

HIS Y()IJR 5 ISSUE

ALL DUES ARE PAYABLE IMMEDIATELY!!

ANNUALLY DUE ON JUNE 1ST

New club policies mandate that this is your last issue of the **FLASH**!! if your dues are not received by the annual renewal date of June 1st. Please get payment to CRC Treasurer today!

ECHOES OF THE WORLD

Echophone Special \$85.00

Manufactured by The Radio Shop at Sunnyvale Licensed under Armstrong Pat. No. 1,113,149

No single feature in Radio has attracted the marked interest that the ECHOPHONE IN TERCHANGEABLE UNIT has during the past vacation months. To be able to remove from a beautiful home cabinet set the panel of selected, flawless formica mounted with all the controls necessary for perfect radio reception, and slip into a rough postable cabinet for the

into a rough portable cabinet for the automobile or hunting lodge, has placed the ECHO-PHONE foremost in the hearts of radio enthusiasts.

ECHOPHONE SPECIAL, the ideal set for use with any make of loud speaker, is made up of the Interchangeable Unit contained in a



beautifully decorated mahogany cabinet constructed to hold both batteries and accessories.

ECHOPHONE STANDARD, which sells for \$75.00, is a narrower cabinet set containing the Interchangeable Unit, but without sufficient capacity to hold the batteries.

The complete ECHOPHONE

line contains radio receiving sets ranging in price from \$35.00 to \$198.00.

In all ECHOPHONE sets the same scientific skill has accomplished the elimination of distortion and body capacity effects. Special circuit arrangement makes only two controls necessary, which, with the Vernier, make operation simple and insure perfect tuning.

DEALERS: Write for the ECHOPHONE proposition TODAY

For further information, descriptive literature, illustrated folder or particulars address our nearest branch office

THE RADIO SHOP

General offices and factory, Sunnyvale, California

Branch offices:

Ideal Building Denver, Colo. 1926 Chestnut St. St. Louis, Mo. 131-133 Eighth St. San Francisco, Calif. 914 Flower St. Los Angeles, Calif. 6 North Michigan Ave. Chicago, Ill.

Note page eighteen of our last issue and the Denver address on the ad above Radio News ♦ October 1923

THE COLLECTIONS

Steve & Chris Ralston...

Ralston Brothers Antiques recently celebrated twenty years in business and in the same location, the historical 1884 Lyons' General Store. If you haven't visited Steve and Chris' unique shop, you've missed a nice journey into the past, surrounded by marvelous radios, phonographs, and jukeboxes as well as numerous antiques and old books.

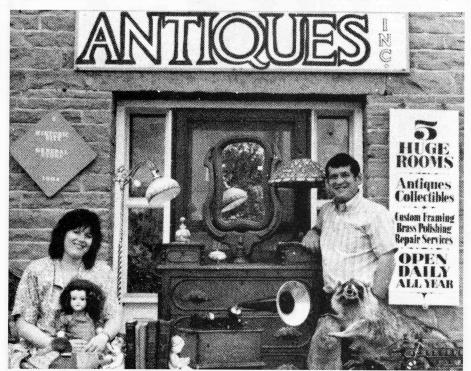
Mountain States Collector, a regional collector's tabloid for March 1994, put

it into these terms:

"Radio buffs will absolutely want to check out this inventory. All radios are in original working condition and have been reconditioned to the point that they look brand new. "In order to accommodate authentic radio repair, Steve has floor-to-ceiling shelves full of schematic manuals from 1914! There are volumes that illustrate and diagram every radio built between 1926 and 1954. This extensive library is certainly one of the secret ingredients for the success Ralston Brothers Antiques has enjoyed in the radio repair and restoration business.

"Another impressive element of the repair venture is the volume of parts on hand. Since many of the parts and tubes used during the so-called Golden Age of Radio are not made today, it is crucial to offer an inventory of good condition original pieces. Steve's meticulous attention to detail is not wasted on radio buffs. One man, an out-of-state customer, managed to contact him again after finding an

(Continued on page 17 ——)



CRC members Chris and Steve Ralston with a couple of friends!

Our Sixth.... Giant Success!!

Move over Christmas! For six years now, April is one of the most fun months of the year! The reason? Simply...the CRC Annual Show & Sale!

As the pictures on pages 12 and 13 in this issue attest, nearly seventy radios, big and small, were magnificently displayed at the National Western Complex in Denver. As has been the tradition at the end of April, CRC members dust off their favorites and their winter restoration projects and proudly present them to the world.

