

The

C. R. C.



Official Journal Published For Colorado Radio Collectors

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

Volume 2

March - April 1991

Issue 2

Nation's 5th Oldest Radio Station in Greeley!

By Rick Ammon, CRC Editor

KFKA is Colorado's oldest radio station and the 5th oldest commercial broadcasting station in the United States. The station began as a dot and dash in 1909 when Gordon Moss, a student in Greeley, began to broadcast in code from a small transmitter in his room. His call then was "GGM" which became KFKA when the Federal Commerce Commission licensed it in May of 1921.

The following years show KFKA was bounced around from 248 meters in 1923 to 272.6 meters (1100 kc) and the power of 50 watts by 1925. Then, in 1928 the frequency was regulated to 250 meters and a specially allocated daytime power of 500

watts. Finally, a few years later the FCC moved KFKA to 1310 and had licensed it to one kilowatt daytime and 250 nights.

Northern Colorado had it's first remote broadcast in 1923 when Mary Blake began her many " Fireside Melodies" organ concerts live from the Greeley's silent movie theatre, The Sterling. Carl Jordan's "Market

(Continued on page 5)

C.R.C. MEETING

This Sunday at 1:00
Jefferson County Library

SPECIAL SHOWING

P. B. S. Video Series
The Radio Collector

CNN News Review
of
Hugo Gernsback

B. Y. O. P.

(Bring your own PopCorn)

**Location of the Swap Meet
will be announced. Bring your
items for trade and for sale!**

Official journal of the
**Colorado Radio
Collectors**

Founded in the Fall of 1988
Dedicated to the Preservation and Documentation
of Wireless, Radio, Television, and Associated Equipment

**Dues Presentable
Upon Membership
Anniversary**

\$10⁰⁰ annually to:

Bruce Young

4030 Quitman Street
Denver, Colorado 80212

(Please do NOT make checks to CRC)

WANT ADS
and
ARTICLES

should be directed to:

C. R. C. Editor

1249 Solstice Lane
Fort Collins, CO 80525

MEETING LOCATION

Unless otherwise noted in this journal, meetings are held on the second Sunday at 1:00 PM every other month beginning in January at the Jefferson County Public Library, 10200 West 20th Avenue. A swap meet is held at 3:00 at a location to be announced. Bring For Sale and Trade stuff !!

C. R. C. OFFICERS

President:

Dick Hagrman 794-6674 Denver

Vice President:

Riggs Smith 973-8792 Littleton

Treasurer:

Bruce Young 458-7408 Denver

Journal Editor / Secretary:

Rick Ammon 224-5446 Ft. Collins

DEADLINE NOTES

It's the intention of this Editor to broadcast our journal bi-monthly just prior to the CRC meetings. Articles about and especially pictures of your treasures are welcomed as are wants/4-sale ads or any letters and comments directed to our hobby. All pictures will be returned promptly if so requested.

The Editor will be happy to 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; you don't need to be a writer...get the information in !!

Our club can only succeed when we share our talents, our needs, and our adventures; you're being asked to contribute in whatever way you can, as soon as possible, please. Thank you !! - Editor -

This publication was completed on a Commodore Amiga 2000 home computer and printed on an Apple Laserwriter II NT. The DeskTop-Publishing program used was PageStream by Soft Logik of St. Louis, MO.

Closing Dates: (Must be received)

December 20 February 20 April 20
June 20 August 20 October 20



What to do on a Sunday afternoon? CRC members spend quality time with those who have similar interests and might find that special radio at the Swap Meet. Happily, Jim Berg's early Japanese trashcans were not for sale (above) !!

