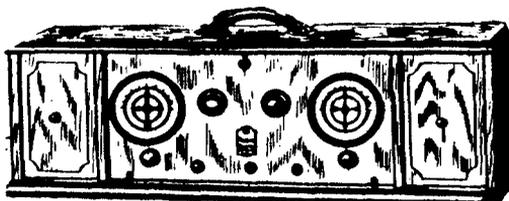


NORTHWEST
VINTAGE RADIO
SOCIETY
CALL LETTER

APRIL '86

VOL. 11 NO. 4



The **CALL LETTER** needs your help! The Editor wishes to maintain the quality of this publication, and continue to improve it, as it has been for eleven years. But he can't do it and maintain his other commitments too. It's time to find an Associate Editor for the **CALL LETTER**. Duties are light if they can be shared. Volunteer to be at the meetings and spend one night a month doing the mailing. It would be a big help and would help the society!

T a b l e o f C o n t e n t s :

- 3 - April - **Transistor Radios -**
Technical talk -**Neutralizing TRF-**
- 4 - **ATMOSPHERICA**
from the Tom James Collection
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By Herb Brams
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- 12- **NWVRS - SWAP SHOP -**
- 14- Puget Sound Antique Radio Assoc.
- **TRADIO -**
- 15- **ACCESSION** By Robert Teague

Editor In Chief....Dick Karman 288-1285
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Advertising.....Jerry Talbott 649-6717
1440 SW 239TH Av, Hillsboro OR 97123

The **CALL LETTER**, is published monthly, as the only official publication of the **Northwest Vintage Radio Society** which is a nonprofit organization incorporated in the State of Oregon. Meetings are held on the 2nd Saturday of each month (July and August omitted) at the Buena Vista Clubhouse in Oregon City (see page 3).

President----- Bill DeVey 635-6746
Vice President--- Jerry Talbott 649-6717
Treasurer----- Ed Charman 654-7387
Recording Secretary- Dan Howard 761-7799
Corresponding Secretary -----
Dick Karman 288-1285
Librarian----- Chuck Kibler 678-5066

APRIL

DATE : April 12th, 1986
TIME : 10:00 AM
PLACE : Buena Vista Clubhouse
ADDRESS : 16th & Jackson Streets
Oregon City, Oregon

=====

DISPLAY= Transistor radios from the American manufacturers. Bring those semi-vintage sets and have a good time comparing them to others of the same gender.

BUSINESS= Committee reports:
SWAP MEET, CALL LETTER, CLUBHOUSE, etc.

TECHNICAL TALK= Ray Nelson will be explaining & demonstrating the "how to"s of working with Tune Radio Frequency or TRF radio.

Specifically, Ray will talk about the unique need of this simple radio set to be neutralized after changing tubes or aligning the set. To curtail the howling that is sometimes common in the TRF set, the internal oscillation must be subdued by adjusting the capacitors between stages.

His address will be highlighted by a demonstration of the techniques. Any simple TRF chassis can benefit from this procedure and everyone present will get a "non-technical" review of the process.

We hope that the Technical Talk will be only the beginning of a very educational series of meetings. It is appreciated.

ED.



ATMOSPHERICA

By J

For the sake of ECOLOGY

(to the tune of Clemetine)

Out in Newberg,
In a junk store,
Gathering dust so soft and fine,
Is a Thompson (with a speaker),
Licensed as a Nuetrodyne.

Chorus:

"Will it play, Sir?"

(Well I doubt it,)

"For the tubes are very old,
But the cobwebs, in the cabinet,
Make the works worth more than Gold!"

Will **you** take it?

Not on your life, sir....

Though the price is doubtless fair,
I'll leave the spider undisturbed sir,
For she's raising a family there.

Chorus.

In a cabin out in Canby,
Sits and sighs our Clementine,
Without a radio, to console her,
She blew her chance for the Neutrodyne

From the Tom James Collection
Originally from January 1976.

NORTHWEST VINTAGE RADIO SOCIETY

1985 INCOME AND EXPENSES

INCOME:

Dues.....	\$ 677.50
Advertising.....	80.00
Swap Meets, Raffle, Auctions	<u>98.65</u>

TOTAL INCOME .. \$ 856.16

EXPENSES:

<u>CALL LETTER</u> (incl. postage)..	\$ 509.73
Filing Cabinet for C.L. ed..	81.00
Clubhouse Rent.....	120.00
P.O.Box Rent.....	20.00
State Corporation Fee.....	5.50
Swap Meet Publicity.....	20.00
Telephone Expense.....	17.00
Door Prizes, Xmas Party.....	25.00
Bank Service Charges.....	<u>40.75</u>

TOTAL EXPENSES, \$ 838.98

Abstracted and summarized from
the General Ledger on 4/2/86.