The activities were typical, yet provided us with one of the best varieties of radios in years. Every category had entries for the contest. Dealer displays yielded some quick sales and good bargains! Even the dealers in the adjacent antique flea market brought out numerous sets of all kinds with a bunch passing into new hands.

There were a lot of those attending the market who saw the show and asked members about the value of certain sets they had stored away in closets at home. Some showed interest in joining the club and several did.

The true test came with the presentation of ribbons. Pages 10 and 11 will give you an idea of the diversity of sets displayed and the lucky winners. As is the tradition, also, the top three honors were awarded at the CRC Annual Show dinner Saturday evening.

Twenty-six members and spouses attended the dinner. Those who were from out-of-state were introduced with attention given to the miles driven to support the Show. They included Mr. & Mrs. Everett Hoard of North Dakota, who set up a display to sell replacement capacitors, Mr. & Mrs. Bill Schultz now of New Mexico, and Mr. Bob Jensen of Alliance, Nebraska Dr. Curtis kimball trailered from Sterling (Colorado) a gorgeous 1928 Heraldyne Dropleaf console and a rare 1924 RCA Radiola 160 superhet phono-panel in a Brunswick lowboy. These sets were big hits at the show!

CRC'ers are thinking of next year's show already, wondering what in their collections might get Best Of Show or Best Restoration. We shall see! - Editor -

FLASH FEATURES

REGULAR FEATURES

		16 & 17
		18
		ngInsert
		Insert
		Insert

REGULAR NOTICES

Contributors	
Deadline Dates	
Dues Notice / Dues Information	
General Mailing Address	
Meeting Location	

Contributors...Thanks!

Russ Connell
Chris & Steve Ralston
Vic Smith, Dan Busetti
David Tripe, David Boyle,
Leamon Brooks, Larry Weide
William Hinkley, Robert Bauman,
Kenneth Miller, Gerald V. Koelmel

We sincerely thank C.R.C member Lonnie Smith and his Denver company

PRESSWORKS

for providing us with a professionally printed newsletter, the FLASHII

A. K. 82 **BASKETCASE CHALLENGE**

By David Boyle - Part 3 of 3

In the last two issues of the FLASHII, David warned us about buying via the mail and reported about an Atwater Kent in serious need of restoration. He sighted split seams, loose veneer, and rust on nearly every part of the chassis which lead us to his detailed mechanical and electrical restoration procedures. In this final installment, David shows us why his restoration projects are always Blue Ribbon winners!

Underchassis electrical repair and restoration process sequences that were applied to this AK82 are outlined below:

Power supply, both primary and secondary sides

Filament circuit

Audio output, including detector and first audio stages

4) Intermediate frequency amplifier ci4rfcuits
5) Oscillator and RF front end circuits, incl Oscillator and RF front end circuits, including underchassis adjustment trimmer capacitors and RF coils up to the antenna input

1) Power Supply. In part two (March 1994) we addressed the restoration of the power transformer. This was reinstalled and hooked up. Rubber insulated wire that showed insulation deterioration was replaced (typical AK of this era!) My philosophy on AC set restoration allows for extreme liberties (artistic license) for underchassis work. Above chassis should replicate original "visuals". However, above all we want these radios to work and be safe and reliable. Always keep the original filter capacitor cans. Just simply disconnect from circuit, then clean and polish the can. On the old copper-plated cans (early Philco, etc.) I coat the polished copper with clear laquer spray paint to preserve the polished copper look. I don't want to have to restore these radios again in sixty years!

2) At this point you may want to apply power; leaving the rectifier tube out. Verify proper AC voltages including those to the filament circuit (2). I have a small tapered round metal file I use to stick through each tube socket hole and clean the

tube socket contacts. ' This is a good time to do this. You don't want to experience voltage drop, especially in the 2.5 volt filament circuits. Don't forget the speaker socket.

3) In the audio output and detector circuits I replaced the complying capacitors, checked the various resistors, and replaced out-of-



PHOTO 11



PHOTO 12

Completed underchassis wiring, preservation, & new parts

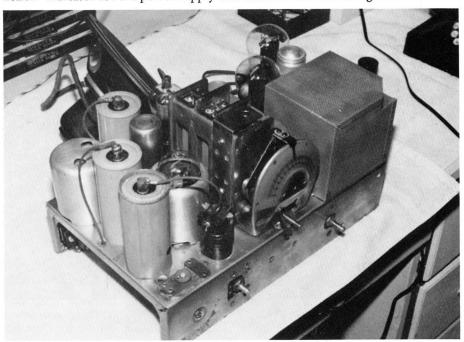
tolerance or "suspicious" looking ones. The wiring insulation was "repaired" by coating with *Q.Dope*. Any clear vinyl or polyester coating are acceptable. You could even get some polyurethane P. C. board conformal coating. This will restore electrical insulation integrity and also preserve what's left of the wire insulation.

