



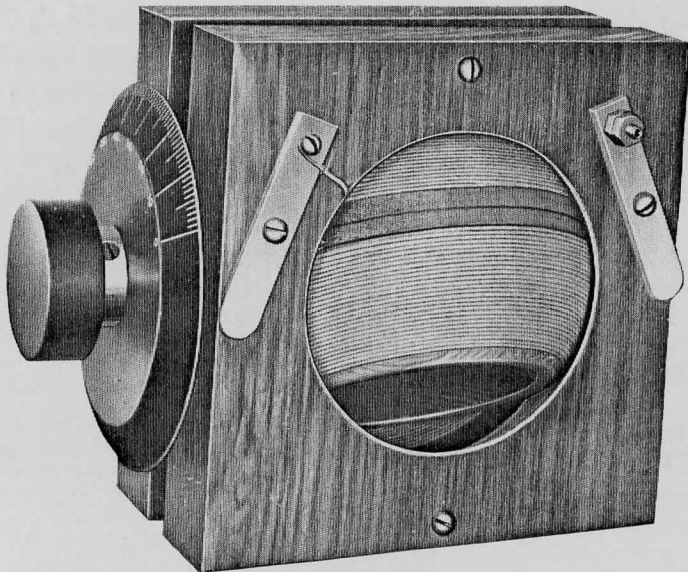
# CALL LETTER

VOLUME 16

NOVEMBER 1990

NUMBER 11

KGW  
NORCO



Northwestern Variometer

Type SR-7

# CALL LETTERS

*The Northwest Vintage Radio Society is a non-profit historical society incorporated in the State of Oregon. Since 1974 NWVRS has been dedicated to the preservation and restoration of Antique Radio & Wireless apparatus. The Northwest Vintage Radio Society meets at the Buena Vista Club House (Atkinson Park) 16th & Jackson Street, Oregon City, Oregon. (Note: take I-205 & Exit at Park Place, take first right onto Washington St. continue to 15th, left up 15th hill to Jackson, turn left to 16th).*

*Meetings are held at 10:00 AM on the second Saturday of each month except for summer vacation in July and August. The meetings are an opportunity to exchange information and advice.*

## Annual Dues:

Regular Membership	\$15--
Associate Membership	\$12--

Renewals are due on January First

## 1990 NWVRS OFFICERS & STAFF

PRESIDENT	Dick Karman	503-288-1285
VICE PRESIDENT	Art Redman	503-774-9913
TREASURER	Ed Charman	503-654-7387
SECRETARY	Greg Morse	503-626-9783
LIBRARIAN	Norris Jackson	503-642-5625

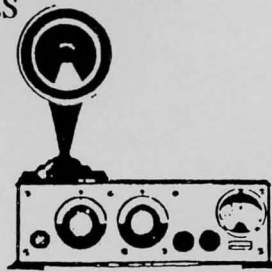
## NWVRS MAILING ADDRESSES

### Membership Applications & Renewals:

Northwest Vintage Radio Society  
P.O. Box 82379  
Portland, Oregon 97282-0379

### All Newsletter Business/Information:

Call Letter  
4041 NE Wistaria Drive  
Portland, Oregon 97212-2963



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***** 1990 STAFF *****		
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*****		
<p>The CALL LETTER and The HORN OF PLENTY are published monthly as the official publication of the Northwest Vintage Radio Society and the Puget Sound Antique Radio Association.</p> <p>The Call Letter and the Horn Of Plenty are available only as part of the NWVRS/PSARA memberships. NWVRS/PSARA are not responsible for any buying / selling transactions incurred, or for any other use of the contents of this publication.</p>		
*****		
November 10	N W V R S Swap Meet	
November 18	P S A R A Annual Contest	



# NWVRS Meeting Minutes

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## October 12th, 1990 -- Oregon City

The October meeting was called to order at 10:20. Changes to the September minutes were accepted. The treasurer's report was given and accepted.

### Old Business

The Johnson Price Guides which were ordered by the Treasurer have not arrived. The president expressed concern that the Seattle Association for which we have order 20 extra books, may not choose to wait and take advantage of a similar purchase opportunity in Seattle. Those members attending the Seattle meeting were urged to contact Ed Charman before leaving, in order to take them along to interested Seattle members if they are available.

Over twenty members paid in advance for the October banquet, easily exceeding the minimum requirement for the restaurant. The board had authorized a limited payment to help with the banquet. The President requested volunteers to handle video equipment on the day of the banquet.

The Ole' and Swap Shop sheets from the September meeting were not included in the October Call Letter due to the auction.

### New Business

Society members requested that we have introductions from members and visitors during the meetings to better acquaint names and faces. This was done. One member of note was "Tex" Sloat, who, in 1925, was a radio engineer, and installed one of Portland's first radio stations.

The Board announced that nominations would be opened for a new slate of officers for the 1991 elections, in addition to an assistant editor to help our current editor and take over the entire operation if need be.

The Board expressed its desire to get the cause of the Society: the preservation of radio history; out to the public. Some suggestions from members were to have displays in department stores showing radios that were sold under the store's name. Hobby displays at county fairs were also suggested.

