 2 or 3 acres





A sample of the many radio related items on display at the Wings Over the Rockies museum.

of vintage aircraft, all under one roof. There is everything from tiny 65 mph home-built planes to supersonic military jets. Come & enjoy!

A quick tour of the Radio Artifacts Storage & Restoration Facility for those who wish.

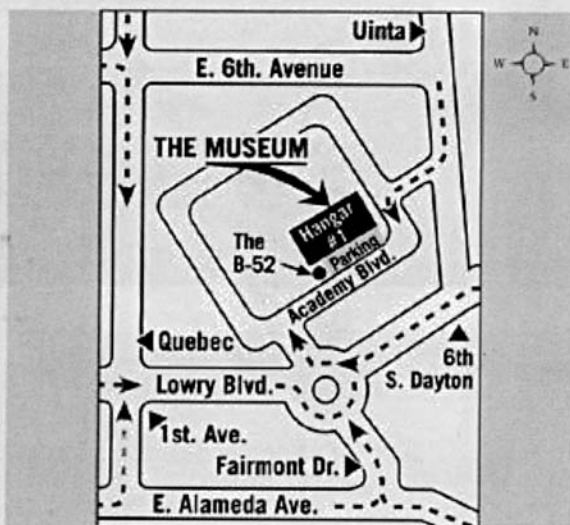
Our July CRC meeting should be a great one! It will be held at the **Wings Over the Rockies Museum**, on July 21st at 1:00 PM.

You **MUST**, repeat, **MUST** have your CRC badge to gain free admission. The Museum itself is very interesting, and the radio exhibit has a different focus than most. If this meeting is well received, we might do this again in the future, possibly as an annual event. The wireless and Avionics exhibits will change from time to time, so the visit would be a bit different each year.

Some of the Major exhibits include: The Lafayette Foundation WWII Collection, Eisenhower Summer Home Exhibit, Dressed For Duty...featuring *America's Women In Uniform*, and much, much more.

There is a map and other pertinent information on the next page. The address is **7711 East Academy Boulevard**.

## THE LOCATION



From:

- ◆ I-70 – Quebec exit south to Lowry Blvd.
- ◆ I-25 – Hampden exit east to Monaco, north to Alameda, east to Fairmont.
- ◆ I-225 – Sixth Ave. exit west to Dayton.



7711 East Academy Boulevard  
(Hangar No. 1 in the new Lowry community)  
Denver, Colorado 80230-6929  
Phone: (303) 360-5360 FAX: (303) 360-5328  
Internet: <http://www.wingsovertherockies.org>



**\*See you at the....**



**Sunday, August 18th 1:00pm  
Lakewood's Historical Village  
West Side Of The Museum Barn  
- Wadsworth & Ohio, Lakewood -**

- \* Bring your family, sig. other, whoever**
- \* Bring your own main course/meat**
- \* Bring something to share, i.e. salad**
- \* Drinks and paper goods provided**
- \* Swapmeet in the parking lot**

### **The CRC has its own web site!!**

Although parts of the site are still under construction, the Club now has Internet presence! The link is available through... <http://antique-radios.info/CRC/> . A lot of work is still planned for the HomePage, but it will retain the obvious announcement for the next meeting. In this particular case, it warns of a different date and location. This is a perfect opportunity to keep up with club announcements between the FLASH publication dates! Don't fear, after much discussion, the CRC leaders excluded any references to member names, addresses, phone numbers, or email addresses, outside those of some of the club officers. So, don't worry that the membership will appear, as it won't! Rick Ammon is the Web Master and can be contacted at "wireless@antique-radios.info" More details later. In the meantime, "Check it Out"!

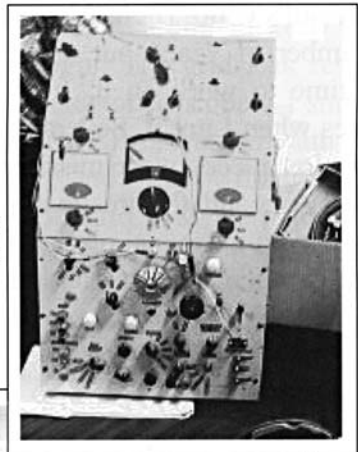


Tom Pouliot fires up another fine radio from his collection - a Federal Orthosonic.



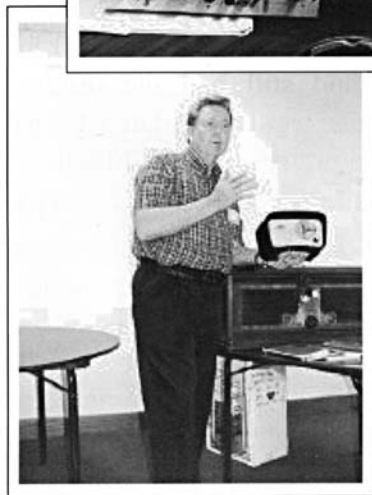
Robert Baumann arranges some of the "interesting" items on the raffle table.

Mark Dittmar's homemade transistor tester (wouldn't it be a lot easier to just buy a new one?)



