



# The **FLASH!**

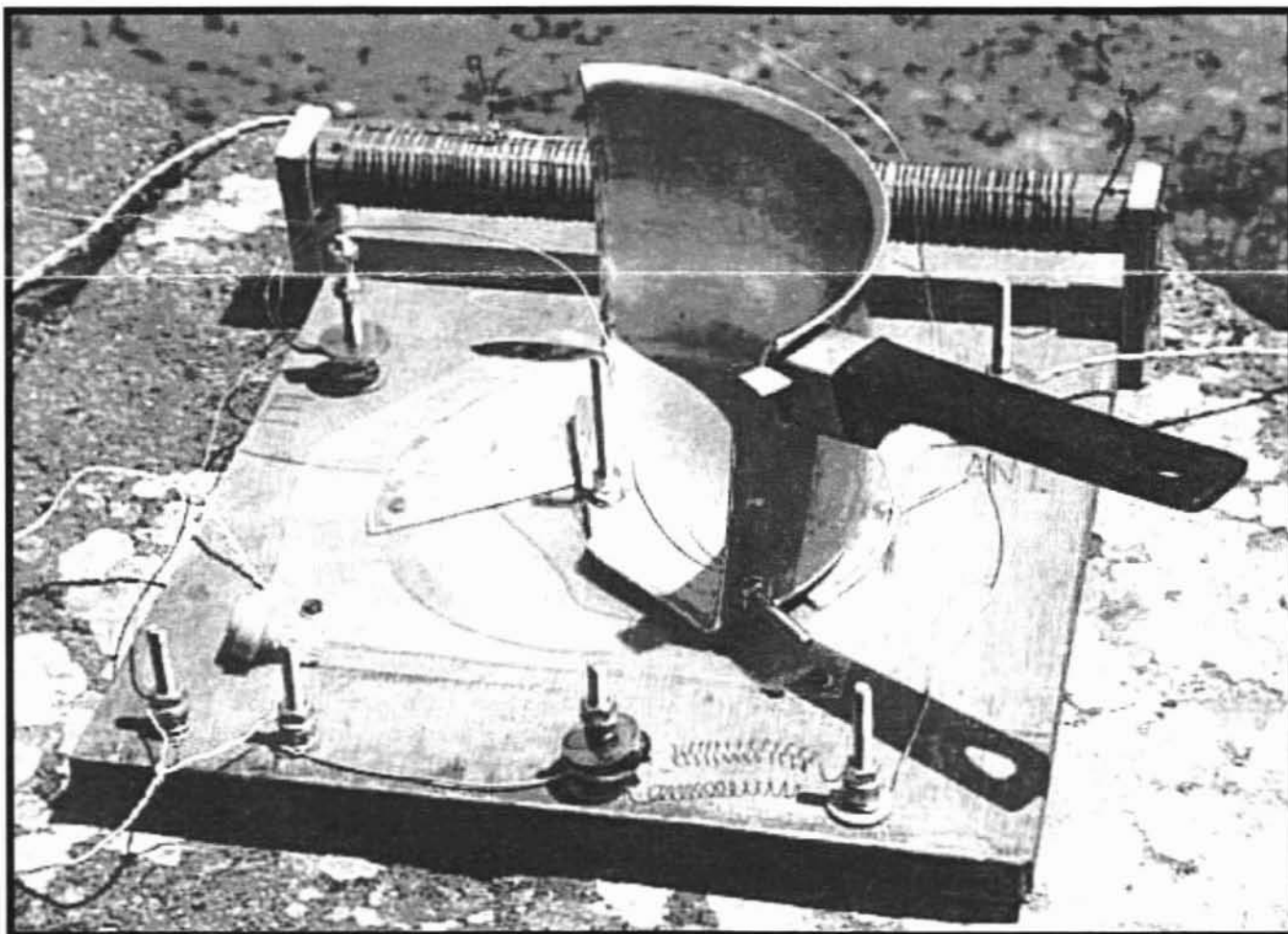


Dedicated to the Preservation and Education of Wireless, Radio, Television and Associated Equipment

Volume 14 / Issue 1

January / February 2003

## **NEW SHORT-WAVE CIRCUIT DEVELOPED; BUILT ON KITCHEN TABLE**



Next CRC Meeting...