The posters for the upcoming Swap Meet have an error in the time, which should read 9 am 12 noon. In the future posters will be printed for Society auctions.



Suggestions for society activities were solicited. All suggestions need to be available for the new board to act upon in January. In response to this a motion was made, seconded, and passed, that at least the first few months of the next year be scheduled in advance. This will give our events the chance to be printed in the Antique Radio Classified.

Tex Sloat accepted our invitation to be the guest speaker for the January meeting. He will present a portion of Portland's radio history. The request was made to video tape the presentation.

A motion was made, seconded, and passed, to have a radio contest at the February meeting, to include "past winners" (those receiving first or second place in previous contests), chairside radios, and flatwork (ads, books, literature, and posters).

The floor was opened for nominations for the 1991 officers, and suggestions for committee members. The board made the following nominations:

Secretary	Gordon Philips
Treasurer	Ed Charman
Vice President	Kim Brickman & Ray Nelson
President	Dick Karman (tentative) & Jim Mason (declined)

Future special events held outside the club house will require a committee appointed by the board.

January is membership dues time. Dues paid between now and January will include the 1991 membership year.

The meeting adjourned at 11:20.

Greg Morse, Secretary NWVRS

## NWVRS Board Meeting

---

The Officers of the Northwest Vintage Radio Society met at 9:15 am on October 12th, 1990, as announced in September. Present were Greg Morse, Art Redman, Dick Karman, and editor Ed Buhite.

The Board is concerned that the purpose of the society isn't being well-represented in our contacts with the public.

The Board suggested nominations for 1991 officers; approved up to \$40 to be spent on the banquet; and the meeting adjourned.

Dick Karman, President



# PSARA Meeting Minutes

---

October 21st, 1990 -- Seattle WA.

The meeting was called to order at 1:00 pm by Max Kaplan. 37 members and 5 guests were in attendance. No applications for new membership.

## Old Business

Members were reminded of the four book titles being offered at discount. Walt Kiefner told us there is also a vintage radio calendar available at discount. A sign-up sheet was passed around so those interested could indicate items and quantity wanted. The items should be available next month. Walt Kiefner will be placing the order, you can pay him when you get the book/calendar. Unclaimed items will be sold at large at the December meeting.

Members were reminded that Al Atworth is still taking orders for name tags.

## New Business

The annual contest is next month. There was a general discussion of categories. Two new categories were created; one for plastic radios and one for transistor radios. This year's contest categories:

- |                       |                      |
|-----------------------|----------------------|
| A. Crystal Sets       | E. Military & Ham    |
| B. Battery Sets       | F. Novelty Radios    |
| C. Plastic Radios     | G. Transistor Radios |
| D. AC sets & consoles | H. Miscellaneous*    |

*\*this includes all advertising, non-receiver equipment, microphones, accessories, test equipment, etc.*

The following people volunteered to help with the contest on November 18th:

- |                   |  |
|-------------------|--|
| computer operator | John Schneider   |
| Award ribbons     | Warren Green   |
| Set up & security | Dave Dintenfass, Erik Lofquist,<br>Matt Thornton David Braun (alternate) |
| Clean up          | Jerry Cappeon, and Steve Berglund  |

Radios will be accepted for entry into the contest between 11:00 am and noon. All radios to be displayed in the contest must be checked in by noon. Judging will take place between noon and 1 pm with the winners



announced approximately 1:15 pm. Radios will be available for removal from the contest area about 1:30 pm.

Members were reminded of the Northwest Vintage Radio Society Swap Meet in Oregon City on November 10th, 1990.

The highlight of today's gathering was Walt Keifner's 3-D slide presentation of the AWA meet.

### **Future Programs:**

November 18th, 1990 -- Annual PSARA radio Show and Contest

December 9th, 1990 -- Max Kaplan will talk about European Radios.

*Lee Ray*

Lee Ray, Secretary PSARA

# **From The PSARA President's Desk**

---

by Max Kaplan

I hope it wasn't just because of the inclement weather that the October business meeting was so well attended; it was encouraging to see so many faces. As mentioned during the meet, I intend to hold down the length of the business part of each meeting to have more time available for the more interesting parts of our monthly get-togethers, I.E. show-and-tells, talks, visitors presentations etc. which brings up the need to have these monthly presentations scheduled a few months ahead of time. Right now we have things scheduled thru the end of this year; so we need fresh material starting with January '91.

I would like to hear from any and all of you members, who would care to share your special interests, experiences, finds, or anything at all related to our hobby, with other PSARA members. You don't have to be a polished speaker or a super technician to help out with a presentation. A show and tell with a little story behind it, a helpful "Hints & Kinks" on restoration, an interesting "Find-of-the-Year" type story or any personal experience with collecting will do just fine and I can guarantee, attending members will really appreciate it. So, drop me a note or see me during the Swap Meets and tell me what you would like to do.

Thanks, Walt, for the nice stereo slide show; it must have been quite a bit of work to get it together.

See you all at the Nov.18 Contest.