Robert Baumann display his picture of Hiram Percy Maxim.

Ray Windrix shows us his CBS radio and Moose Springstien (see article).



# Restoration of a 1929 Kolster Radio Model K-24

by Mark Dittmar, CRC Member

This is probably one of the more aesthetically pleasing antique radios that I own. I know this because my wife actually allows me display it in our living room. This radio was given to me by a fellow member of the Colorado Radio Collector's Club. He had kept it for a number of years, but never had the time to work on it. It was in pieces when I got it. Several of the structural pieces were missing and or broken, and the trestle support was broken in several places. There were two separate chassis, one for the audio/power supply, and one for the RF deck. A separate electrodynamic speaker also came with the set; it weighs about 20 lbs or so, and still had the original warehouse tags on it (dated 1929). It was in pretty good condition.

This set is an AC operated TRF set. It has the following tube complement: four type 26 triodes, RF stages; a 27 triode detector; a 26 triode audio preamp; a type 10 ( or 50 ) final audio tube; and two type 81 rectifiers. The RF design is quite conventional for the time

period, and looks like many other AC operated sets of the time.

The electrical stuff appeared to be mostly intact, so I set to work on

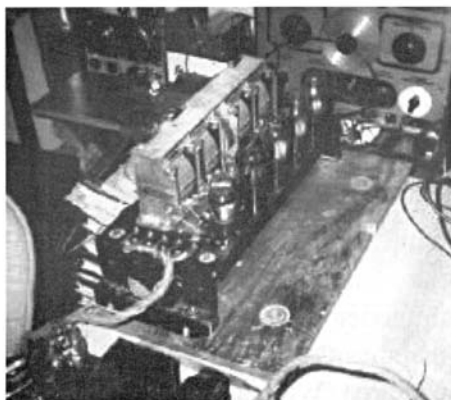


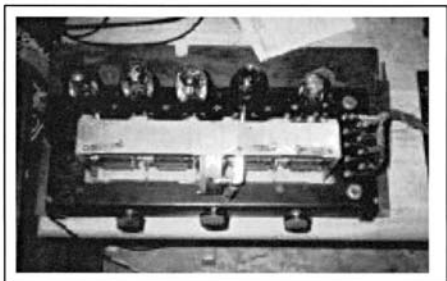
that first. Initially, I was a bit dismayed to find that the main audio tube used in this set was a type 50 triode, a tube now beloved by audiophiles and completely out of reach of my budget. A bit of research, though, showed that two models of the K-24 were built, one with the 50, and another with a type 10 triode. I decided that if the set was ever to play again, I would have to rebuild the power supply and change the bias network so that a 10 triode could be used. This turned out to be a pretty straightforward modification, since Rider's has BOTH schematics. I replaced the biasing networks in the audio section to accommodate a 10; I disconnected the various filter capacitors in the circuit and neatly stuffed the wires into the main condenser box. I replaced with modern equivalent capacitors. None of the electrical modifications are visible unless you take the audio/power supply chassis apart. Here is what the audio/power supply chassis looks like:



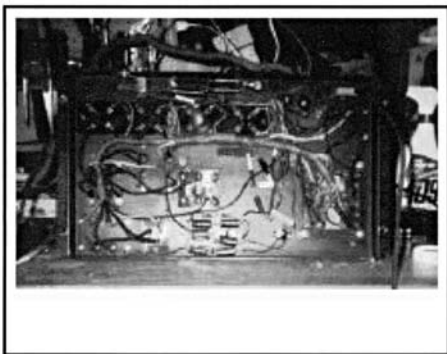
The big black box in the middle is where all of the original capacitors were. In front of it are the two '81 rectifiers. To the left of these is the 10, and the tube to the left of it is the 26. The heavy cord coming out of the chassis goes to a large connection strip, which bolts onto a row of connections on the RF deck.

The RF deck only had a few minor problems. A couple of the wire grid resistors were open, so I snuck in small modern equivalents across them, careful to keep them out-of-sight. The grid leak resistor of the detector was open- I snuck a modern resistor underneath the chassis and kept the original fuse-type grid leak in place. The main tuning capacitor was frozen in place- some judicious adjustments and a LITTLE bit of lite oil freed it up nicely. Here are a couple of views of the RF deck:





The next picture shows what the underside of the audio/power supply looks like, with the modifications that were made. No holes were drilled, all mods are reversible. There is an additional cover plate which bolts onto the bottom of this chassis, so none of this is exposed. There was very little room, height wise, under this chassis, maybe 3/4"!



After all the electrical changes/fixes were made, I plugged in the speaker, and powered the set up with a small clip lead attached to the antenna post. I was immediately able to pull in some of the stronger stations in the Denver, CO area. When I connected it to

my external inverted L antenna, it REALLY worked well. After I had the set working nicely, I stuck it up on a shelf and waited until my furniture-maker friend, John, could get the time to build the various structural elements and missing pieces for the radio.