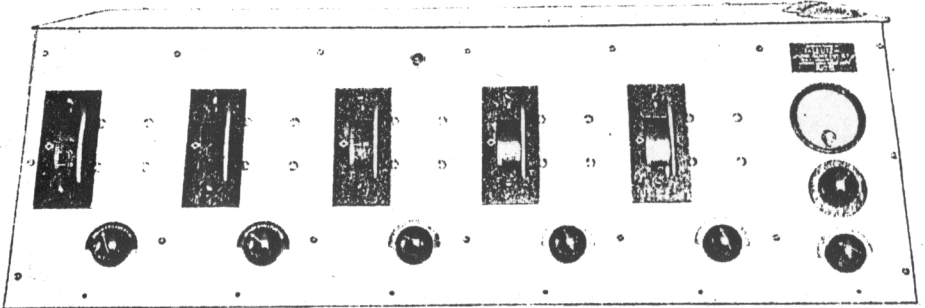


● Membership Notice ●

The month and year on your address label is your membership expiration date. Where appropriate please renew at the next meeting or see the inside front cover of this journal.

THE NEW LEUTZ UNIVERSAL TRANSOCEANIC

9 TUBES



WITH FOUR UX222's AND 2—UX210's OR 2—UX250's

NEW IMPROVEMENTS

THE UNIVERSAL TRANSOCEANIC has now been completely redesigned to use the new 222 Screened Grid Tubes in the four stages of radio frequency amplification. The total radio frequency amplification is now approximately 810,000 compared with only 10,000 obtained with the 201A tubes. This allows increased receiving range, greater volume on distant signals, and without any loss in selectivity. The detector circuit has been altered to use the new 200A type detector.

The audio amplifier has been further improved, a total of four stages being employed, two of these stages in a

push-pull system. The push-pull power amplifier will take either two 210 or two 250 power tubes, the most powerful audio amplifier one could desire. The undistorted output available for the loud speaker is approximately five times greater than a receiver using only one 210 or 250 power tube.

The 400/500 Volt BC Current Supply has been changed to the full wave type, using two 281 rectifier tubes for increased output. Provision has been made to use a Dynamic speaker if desired. The addition of the Leutz "A" Current Supply having a capacity of 3 amperes at 6 volts makes the set available for all electric operation.

PRICE — COMPLETELY CONSTRUCTED AND LABORATORY TESTED — \$250
(NO ACCESSORIES)

Complete Constructional Blueprints — 3 Large Sheets — \$2.00 Postpaid

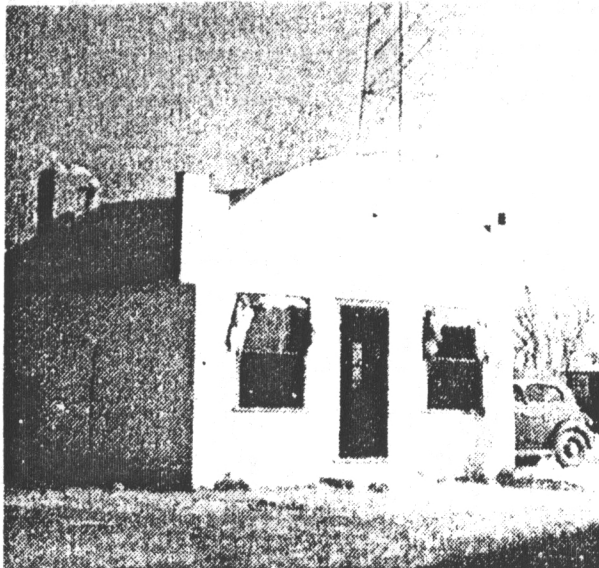
A NEW RADIO BOOK for Custom Set Builders, Broadcast Listeners, Experimenters and Radio Engineers: "MODERN RADIO RECEPTION" — by Charles R. Leutz
PRICE — \$3.00 — POSTPAID

384 PAGES — OVER 250 ILLUSTRATIONS — FULLY BOUND — 6 x 9 INCHES
Subject to refund if returned as unsatisfactory within 7 days

C. R. LEUTZ, INC.

195 PARK PLACE, LONG ISLAND CITY, NEW YORK

Please say you saw it in Radio News



KFKA's original transmitter site

(shown in 1937)

KFKA (Continued from front page)

Reports" started in 1926 and lasted for years having been remotely broadcast from the Denver Union Stockyards from the beginning.