# The Northwestern Radio Manufacturing Co. Portland, Oregon

by F.W. Sloat, W7AHK

Charles Austin was born April 30, 1890, in Clinton, Iowa, and moved to Portland in 1902. Charley was almost born with a key in his hand— in 1905 at the Lewis and Clark Exposition in Portland, he demonstrated the transmission and reception of wireless messages from his station. While talking with Charley of the old days the question came up as to when he first started experimenting with the new medium of communication. In 1903 the *American Boy* Magazine published some articles by Mr. Griswold describing the construction of a receiver using a coherer and accompanied by a low-powered spark transmitter. This started the thirteen year old lad on his long career in radio.

The Oregon Journal, a Portland newspaper, on January 13th, 1908, reported, "Charles Austin, Rigiland Savage, Charles Fine and Leland James gave a wireless demonstration at the public library. Messages were sent and received." A photo of the boys and their equipment accompanied the article. It also goes on to state, "A sensitive microphone was demonstrated and the foot-steps of a fly could be plainly heard."

In 1911-1912 Charley was at sea where he was "Sparks" on the S.S. Rose City. The equipment used on the ship was manufactured by Massey Telegraph Company which later became part of the Marconi Company, and then RCA.

When home with his amateur station he used the call C-2, this combination of a letter and figure is explained by the fact that the S.S. Rose City was H-2, a company station (Continental Wireless Telegraph Company) in Tacoma was T-2 and the Seattle station was S-2. With no federal regulations at the time to prohibit it, Charley communicated with many of the ships from his amateur station in Portland. Besides being a member of Uncle Sam's Navy he put in a stint as a radio inspector after World War I.

Austin and Frank Phillippi, now deceased, started the Northwestern Radio Manufacturing Company at 1556 East Taylor Street in Portland. The plant was complete with machinery to manufacture the dials, knobs, engraved panels, transformers, and other parts of the radio receivers and transmitters. The line was named **Norco** and included receivers of the regenerative detector type, followed later by the neutrodynes.

As the business grew they discontinued manufacturing some of these items as it was more economical to purchase from outside suppliers. The





Norco line was shipped to many foreign countries, some six or seven hundred going to Japan in the years 1923 and 1924. Charley remarked this was good business as the received payment as soon as the goods were on the ship. Later the factory moved to 37th and Division, and the business became diversified with other lines apart from radio. Key employees included Carl Lundell, an electrical engineer, bookkeepers Walter Russ and Jess Archer, Ray Yonge and Ray Stoecker. Patent litigation, a big headache in those days, was a factor in the company ceasing business in 1929.

Among the many VIPs who owned Norco receivers was the world famous evangelist William *Billy* Sunday, who came down from his summer home in the Hood River Valley to pick out his equipment at the factory. In Charley Austin's scrap book are faded snapshots of his old stations along with catalogue sheets from his factory. One photo shows him hanging onto a guyed wooden mast at the one hundred foot level.

Austin's first transmission of speech and music was from his experimental station 7XF, at 615 SE Salmon Street, Portland, in late 1919. At that time he also held amateur license 7DK. These early licenses were assigned for a period of only three months (limited commercial) and Charley explained, "There were applications and licenses going and coming at the same time."

The Oregon Journal mentioned Charley on August 15th, 1920:

### **Summit of Mount Hood Equipped With Wireless**

*Equipment has been installed in the lookout by C.M. Austin for the forest service, his son, and Charles Austin, former radio inspector. [The two Mr. Austins were not related.] The equipment was carried up part way by mule and then back-packed to the summit. Musical entertainment from Portland, Los Angeles, and San Francisco was listened to by the lookout. The low powered transmitter, operated from dry batteries, was used to transmit fire reports to the ranger at the base of the mountain."*

When 7XF started broadcasting there was only one other station in Portland, 7XG, the Willard P Hawley installation. On March 31st, 1922, 7XF became KGN and broadcast programs from Mount Tabor.

Before retiring, Charles Austin was employed by the City of Portland Police Bureau as radio engineer. He was no doubt on the nations pioneers in radio. He had other interests too. In the lobby of Portland's former show place, the Hoyt Hotel, there was on display the finest scale model steam locomotives this writer has ever seen. On a placard nearby: "Constructed by Charles M. Austin."