I had to cut the trestle support off and gave it to John to see if he could make a replacement. Using the old one as a template, he quickly made a new trestle out of 3/4" birch plywood; it looked great. Eventually, I brought the whole thing over to John's shop, where the original dowelling holding the trestle to the legs was drilled out, and replaced with new dowels. The trestle fit perfectly. The cabinet was now on a solid footing. Next, a piece of wood was cut to serve as a spacer and support piece for the speaker; the speaker and spacer bolt directly onto and underneath the RF deck. The weight of the RF deck and speaker are supported by two wooden rails, which were missing when I received the radio. John built a couple of new rails and glued and screwed them into place. The RF deck and speaker now could slide right into place. The audio section bolts directly onto the base of the cabinet. As can be seen in the picture on the first

page, below the speaker is another wood panel which conceals the audio deck. Not having the original panel, this replacement was a guess- I think it turned out well. The back of the cabinet, not seen in the photos, needed a couple of new frame pieces and a replacement 1/4" plywood panel. The cabinet work was done. I then cleaned the whole cabinet thoroughly with mild

soap and water; then applied a finish restoration product, and allowed it to dry for a couple days while a space was cleared out in the living room for the set. Finally, I put everything together in the living room, where the radio now commands a position of prominence.

This was a fun project, and I think the final product turned out nicely.



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# The 2002 Annual CRC Show and Sale Photo Gallery

by Larry Weide, CRC Member

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Best of Show - Barney Wooters  
Kennedy 281/521 1921



Best Restoration - Bob Jensen  
Magnavox AC-3C 1923



People's Choice - Merril Campbell  
Zenith 4G903-Y 1949



Some of the top of the line portable  
radios on on display



The sellers had a find selection of  
radios this year



Neil Gallensky's excellent display of  
Regency's TR line of 50's radios



Bob Slagle's Colorado made 1921 Reynrad



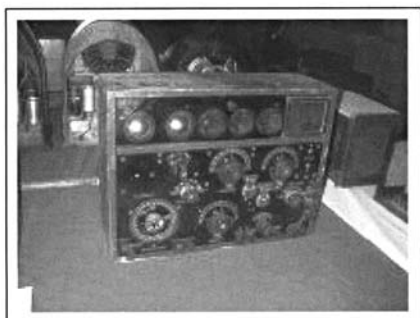
Dave Boyle and Barney Wooters hard at work judging radios



Dana Hauschulz and Barney Wooters' fabulous tube display



Dave Boyle and his display on radio design through tube evolution



BC-32A Signal Corps Transceiver 1920  
On loan from the Wings Over the Rockies Air Museum



Neil Gallensky, Barney Wooters, Larry Weide, Dana Hauschulz and Robert Baumann enjoying a post show dinner



# The Hollister Crystal Company

by Chip Owens, NW0O

There were numerous small companies that manufactured crystals for the war effort in the early 1940s. Most of these companies came and went in a few short years. Hollister Crystal was one such company and was one of the first to produce crystals commercially in the United States.

J. Herbert Hollister, W9DRD, was making his own crystals in the late 1920s. If you were a ham back then that was about the only way to get on the air with a piezo electric oscillator controlling your transmitter's frequency. Then, as now, there were very few companies making crystals for the amateur radio market. The self-excited oscillator ruled the airwaves until the mid to late twenties when crystal control started catching on. To get some perspective on the state of the art consider this: the first commercial broadcast station to use crystal control of its transmitter frequency was A.T. & T. station WEAJ in New York in 1924. Not many amateurs were using crystal control then and quartz "plates" were expensive. Herb started making crystals for other hams and commercial broadcast stations. He formed Hollister Crystal

Company to manufacture quartz crystals and holders in 1927.

But who was Herb Hollister? He was a ham who saw an opportunity to turn one aspect of his hobby into a business. Herb never went to college, having joined the Marine Corps after completing high school. He served in the Marine Corps until the end of WW1. After the war Herb sold Hudson automobiles and got involved as a stock salesman for Farm & Home Savings Loan Association of Nevada, MO. Herb moved into commercial broadcasting as licensee and operator of WAAZ in Emporia, KS. From that beginning he expanded his interests with the purchase of additional AM broadcast stations. In his spare time Herb pursued his hobby of amateur radio as W9DRD (licensed in 1925) and relaxed by climbing mountains. All the while Herb kept the crystal business going and had a handful of people working for him. If you check QST magazine for December 1928 and January of 1930 you can read articles Herb wrote to educate hams in the basics of crystal grinding and crystal control of transmitters.

