



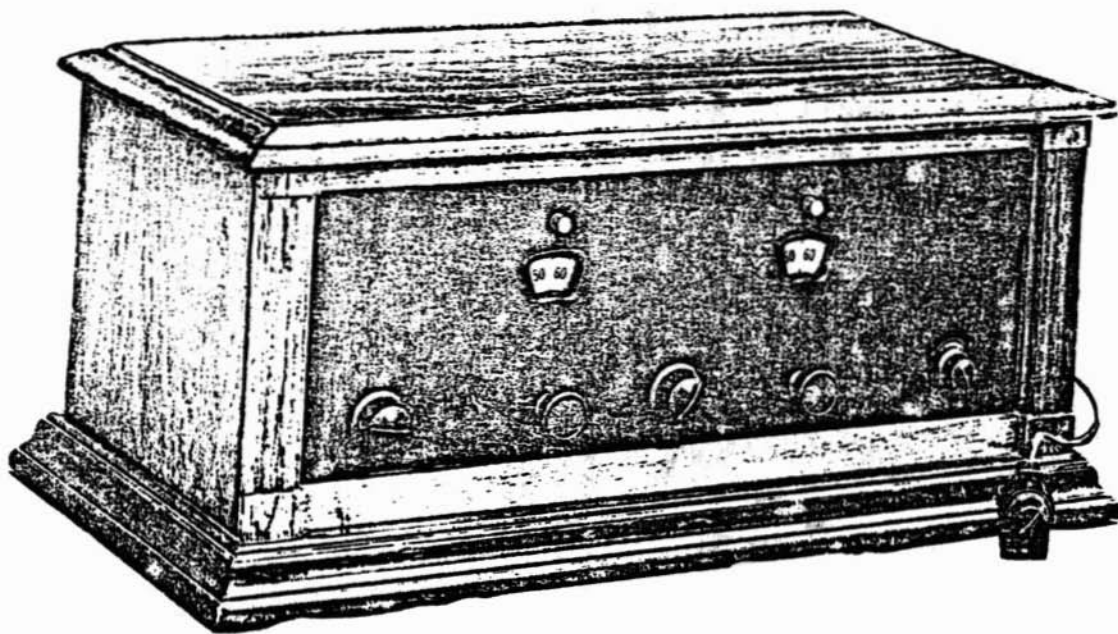
RADIO LOG

February 1980
September, 1978

Vol. III

ROCKY MOUNTAIN ANTIQUE WIRELESS ASSOCIATION

Log 1



"8-in-line" radio receiving set,
made in Boulder, Colorado, 1926



ROCKY MOUNTAIN ANTIQUE WIRELESS ASSOCIATION
P.O. Box 17311 Denver, CO 80217

FEBRUARY, 1980

Next Meeting...

Will be held at the home of Mr. Mrs Leamon Brooks. The address is 10718 W. Marlowe Ave. in Littleton. The time is Sunday Feb. 24 between 2 PM & 5 PM. Leamon will show his collection, talk on radio, and refreshments will be served.

New Club Officers...

President - Doug Furney Vice President - Bill Miller Sec.Tres. - Ron, Sherry Harmon
Editor - Ray Windrix

From the President...

As you can see with our Feb. meeting, there are going to be some changes for the club in 1980. First we are abandoning the SWSB as a meeting place, and are going back to meeting in collector's homes. This should be a lot more enjoyable as everyone likes to view the collections of others. Also this should be a more socialble atmosphere. Meetings will be scheduled for either Saturdays or Sundays.

Four meetings are planned for Feb. - May - Sept. - Nov. with the possibility of two more planned later. One may be held sometime in the Summer.

Dues...

Are \$ 5, mail to our club address or present at the Feb. meeting. A new Senior Citizen policy will be in effect regarding dues. If you are 65 dues will be free. We value our older members for their knowledge of radio and wish to retain them as members. We ask that our members who are 65 please send us your name, address, and phone number to be listed as a member, and receive the Radio Log. Send this information to our club address.

Finally we plan to open our Flea Market - Swap Meet this year to the public. Our aim is to make our meetings more enjoyable this year.

From the Editor...

As you know all ads are free. This is your newsletter. If there is anything you wish to contribute I welcome it. This can be an article, old material to be copied, anything on radio. Send to me at 915 Potter Pl CO Springs, CO 80909. Thanks. This year all four issues of the Radio Log will contain the "Boulder Story". This material came from Mr Sanford C. Gladdon, who was a guest speaker at one of our meetings a couple of years ago.

Now Member...