**SUNDAY, JANUARY 12<sup>th</sup>**

Museum of the Americas - 863 Santa Fe (Between 8th and 9th Avenues) - 2nd Floor - 1:00 PM

# COLORADO RADIO COLLECTORS' ANTIQUE CLUB

Founded October 1988

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Volume 14 / Issue 1

January / February 2003

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## MESSAGE FROM THE PRESIDENT

Hello and Happy New Year to all CRC members from your new president.

The first order of business for 2003 is to thank Mark Dittmar for making 2002 a very successful year for the Colorado Radio Collectors, and to thank all members who take an active role in "running the club".

Change seems to be the norm for so much going on in the world and for the club, too. As we go through changes in publication of the FLASH, the April show, the Auction, and other events, the members always pitch in and get the job done. I look forward to working with the members to make 2003 yet another good year for our club.

My goal is to try to provide an enjoyable social and technical experience to all members and to meet the needs of why the members joined in the first place. I encourage all members to provide feedback, ideas, suggestions, and criticism, so that the officers and members can provide a good experience for all.

I look forward seeing everyone at the January meeting, and would like to start the January meeting on a good note with lots of good raffle items and an exceptional Show-and-Tell.

Dennis

## CRC OFFICERS 2002-2003

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OPEN

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## CRC MEMBERSHIP

Annual membership in the CRC runs from June to June. Annual dues entitles members to a full year (6 issues) of the club publication, "The Flash!".

Membership provides participation in club events such as the annual April show, mid-summer picnic, September auction as well as our semi-monthly meetings and swap meets.

Dues also entitle you to club officer elections, excellent discount prices on current hobby publications, the Antique Radio Classifieds annual subscription raffle, and allows you to submit For Sale/Want Ads in "The Flash!".

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



**6 TUBE AC-DC SUPER**

**YOU'LL** enjoy the convenience and luxury of perfected **TOUCH TUNING**—you'll be pleasantly surprised by the big-set tone quality provided—you'll be proud of the sleek gracefulness of the streamlined molded plastic case. And you'll be amazed by the unusually low price quoted for this excellent new Lafayette. Prove to yourself that it's all that it's claimed to be by trying one in your home for 30-days at our risk!

Four push-buttons, easily set from front panel, permit instant selection of any one of your four favorite stations. A matched electro-dynamic speaker insures faithful reproduction. The circuit employs 6 tubes, including the latest type "beam" power tube for distortionless output. Tubes used: 6A7, 6D6, 75, 25L6G, 25Z5 and 8M43B ballast. Tuning range covers the American broadcast band from 540 to 1740 kc. (172-556 meters).

**Model D-58, Walnut Case**

Lafayette 6-tube, a.c.-d.c. superhet in Walnut plastic case 12 $\frac{1}{2}$ "x6 $\frac{1}{2}$ "x6 $\frac{1}{2}$ ". With tubes. For 110 V., d.c. or a.c. (50-60 cyc.). Wt. 15 lbs. Code WBCDE. List \$32.90. **\$11.45**

**Model D-59 in Ivory Case**

As above, in Ivory case. Code WCDEF. List \$24.90. **\$12.45**  
YOUR COST .....  
For 220 volt adapter cord, add ..... 75c

**LAFAYETTE**



**PLUG IN ANYWHERE**

**5 TUBE AC SUPER**

**THE** ideal auxiliary radio for your home—or you can carry it with you on your trips, wherever you go. Model JA-7 is compact, lightweight, easy to "hook-up"—and it's capable of providing unusually fine entertainment. It performs equally well on either alternating or direct current, which means that there are never any "current" problems. Just plug it into the nearest electric outlet and it's ready to perform. And it's priced to fit the average budget—only Lafayette can offer you so fine a set at such a low price!

The highly efficient superheterodyne incorporates many worth while circuit features, including: powerful automatic volume control to minimize fading, "beam" power output to insure distortionless reception, matched electro-dynamic speaker to afford natural tone quality, extended tuning range to include interesting police calls.

The tube complement consists of: 1-6A7, 1-6D6, 1-6Q7G, 1-25L6G, 1-25Z5 and 1-8M43B ballast. Tuning range is from 182 to 556 meters. No outside aerial is required, since an efficient antenna is factory connected. Dial is of the full-vision type, fully calibrated and well illuminated.