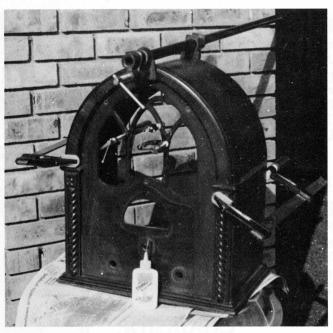
4) Other than replacing or preserving wiring the only note worthy item was the attempted repair of several inter-circuit RF chokes. AK used to love these little dudes! They can be rewound if they are a single choke coil. But better yet, I just by-pass them with a resistor of the equivalent D.C. resistance. The refurbishment of the IF transformer was accomplished in part two of this series. I would like to mention that the IF frequency alignment of the transformer was set by the factory and sealed in the IF can. No access was possible for services and adjustment in the field. Evidently, AK had confidence in their tuned circuit elements not to change with age and environment. Sixty years later IF transformer "packing" may be required. While the IF transformer guts were out of the aluminum can, I drilled holes in the top of the can corresponding to where the trimmer adjustment screws are located. Photo 13 happens to show the 2 holes in the IF can (left rear on chassis). After final IF alignment using a signal generator and output meter, I "sealed" the access holes with "homemade" rubber plugs.

5) Several trimmer condensers were entirely decomposed and I rebuilt them using some miscellaneous copper washers I had along with sheet vinyl to emulate the original mica dielectric. I had to drill out the chassis attaching rivets. I replaced the rivets with 4-40 machine screws. I now have a stock of various sized

brass rivets.

Once all circuits were individually restored and repaired, I slowly brought life back into the radio. Photo 11 shows tubes populating the chassis for power supply and filament circuit checks. Shortly after this, I completed the cleaning and polishing of the chassis top side and reinstalled the timing condenser and drive mechanism. Next step was to hook up the separately restored speaker and interconnecting cable, the antenna, and then reapply power (slowly - using the variac). I always monitor DC voltage on the audio output tube plate. A "good health" indicator for the power supply and audio circuits including the field coil in





the speaker and the audio output transformer. It works! I let it operate for a while... maybe up to an hour while I watched for circuit component overheating. This also drives moisture out of the coils and trimmer condensers and affords some stability to all active components. Now you can align all stages for optimum performance.

Photo 12 shows completed underchassis wiring, preservation, new parts, etc. I also used spot tie cord (judiciously) to bundle up some of the wires as was originally done on

many old radios.

Photo 13 is the completed *Basketcase Challenge* radio. Completely aligned and operated for several hours to gain confidence that operational reliability has been achieved.

This article is not intended to address cabinet restoration but a brief synopsis of this activity is as follows:

Completely separate the cabinet front (face) from the base and body (cathedral). Glued these sections back together. Photo 14 shows the clamping including small clamps on the speaker cut out where veneer was simultaneously repaired. Next was regluing base and side trim pieces. The inside of the cabinet was cleaned and restained to treat the mud and water damage. I cut out a piece of house roof flashing...galvanized sheet steel for a new heat shield between the chassis and floor of the cabinet. Conventional restripping and finishing followed.

Total hours exceeded forty and restoration cost (parts & supplies) was approximately \$15.00. It is now a beautiful addition to my "museum". I entered it at our CRC show last month.

Finally, I hope I've given you all encouragement never to throw away those helpless looking ol' wrecks of radios. Our responsibility is to protect and preserve these relics, for not only us, but for the future.

P. S. You all know Nipper, "His Master's Voice", the RCA Radio Dog. Well, not too be out done, the inset on page six shows Zac, the Atwater Kent cat, my ever watchful workbench companion. What more could a man ask for... old radios and a pussy cat on the same bench.