We would like to welcome Mr Dennis Trimble , 5835 Herma Street, San Jose, CA. 95123
Phone 408 - 224-0606

ads...

The club received a list of sets for sale from Mr Raymond Thompson. There was about 23 sets, mostly 3 dial TRF's. All sets are apparently very good condition. The TRF's are in a range between \$ 35 & \$ 50. Here are some from the list. AK 10A Breadboard (working) \$ 375 Radiola V (missing X-tal clip, amp section works) \$ 250 Radiola VIII \$ 75 Radiola IIIA \$70 . If interested write to 7422 Cherry Tree Dr. Fulton, MD 20759.

Wanted: RCA, CROSLEY, SETS & PAPERWORK, DOUG FURNEY 10484 W. ARKANSAS DR. , LAKEWOOD, CO. 80226 PH 303-965-0407.

SANFORD C. GLADDEN

The speaker, Mr. Sanford C. Gladden, was born in southeastern Missouri some seventy-odd years ago. His father was a lumberman, and the family lived in several states. After graduating from a Mississippi high school, he attended the University of Mississippi, where he received the A. B. degree. He later did graduate work at the University of Kentucky, receiving the M. S. degree in 1928, majoring in physics.

He then embarked on a teaching career in colleges and universities in various parts of the United States, at such institutions as Clemson College in South Carolina, The University of Mississippi, Virginia Military Institute, Louisiana State University, the University of North Carolina, and New Mexico State College.

In 1950 he left teaching to go into government service, taking a position with the National Bureau of Standards in Washington, D. C. In 1954 he was transferred to Boulder along with others of his group, to work in the newly built laboratory here. His field of research was ionospheric physics, dealing with the phenomena associated with the upper atmosphere which supports the transmission of radio and TV signals. He retired in 1968.

Mr. Gladden has been interested in family history (genealogy), and with his retirement he gave more of his time to compiling histories of various branches of his family.

Desiring to obtain some information about the early days of Boulder, and finding none generally available, he turned his attention to the compilation of books relating to the history of Boulder. He has published a number of small booklets on this topic, as well as collecting information on other aspects of Boulder history.

He is a charter and life member of the Boulder Genealogical Society, and has served for several years as editor of the Quarterly of that organization. The press of other work caused him to give up that position, although he continues to serve as Genealogist of the Society.

Over the years, he has built up a reputation for giving interesting talks about Boulder history, and has spoken to such groups as A. A. U. W., Questers, Boulder Business Women, senior citizens, and students at grade schools. Although he is a Protestant, he was asked by the Sacred Heart of Jesus Parish of Boulder to compile the centennial history of the Parish.

In 1976 Mr. Gladden was given an award of merit by Historic Boulder for public service to the Boulder community, because of his research into early Boulder history. He was also given a pin by the Boulder Centennial Bicentennial Commission as one of their citizenship awards.

Books by Sanford C. Gladden, 1034 Spruce St., Boulder, Colo. 80302

- Ancestry of Alice Hazen (1854-1937) (1964).
Ancestry of Mary Blanchard Cutter (1823-1908) (1964).
Descendants of Moses and Mary (Adams) Marshall of Columbiana County, Ohio, with reference to the Adams, Aleshire, Clark, Darst and Edmundson families. (1965).
Descendants of Stephen C. Hawkins of Campbell County, Kentucky, with reference to the allied families of Barton, Clephane, Eckert, Marshall, and Thomasson. (1965).
Ancestry of Dr. Jonathan Fay Gay (1810-1867) of Framlingham, Massachusetts. (1969).
The Durst and Darst families of America, with discussions of some forty related families. 1027 pages. (1969).
An index to the vital records of Boston (1630-1699). (1969).
An index to "History of Clear Creek and Boulder Valleys, Colorado", published in 1880. (1970)
An index to the vital records of Dorchester, Massachusetts through 1825 (1970).
Hotels of Boulder, Colorado from 1860. Hard back, illustrated (1970).

Books about Boulder:

Centennial History of Sacred Heart of Jesus Parish (1975). Requested by Parish to compile this, although not a Catholic.

Early Boulder Series:

- No. 1. Miscellany. Prose and poetry from early newspapers. (1974)
No. 2. Fire Protection. Illustrated. (1974).
No. 3a. Education-Public Schools. Illustrated. (1975).
No. 4. Miscellany No. Two. (1975).

Tales of Boulder for Young Folks:

- No. 1. The Beginnings of Boulder. Illustrated. (1975).
No. 2. Animal Tales from Boulder Newspapers (1975).