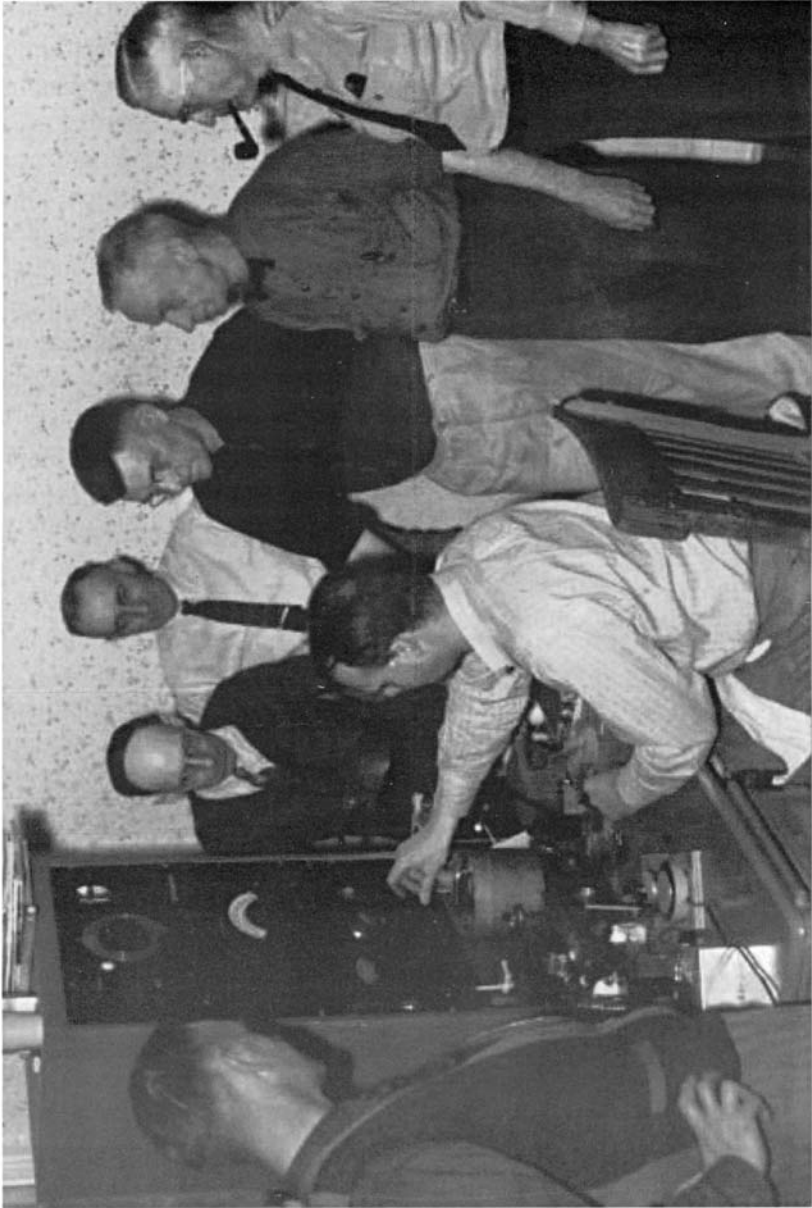
In 1939 the military made the decision to convert all its radio

equipment to crystal control. This provided a new market for the individuals who had been producing crystals for amateur and commercial use. Soon after, the U.S. began providing radio equipment to the Allied Forces and the demand for crystals mushroomed. There simply weren't enough crystal manufacturers to meet the demand. Galvin Company (Motorola) began subsidizing a few individuals who had experience making crystals. Hollister Crystal Company was one of the companies receiving such assistance. With the U.S. entry into WW2 the demand for crystals became even more acute. Hollister Crystal Company expanded its capacity to meet the demand and increased the number of employees to eight people.

Herb moved his crystal business from Wichita, KS to Boulder, CO in August of 1942 citing the climate as being conducive to greater efficiency of production. Herb and his wife had been vacationing in the mountains of Colorado for several years and relocating his crystal company there was a good excuse to be closer to the mountains he loved. Herb set up operations at 1617 Pearl Street in Boulder. Herb's production manager Ted Heithecker moved to Boulder along with Ted's father and some of the employees from the Wichita shop.

One of the major problems faced by Hollister Crystal in Boulder was a lack of skilled craftsmen. Some on-the-job-training was given in the shop but there wasn't enough time to train new employees and keep production going. A government sponsored Engineering, Science, and Management War Training class was instituted at the University of Colorado to help the situation. Here men and women were given twelve weeks training in grinding and finishing crystals. Remember, crystal manufacturing was still a fledgling industry and the work was all done by hand. Materials and processes employed today were unheard of in 1942. Electrical engineering professor Harlan Palmer taught the students about the structure of quartz and Herb Hollister and Ted Heithecker taught practical shop techniques. People with diverse backgrounds such as miners, linotype operators, lumbermen, pharmacists, surveyors, and school teachers all enrolled in the free training class. Upon completion a few became full time employees in the shop, but most continued their civilian jobs and worked three or four hours each evening, five nights per week, for the war effort. Production continued on Sundays with an all-volunteer crew.

Bob Wilkinson, K0XW, worked at Hollister Crystal in 1942 and provided some of the



The "Hollister Crew" hard at work.

background for this article. Bob “finished” crystals to the final operating frequency, tested them for temperature coefficient, and also had the task of trying to salvage crystals that did not meet the temperature coefficient specification. He recalls that the crystals made when he worked there were destined for tank transmitters under a Galvin contract. The crystals were in the frequency range around 1 MHz and were intended for multiplication to the final operating frequency in the low VHF region.