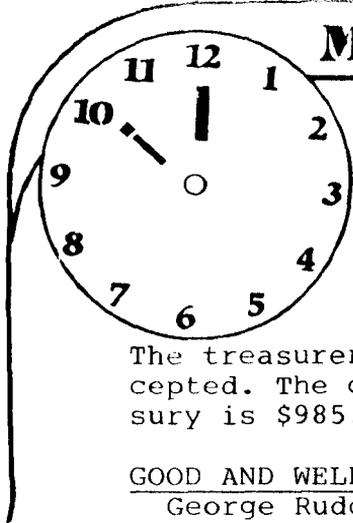
Charles E. Charman

Charles E. Charman

Treasurer

George Rudolph has been moved to the Capitol View Convalescent center which is within a 2 blocks of Salem Memorial Hospital. If members go through Salem, please stop in and say hello.

Meeting Minutes



The March 8th, 1986 meeting was called to order by Pres. Bill Devey at 10:11am. The Minutes of the February meeting were approved as published in the Call Letter.

The treasurer's report was given and accepted. The current balance in the treasury is \$985.61.

GOOD AND WELFARE:

George Rudolph is out of the Hospital and in an Albany nursing home. Visits from members of the society are welcome. Doug Watson was a visitor at the meeting.

OLD BUSINESS:

The Salem Flea market was enjoyable & well attended.

The fate of the clubhouse is still in the balance. No decisions made yet.

NEW BUSINESS:

The Spring Swap Meet will be held at the clubhouse. Plan to attend.

Antique Radio Classifieds is soliciting subscriptions to keep it afloat. It is in need of 800 new subscribers to continue publication.

The "World Forestry Center" is interested in hosting a display centered around the History of Radio. The Society will have to develop the exhibit material. If we decide to participate, a corporate sponsor would ease the financial burden on both the WFC and NWVRS.

All members are encourage to bring at least one early transistor radios to display at the April meeting.

Ray Nelson volunteered to speak at the April Meeting. Sonny Clutter will speak at the May meeting. Sonny's topic will be repairing audio transformers. Other members willing to give radio presentations at an upcoming meeting should make their desires known, or contact Jerry Talbott.

The Society needs an associate editor for the **CALL LETTER** to attend the meetings and fill in for Editor Dick Karman. Dick's work schedule will prevent him from attending for 6 to 8 months.

Leads and needs were given.

The meeting was temporarily adjourned at 10:55 for judging the speaker contest and then reconvened at 11:03.

Contest ribbons were awarded thus:

1st- Jim Mason's Tower "Castle" speaker
2nd- Sonny Clutter 3rd- Dick Howard.

The meeting was adjourned at 11:10.

Dan Howard,
Secretary



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Earphones and Loudspeakers

By Herb Brams

Listening to Radio requires a device such as an earphone or a loudspeaker that can convert electrical signals from the set into sound. Most earphones and loudspeakers operate on the same principle, in that the electrical signal passes through a coil, producing a varying magnetic field. The field acts upon a loosely-suspended element causing it to move in step with the signal. The movement of the element produces sound.

The first radio listening devices were earphones. In those earphones a small permanent magnet is surrounded by a coil through which the signal flows. A thin round iron diaphragm is held close to the assembly. The signal through the coil varies the magnetic pull on the diaphragm causing it to bend in & out. Movement of the diaphragm produces sound. Earphones were all that was available until about 1922. Then, because a free-standing reproducer was more desirable when several people wished to listen at once, the "loud-speaker" was developed.

The first loudspeakers were horn speakers. Those usually consisted of a rugged earphone-type "driver" to which was attached a large horn. The horn efficiently coupled the sound produced by the small driver diaphragm to the surrounding air, producing a greater volume of sound. Other types of drive mechanisms were also used. Horn speakers were common from 1922 to about 1926.

Around 1927 horn speakers were superseded by cone-type speakers. These speakers had better fidelity and could produce a greater volume of

sound. The first cone-type speakers were the magnetic armature type. Typically, a short iron rod was held between the two poles of the magnet. A coil of wire surrounded the rod but did not touch it. One end of the rod was attached to a large cone, usually made of paper. Electrical signals through the coil magnetized the rod causing it to move closer to or farther from the magnet. The motion of the rod caused the cone to move, producing sound.