In preparation:

- Boulder in 1876. Completed and ready for printing, except for making financial arrangements.
Alphabetical listing of census returns and mortality schedules for Boulder County, Colorado, 1860-1885.
Compilation of building improvements in city of Boulder and business directories, 1869-1900.
Compilation of vital records of Boulder County, 1860-1912.
Compilation of information about Civil War veterans (both Union and Confederate) in Boulder County.

RADIO RECEIVING SET COMPANY

Boulder NEWS-HERALD, June 12, 1926

BOULDERADIO MFG. CO. IS INCORPORATED

HERE BY THREE LOCAL MEN

Incorporation papers for the Boulderadio Manufacturing Company were filed in the office of the county clerk today. C. B. Rosenberg, W. L. Cassell and Hurlburt Anderson are the incorporators. Melvin C. Goss and Dudley I. Hutchinson, Boulder attorneys, filed the papers and are listed with the incorporators as directors of the company.

Two hundred shares of preferred stock at a par value of \$100, and 10,000 shares of common stock at no par value will be issued.

Company headquarters will be at 2015 Twelfth Street with the L. E. Terry Electrical Supply Company and will be in charge of Cassell. The company is organized to do a general radio business.

The objects and purposes of the company, as given in the articles of incorporation, were to "engage in, conduct and carry on the business of buying, selling, designing, manufacturing, constructing, repairing, operating and generally dealing in radio receiving equipment and electrical appliances, apparatus, supplies, accessories and machinery of every description".

RADIO DRAMA

For those of you who listen to The CBS Radio Mystery Theater and The Sears Radio Theater, heres the latest scoop. "The Mystery Theater" runs seven nights a week. The Saturday and Sunday shows are called "The Weekend Classics". Rumor is the "Mystery Theater" will go to five nights a week with CBS cancelling the "Weekend Classics". Hiram Brown (Mystery Theater's producer) will attempt a non-CBS program to be aired on weekends. I understand that this show would take the format of The General Mills Radio Adventure Theater. That show ran for one season from 2.5.77 to 7.31.77, then repeated. GMRAT was a weekend show. However this new show is supposed to be daring enough to handle Science Fiction and other types of drama. It is intended to replace the "Weekend Classics".

The Sears Radio Theater after finishing its first season has been saved. But not without a few changes. It will move over to Mutual and be called The Mutual Radio Theater. Mutual affiliates will get first chance at the show. If they turn it down then it will be offered stations in these markets. If a non-Mutual station picks up the show, it will simply be called Radio Theater. The facts are that Sears is a great believer in radio, but felt they could not sponsor the show for 52 weeks, along. That is why their name was dropped from the title of the show. Sears will remain with the show, but as a co-sponsor. Likewise you will be hearing Sears commercials coming up on "The Mystery Theater" as well. In the over 200 stations which carried The Sears Radio Theater, the results have been very satisfying. Many stations have enjoyed significant audience increases. Other advertisers have noted Sears commitment and are intrigued with the use of radio for their products and services.

ED.

BOULDER-MADE RADIOS BUILDING UP EXTENSIVE MARKET IN WEST

Scientific data on the radio obtained in an eastern laboratory by a University graduate in electrical engineering, now an instructor in his alma mater, and later further developed by himself and two advanced students, has formed the basis for the incorporation of the Boulder radio Manufacturing company and the establishment of a factory in Boulder for the manufacture of a radio "eight in line unit", whose increasing popularity indicates it will be enthusiastically accepted by radio fans in every section of the country.

The company was incorporated by Wallace L. Cassell, University instructor in electrical engineering, last June, who took in with him H. Anderson, who has had two years in the mechanical engineering department and much practical electrical experience, and C. B. Rosenberg, advanced U. of C. electrical engineering student. Dean H. S. Evans, head of the University engineering department, was made president of the company, and Melvin C. Goss, Boulder attorney, legal adviser.

Upon being graduated from the University in 1922, Cassell entered the employ of the General Electric company at Schenectady, N. Y., and was assigned to the radio perfection department. In this laboratory, he in connection with other employees worked out the super-heterodyne receiver on a commercial basis and he laid the foundation for a series of experiments and studies which later were to develop a process for the making of an intermediate frequency transformer, which in series with others, could all be tuned accurately, and also a transformer which would reproduce all audible tones equally. Up to that time radio makers were satisfied with frequency transformers connected in series, which were accurate only to a moderate degree.

Cassell was later employed by the Mutual Electrical company at Wellesley, Mass., for experimentation, and when he left the commercial field and returned to the University as an instructor, he started to work at once with the experiments and studies which resulted in the origination of the unit now made by the local company. He was aided in the experiments and studies here by the two other students. Five years ago as a student, Cassell built the first broadcasting equipment for the University.