First under the leadership of H. E. Green and then for many years under the direction of Joe Tennesen, KFKA was kept operating successfully. However, KFKA can't boast of continuous broadcasting, because the station "went dark" due to the bankruptcy of its owners in 1988. Meanwhile, the F. C. C. took two years to look for a new licensee. KFKA and its sister station, formerly KFKA-FM, are now back on-the-air.

Yet, for seventy years, KFKA has had a rich history and remains the oldest broadcast station in Colorado.

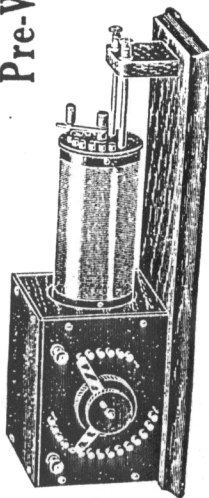
Arnold Navy Model Loose Coupler Back to Pre-War Price, \$15.00

The most consistent piece of Radio apparatus to bear the Radio Telephone "Without distortion."

Range from 200 to 3,000 meters. Send 2c stamp for literature describing Arnold made Audion Detectors, Amplifiers, Short Wave and Arc Sets.

SPECIAL

Any make of Radio set repaired—re-wired—rebuilt. Your pet idea built to order "reasonable."



J. F. ARNOLD, 2082 Lexington Ave., NEW YORK
 ESTABLISHED 1910
 TEL. CONNECTION

C. R. C. CrossWord Puzzle #1

Here are terms common to Radio / TV collecting. They're mostly electrical terms...all very well-known and no surprises. The answers will be found a couple of pages back, but no fair looking until you've filled in all the blanks. Planned for the future is an all-brand name puzzle if you like.

ACROSS = 24 Clues

1. On / Off _____
2. The FCC assigns each station one of these _____
3. The tube element between the plate and the cathode _____
4. The opposite of Number 10 Across _____
5. A two element tube _____
6. Unit of measurement of Power _____
7. Unit of measurement of Resistance _____
8. The Period of a sinewave _____
9. Directional antenna systems are designed utilizing signal _____
10. Making circuits pick up a specific frequency _____
11. Component with color banding _____
12. One thousand million _____
13. Component that stores an electrical charge _____
14. Wire usually wrapped around a paper tube _____

ACROSS (Continued from previous page)

15. The British term for vacuum tube
16. Connects all components together
17. That which wraps around the chassis
18. Discovered radio waves pass through air
19. Volume _____
20. Unit of measure of current flow
21. Wet or dry cells connected together
22. One thousand
23. The front-end of a circuit
24. A farming term meaning to "sow to the wind"

DOWN = 18 Clues

1. Acid core
2. Super-tuned circuit
3. The audio _____ appears to ride on the radio carrier wave
4. An antenna _____ a signal
5. A component in a tuning circuit
6. One thousandth
7. The opposite of Number 8 Down
8. Electrons flow from this terminal toward Number 7 Down
9. Unit of measurement of electrical pressure
10. A group of components working together
11. A five element vacuum tube
12. A three element vacuum tube with a suppressor grid
13. A nut and bolt or thumb-screw
14. A.V.C. automatically controls this
15. Unit of measurement of inductance
16. Schematic
17. They appear on the front of radios & TVs
18. Unit of measurement of the ability of current to flow through a circuit

The answers can be found on page 9, but no fair peeking! If this puzzle interests you and you wish to make up one for the "FLASH!!"; work up a rough draft and submit it to this Editor. Please keep the proportions somewhat longer than wide to fit the page.

Richard T. Ammon 1991

RECENT NEW CRC MEMBERS

Bob & Barbara Stutzman
Englewood, CO

Robert & Dorothy Pecina
Louisville, CO

Gilferd Baker Emden, IL

January 23, 1991

Dear Editor;

Thanks for the recent article on dating old radios. Probably every collector has some trouble now and then dating a set. I find it saves me a lot of time when I call about ads in the paper if I can accurately date and identify the set. I already know what I'm looking for but getting the necessary information from the seller can often be difficult. There a few things the article left out that I thought I'd mention.