A night shift was added at the shop in 1943 and the company continued to grow. In 1944 Hollister Crystal did half a million dollars in business with the federal government. After the war Hollister Crystal continued operation at a much reduced rate and by 1949 closed its doors for good.

Herb remained active in the radio business for many years. He owned and operated KBOL in Boulder as well as several other AM stations in the western states. With his partner, Don Searle of Los Angeles, Herb attempted to buy KOA in Denver. The successful bidder however was Meredith Publishing Company of Des Moines, Iowa with someone named Bob Hope owning 49% of the stock. If you look at those old crystals in your junk box or on the table at the next hamfest take a minute and check the

name of the crystal manufacturer. It just might be Hollister Crystal. This happened to me recently when I found some crystals for the BC-669 transmitter/receiver in a box at the Longmont hamfest. That’s what really started me digging into the history of Hollister Crystal Company.

My thanks to the Boulder Public Library, Carnegie Historical Branch and the Boulder Daily Camera newspaper who made available a wealth of newspaper clippings and photographs. Without their assistance this article would not have been possible.

[1]J. Herbert Hollister, “Debunking Crystal Control”, QST, December 1928, p.35,36 J. Herbert Hollister, “Quartz Crystal Facts”, QST, January 1930, p.29,30.

[2]Virgil E. Bottom, “A History of the Quartz Crystal Industry in the USA”, Corning Frequency Control Incorporated, document available at: . Note that this article incorrectly dates the use of crystal control at WEAFF as 1926 when it actually was put into use in June of 1924. See: “Commercial Broadcasting Pioneer, The WEAFF Experiment 1922-1926” by William Peck Browning, 1946, Harvard University Press.

[3]

**The Colorado Radio Collectors  
Antique Radio Club  
2002 Annual September Auction**

**WHAT:**

An auction of radios, television, documentation, parts, test equipment, and associated items. The public is encouraged to participate in both buying and selling.

**WHEN:**

Sunday the 15th of September at 1:00pm

- \* Seller's registration - 10:00am - 12:45pm
- \* Buyer's registration - 10:00am - 12:45pm
- \* Viewing - As items are delivered
- \* Auction - Starts at 1:00pm *Sharp*

**WHERE:**

Museum of the Americas - rear parking lot - access by alley  
863 Santa Fe Ave. - between 8th & 9th Ave.'s - west side

*Parking in lot west side of alley - between Santa Fe and Kalamath  
Drive in to auction yard permitted for drop off only*

Sellers may Initially register up to ten (10) items. If time and space permits, additional items may be registered *after all other waiting sellers have had a chance to register their maximum of ten items.* Please have your preprinted registration form filled out and ready for quicker registration. Seller registration will end at 12:45 *SHARP*.

**AUCTION RULES:**

- \* There is no cost to register as a buyer or seller.
- \* There is a seller's commission that will be equal to \$1 or 10% (which ever is greater) of the "hammer" price on each lot sold to **any buyer** - including the sellers who may elect to "buy back" their lots.

- \* **Sellers may optionally indicate, at registration time, a minimum opening bid on any lot.**
- \* No commission will be incurred on any lot that is not sold.
- \* All seller commissions will be deducted from and before the payment to the seller, and these commissions will become the property of the Colorado Radio Collector's treasury.
- \* Buyers **can not** take possession of any lot(s) until the total cost for all purchases are paid. Collection of buyers fees will commence at the conclusion of the sale of the *last* lot entered into the auction. A buyer's receipt is required for pickup of purchased lots from the lot/item display area.
- \* Buyer fees will be collected before sellers are paid. Identification may be requested for those paying for their purchases by personal check.
- \* Sellers are encouraged to participate in buying as well, but payment for these purchases will be paid and accounted for separately from the C.R.C settlement check for any sales.
- \* Sellers will be paid **only** by C.R.C. check, and may elect to be paid by mail.
- \* This auction is limited to radio and electronics related items as described above. The CRC reserves the right to reject items deemed inappropriate.
- \* The C.R.C. **assumes no responsibility** for the condition or ownership of any items and/or lots offered for sale in this auction.
- \* Any item registered for sale by auction may not be sold outside of the auctioneer's control, and can not be removed from the sale once the auction commences.



**Turn your old stuff into new cash at the CRC  
2002 Auction!**

**More details in the next Flash, or check our web site.**

# Colorado Radio Collectors Antique Radio Club

## 2002 Annual Auction - Seller Registration

Please provide the following information for each item/lot you wish to register. Each seller will be allowed to initially register a maximum of ten (10) lots. After all the waiting sellers have had the opportunity to register their maximum of ten lots then, if time and space permits, additional lots will be considered for registration. Be aware that the lots will come up for auction in random order and will have nothing to do with the order in which they are registered. Registration ends at 12:45am - *sharp*.