*These excerpts are from a personal interview with Charles M. Austin.*



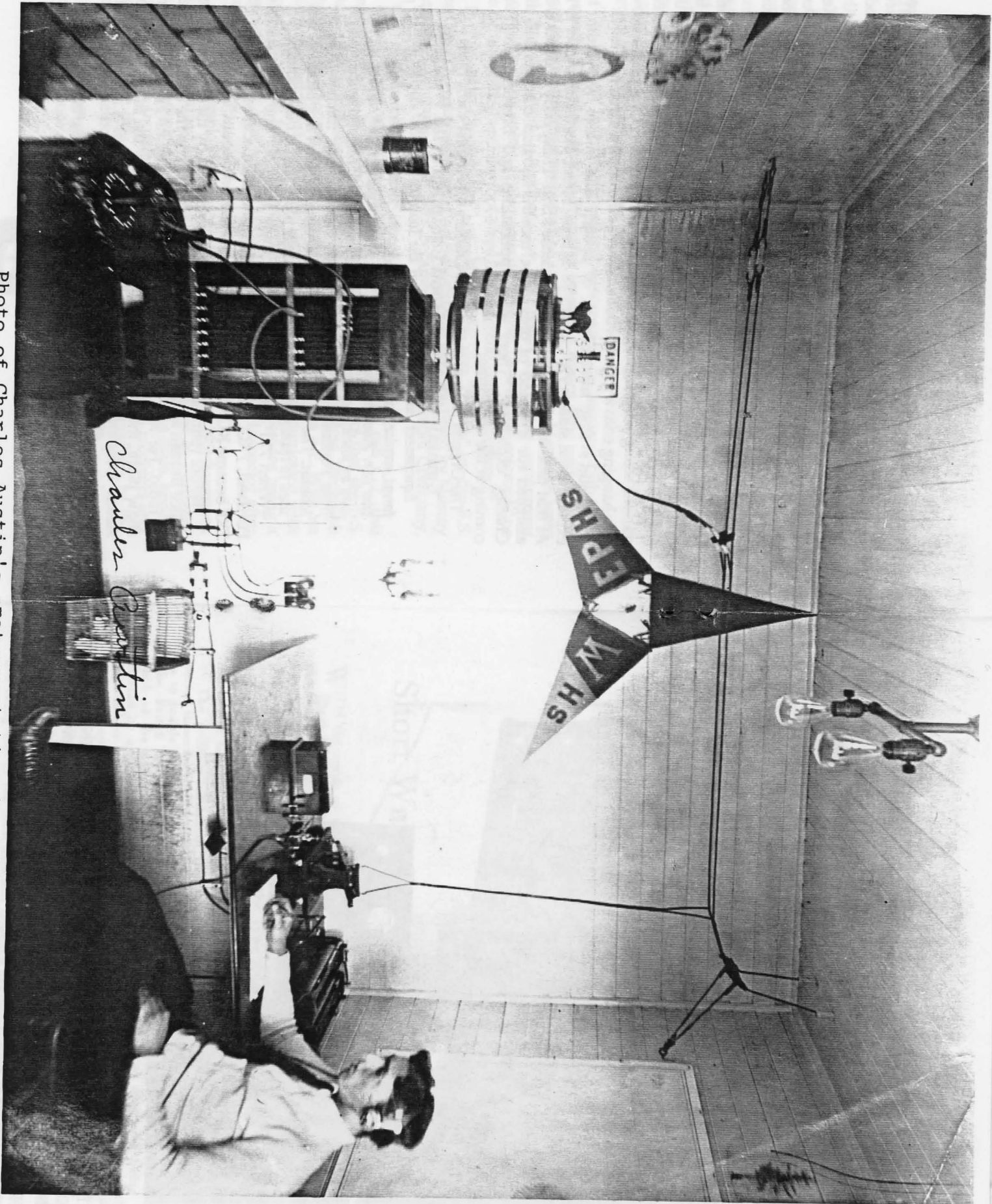
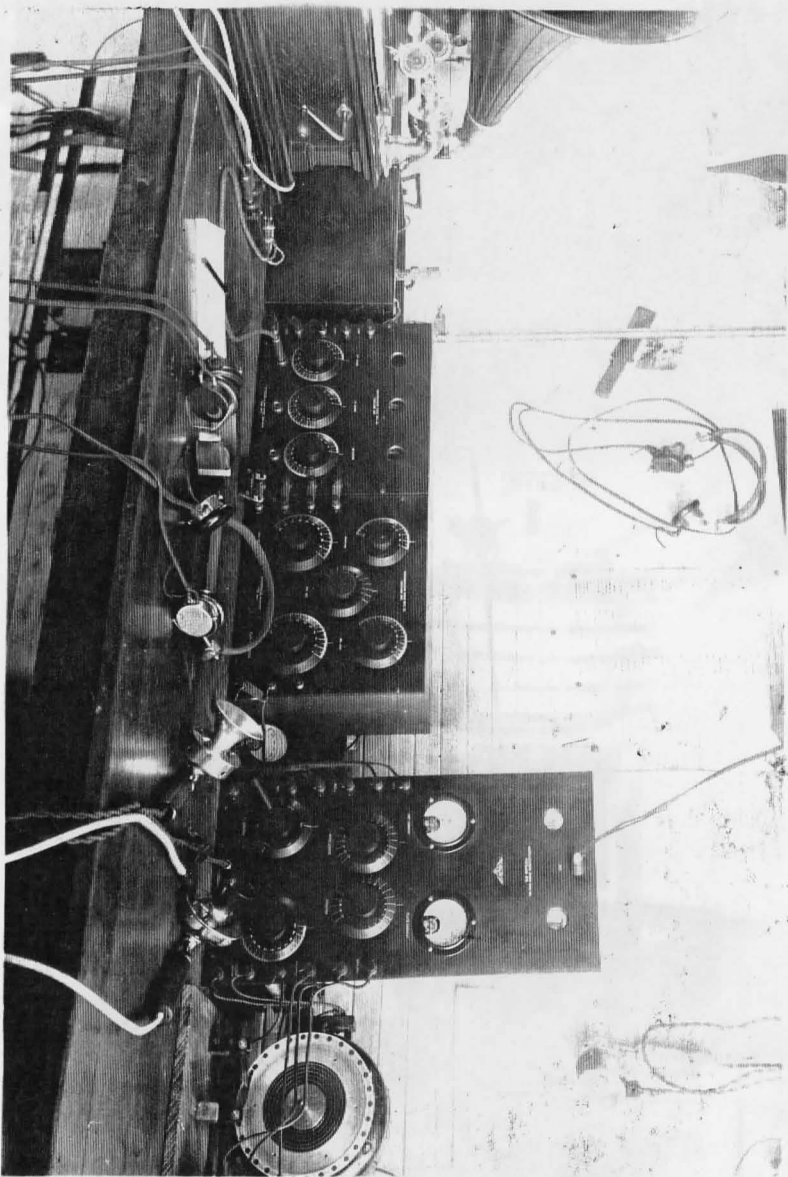
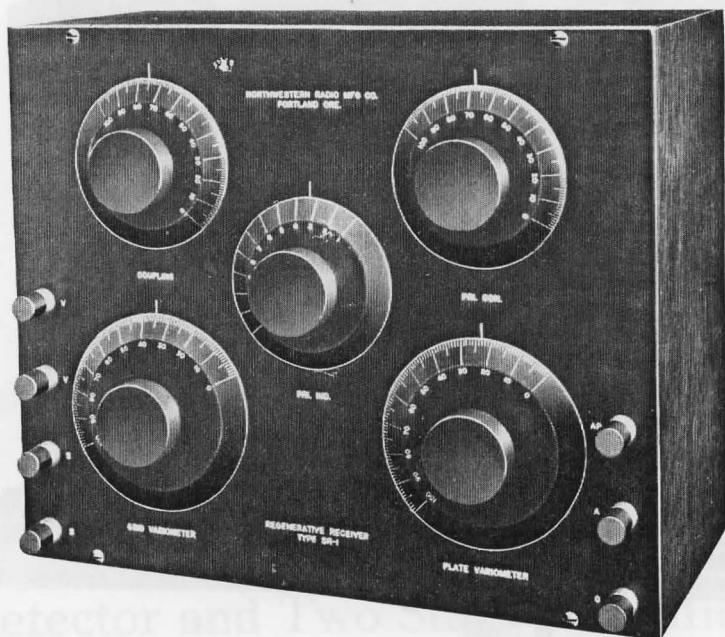