The factory has been established at 1949 Pearl street where five persons are employed. It has an output of 150 machines a month and some time ago a contract was accepted from the Radio Stores, Inc., a wholesale firm of Denver, for the entire output. A total of 300 machines have been manufactured and delivered since the start. They have been introduced in five western states besides Colorado. Other states are: Wyoming, Utah, Idaho, New Mexico, and some parts of Kansas and Nebraska, and within the past ten days the company has been obliged to turn down the offer of a contract from a large eastern company for 1,000 machines. In Boulder it is offered for sale by the L. E. Terry Electrical Supply company, 2015 Twelfth street, where Edward Van Cleave has charge of the city sales.

The unit has been given the trade name, "8-in-line" from the number of radio tubes used. Application has been made to register the name with the United States patent department, so that it cannot be used by other manufacturers. A month ago a Chicago firm made a move to use the name but was stopped.

With the exception of some small parts, all the equipment is made in Boulder, even to the wood cabinets which enclose the different units. Dies have been made to stamp out metal parts, the dies being taken to the Western States Cutlery Company plant for use, where the actual cutting is done. The wood parts are made in a wood shop in the city, the lumber from which they are built up being obtained from dealers here.

An interesting study of the manufacture of the machine is an insight into the mechanism of a series of fine wire coils used. Each is wound with wire almost as fine as a hair, nearly four miles of wire being necessary for each coil. The coil adds greatly to the receiving power and the tone volume of the finished product.

The machine is destined to become very popular, it is believed, because of its excellent receiving power and also because of its moderate price. A radio receiving machine set built up on the Boulderadio unit sells from \$125 up, according to equipment desired. A number of Boulder radio fans have machines constructed on the "eight-in-line" Boulder made unit and are high in their praises of the home product.

Every unit carries a label "Boulderadio Manufacturing Company, Boulder, Colorado" and this gives Boulder first-class advertising.

DE FOREST

Nov. 1925

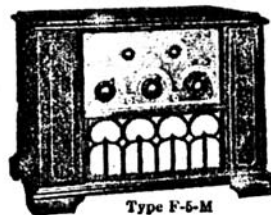
Swings open the Door on the
Biggest Sales Opportunity
since the advent of Broadcasting



De Forest
Radiophone—Type W-6
"Renaissance"



Type F-5-A,W



Type F-5-M

Type F-5-AW. 5-tube set in polished Walnut cabinet without built-in loud speaker, but with compartments for "A" and "B" batteries. Retails at \$90.00.

Type F-5-M. A 5-tube set in two-tone polished mahogany cabinet with built-in loud speaker. Space for both "A" and "B" batteries. Retails at \$110.00.

Type W-6-F Radiophone—floor model. Retails at \$450. 6 tubes, incorporating special power amplifier with 10 inch double cone reproducer. By an ingenious device, one knob operates two condensers—single dial, dual-control.

Type W-6-T (Table Model.) Same as W-6-F, except without lower cabinet portion. \$385.00.

Type W-5-F (Floor Model.) 5 tubes with 12 inch De Forest cone reproducer. \$235.00.

In addition to these new members of the De Forest family there are two other F-5 models, one at \$85.00 and another at \$90.00, and the D-17 loop series of three models. (*Western prices slightly higher.*)

Say you saw It in Radio Merchandising

Attention !

WJF
YARDLEY BEERS
740 WILLOWBROOK ROAD
BOULDER, COLORADO 80502

February 3, 1930

To the Officers of the Colorado Radio Organizations to which I belong:

The Boulder Amateur Radio Club
The Mile Hi DX Association
The Rocky Mountain Antique Wireless Association
The Rocky Mountain WJF Society
Quarter Century Wireless Association, Colorado Chapter

Please inform the members of your organizations of the following two activities connected with the fiftieth anniversary of my having first been licensed as a radio amateur on March 5, 1930.

(1) At the Meeting of the Rocky Mountain WJF Society on March 6 in Room 1107 of the Department of Commerce Laboratories (National Bureau of Standards) in Boulder at 7.30 PM, I shall speak on "Fifty Years of DX". This will include a brief history of amateur intercontinental communication. I shall show a number of slides pertaining to the history, pictures of overseas amateurs I have met on my travels, and pictures of my own stations. There will be also a small display of old time equipment.

(2) I shall put some of this old time equipment on the air in accordance with the following schedule in the hope of making brief contacts with any who are interested. This equipment is built in accordance with old time designs and has been made from period components. These transmissions will be made on Saturday March 8 and repeated on Sunday March 16. Times are local ones.