- Modern FM appeared after 1945 (88-108 mc.)
- 45 rpm records appeared in 1949
- Philco began using model-year dates in their model numbers in 1937 (ie., 41-616 is a 1941 model)
- Zenith began using a new ID system for most models in 1936. For example: 12A57...the "12" means 12 tubes, "A" means AC, allwave, and the "57" is the cabinet type. It was made in 1936. '37 models used cabinet types in the hundred series, (6S152), '38 models two-hundred series, (12S268), and up.

I also use Rider's manual reference numbers, though not absolutely as found in the Mallory Radio Service Encyclopedia. Mallory's also lists tube lineups so if a radio is missing the model number, one can at least make a good guess about the model and year.

If any members need help in dating a radio, they can feel free to call me at home or work (398-8524, after 5pm).

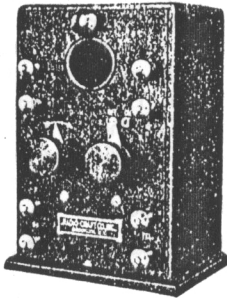
Yours Truly

Dan

Dan Busetti

Bennett, CO

[Due to the efforts of Dan and Riggs Smith for his article on age-dating of radio equipment in our last issue, this club will have a strong newsletter. We need contributions of any length or subject relating to the hobby. Don't wait! We need your help! Ed.]



To the Discriminating Radio-Craft caters to those who demand the best in Radio Apparatus.

Detector Unit
Price \$15.00

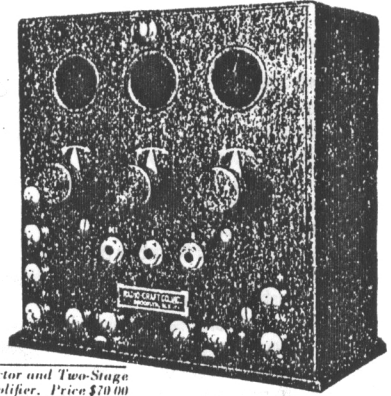


Insist on Radio-Craft products. Even with their outstanding superiority in design, materials and workmanship, Radio-Craft products cost no more than ordinary instruments.

Radio-Craft apparatus is sold by
Continental Radio & Electric Corp., N. Y. C.
Manhattan Electrical Supply Co. N. Y. C.
Radio Distributing Co., Newark, N. J.
Philadelphia School of Wireless Telegraphy, Philadelphia, Pa.
and other responsible dealers
Kelly & Phillips, Brooklyn, N. Y.
McCarthy Bros. & Pore, Buffalo, N. Y.
Hendel Schmidt & Co., Rochester, N. Y.
Atlantic Radio Co., Boston, Mass.
American Electro-Technical Appliances Co., New York City.

RADIO-CRAFT CO., INC.

Brooklyn, New York
Perfection in Radio Instruments



Detector and Two-Stage Amplifier. Price \$70.00

JOBBER'S INQUIRIES INVITED

Don't Take Our Word for It

Read What Others Say—Then Prove It for Yourself



"Superior" Set, 2,000 ohms \$7.00

We don't ask you to take our word for the superiority of Brandes Matched-Tone Receivers. Thousands of operators have written to us unsolicited letters and all are enthusiastic over the results they got with Brandes Receivers. Read what some of them say, then act on our trial offer below.

"They are all more than you claim them to be."—W. M., Columbus, Ohio.
"They are the best phones anyone can buy. They bring in the stations you don't hear with other phones and cut out half the static."—M. B., Richfield, Utah.
"I have tested very many receivers at various prices and none of them are in the same class with yours. Honest goods, good inspection and testing (previous to shipment) ought to be known."
—J. H., Fall River, Mass.
"I own a pair of your 2,000 Ohm Superior Headsets and have used them for the last two years.