Around the year 1928 armature-type speakers were replaced by the moving coil, or dynamic, loudspeaker. In this type of speaker the signal passes through a small coil (voice coil) attached to a loosely-suspended paper cone. The coil is suspended in a strong magnetic field produced by an electromagnet or permanent magnet. The electrical signal flowing through the coil produces a varying magnetic field about the coil. Interaction of the field around the coil with the magnets field causes the coil to move closer to, or farther from the magnet in step with the signal. The movement of the coil causes the cone to move, producing sound. Until around 1940 electromagnets were used to provide the magnetic field. Then, with the development of better magnetic materials (e.g. alnico), speakers with permanent magnets became practical. Because of their simplicity, low cost, high power handling capability, and excellent sound quality, permanent magnet dynamic loudspeakers are the type universally used today.

Early radio earphones and loudspeakers can be used with modern radios. A matching transformer is required since early speakers have a high impedance whereas modern speakers have a low impedance. Connect the primary leads of a small output transformer to the vintage speaker. Connect the secondary wires of the output transformer to the earphone jack of a modern radio. Keep the volume low.

Cliff Watson

By Edmund H. Marriner

One of the oldest old timers in the Northwest was Cliff Watson, also known as "W7ANO", and "RM".

Let's go back to the very beginning when Cliff was young. The story of Marconi sending the letter "S" across the Atlantic, Dec. 12, 1901, was written up in Collier's Magazine. Perhaps this was the beginning. This was enough to start those of us with electricity in our veins into a career in wireless, it did for Cliff.

Along about this time publicity was given to a radio circuit which, in 1902, sent messages to Catalina Island from San Pedro and carried the Jeffries-Fitzsimmons fight long before the boat arrived with the news. This was the first time that wireless was used in police work. It seems two gents absconded with some money and wine from the hotel in Avalon just before the boat sailed. The manager had a message sent to the San Pedro police who were waiting at the dock - to the amazement of the thieves. This circuit was the main source of communication to the mainland for 21 years.

With all this publicity about wireless, it was not long before a wireless club was started in the public library in Portland. Here Cliff got enough information to build a coherer detector and pick up his spark rig across the room. Other amateurs in Portland in those days were Charley Austin who signed SN and soon had a 1kw spark on the air. Also Billy Anderson, "CK", and Joe Hallack "FU". Joe and Cliff became life-long friends. The club was about the only source of information as there was no contact with the outside world except through magazines.

The 1st chance the boys had to see real equipment was when Admiral Fullam brought a portion of the "Great White Fleet" into Portland for the 1901 Rose Festival. On the USS Charleston, Cliff saw a Slaby-Arco 2 kw spark made in Europe. Using

this information, Cliff built a one inch Connecticut spark and by 1906 had contacted "PE" the United Wireless station at Counsel Crest about 5 miles from Portland. Land line Morse code was in use. Cliff had helped Tommy Thompson install the equipment at "PE" and had a chance to make his first contact signing "W". Through the remainder of 1907 contacts were limited to an occasional ship which would come up the river and gladden expectant ears.

In 1908, Cliff went up to the Dewey Mine near Grangeville, Idaho and constructed a receiver for the mine from the old Modern Electric magazine, using a mercury drop detector. A wire was strung 1,000 feet across the river and deadhead traffic for the mine was copied from "PE" in Portland.

When Cliff got back to Portland, Joe Hallack had moved and left his high voltage transformer with Cliff for some "real power". Late in 1910 Cliff and Joe both went to Oregon Agricultural College in Corvallis. Naturally they had to have the ham rig, so they shipped it to the Fraternity house; later installing the antenna between the roof of the administration building and the stack of the heating plant.

A memorable event at OAC was the night of June 28th, 1911. Cliff picked up the SS Spokane which was sinking in the Gulf of Alaska. He was able to handle the distress traffic. Mr. Hammill was the spark operator on the SS Spokane and many years later your writer got them together on the telephone for their 1st contact since that night.

Cliff and Joe's station was powerful enough to work "PH", San Francisco, "NPL", Port Loma, and "PA", Seattle, but the only one powerful enough for them to hear was Charley Austin in Portland.

After college Cliff drifted into commercial operating on the Alaska boats and at the Montana Company's stations. He did not get back into amateur radio until late in the twenties when he had "W7ANO".

Written by the editor of West Coast Ham Ads and published in March of 1957. Stay tuned for more.

Swap Shop

WANTED: New Memberships !!
\$15 for the year. \$12 if out of town
contact Ed Charman (see page 16)

WANTED: RARE or EARLY tubes; Power
transformer for Majestic "90"
Early and/or interesting speakers.
RCA Television Mod. 621TS.
C.E. Clutter 14330 NE Fremont Ct.
Portland, Or 97230 503-254-9296

FOR SALE: Slant faced General Electric
Table Set, w/thumb dial tuning. \$5
Liquidating a private fixer-upper
Collection. Send S.A.S.E. rightaway.
Dick Karman, 2515 NE 37th Ave.
Portland, Or, 97212 503-288-1285

WANTED: Chassis with Good Power
transformer for RCA mod R-78
James Mason, 90 NW 150th Ave.
Beaverton, Or 97006 503-644-2343

FOR SALE: Radio dial belts. New tubes
in the box. Art Redman, 5111 SE
Tolman, Portland, 97206, 503-774-9913

FOR SALE: Full bench set up: Scope, VTVM,
R.F. Generator, Variac, ect. \$75.00
1929 Edison R-7 console (rare) \$100.00
1930 Majestic 90 console AS IS \$35.00
Jerry Talbott, 1440 SW 239th Ave.
Hillsboro, OR 97123 503-649-6717.