Regards & Good Hunting, Dave Boyle

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ACCESSORIES

2nd Montgomery Wards First 1st Early Receiving Transformer (1915) Sarney Wooters

3rd Atwater Kent Lamp Radio Catalogue (1922) Jerry Tynan Oan Busett

ART DECO

2nd *Emerson AU190* (1938) 3rd Philco 49-501 (1949) 1st GE L-574 (1941) ohnny Johnson Dave Wanner Jerry Tynan

BAKELITE

1st Admiral 990 (1938) 2nd Stromberg Carlson 3rd RCA 65X2 (1946) Dave Wanner 1500-H (40's) Bruce Young erry Tynan

BATTERY SET

1st Crescentyne (Circa 1924) **2nd** Amrad 3500-1 (1923) 3rd Kennedy 30-XXX eamon Brooks Type 435 (1925) PRIOR TO 1930) Bob Jensen Riggs Smith

BREADBOX

1st Stromberg Carlson Riggs Smith 635 (1928)

SHOW and SWAP MEET C.R.C.'s 6th ANNUAL

CATHEDRAL

1st Atwater Kent 246 (1933) 2nd Gloritone 26 (1931) 3rd Aztec (1932) Otis Chartier Riggs Smith Dave Boyle

CHAIRSIDE

1st Zenith 6-S-147 (1937) Dave Wanner

CONSOLE

Philco 41-300 (1941) 1st Philco 91 (1933) Sarney Wooters FULL LENGTH) Curtis Kimball

CONSOLE

1st Heraldyne Dropleaf Curtis Kimball HI/LO BOY) 1928

CONSOLE

(Zenith, Scott, etc)) Zenith 6S152 (191937) Curtis Kimball 1st

CRYSTAL SET

lst Marvel (1922) Leamon Brooks

B #S

 $Philco\,37-690$ (1937)

Barrney Wooters

(see front cover)

N.C.S. (0) (%) (1) (1) Atwater Kent 246

(683)

& his cat, Zac Dave Boyle

People's

Crescentyne (4761.924)Solo Bersen

METAL CASE

lst Temple G418 (1947 Riggs Smith

NOVELTY

2nd Xonex Repro st Xonex Repro TRANSISTOR) Bruce Young Bruce Young Otis Chartier Majestic (90s) Addison (90s) 3rd Isis 20-1

NOVELTY

2nd Metz Beer Bottle (40's) Colonial Globe (1933) ohnny Johnson **Lonnie Smith**

PORTABLE

2nd RCA Řadiola 24 (1924) 1st RCA Radiola II (1923) Sarney Wooters Leamon Brooks PRE 1926)

PORTABLE

1st Motorola 68L11 (1948) 3rd RCA BP-10 (1940) 2nd Fada PBO (1947) Dick Hagrman Otis Chartier POST 1925

Dave Wanner

SPEAKER

2nd Trimm "Home" (1924) 1st Radiola Speaker Stand 3rd DictoGrand (1924) erry Tynan (Circa 1926) Bob Jensen

Leamon Brooks

SPECIALTY BRAND st Model 37-690 (1937) 2nd Model 70 (1931) "PHILCO" Barney Wooters Dave Boyle

3rd Model 21 (1931)

Dave Boyle

TOMBSTONE 3rd Philco 66 (1934) 1st RCA 97 (1936) Leamon Brooks 2nd Majestic 15 Bruce Young

TRANSISTOR

Bruce Young

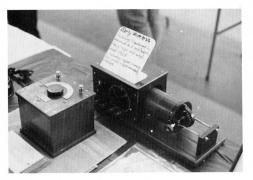
2nd Traveler TR 285 (1959) 1st Zenith Royal 555 Solar Charger (1955) Jerry Tynan Jerry Tynan

3rd Emerson Atlas 888 (1958) Steve Axelson

WOODEN - AC

3rd Zenith 10S531 (1941) 1st Crosley 173 (1934) 2nd Philco 37-604 Dave Wanner erry Tynan

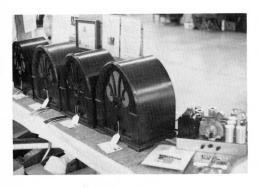
C. R. C. SIXTH ANNUAL SHOW





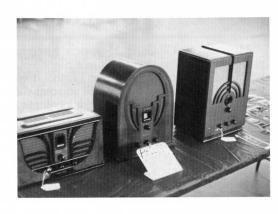




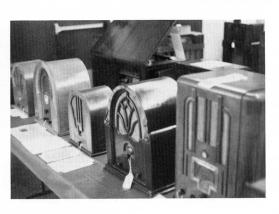




C. R. C. SIXTH ANNUAL SHOW







The Scrounge Box

A Continuing Restoration Column

By Larry Weide, C.R.C. Treasurer

Hi... all you CRCers! Hey, how often have you restored or cleaned up an old radio only to find there was one piece you just couldn't bring back to life...the bezel. It's either corroded or it's finish is worn away from being rubbed for years by fingers twisting away at those adjacent tuning knobs. It's not common to find a radio that was manufactured with a colored enamel or lacquer coated bezel. These parts were normally chemically coated in order to obtain the distinctive "antique" look. So, I did some research and came across information on how to obtain a number of different chemical colorings for the metal stampings that comprise most radio bezels and other parts, too.