Photo of Charles Austin's amateur station in 1910.  
Portland, Oregon.



## KFX KGN

Broadcast station KGN, licensed on March 31st, 1922, (previous calls KFX and 7XF) with transmitter and receiver by **Norco**, the Northwestern Radio Manufacturing Company, Portland, Oregon. A carbon button mic hung in front of the phonograph on the left to transmit music. Charles M. Austin, co-owner of **Norco** owned KGN.



## Short Wave Regenerative Receiver

Type SR-1  
Wave Length Range 170 to 850 Meters.

**W**ITH the needs of the Radio Relay Man in mind we designed our type SR-1 Short Wave Receiver. We believe that in this set we have embodied all of the most desirable qualities needed in a receiver for this service.

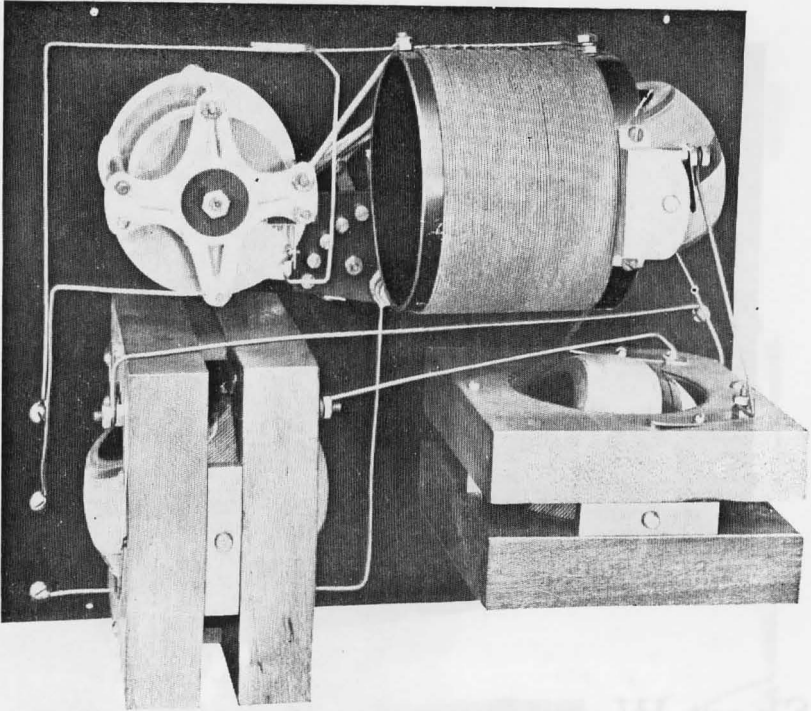
The wave length range of this receiver is such that all waves used by the Amateur may be readily covered without using any external capacities of any kind. The secondary circuit of the Type SR-1 is such that when shunted by a small fixed capacity the operator may tune to waves up to and including 850 meters. This fixed capacity is furnished with each receiver, and allows the receiver to be employed for the reception of commercial ship and shore stations.