WANTED: 370 Kc IF Transformer
Bob Campbell, 2175 SE Pine, Hillsboro,
OR, 97123 ,503-648-7331

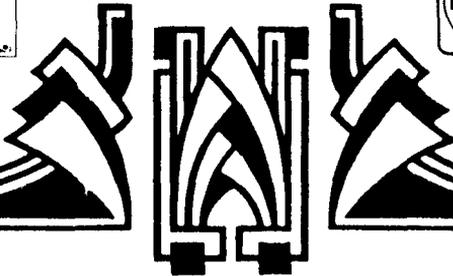
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GARY W. STELLER, OWNER



W

FOR SALE:

1925 Radiola 26 portable, missing loop & speaker \$75 John Schneider 1718 NE 98th Street, Seattle, WA 98115, 206-527-3198

50's Siemens wood table radio, AM-FM-SW-LW \$25.00; Atwater Kent mod 145 \$40.00; Harmon Kardon tube type stereo receiver & one (1) University III speaker \$35.00. Max Kaplan, 8412 150TH ST NW ,GIG HARBOR WA 98335 206-851-4187.

WANTED:

Pre-50's TVs; 3" magnifier for pilot TV Radiola IV; Smokerette, Peter Pan Radio; Mickey Mouse Radio; Emerson AU-190; Halicrafter mod.S-38B; Sparton mod. 1466; art deco radios, Trav-ler leatherette portables; colored plastic, mirror glass, Crosley XL; Airking Plastic set w/clock; Philco 51 clock radio.
KEN KORHONEN 4022 41ST AVE SW SEATTLE , WA 98116 206-932-9363, Work-206-345-1316

Philco 90 cabinet; Philco 71 dial system, any parts or cabinet for Zenith Stratosphere model 1000Z (25 tube) ART CORBUS, 5704 11TH AVE NW, SEATTLE , WA 98107 206-783-6151

"Compact" or "Midget" sets from the '32-'34 era (sort of dome tops). Black PRC (patterson Radio Corps) knobs. early (1929-34) National receivers. Max Kaplan, 8412 150TH ST NW ,GIG HARBOR , WA 98335 206-851-4187.

Military shortwave radio equipment and related items; simple kits or novice-type shortwave regenerative sets; aircraft or forest service shortwave rigs. Hugh Miller, 11206 First N.E., Seattle, 98125, 206-365-3684, /206-451-5334, eve.

Grunow Model 801A radio. DARREL FORSBERG 12209 1ST AVE. NW, SEATTLE, 98177

AC·CES·SION /ik-'sesh-ən, ak-/

1. acquisition of additional property
 2. to record in order of acquisition
-

Sonny Clutter:

HOWE Crystal Set **new** in original box
1924 Gillfillan Battery set "GN1"
(very interesting set)

Jim Mason:

Wizzard Wire Winder (hand coil winder)

Ray Nelson:

1936 Sparton mirrored dial console
model 1567 (excellent condition)

Ed Charman:

A-K 36 complete with power supply
Crosley Trirdyn Model 3R3
Federal "Orthosonic" Type E
Philco Mod. 90 chairside
w/ Bel Geddes cabinet

Jerry Talbott:

1920's Masterphone 1 tube radio
1936 Crosley 425, unusual portable
1939 Hallicrafter s-19R Skybuddy

Dick Karman:

A like new copy of Radio For Everyone
published by the Scientific American
in 1922.

NORTHWEST VINTAGE RADIO SOCIETY

Regular membership \$15.00

Associate Membership \$12.00

Associate memberships are accepted from persons outside commuting distance of the Portland Metropolitan area.

NAME _____

ADDRESS _____

CITY, STATE _____

PHONE _____

VOCATION _____

SPECIAL INTERESTS _____

Mail membership information and dues to the **Northwest Vintage Radio Society**
P.O. Box 02379, Portland Oregon, 97202

Membership includes monthly newsletters, ten monthly meetings (all except July & August), two swap meets and two auctions each year, as well as a trading roster of members, and unlimited "unclassified" ads in the **CALL LETTER**.

Check here if you **don't** wish to be included in the 1986 trading/membership roster..