To begin, there's one word that has to be constantly on your mind if you're seriously thinking about doing this kind of refinishing work: SAFETY, SAFETY, SAFETY. Some of these chemicals are caustic and irritating. You MUST work in a well ventilated area and with appropriate protective clothing and eye covering. Any containers you use must be capable of being completely cleaned after use or are disposable. Finally, you need to work in an area were spills, fumes and/or

other contaminations will not be a problem.

A word (4 words) about chemical supplies. You're on your own. Most good size cities have chemical supply houses. Some materials can be obtained through photographic and large hobby supply stores. However, parts is parts. That is, most other items you'll need will be found in your own shop or the local hardware store.

The first step in coloring a metal piece is that the piece be made free of it's old finish and be scrupulously clean. One of the biggest problems for bezels is that their stamped designs have hard to reach inside edges and creases. So, simple steel wooling or rubbing with pumice might not get the piece entirely stripped and clean. You can try a soft buffing wheel and/or a warm bath of TSP cleaning solution scrubbed on with a tooth brush. If you'll remember, Dave Boyle gets good results by soaking parts in dish washer soap overnight. My source material says any existing or remaining oxide finish can be removed with a pickle bath. Their common pickling bath is 10 parts water to one part sulphuric acid. Remember your high school chem lab...always pour the acid slowly into the water. NOT the other way! ("Do what you oughtter, pour acid to water!" Ed.)

It's also important to look closely at the finish of the cleaned part. If you want a matte finish on the colored surface, then the piece itself must have a matte finish. If there was some corrosion, which caused a crusty looking spot, then this spot will

show up in the finish as well if it's not taken off.

A little farther down this article I make mention of "scratch brushing". This is nothing more than rubbing the finish with fine '0000' steel wool, a brass brush or greaseless polishing compound to give the piece an antique look. The idea is to remove some of the finish, sometimes with a brushed look, so the upper surfaces of the stamping appear to have highlights. Usually this is technique is done while the piece is wet. One reference talked about a metalsmith who used beer(!). Did I miss the point?

In any case, the surface of the cleaned and ready piece should not be touched and it should be colored immediately after being prepared to avoid further oxidation. You may also want to consider techniques like spraying the final surface with a matte or semi-gloss lacquer or applying a paste waxing to seal to create the desired

patina on your finished work.

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Okay, onto the coloring techniques. The one thing the sources harp on is that, because of variables like temperature, concentrations of solutions, alloy types, timing and other factors, results will likely vary. This means you'll probably want to do some experimenting, on a test piece, in order to determine your technique for the desired results. One other note...the following formulas are for brass and copper. If you have a bezel or some other part made of another metal alloy, then you'll probably need to have it lightly plated with brass or copper to get the desired results.

The following formula is for copper only:

Color: Bronzing (Antiquing)

Material: Copper sulphate 400 grains, Water 2 ounces Process: Immerse piece in warm solution two or three times. Scratch brush between immersions. Color will vary depending on copper purity.

The following formulas are for copper or brass:

Color: Brown

Material: Liver of Sulphur 2 - 3 ounces

Process: Dissolve solid salt in water to produce a deep yellow color. Immerse the metal and circulate. Inspect frequently for color density and evenness. Wash in hot water to stop action.

Color: Black

Material: Liver of Sulphur 2 ounces, Aqua Ammonia 1/4 ounce, Water 1 gallon.

Process: Use at room temperature. May be applied locally with a brush or as above.

Color: Bluish-Black

Material: Barium sulphide 10 grains, Water 5 ounces

Process: Use hot. Shading effects can be achieved by rubbing with fine greaseless polishing compound.

Color: Reddish-Brown

Material: Copper sulphate 120 grains, Water 1/2 pint, Red iron oxide 150 grains, Sodium nitrate small quantity

Process: Dissolve copper sulphate in boiling water. Neutralize with sodium nitrate. Add 150 grains of red iron oxide. Immerse piece until color change begins. Remove piece and heat on hotplate to deepen color. Repeat to enhance color.

Color: Antique Green

Material: Copper nitrate 4 Oz, Calcium carbonate 4 Oz, Ammonium chloride 4 Oz, Water 1 Gal

Process: Warm piece and solution. Stipple on piece with cloth or sponge. For variations, immerse in boiling water after color develops.