NAME \_\_\_\_\_ TEL # \_\_\_\_\_

Prefer to be paid my mail? (Y/N) \_\_\_\_\_ - If yes provide address below

ADDR \_\_\_\_\_

LOT DESCR. (Include brand, model and date if at all possible)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

(Include any additional lots on a separate piece of paper)



## *Collector Books for Sale*

Special CRC prices. Order at club meetings. Mail order shipments: add \$1.75 postage for each book ordered. Info/order: Charles Brett, 5980 Old Ranch Road, Colorado Springs 80908, (719) 495-8660, [brett3729@aol.com](mailto:brett3729@aol.com). This voids all other listings.

	<u>Retail</u>	<u>Club</u>
<b>RADIOS, (GENUINE PLASTIC) OF THE MID CENTURY</b> Jupp & Pina, hard bound, 219 pgs, 1998 PG, 450+ color pics	\$39.95	\$28.00
<b>ANTIQUÉ RADIOS, COLLECTOR'S GUIDE - 4th EDITION</b> Bunis, 1997 values, revised & updated, new photos, 248 pgs	\$18.95	\$15.00
<b>GUIDE TO OLD RADIOS, POINTERS... - 2nd EDITION</b> Johnson, 277 pgs, 1995-96 prices	\$19.95	\$15.00
<b>ANTIQUÉ RADIO RESTORATION GUIDE - 3rd EDITION</b> Johnson, 144 pgs, repairing, refinishing, cleaning	\$14.95	\$12.00
<b>RADIO, EVOLUTION OF THE - VOLUME ONE</b> 227 pgs, 118 in color, More than 800 radios pictured, 1992	\$22.95	\$18.00
<b>RADIO, EVOLUTION OF THE - VOLUME TWO</b> 226 pgs, Radios of the 1920s to 1960s, with 93-94 values	\$24.95	\$19.00
<b>TRANSISTOR RADIOS, COLLECTOR'S GUIDE VOL II</b> Bunis, 1996 prices, Full Color	\$16.95	\$13.00
<b>ZENITH TRANSISTOR RADIOS, 1955-1965</b> Smith, 1998 PG, 160 pgs, 226 color pics, info, descr.	\$29.95	\$22.00
<b>THE ZENITH TRANS-OCEANIC (THE ROYALTY OF RADIOS)</b> Bryant and Cones, 160 pgs, 1995	\$29.95	\$22.00
<b>ZENITH RADIOS THE EARLY YEARS 1919-1936, Cones</b> 1997-98 Price Guide, 223 pgs, 100's Photos, Desc., Hist.	\$29.95	\$22.00
<b>RADIOS BY HALLICRAFTERS, revised 2nd edition</b> Dachis, 1999 values, 220 pgs, 1000+ pics, id's, history	\$29.95	\$22.00
<b>CLASSIC TVS, PRE-WAR THRU 1950S</b> 86 pgs, color & b/w pics, descriptions, etc.	\$18.95	\$15.00
<b><u>Machine Age to Jet Age, Radiomania's Table Radio Guide 'III, '33-'62</u></b> Stein, 256 pgs, 100's of b/w photos	\$29.95	\$24.50
<b>TRANSISTOR RADIOS, 1954 TO 1969</b> Norman Smith, with prices, 160 pgs, 1000 photos, 1998	\$29.95	\$22.00
<b>PHILCO RADIO: 1928 - 1942</b> Ramires & Prosisé, 160 pgs, 828 pics & drawings, 1993	\$29.95	\$22.00
<b>RADIO AND TV PREMIUMS</b> Jim Harmon, 256 pgs, 200+ photos, 1997	\$24.95	\$19.00

<b>RADIO MANUFACTURES OF THE 1920'S VOL I</b> Alan Douglas, 225 pgs, 1988	\$24.95	\$19.00
<b>RADIO MANUFACTURES OF THE 1920'S VOL II</b> Alan Douglas, 266 pgs, 1989	\$29.95	\$22.00
<b>RADIO MANUFACTURES OF THE 1920'S VOL III</b> Alan Douglas, 285 pgs, 1991	\$29.95	\$22.00
<b>CRYSTAL CLEAR VOL 1</b> Maurice Sievers, 282 pgs, 1991	\$29.95	\$22.00
<b>CRYSTAL CLEAR VOL 2</b> Maurice Sievers, 252 pgs, 1995	\$29.95	\$22.00
<b>RADIO TUBES AND BOXES OF THE 1920'S</b> George A Fathauer, 112 pgs, 1999	\$26.95	\$20.00
<b>70 YEARS OF TUBES AND VALVES, 2ND EDITION</b> John Stokes, 264 pgs, 1997	\$29.95	\$22.00
<b>RADIO DIAGRAM SOURCEBOOK</b> Richard Gray, 264 pgs, 1996	\$18.95	\$15.00
<b>THE RADIO COLLECTOR'S DIRECTORY AND PRICE GUIDE, 2ND ED.</b> Robert Grinder, 524 pgs, 1995	\$26.95	\$21.00
<b>COLLECTOR'S GUIDE TO VINTAGE TELEVISION</b> Durbal & Glenn Bubenneimer, 200 pgs, 1999	\$15.95	\$13.00
<b>NOVELTY RADIOS, VOLUME 1</b> Marty Bunis & Robert Breed, 223 pgs, 1995	\$18.95	\$15.00
<b>NOVELTY RADIOS, VOLUME 2</b> Mary Bunis & Robert Breed, 199 pgs, 1999	\$19.95	\$15.00
<b>COMPLETE PRICE GUIDE TO ANTIQUE RADIOS: PRE-WAR CONSOLES</b> Mark Stein, 235 pgs, 100's of b/w photos	\$29.95	\$22.00
<b>TUBE TESTERS AND CLASSIC ELECTRONIC TEST GEAR</b> Alan Douglas, 166 pgs, 2000	\$25.95	\$19.50
<b>COLLECTOR'S VACUUM TUBE HANDBOOK, VOLUME I</b> Robert T. Millard, 196 pgs, 2001	\$25.95	\$19.50
<b>THE PLATING MAN'S ELECTROPLATING MANUAL, 2ND EDITION</b> Don Culver, 38 pgs, 2000	-----	\$10.00
<b>TUBE DATA ON CD ROM</b> Holm, 27,000+ tubes, for Windows 95/98	\$39.95	\$28.00
<b>SILVERTONE ANTIQUE RADIOS 1930 - 1942</b> Stein, 239 pgs, 2001	\$34.95	\$25.50
<b>ANTIQUA RADIOS COLLECTOR'S GUIDE 5th EDITION</b> John Slusser, 264 pgs, 2001	\$19.95	\$15.00