**Model JA-7**

Lafayette 6-tube a.c.-d.c. superhet complete with tubes in handsome Walnut veneer cabinet 12 $\frac{1}{2}$ "x6 $\frac{1}{2}$ "x6 $\frac{1}{2}$ ". For 110 volts d.c. or a.c. (50-60 cycles). List Price \$21.90. **\$10.95**  
Shpg. wt. 15 lbs. Code ABCDT. YOUR COST .....  
For 220 volt adapter cord, add ..... 75c

**LAFAYETTE**



**DEPENDABILITY,** power, low cost—these are the prime features of this excellent 1939 Lafayette superhet. And you get new, refreshing beauty of design too. The exquisitely styled, durable plastic cabinet (your choice of either walnut or ivory) cannot fail to please. If you're in the market for a compact, handsome, efficient receiver, get yourself this superb Lafayette model. Don't forget, our liberal 30-day free trial offer is your iron-bound guarantee of complete satisfaction.

The powerful superhet circuit provides fully 2-watts of audio power (more than ample for any home) which is faithfully reproduced by a matched electro-dynamic speaker. You'll be pleased with the full, clear, natural tones. Tubes used are: 6A7, 6D6, 6Q7G, 41 and 80. Tuning range covers from 174 to 552 meters, covering the standard American broadcast plus entertaining police calls. Other circuit features include: automatic volume control to minimize fading, factory attached antenna, clock dial, oversized power transformer.

**Model C-39, Walnut Case**

Lafayette 5-tube a.c. superhet complete with tubes, in walnut plastic case 10 $\frac{1}{2}$ "x7 $\frac{1}{2}$ "x4 $\frac{1}{2}$ ". For operation on 110 volts, 60 cycles a.c. only. Shpg. wt. 14 lbs. Code GDIPO. List \$19.90. **\$9.95**

**Model C-41 in Ivory Case**

Same as above, in Ivory Plastic case. Code GEFGH. List \$23.50. **\$11.75**  
YOUR COST .....  
For 220 volt 50/60 cycle a.c. operation, add \$1.50  
Suede carrying case for above models ..... \$1.25

WHOLESALE RADIO SERVICE COMPANY, INC. 53

# THE ROUGH SCIENCE RADIO

The shortwave bands provide entertainment and news for millions (perhaps billions) of people around the world. One BBC estimate I heard claimed that 100 million short wave radios sets are in use around the world! Outlined below are plans to make a shortwave crystal set radio that (with a good antenna and earth connection) is capable of receiving stations from around the world.

Most Crystal Set radios are made to tune the medium wave frequencies because the signals are strong (giving good volume in headphones etc.) but also because the parts are relatively easy to make. For details of such a crystal set see the web site address at the end of this section. The radio we are going to describe here deals with a short wave crystal set that was built on location in Capraia for the BBC TV series Rough Science (used to pick up a time signal).

The radio is a little tricky to make and the results are further complicated because shortwave signals are prone to fading and also great changes in signal strength between night and day. One, therefore, needs a lot of patience to get it to work. It does work however - I promise !!

The radio will tune from about 4-8 MHz over the shortwave. These frequencies really come alive at night and it is possible to hear several foreign shortwave stations from around the world on this simple radio.

"Wayne G."

From [www.creative-science.org](http://www.creative-science.org)

## DOES ANYONE RECOGNIZE THIS COLORADO BRAND?

This radio and cabinet was seen on eBay recently. This writer was not aware of any such brand built in Greeley.

The Knight-Tilden Manufacturing Company used a Western Five tuned radio frequency radio with a built-in speaker driven by a Utah sound unit. The approximate date of construction would be 1926.

If you have any other information about this brand, please contact the CRC publishing staff.