Color: Yellowish-Green

Material: Copper nitrate 48 grains, Ammonium chloride 48 grains, Calcium chloride 48 grains, Water 3 ounces Process: Apply with a brush and let dry. Repeat in three applications.

Color: Gold gilding

Material: Gold chloride 1-1/2 parts, Hydrogen potassium carbonate 60 parts, water 200 parts

The Open Trunk

Free!!

Grundig Console

Vic Smith

3864 Ash Avenue Loveland, CO 80538 303/ 667 • 1327

Wanted:

• Speaker for Zenith Model 9H081

Dave Tripe 1673 Macon Street Aurora, CO 80010 303/ 364 • 2812

Best Offer:

- Hallicrafters IG•18 Sine-Square Audio Generator w/Manual
- Hallicrafters IG•28 Color Bar & Dot Generator w/Manual
- Hallicrafters IG•57A TV Post-Marker/Sweep Generator w/ Manual

(Continued Below)

Wanted:

- Communications Receivers
- Hallicrafters SX•25
- Knight Kit "Ocean Hopper"

Robert Baumann 303/ 988 • 2089

[Robert's phone number was incorrectly listed in our last issue. This editor apologizes for any inconvenience.]

4 Sale:

• Old tubes: 01's, 26's, 27's, etc.

Leamon Brooks

10718 W. Marlowe Avenue Littleton, CO 80127 303/ 979 • 0331

4 Sale:

Unusual 1940 Zenith small console.

William Hinkley

9668F West Chatfield Avenue Littleton, CO 80123 303/ 933 • 8820

Wanted:

• The following old R.C.A. parts:

Condensers: UC1014 UC1015 UC1631 UC1632 UC1635 UC1803

Grid Leak: UP1719 Ammeter: UM530

- Riders Volumes 24, 25, 26, & 27
- Transistor radios in very good condition with "CD" marks ("▼") at 1240 Kc and 640 Kc.

Rick Ammon 303/ 224 • 5446 after 7pm

As A Member... Ads Are *FREE*!!

Wanted:

 Riders Volumes 6, 8, 11, & 12
 Willing to pay up to \$13.00 each or trade...what do you need?

Dan Busetti

P. O. Box 706 Bennett, CO 80102 303/ 398 • 8251

Wanted:

• Benrus table model radio

Vic Smith

3864 Ash Avenue Loveland, CO 80538 303/ 667 • 1327

COLLECTOR'S PRIDE

(CRC member Russ Connell provided us with this article about his newly acquired Apex. Thanks, Russ, for the accompanying picture, repair sales slip, and for supplying us with the Neutrodyne explanation from "Old Time Radio" by Joseph J. Carr. Editor)

This 1928 Apex 41 walnut highboy is one of the early A.C. sets. The TRF radio incorporates a Neutrodyne receiver which proved very stable, and for the first time, dial calibration had practical meaning. Apex radios were manufactured by the United States Radio and Television Corporation. (How many people knew

what the word "television" meant in 1928?)

The radio was licensed only for radio amateur, experimental, and broadcast reception under patents of the Radio Corporation of America, Hazeltine, and LaTour. The Neutrodyne design was patented by Professor Louis Hazeltine of the Stevens Institute of Technology improving stability when a small amount of degenerative, or negative, feedback is introduced to counter the regenerative, or positive, feedback that's part of the TRF circuit design.

This radio has good quality sound from the Utah speaker made in Salt Lake. The set was repaired by replacing two missing "45" power amplifier tubes and will require some cabinet refinishing to the solid walnut in order to put it into restored condition.

A copy of the sales check shows when this set was repaired in 1946 by Ace radio Service. The bill was a whopping \$4.85! A "45" tube then cost eighty cents and service and labor was just a buck! No wonder radio repair was a tough business.



ACE RADIO SERVICE

3734 TEJON ST. DENVER

SALES CHECK

DATE 6-27-46

NAME H.D. LOWE

ADDRESS 2989 GROVE

APEX 41-

FILTER

848 MFO - 450U-1-#\$570BE

SERVICE YLABOR 100

TAX TOTAL 485

ABOVE PARTS AND LABOR CARRY STANDARD 90 DAY GUARANTEE

Age Rudio

Official Journal of the

Colorado Radio Collectors

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

MEETING LOCATION

Unless otherwise noted in this Journal, beginning in January, meetings are held on the second Sunday of every other month (exception: third Sunday in May) at 1:00 PM at the South West Bank Building, Community Room, 1380 South Federal, Denver. A swap meet follows the meeting in the bank parking area.