They are better than ever, picking up messages when many others have failed."—E. H., Lowden, Ia.
"I can receive N.A.A. much sharper and clearer with your Superiors than with my _____, 2,000 Ohms, and they were good phones."—C. D., Hollifonte, Pa.
"With average antenna of only 40 feet height, crystal detector, and my 'Superior' phones I have been able to hear ships 1200 to 1400 miles at sea and land stations up to 1200 miles distant—before 9 P. M."—C. S. M., Concord, Calif.

Here's Our Offer:

Send 5c for catalog "G." Order any pair of our receivers you want. Try them 10 days in comparison with the phones you have now. If they aren't better phones for clearness, sensitiveness and distance than what you are now using, return them to us and back comes your money immediately and without question. Brandes phones are used by U. S. Government experts, colleges and technical schools, and by professionals and amateur operators all over the world.

BRANDES Matched-Tone Wireless Receivers

C. BRANDES, Inc.
Wireless Receiver Specialists

32 Union Square, New York, N. Y., Room 823

MEET THE COLLECTOR

Introducing.....

Doug & Jan Furney of Lakewood, CO

In this hobby Doug and Jan have been collecting far longer than most. It started in 1965 just because old radios interested Doug. From that beginning the Furneys have a collection of about 500 radios, 150 horn speakers, 50 other style speakers, and lots of tubes!

Both Doug and Jan look for the old stuff, but Jan is especially fond of Crosleys and speakers. Doug says he loves them all, yet likes the older radios best. Mechanical and electrical restoration are the Furney's specialties, but they perform all phases of fixing up old equipment.

If you'd like to see Doug's and Jan's prizes, all they ask is that you make an appointment rather than just stop by.

Introducing.....

Bill Ballas of Denver, CO

In contrast to the Furneys story above, Bill has only been collecting since 1989. Explaining he has an appreciation for good or interesting styling or features is what lead him into this hobby. Any Zenith radio catches the collector's eye and ear as Bill finds the quality of their sound the very best. This CRC member also picks up tube portables of any manufacture and transistor radios made in the USA or

early Japanese. In just a short two years Bill has collected over 50 sets, two RCA '50s TVs, and 25 to 30 tubes. Bill likes to restore the plastic, bakelite, and paint of his finds.

Speaking of finds, Bill treasures a TransOceanic in perfect shape found in a thrift store for just fifty dollars, a National (Panasonic) transistor 3-band for two bucks, and a Zenith table model AM-FM that needed only the tuner restrung. Bill will show these prizes only to members of the CRC and not to the general public. Give him a call!

[We'd like to learn more about you and your hobby! If you haven't filled out one of the CRC questionnaires from which we derive this column, please see Bruce Young at our regular meetings or contact your newsletter editor.]

CrossWord Puzzle answers from the previous pages



↓

ANSWERS TO CROSSWORD PUZZLES FROM PREVIOUS PAGES:

1. BROADCAST
2. INPUT
3. TERRY
4. KILLO
5. HIRE
6. CONSOLE
7. CONTROL
8. ERIC
9. CABINET
10. WIRE
11. VALVE
12. COIL
13. CAPACITOR
14. GIGAL
15. STOR
16. HASE
17. UNCLE
18. PILE
19. MAT
20. DETUNE
21. FREQUENCY
22. SWITCH

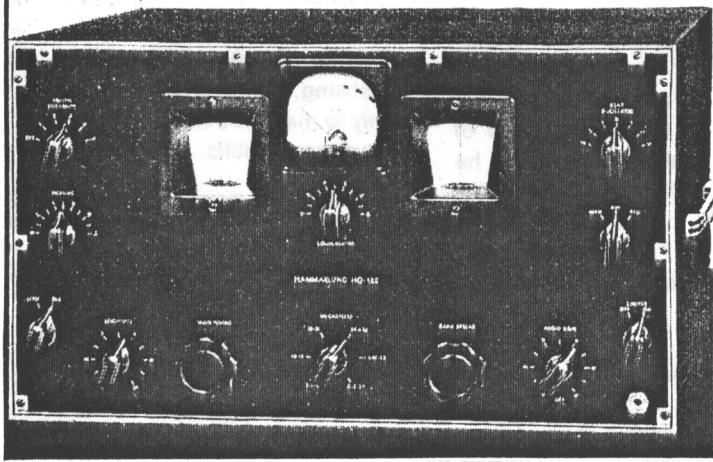
the

RUSH IS ON!!