Make this a  
**Radio Christmas**  
*Santa Claus*  
**Starts From Here!**

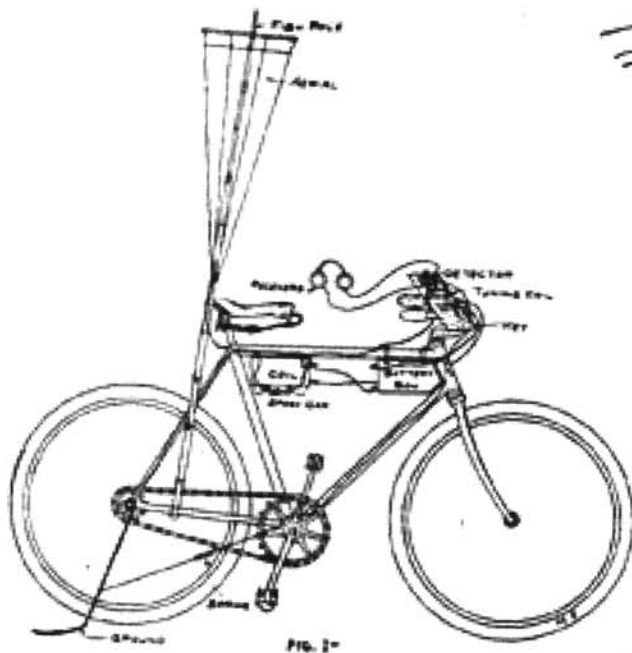
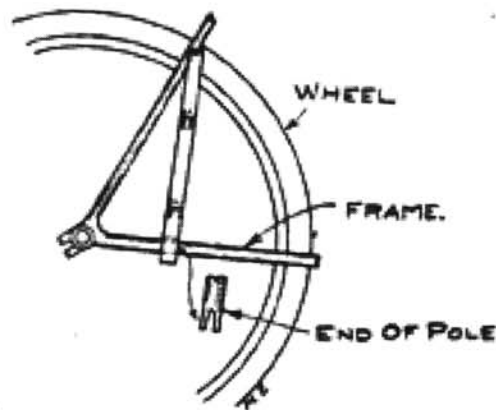


FIG. 1-



-FIG. 2-



-FIG. 4-

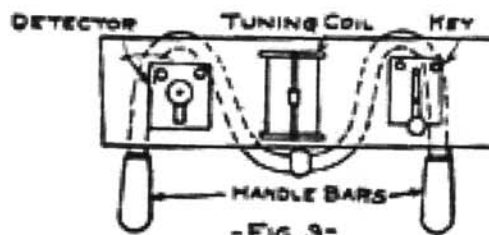
### HOW TO MAKE A BICYCLE WIRELESS OUTFIT.

Many amateur wireless operators who have bicycles and go out for a long ride with their friends, can attach their wireless outfit on their bicycle and carry on communication between each other.

To attach their wireless outfit to their bicycle, it should first be fastened on a board, about 8 inches by 2 feet. Before fastening the apparatus to the board small straps should be fastened on the bottom side of the board so as to keep the board on the handle bars. Only the receiving apparatus should be fastened to the board, as the sending apparatus can be fastened to another part of the bicycle. The spark gap should be fastened on top of the coil and the latter suspended upside down. A small box should be put over the spark gap so as to protect the rider from a shock. The coil and gap should then be fastened on the bar just below the seat. The batteries should be fastened on the bar below the handle bars. The coil and batteries should be fastened very tight so as to prevent them from shaking. The ground wire can be made as follows: Get a long piece of galvanized iron wire about 22 inches long by  $\frac{1}{4}$  inch thick, about 6 inches from one end bend it as shown in the diagram. The other end should be bent into a small hook and should be fastened under the nut of the back wheel.

About 5 inches from the bottom of the wire a rope should be fastened. This rope should have a spring attached to it as shown in the diagram. The other end of the rope should be fastened near the sprocket. The rope with the spring on it keeps the ground wire dragging along the ground so as to make contact with it.

For the aerial, a large fish pole about 15 feet long will do. On the bottom end of the pole a notch should be cut so as to fit in the bar near the back wheel as shown in the diagram. The pole should then be tied near the seat with some rope.



-FIG. 3-

The aerial wires can be fastened as shown in the sketch. No. 14 wire, rubber covered or Pirelli cable should be used in all the wiring. The key of the sending station should also be fastened on the board over the handle bars. A lot of fun can be had with an outfit like this, as one rider can ride ahead of the rest and can still carry on a conversation.

Contributed by  
WILLIAM DETTMER.

# BOOK REVIEW

## Tube Testers and Classic Electronic Test Gear

By Alan Douglas

Reviewed By Steve Touzalin

Divided into three parts, **Part I - Tube Testers** begins with an Introduction section which covers the difference between emission and mutual conductance testers as well as the benefits of each. Generic repair tips on panel meters and roll charts are also discussed. Over twenty five different manufacturers are next examined with a brief history of the company and descriptions of several different models that each produced. Each manufacturer's section is rounded out with photos, schematics and old advertisements.



### Part II - Component Measurements

first examines Volt-Ohm Meters with repair tips and several photos before moving onto Vacuum Tube Voltmeters. Q Meters, Grid Dip Meters, Capacitance and Inductance Bridges are also covered, with a brief history of each, theory of operation, accompanied by several photos.