C. R. C. OFFICERS

President:

Barney Wooters (303) 770 • 5314 Denver

Vice President:

Jerry Tynan Golden (303) 642 • 0553

Treasurer:

Larry Weide Englewood

(303) 758 • 8382

Journal Editor / Secretary:

Rick Ammon (303) 224 • 5446

All Dues Payable on June 1st

(Joining dues are prorated)

\$1200 Annually

Larry Weide 5270 East Nassau Englewood, Colorado 80110

Please do NOT make checks to CRC, rather to "Larry Welde, CRC Treasurer"

WANT ADS

AND

ARTICLES

Should be directed to the

M.P.R.C.A. Editor

1249 Solstice Lane

Fort Collins, CO 80525-1239

DEADLINE NOTES

It's the intention of this Editor to broadcast our journal bi-monthly just prior to the C.R.C. meetings. Articles about, and pictures of your treasures, are welcomed as are want - Sale ads and any letters or comments about our hobby. All materials used are the copyrighted © property of the Mountains 'N' Plains Radio Collectors Association.

Your Editor will put together articles about your best finds, restoration and electrical repair techniques, or your recollections and stories about radio. Just provide a handful of information in any form....and we'll put it together!

Our club can only succeed when we share our experiences, talents, needs, and adventures; you're being asked to contribute in whatever way you can. SHARE with us today!! Thank you!

DEADLANES

February 1 • April 1 • June 1 August 1 • October 1 • December 1

MINUTES OF THE MARCH CRC MEETING Via Vicki's Cryptic Notes

Barney Wooters has reprints of the original instruction sheets that came with the Philco 70 and 70A for just a buck to the club treasury. Dave Boyles has parts available for Philco radios and terminal clips are available at 10 for \$1.00.

Welcome back, Riggs! Bet you've got a beautiful grandchild. Enjoy!!

It was general consensus of the group that it's great to see all the talent in the club and so many willing to share it.

Agenda:

April - Annual Radio Show and Sale at the National Western Complex

July - Radio display at Belman Museum and Radio Club picnic

Larry Weide showed a floor plan of the Belman Museum where the club will provide the July 1994 display. He reported items turned over to the museum will be insured. They will be pre-examined for claim purposes and displayed in protected areas so no curious little (or big) fingers can cause problems.

The first of two quality displays will be in the Visitor's Center and will be an abbreviated show of four to six weeks with approximately a dozen items allowed.

The members decided a progression of eras would best represent radio manufacturing with a description given for each item. Volunteered, albeit timidly, provided enough room is made available by the museum, were (in no order):

AK Breadboard AK 55 Photo displays Philco Cathedral Tabletop Wireless Pieces

1953 GE Clock Radio

Crystal Sets
Crosley Pup
Loop Antenna
Zenith Console
Chrome Front Set
Catalin

Catalin 1940's Transoceanic Horn Speakers RCA IIIA AK Tombstone Cone/Tapestry Speakers Art Deco Mirror Set 1950's Crosley Plastic

Transistors Sets

From the Treasurer: "There are 12 members who need to pay 1993 dues!" Larry Weide stated. "If these dues are not paid up, the newsletter will be cut off and the discontinued member will NOT be able to participate in the April Show and Sale." Along with those members with unpaid dues, there are those who still need to pay the \$2.00 increase for 1993.

From the Editor: Rick Ammon reported the Nebraska Radio Club will decide at their April meeting if they, as a group, want to have the CRC editor supply them with a newsletter of the CRC's quality, providing a strong newsletter to their club and helping the CRC to lower the cost of publication.

A list of available back issues of the **FLA5HII** will be provided (in this issue-Editor). The club members showed an interest in passing out back issues which would promote the club, give us greater visibility, and bring in new members.

There was quite a comprehensive Show & Tell:

David Boyle:

Cone speaker

Superheterodyne with internal batteries and loop antenna

Tom Pouliot:

1924 Gilfillan Neutrodyne

Music Master mahogany horn speaker

Dave Gonsher:

Cone speaker - refinished. There was no name on the speaker and needs identification

Lee Bruton:

Desirable Zeniths: First 500 hand-wired transistor, a beige 500, Golden Triangle (This 3-sided deskset was an award to an individual in the '50s), a Solar set 555 (solar recharger), and 500H with oval speaker... considered by many as the best sounding transistor radio.

Rick Ammon:

1926 Tower miniature celluloid speaker found at a Ft. Collins flea market. (Several other members commented they saw it there, but didn't know for sure what it was.)