The primary circuit of this receiver consists of a variable inductance connected in series with the Antenna tuning condenser. The inductance is so tapped as to enable the operator to select the proper values of inductance and capacity. The switch controlling the variations of this inductance is mounted on the back of the panel, the amount of inductance in circuit at any time being indicated by a dial on the front of the panel. Binding posts are so arranged that the antenna condenser can be connected in parallel with the primary inductance to cover longer waves when the set is used in connection with a small antenna.

The secondary circuit is tuned by means of a Variometer connected in series with a Variocoupler. The Variometer is the same as our standard Variometer, Type SR-7, which is fully described elsewhere. The Variocoupler used is our Type SR-8.

Regeneration is accomplished by tuning the plate circuit with a Variometer, this being one of the most efficient methods for short wave reception.

Our Type SR-1 Short Wave Regenerative Receiver consists of the following units properly mounted in correct relation to one another: Variocoupler Type SR-8, two Variometers Type SR-7 and balanced series condenser.



Type SR-1. Back View.

#### SPECIFICATIONS

**PANEL**—Bakelite Dilecto Grade XX hand finished.

**CABINET**—Oak, Flemish finished and waxed.

**DIALS**—Turned from quarter inch Grade XX Bakelite Dilecto (figures engraved on Pantograph Engraving Machine.

**KNOBS**—Turned from one-half inch Bakelite Dilecto Grade XX.

**WINDING FORMS**—Bakelite Dilecto tubing and Kiln Dried and treated Hard Maple.

**METAL PARTS**—Brass nicked Satin finish, Aluminum Castings on Vario-Coupler.

**ENGRAVING**—All engraving done with Gorton Pantograph Engraving Machine.

**DIMENSIONS**—Panel  $10\frac{1}{2} \times 12\frac{3}{4}$  inches, one quarter inch thick. Cabinet 5 inches deep.

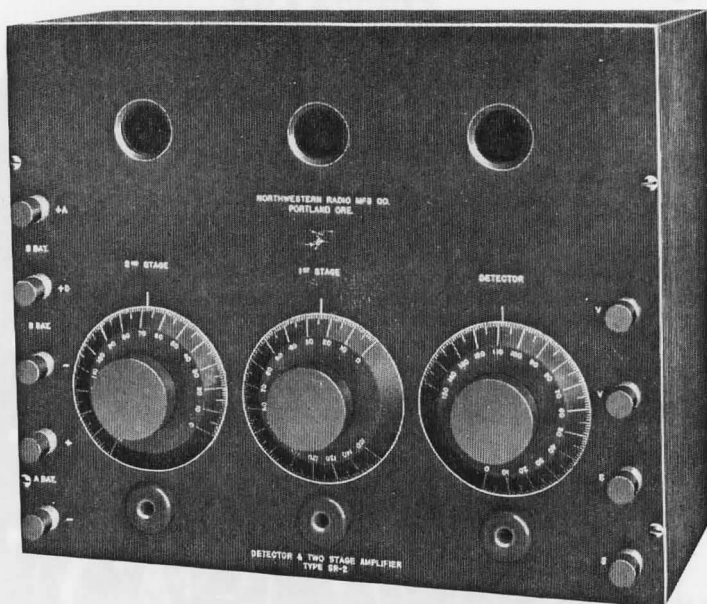
**WEIGHT**—Net weight 13 pounds, Shipping weight 20 pounds. Wiring diagrams and instructions are furnished with each set.

**CAT. No. A-500. TYPE SR-1. DESCRIPTION**—Short Wave Regenerative Receiver.  
**PRICE** \$60.00

## NORTHWESTERN RADIO MFG. CO.

1556 EAST TAYLOR STREET

PORTLAND, OREGON



## Detector and Two Stage Amplifier

Type SR-2

**R**EALIZING what was required in both a detector and an amplifier, we constructed this unit, our Type SR-2. This detector and two-stage amplifier embodies the latest improvement in radio engineering.

This set has the same outside dimensions as our Regenerative Receiver, Type SR-1, and when these two sets are used in conjunction they form "THE COMBINATIONS OF ALL COMBINATIONS," making the ideal receiver for the relay man. However, this set is so constructed that it may be used in conjunction with any receiver, either short or long wave.

Special care has been taken to eliminate all howling and squealing which is often found in amplifiers of more than one stage.

Our Type SR-9 machined aluminum tube sockets are used throughout this unit.

The three tube sockets are mounted on a sub-base of one-eighth-inch Bakelite, which is supported by aluminum brackets attached to the back of the main panel. This makes a neat and compact arrangement.

The amplifying transformers are also mounted upon this sub-base and to the rear of the tube sockets.