### Part III - Signal Measurements

starts with Signal Generators, covering both RF and AF Generators, displaying a large selection of photographs with detailed descriptions of the models pictured. Next is a small section on Signal Tracers, followed by the final section on Oscilloscopes. General Radio, Tektronics, and Du Mont are the featured scopes with several ads and photos. Two case-history repairs are also included.

While only covering a small portion of the vintage test equipment that is available, *Tube Testers and Classic Electronic Test Gear* is packed with useful product dating information and repair hints throughout the book. Well worth adding to one's library.

Published by Sonoran Publishing, in

an 8 1/2" x 11" Softcover format with 166 pages. Tube Testers and Classic Electronic Test Gear is available from Charles Brett, CRC Book Sales, for \$19.50 for CRC members.

**IN COLORADO SPRINGS...**

**Breakfast Get-Together - Everyone Welcome!**

**Every 2nd Monday of the month at 10 AM**

**"The Shopper's Grill" on North Wahsatch Avenue in the Bonn Shopping Center**

## The Colorado Radio Collectors Antique Radio Club 2003 Membership Roster

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Johnny	Johnson	Wheatridge	303-274-5474	reseever@cs.com
Don	Jones	Arvada	303-423-1902	

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Henry	Lamb	Cheyenne	307-778-2081	
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# HOW TO FINISH YOUR CABINET

By B. H. Linden, Assistant Radio Inspector

Too much stress cannot be laid on the importance of a properly finished cabinet in the neat appearance of a radio station. Most amateurs do not realize this, or otherwise their stations would bear witness to this fact. Is it because the pocket book is too slim and the lack of knowledge is such that the amateur becomes satisfied with almost anything for a covering of a set that just deserves better? If so, then this article will not go amiss.

When one contemplates the construction of a building, the foundation is of the utmost importance and so it is with the finishing of a piece of wood. First see that all planer marks are removed and that a flat, smooth surface is obtained by the usual method of scraping and sandpapering; always use a block when sandpapering, as this insures a flat surface, doing away with the possibility of having mounds and hollows which would show up in a highly finished cabinet. It is surprising how polishing the surface of an object brings out the defects that exist which otherwise might hardly be noticeable.

There are various kinds of employed for a satisfactory are alcohol, oil, turpentine, and and water stains have a tendency wood so as to make finishing more hand their use results in a clean, work. Johnson's wood stains are writer has obtained some very their use. Otherwise, powdered be used. As aniline is a coal tar derived from coal tar, such as Aniline and water make a very in its raw state, calcined or burnt water or oil. It is the same with ochre are of ferruginous clays and forms and colors, they make a when used with boiled linseed oil allowing a variety of colors

If it is desired to give gum simply mix sufficient turpentine as to make it flow easily and with a brush. As gum is a fine addition to its staining qualities, acts as a splendid filler, drying very hard.

Turpentine and lampblack make a reasonable as well as excellent stain for oak and pine. This combination should be applied with a brush and rubbed off before dry. The mixture should be rather thick, about the consistency of priming paint. Various shades may be had by the addition of ochre and umber.

In building up a body to work upon, shellac may be used entirely, three coats of shellac and a flooding coat of varnish, or just varnish alone. If the work must be completed in a short time, the first method should be employed as shellac dries so quickly; it being possible to finish a cabinet in one day. When varnish is used, three days at least, should be allowed. Remember the importance of shellacing and, especially, varnishing in a warm and dust-proof place, also that the brush to be used should be free from dust particles. Extreme care should be exercised in sandpapering or steelwooling between each application of either varnish or shellac.

After the drying of the final coat, when pores of the wood should be entirely filled, everything should be ready for the last steps to be taken for obtaining the lustre and polish which is so much desired. There are two means whereby this end can be accomplished; one is by the use of rottenstone and the other by means of French polishing. The former is by far the easier, but sometimes the latter is preferred.