A) 4.00-4.45 PM. 7040 or 7014 KHz. Crystal controlled transmitter following design of the cover of January 1927 QST but using larger tubes, 210 crystal oscillator and 203A amplifier/doubler. 100 watts.

B) 4.45-5.30 PM. Between 3575 and 3600 KHz. Either 210-203A crystal controlled transmitter (see above) or High-C Hartley oscillator using 210 tube following design of Ross Hull in August 1928 QST, 25 watts.

C) 5.45-6.00 PM. Between 1800 and 1810. Hartley oscillator with Western Electric 205D "Five Watt Bulb"; representative of what was used about 1923. 25 watts input.

During these transmissions I shall monitor the 16-76 2 meter repeater for additional replies. Any changes in the schedule will be announced over this repeater. This usage of the repeater is not intended to be exclusive. Others who wish to use it at these times are welcome to do so. I shall be glad to answer any QSL cards pertaining to these transmissions. I shall call "Q" Fifty?

73,

Yardley Beers
Yardley Beers, WJF

**BOULDER MADE RADIO WILL BE SOLD TO A
NATIONAL SALES ORGANIZATION UNDER
BIG CONTRACT**

The entire output of the Eight-in-Line Unit radio of the Boulderadio Manufacturing company has been contracted for by the Gradergood company, a national sales organization, it was announced this week by Hurlburt Anderson. The factory which is located at 1949 Pearl, has built up a fine reputation and has developed a radio that is one of the best on the market. The radio is highly praised by citizens of Boulder and others, who have acquired sets.

A six-page pamphlet describing the Boulder-made radio has been issued by the sales organization. It is illustrated with cuts of cabinets, of the receiver connections to the panel, loop and loud speaker, and with diagrams of the layouts.

"An entirely new conception of a super-heterodyne which may be assembled and placed in operation within fifteen minutes" is a heading given a descriptive article appearing in the pamphlet. The article says in part,

A sympathetic engineer in Colorado grew tired of seeing his friends tearing their hair because their home made supers would not work properly, or still worse, refusing to even start building them because the mountain looked too steep to climb. Funny, isn't it, how steep a hill always looks until we start going up it.

Anyway, this engineer, being a friend of humanity, sought to help his suffering fellow men by providing all the workings of a Super Heterodyne in a single, foolproof, dustproof, convenient unit.

This he did, and now the fellow who built his boat but bought the engine may get out the old saw and screwdriver and make himself a panel and cabiner, confident that he can buy the "engine" in one piece, at one place, and rest assured it will work and do what he wants. The particular advantage of this plan is that it allows an individual a chance to express his individuality, both as to appearance of the set and selection of the instruments to be mounted on the panel.

The "workings" consist of a plywood box shaped much like the toy piano usually purchased for little daughter at Christmas time. Instead of keys, it has a shelf on which are flush mounted the eight sockets to accommodate the tubes.

On the vertical panel under this shelf are a row of binding posts. These connect to the loop, batteries, instruments on the panel and loud speaker. And that is all that is visible on the outside.

Inside it is a different story, but you may rest assured that the instrument you will purchase will be sealed, with the guarantee broken the same time the seal is. The normal individual is not likely to dissect his Waterbury to find out what makes it go; and there is no more reason why he should open the box.

Associated with Mr. Anderson in the Boulderadio Manufacturing company are Claude B. Rosenberg, W. L. Cassell and Hardy Searcy.

Modern developments in design of radio receivers by some of the major manufacturers reduced the demand for the "Eight-in-Line" set. It was reported to the compiler that the company moved to California about 1930, where it was known as the Warner Engineering Company.

Hurlburt Anderson was one of the early radio amateur operators, starting in Bridgeport, Connecticut, in 1911. During World War I, he served as chief radio electrician at Brest, France. In World War II he became an instructor in radio at the University of Colorado. In 1945 he became an engineer with radio station KOY in Phoenix, and later in the same year went to Dixon, California, as an engineer for a radio station built by the National Broadcasting Company for the Office of War Information. Returning to Boulder in 1947, he operated a radio shop until illness forced his retirement. He died in Boulder, September 24, 1955. His obituary appeared in the Boulder DAILY CAMERA for September 26, 1955.

President	Doug Furney
Vice Pres.	Bill Miller
Soc. Tres.	Ron & Sherry Harmon
Editor	Ray Windrix

BEAUA is a non-profit organization with the intent of preserving early radio.

Radio will be printed quarterly and distributed at no charge to members of the club.

915 Potter Pl
Co Spgs Co 80909