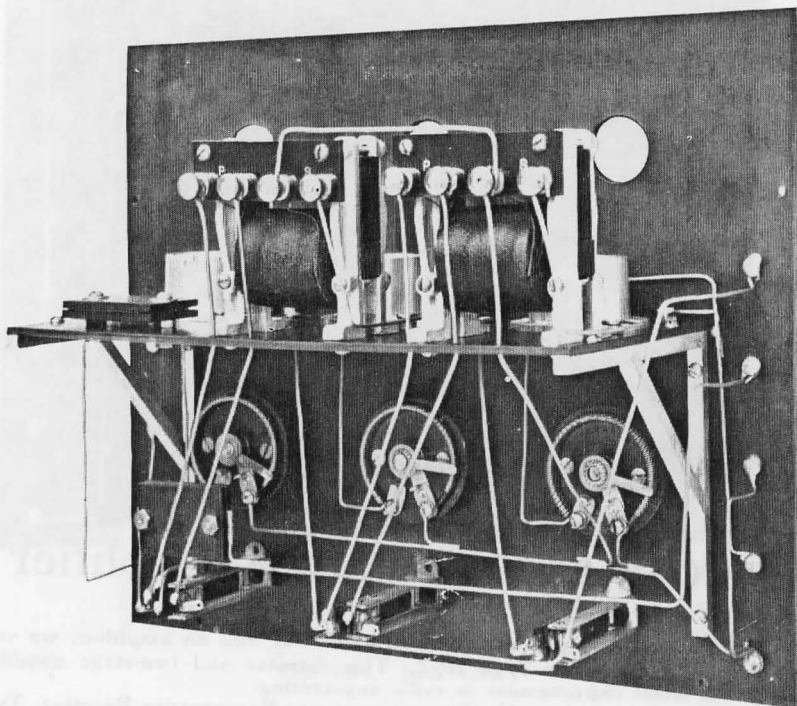
The Grid Condenser is constructed of the best mica interleaved with thin metal plates tightly clamped between one-eighth-inch Bakelite, and is located on the sub-base directly behind the detector tube. Our grid leak is adjustable and is made a part of the grid condenser.

Our Bridging Condenser is similar in construction to the Grid Condenser, and is of the proper size for efficient operation on all wave lengths.

Rheostats are mounted directly on back of main panel, and are of sufficient resistance for the control of the filaments on all standard types of tubes. Our standard bakelite Knobs and Dials, Type SR-10, are used to indicate the position of the rheostats.

Western Electric Jacks are used in all our detector and amplifier units. These we have found give superior results and stand up under the hardest use.

Accessibility to the grid leak and tube sockets is obtained in a novel way, the upper portion of the cabinet being hinged in such a manner as to make them easily accessible without subtracting from the appearance of the unit.



Type SR-2. Back View

#### SPECIFICATIONS

PANEL—Bakelite Dilector Grade XX Hand finished.

CABINET—Oak, Flemish finish and waxed.

DIALS—Turned from quarter-inch Grade XX Bakelite Dilecto. Figure engraved on Pantograph Engraving Machine.

KNOBS—Turned from one-half inch Bakelite Dilecto, Grade XX.

METAL PARTS—Brass parts nickered satin finish. Bracket supports cast aluminum.

ENGRAVING—All engraving done with Gorton Pantograph Engraving Machine.

DIMENSIONS—Panel  $10\frac{1}{2} \times 12\frac{3}{4}$  inches. One quarter inch thick. Cabinet 6 inches deep.

WEIGHT—Net 10 lbs. Shipping weight 17 lbs..

CAT. No. A-503. TYPE SR-2. DESCRIPTION—Detector and Two Stage Amplifier.

PRICE \$70.00

## NORTHWESTERN RADIO MFG. CO.

# SWAP SHOP

---

## WANTED

Wurlitzer 312 & 412 amp #660 R.A. Dielschneider 7040 SW 2nd Portland OR 97219  
503/246/1022.

Rare Tubes, Spark equip, Telegraph Keys Don Iverson 10115 NW St. Helens Rd.  
Portland OR 97231 503/286/1144

Catalin radios, Early TVs, trade magazines, Crosley 59 chassis or complete set. Blue  
O1As. Ken Korhonen 4022 41st Ave SW Seattle WA 98116 206/932/9363.

Rider XVIII, Kolster K43 power supply or information on same, lid for Zenith  
7G605 Jim Gianacos 9110 122nd Pl SE Renton WA 98056 206/228/9398 or  
206/784/9417

Philco power transformer 32-8204N for model 42-1010 David Braun 17554 12th NE  
Seattle WA 98155 206/363/1980

Riders I, II, XVIII thru XXIII Jim Barrows 15121 41st Ave SE Bothell WA  
206/337/4880

Battery Eliminator for farm radio Alan Wallace 5046 15th Ave NE #6 Seattle WA  
98105 206/526/8102

Grunow 801A radiol Also want an old Hammarlund communications receiver.  
what have you? Darrell Forsberg 12209 1st Ave NW Seattle WA 98177  
206/363/0754

Sparton cabinet for model 1867 (18 tube). Art Corbus 5704 11th Ave NW Seattle  
WA 98107 206/784/2482

Chassis for Parts: Power transformer and TRF tuning assembly such as Philco 87 or  
RCA 32, 52, RE45, RE75 or any similar chassis. Reverse cone speaker such as  
Crosley Musicone. John Otterstedt 5530 SW Martha Terrace Portland OR 97201  
503/244/6571

Tubes two each types 245, 246 & 250. Barry Sims 19950 S. Forest Hill Dr. Oregon  
City OR 97045 503/631/3219

Hallicrafters wood speaker table for the DD-1 Jim Clark 1292 Starboard Okemos  
MI 48864 517/349/2249.