(Continued on the next page)



stains that may be coloring. Among them water stains. The alcohol to raise the grain of the difficult, but on the other bright looking completed recommended, as the excellent results with aniline with alcohol may product, any solvent benzol, can be used. good water stain. Umber can be used with either ochre. As umber and can be found in various very permanent stain and turpentine, also when mixed.

wood a rich golden finish, with boiled linseed oil so apply to the natural wood grained wood, the oil, in

# "OPEN TRUNK" WANTED / 4 SALE

**FOR SALE:** Kolster K44 console \$200, General Radio Corp. table \$150, FADA R-60 table + antenna \$150, Coronado 1070A \$75, Atwater Kent 44 "Red Lion" secretary \$295, Atwater Kent 89 \$100, Lyric 9 console \$135, Philco 86 \$195, Federal D10 \$90, Peerless speaker \$75, RCA 56X \$45 **Robert Paul** 34175 Tructon Rd., Yoder CO 80864, (719) 478-5102

**FOR SALE:** Radio repair and restoration service. **David Boyle** 1058 Colt Circle, Castle Rock, CO 80104, (303) 681-3258

**WANTED:** Researching 20's Super Hets. Need literature and brochures for same. **Rick Ammon** 1-888-473-2387 (TOLL FREE) or superhets@antique-radios.info

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**WESTINGHOUSE TUBES FOR AERIOLA SENIORS  
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**Ball Radio Supply Co.**

**317 Sixteenth St. Denver, Colo.**

*(Denver Radio Broadcast July 1922)*

**Dave's Antiques and Mike's Old Radios**

*Buy Sell Trade*

**(502) 790-2618**

**449 W 29th, Tucson, Arizona 85713**

**FOR SALE**

## **BROADCASTING STATION**

**500 Watt**

**Master Oscillator**

**Heising Modulation**

Now in operation. Public opinion classifies this station as one of the best in the country. No fair offer refused.

ADDRESS, DEPT. S., POPULAR RADIO

*(December 1923)*

**FREE ADS TO CRC MEMBERS!!**

**AD DEADLINE**

**FOR THE NEXT ISSUE...**

**FEBRUARY 1<sup>st</sup>**

Email your ad to [drl@pcisys.net](mailto:drl@pcisys.net)

### **How To Finish Your Cabinet** (Continued)

When rottenstone is to be the polishing medium, then a felt pad, one-quarter inch thick, should be mounted on a hand block and used to do the robbing with. Rottenstone and water applied freely with plenty of "elbow grease" will obtain the desired results. Obviously, washing and then dry polishing with a clean cloth is necessary after rottenstoning. A dull gloss finish may be obtained by using oil with rottenstone instead of water.

French polishing is a great deal more tedious. A rubbing pad must be made of a woolen core and a linen covering. This pad is partially saturated with alcohol and a small amount of shellac while a very few drops of raw linseed oil are sprinkled on the piece to be finished so as to prevent sticking. Now, with a continuous circular movement with the pad on the object to be polished, the body of shellac or varnish can be loosened and moved around gradually so as to obtain a very smooth surface, after which the pad is allowed to dry out by lengthy rubbing when a high polish will be obtained.

In order to French polish properly, some practice on material not needed will be necessary, as the first attempt usually turns out to be a failure. If one learns the art of French polishing, scratches, watermarks, weather checks, etc., can be removed from furniture and the original lustre and finish brought back by just using the above mentioned pad, with alcohol and linseed oil, on the old body, without any further application. Similarly, the original lustre may be brought back on automobile bodies when the varnish is still intact.

From "Radio" magazine, April 1922



## Meet Mr. and Mrs. Gallensky Neil and Alison

by Larry Weide, CRC Member

On October 13th, a beautiful late Sunday morning in Lafayette, one of our long time and devoted members, Neil Gallensky, was married to (you guessed it) his beautiful and long time devoted lady friend, Alison. Happily, many of us are already acquainted with Alison, as she has attended many CRC meetings and events with Neil. We want to wish this couple a long life of much joy and health together.



As a follow-up to Wayne Gilbert's informative article last issue about DeForest receivers, note this most aristocratic F5 that sold on eBay last month. The cone speaker is an integral part of the radio. It tilts back to open the top, allowing access to the tubes. Obviously, this is one of the most desirable F5s as it sold for \$3385!!





**HAPPY HOLIDAYS  
AND  
A WONDERFUL NEW YEAR**

**Colorado Radio Collectors  
Antique Radio Club  
5270 E. Nassau Cir  
Englewood CO 80110**

**FIRST CLASS MAIL**



Larry  
5270 E. Nassau Cir  
Englewood

**Next CRC Meeting...**

**SUNDAY, JANUARY 12<sup>th</sup>**

**Museum of the Americas - 863 Santa Fe (Between 8th and 9th Avenues) - 2nd Floor - 1:00 PM**