<b>CLASSIC CONES</b> Chidester	\$25.95	\$19.50
<b>TUBE LORE</b> Siblay	\$29.00	\$15.00
<b>ARTHUR COLLINS</b> Ben Stearns	-----	\$14.00
<b>MACHINE AGE TO JET AGE - VOLUME I</b> Stein, 256 Pgs, 1998	\$24.95	\$21.00
<b>MACHINE AGE TO JET AGE - VOLUME II</b> Stein, 358 Pgs, 1997	\$28.95	\$23.00
<b>U.S. SCOUT COLLECTABLES</b> George Cubaj, 323 Pgs, 1999	\$24.95	\$19.00

## The Colorado Radio Collectors Club Mourns the "loss" of Lys Carey

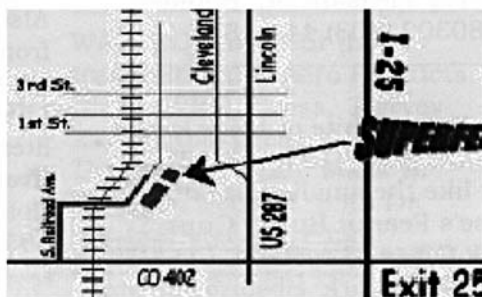
CRC member and "former ARRL Rocky Mountain Division Director Lys Carey, K0PGM, of Lakewood, Colorado, died May 14. He was 77. An ARRL Life Member, Carey served as Vice Director in 1970 and 1980, Director from 1981-1986 and was elected Rocky Mountain Division Amateur of the Year in 1986. He was serving as an assistant director at the time of his death. During his tenure on the ARRL Board, he was chairman of its Membership Affairs (1983) and Membership Services Committees (1986). In addition to his ARRL positions, Carey was past deputy director of Air Force MARS, a member of the Board of Directors for Denver Civil Defense and chairman of the electricity/electronics advisory board for Denver public schools. Carey's wife, Virginia, N0MUT, is among his survivors."

Source:

The ARRL Letter Vol. 21, No. 21 May 24, 2002

**Up-Coming Hamfest!**  
**Saturday, July 20, 2002**  
**Doors open at 8am!** Larimer  
 County Fairgrounds  
 McMillian Building  
 710 S. Railroad Ave  
 Loveland Colorado

<http://www.radioactivehams.com/superfest>



# "The Open Trunk" Classified Advertisements

◆ See IFC for ad details ◆

FOR SALE: AC Line cords, 18 gauge, 8ft. long, non-polarized 50/\$25 or 300/\$100. **Bob Slagle**, PO Box 7203, Colorado Springs, CO 80933 (719) 635-6208

WANTED: The female power (battery) plug for a Kemper portable K-52. Similar to octal except has 7 pins and two round locating pins (edge and center). w Knobs for a Crosley 601 bandbox.

**Mark McKeown**, (303) 278-3908  
mmckeown@tde.com

WANTED: Stewart-Warner model R-123 chassis, used in receiver models 1231 to 1239 (see Riders volume 6 page 6-2 for picture of chassis). w Chassis for AK 217, and Majestic 371.

**Jerry Tynan**, (303) 642-0553  
jtynan@worldnet.att.net

WANTED: GE clock radios, models 935 & 936. **Tom Kelley**, 971-1/2 Pleasant St., Boulder, CO 80302 (303) 444-1837

WANTED: White or beige knobs for a GE 401, 410 or 411. They look like the smaller size of Reese's Peanut Butter Cups.