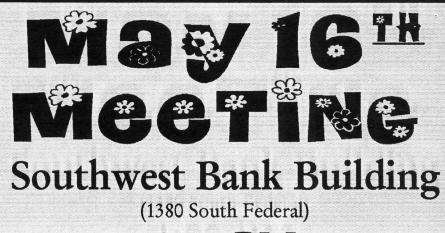
Barney Wooters:

Test equipment RACA signal generator

Kennedy Model 5 receiver Tube box with "L & L" logo

Variac & Isolation Transformer used for safety purposes in electrical restoration

There was very active swapping in the parking lot after the meeting! - Vicki



1:00 PM Community Room

(Downstairs)

Open Trunk Swap Session after the meeting

ON THE AIR

Barney Wooters,

My thanks to all of you who participated in the 1994 CRC Show and Sale at the Western Stock Show Complex. I do wish that more of you would have been there so that more of these good old radios could be seen. Some effort is required to do this...it's a little like work...but it's also lots of fun. Those of us there did quite a bit of "Show 'N' Tell". We were also able to answer questions for the many visitors ranging from "What's my radio worth?" to "Where can I find this type of tube?".

Once again, it was evident that lots of our members do good work in an effort to restore radios from Atwater

Kent to Zenith.

C.R.C. President

To all those who could not be there, please consider participating next year in an even bigger and better show.

Don't forget the CRC effort in July at the Belmar Historical Park in lakewood. Several members will have a variety of radios on display.

B. T. W.

(Late word from Larry Weide, CRC Treasurer, indicates an agreement has been struck with Belmar to hold our Annual Picnic in the Park! Saturday, July 23, will be a great time to involve our families with our hobby. More details at the next meeting. - Editor -)

IMPORTANT NOTICE

It was bound to happen. Our order to L & W Books got "confused"! If you've ordered a book, please see Vicki at the meeting. Thanks!

NEW MEMBERS

Andy Lagerstrom Nebraska City, NE

Kenneth Miller

Pittsburgh, PA

Kenneth Trow

Denver, CO

C. E. Besthold Littleton, CO

George F. Hamner, Jr Freeland, MI

> **Donald Lewis** Boulder, CO

Donald Klein

Ft. Collins, CO

Ray F. Kilcoyne Lakewood, CO

Charles Benson

Evergreen, CO

John Cranor

Colorado Springs, CO

Paul Hartmann

Golden, CO

John Jackson Parker, CO

Scrounge Box (Continued from page 14)

two hours.while solution turns yellow and then to green. Dip piece for 1/2 minute.

The following formulas are for brass only:

Color: Bronzing (Antiquing)

Material: Liver of Sulphur 1-1/2 tsp, TSP cleaning power 1 tbsp, Water 1 cup Process: Boil water and slowly stir in dry materials. immerse piece 2 - 5 seconds and inspect. Repeat for desired color. Rinse in cold water and scratch brush. Seal with lacquer or paste wax.

Color: Yellow to Bright Red

Material: Copper carbonate 2 parts, Caustic soda 1 part, Water 10 parts Process: Dip piece until the desired color appears, then wash.

Color: Blue

Material: Lead acetate 2-4 oz, Sodium thiosulphate 8 oz, Acetic acid 4 oz, Water 1 gallon @ 180 F.

Process: Immerse piece until desired colored is reached. Piece must be lacquered for permanence.

Color: Rose, Violet, Blue

Material: Sulphate of copper 435 grains, Hyposulphate of soda 300 grains, Cream of tartar 150 parts, Water 1 pint

Process: Immerse piece until desired colored is reached.

Color: Blue-Black

Material: Copper sulphate 2 oz, Ammonia small quantity, Water to dissolve sulphate

Process: Use enough water to dissolve the copper sulphate and precipitates. Neutralize with ammonia to slight alkalinity. Immerse piece in heated solution.

I would really be interested in hearing from anybody who tries some of these concoctions. What kind of results did you get? Does anyone know of some other metal refinishing formulas and techniques? And remember, if you're in the dog house because you turned your \$500 wedding ring black restoring a \$5 bezel, don't blame it on me!



Archives have provided a number of past issues of the FLASHII Due to the initial costs, \$2.00 (post-paid) is being asked per issue with all proceeds going to the treasury. This is an opportunity to complete your series and help the CRC. If you don't see a specific issue you might want, contact the editor.

....READILY AVAILABLE.....

May - June 1993 to present January - February 1993 March - April 1992 November - De cember 1992

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