for the

HQ-120



THE NEW HAMMARLUND "HQ-120-X" is radio's most outstanding communications type receiver. Hams and short wave listeners everywhere are amazed with its remarkable performance. The ability of the "HQ-120-X" to pull in weak, distant stations is providing new thrills for the DX'er. The reason for this is the fractional microvolt sensitivity throughout the entire range of the receiver. In order to derive full benefit of extreme sensitivity a receiver *must* have a widely variable selectivity characteristic, since most short wave bands are considerably crowded. The new Hammar-

lund developed variable selectivity crystal filter, incorporated in the "HQ-120-X", allows the operator to select the proper band width for best results. This new filter works as well on phone reception as CW. Crowded phone bands are more than doubled in effective width when using the "HQ-120-X" crystal filter. In other words, there are more than twice as many *usable* channels made available for perfect reception. There are many other features thoroughly described in a 16-page booklet available without charge. "The rush is on!" Try the "HQ-120-X" and judge for yourself.

WRITE DEPARTMENT RN-5 FOR FREE 16-PAGE BOOKLET.



HAMMARLUND MFG. CO., INC.
 424-438 WEST 33rd ST., NEW YORK
 CANADIAN OFFICE: 41 WEST AVE., NO., HAMILTON, ONT.



Wanted and 4Sale

Wanted:

Cabinet for **Aerliola Senior**. Crystal detector parts for **Federal Junior**. Old electric motors and electric gadgets.

Don Wick (719) 598-7146
Box 25332
Colorado Springs, CO

Wanted:

Cathedral cabinets for **Philco** models 21 and 70.

Dick Hagrman 794-6674
Littleton, CO

Wanted:

Operator's or owner's manual for **Steinite** model AC...a copy of same would be okay.

Bill Schultz (308) 324-5237
Lexington, NE

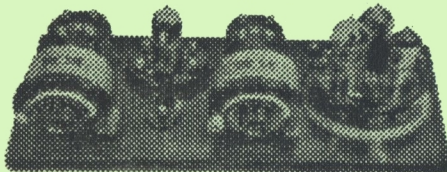
4Sale:

Hickok 600 Series tube tester. **RCA** TV sweep / signal generator. Miscellaneous sweep generators. Not expensive - actually cheap !!

Wanted: (ad continued)

Philco Cathedrals, **Philco** literature or interesting stuff. **Atwater Kent** breadboard, restorable condition, will pay for value.

David Boyle
977-4937 (work)
979-5403 (home)
Littleton, CO



ON THE AIR

With **Dick Hagrman**, C.R.C. President

Now is the time for all of us to start thinking about which radios we'll enter in the 3rd annual Colorado Radio Collectors' Show and Swap meet. The show will be held April 20th and 21st in conjunction with the Denver Collectors' Fair at the National Western Complex. Radios may be entered in any or all of the following divisions:

Wireless • Crystal sets • Battery 1922 & earlier • Battery 1923 & later • AC radios • AC novelties
AC art deco • Transistors early • Transistors novelty • Cathedrals & tombstones • Consoles
Accessories (horns, tubes, test equipment, advertising items, & literature) • Restorations

Ribbons will be awarded for first, second, and third place in each division. Awards will also be presented for the People's Choice (open voting by the general public - *Editor*) and Best of the Show. Space and tables for sellers are available for \$30.00 totally for both days.

At this next meeting we'll be showing the first half (approximately an hour) of the award-winning P.B.S. series entitled "The Radio Collector" with the second half shown at the May meeting. A special thanks to Barney Wooters who's providing the video equipment.

We'd like to start the meeting promptly at 1:00 which will enable us to hold our business meeting, view the video, and get into the swap meet by 3:00.

Colorado Radio Collectors

1249 Solstice Lane
Fort Collins, CO 80525

TO:



Postmaster: First-Class Mail. Do not delay!!