**Mark Gibson** Loveland, CO (970) 593-3032, mark\_gibson@hp.com

FOR SALE: Copper Rod, several diameters available to make your own soldering iron tips (or I can for you). w Radio repair and restoration service. **David Boyle**, 1058 Colt Cir., Castle Rock, CO 80104 (303) 681-3258

WANTED: Novelty **tube** radios, such as books, horses, lamps houses, kegs etc. **Ray Windrix**, 617 N. Murray Bl., Colorado Springs CO 80915, (719) 597-5098 or (719) 596-7196

WANTED: Old horn speaker parts, drivers and incomplete units. Also, old light bulbs with tip and good filaments. **Charles Combs**, 508 E. Daniel St., Albany MO 64402 phone/fax (660) 726-3038

WANTED: Old Radio magazines for my research library in Antique Radio. Need pubs like Radio Design, Radio Age, and Radio Craft -1920's thru 1940's. Will provide home, or purchase singles or full sets at a fair price. Also interested in publications from various companies; Aerovox, RCA, Sylvania, Bell Labs, etc. Likewise, need old test equipment literature and manuals. **Charles Brett** 5980 Old Ranch Rd., Colorado Springs CO 80908 (303) 495-8660

WANTED: Novelty radios:  
Pink Panther - WB-122, w Mr. &  
Mrs. "T" Boody Mary Mix -  
BB-106, w Spam Radio - BB-77,  
w Bikini Girl - BB-243, w  
Blinking Cat - BB-244, w  
Good/Bad News - BB-261, w  
Fiddler on the Roof - BB-366, w  
Minizoo, Snow White - BB-429, w  
Gun Beam Radio - BB-522, w  
Allied Chemical Building Radio -  
BB -598, w Helmet Radios, NY  
Giants, NY Jets, Philadelphia  
Eagles, New Orleans Saints, San  
Francisco 49'ers, Atlanta Falcons.  
**Ron Smith**, 145 Carr St.,  
Lakewood CO 80226, (303)  
274-7522

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WANTED: "Heavy metal" radios,  
accessories & literature.  
Communications gear from  
manufacturers such as  
Hallicrafters, Hammarlund,  
Collins, National, etc. Also Allied  
Radio/Knight-Kits and anything  
related to telegraphy. Cash or  
trade. **Robert Baumann**  
303-988-2089 [rgbdenver@att.net](mailto:rgbdenver@att.net).

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FOR SALE: 2 TRF radios - brands  
unknown. One is complete and in  
very good condition, the other is  
missing the top but otherwise  
appears complete. Both for \$120.  
**Bob Schineller**, (303) 682-1749  
[rgschin@aol.com](mailto:rgschin@aol.com)

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WANTED: Hoffman Nugget pencil  
tube pocket radio  
w Japanese WWII morale  
receiver. Will pay your price..  
**John A. Miner**, (303) 759-9152  
[hohum@qwest.net](mailto:hohum@qwest.net)

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WANTED: KLH model 8 receiver  
with or without the matching

speaker. w Parts for 1934 Zenith  
880 console (835, 880, 881 parts  
will work): dial glass, black Z  
pointer, knobs (round wood, no  
Z), 5 tube shields. w Also, plastic  
dial strip (with frequency) for  
Philco 89 and 19 with separate  
shortwave band (late version)  
**William Hinkley** at (303)  
730-8539, [philcobill@aol.com](mailto:philcobill@aol.com).

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FOR SALE: Zenith console  
cabinet only, 10S669, faux finish  
bad, wood ok, \$25

WANTED: parts for 1934 Zenith  
880 console (or 835, 880, 881);  
dial glass, black Z pointer, knobs  
(round wood, without the Z), tube  
shields (5). Also need plastic dial  
strip (with frequency) for Philco  
89 and 19 with separate  
shortwave band (late version).  
**Dan Buseti**, (719)473-2443,  
[menwagoh@msn.com](mailto:menwagoh@msn.com)

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WANTED: Super Heterodyne  
radios (any condition), literature,  
books, and parts prior to 1930.  
Writing a book on the subject.  
Thanks!

**Rick Ammon**, 2518 Wyandotte  
Drive, Fort Collins, CO  
80526-1462, or  
"oldradios2@attbi.com" or 970/  
221-4001.

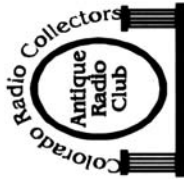
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WANTED: Amateur (ham)  
transmitters by Aero Products,  
Globe (WRL), Gross, Harvey  
Radio Labs, Leeds, Stancor,  
Thordarson, Utah. **Mark B.  
Dittmar**, 8651 W. 95th Dr,  
Westminster CO, email:  
[dittmar@bwn.net](mailto:dittmar@bwn.net), (303) 403 0669

*Colorado Radio Collectors*

*Antique Radio Club*

417 South Queen Cir.

Lakewood, CO 80226



**FIRST CLASS**

The July meeting will be held on Sunday the 20h at 1:00pm, at the  
**Wings Over The Rockies Air & Space Museum**, 7711 East Academy  
Boulevard, Denver, CO (See page XX for details !!!)