Consoles: Philco 42-1012, 13 & 16; Zenith 8S-593 & 94. Classic Radio Service Dan  
Healy PO Box 764 Woodacre CA 94973 415/488/4596.

## FOR SALE

Radiola III with tubes & book. Al Lemke 10004 206th Ave NE Redmond WA  
206/868/8165

Four Beta VCRs Sony & Sanyo all work perfectly \$30 each. Walt Kiefner 6233 51st  
Ave NE Seattle WA 98115 206/524/1388

Zenith parts chassis 5907 Gordon Phillips 610 NE Royal Ct. Portland OR 97232  
503/234/3517

Tubes, meters, test equipment. Bob Lee at R5-D3 Electronic Surplus 6111  
SE 82nd Ave Portland OR 97266 503/774/6560





# Ole!

## (acquisitions)

---

Andy Bell

1930 Supreme 339  
Deluxe Radio Analyzer

Richard Bell

Crosley "Duette" blue

David Braun

1936 Belmont BRC-778A

Kim Brickmam

1935 Stromberg  
Carlson 810 console

Edwin Buhite

Crown seven volume  
set of service manuals

Kirk Burress

Cyart Butterscotch  
Lucite table radio

Ken Burton

1936 Arvin Rythm  
Senior console

1931 Philco 16

Jerry Cappoen

Philco chairside cabinet

Rich Clearman

1928 Case (Indiana Electric)  
Inlaid Highboy Cabinet

Sonny Clutter

1932 Philco cathedral  
1933 Majestic 460A wood deco

1938 Wilcox Gay bakelite  
Thin Man wall radio

1940 Sparton advertising clock

Doug Davee

1946 FADA 652 in Butterscotch  
Think I might keep it, even  
though it was free !

R.A. Dielschneider

1940 Zenith 6S-469 console

1937 Zenith 6S-152 console

1936 Zenith 12-A-58 console

1940 GE H-87 console

1937 Sparton 1567 console

1946 Philco 46-1226 console

Seeburg 8200 Jukebox

Wurlitzer 312 Jukebox

1936 Wurlitzer 412 chassis in  
Seeburg cabinet

Tony Hauser

KING 1090 advertising radio

Tom Hoskins

1955 Guild "Country Bell"  
wall phone radio

Dan Howard

Pepsi cooler radio

1925 Remler Kit home built  
radio

Don Iverson

Deforest DV3 tube

Deforest DV4 tube

Elkinode rectifier - new

Peter Pan Cathedral

Walt Kiefner

Angelus Cathedral

AK 708 round top

Grunow chrome grill  
mantel set

RCA 5T Tombstone

Garod 5A-2 white bakelite

Philco 38-9 deco mantel set



Ken Korhonen  
Graybar model 8 Tombstone  
1950 Art deco TV lamp

Jim Mason  
1940 Scott Phantom in  
Acousticraft cabinet  
Aircraft Owners & Pilots Assoc.  
5 tube 2 band portable

Ray Nelson  
1955 Raytheon 8TP2 transistor  
1962 Sony 8-301W TV transistor  
Crosley 11-130U maroon  
Jewelers radio  
1955 Guild "Country Bell"  
wall phone radio

John Otterstedt  
1930 Majestic 90 console  
1928 Atwater Kent 40  
Western Electric Horn  
1930 Philco 20 console  
Airline bakelite

Gordon Phillips  
Majestic 70 console  
Arvin tin box  
1956 Zenith Y832 portable  
Emerson wood  
portable DQ334  
Zenith Royal 3000

Gene Pupo  
Arvin 440T metal  
Crosley 11-118U

Lee Ray  
1937 Philco 37-116  
1943 Navy SW Receiver  
by Collins

Art Redman  
1933 Television book  
by Hathaway

Barry Sims  
1946 Philco 46-350 portable  
Travler 5015 table set

Jerry Talbott  
1931 GE S-22X Tombstone  
Clock Radio with  
brass handle  
1950 Braun 560W multiband  
German bakelite

Bob Walter  
1930 Wurlitzer J

G. Watzig  
Dick Tracy Capt Crunch  
wrist radio new promo  
item

## NOTICE

Antique Radio Estate Sale  
Seattle, Washington  
November 18, 1990 2:45 PM  
Address will be provided at  
the PSARA meeting. Over 100 AC  
radios from 20s -60s, Numerous  
Chassis, N.O.S. Tubes, parts, coils  
Transformers, used tubes, Belts  
Cathedrals, Consoles, Tombstone  
50 car radios 30s-50s, vibrators  
1,000 mags: Radio Retail, Call  
Book, Rad. News & more. Victrolas  
Displays & Signs, Test Equip.  
Free televisions BW & color.  
Battery Sets, Emerson 614 TV,  
NO PREVIEWS  
LOWER THAN SWAP MEET PRICES

### Schedule:

2:45 Firm prices  
4:00 Negotiable  
5:00 Remains Auctioned  
Sale Conducted by Walt  
Kiefner on behalf of  
the owner

