



# CALL

# LETTER

VOLUME 17      DECEMBER 1991      NUMBER 12

# KJR



## WONDERPHONE

The first KJR mike



# CALL LETTER

## The Northwest Vintage Radio Society

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 CALL LETTER was founded in 1974 by Harley Perkins (our first President). Editors have served as follows: 1975/77 Bob Bilbie, 1977/78 Bob Hay, 1978/79 Tom James, 1980 Bill DeVey, 1981/83 Jim Mason, 1983/87 Richard Karman & 1987/91 Edwin Buhite.

The Northwest Vintage Radio Society meets at the Northwest Vintage Radio Museum 7675 SW Capitol Highway (at 32nd St.) Portland, Oregon (Museum Phone (503) 246/3400.)

Business Meetings are held at 10:00 AM (Noon in December) on the second Saturday of each month except for summer vacation in August. The meetings are an opportunity to exchange information and advice. The July Swap is at Speed's in Keizer, Oregon. All Swap Meets begin at 8:00 AM.

Annual Dues: \$15-- Renewals are due January 1st

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# Contents



<u>ITEM</u>	<u>Dec. 1991</u>	<u>PAGE</u>
KJR's first microphone: WONDERPHONE .....		1
Introduction .....		2
Contents .....		3
K J R by F.W.Sloat .....		4,5
WONDERPHONE by F.W.Sloat .....		6
Ole! .....		7
P S A R A Meeting Minutes .....		7
P S A R A Party .....		8
From the P S A R A President's Desk .....		7,8
P S A R A Contest Results .....		9,10
Hear Ye, Hear Ye! by Dick Karman .....		11
In Memory of Bill Baker by Dick Karman ...		11
The Wirewound Condenser by Matt Thornton		12
N W V R S Meeting, Election & Dinner ....		13
Three Letter Calls by John Schneider .....		14
Swap Shop .....		15
***** 1991 STAFF *****		
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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. 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. All transactions are on an "as is" basis with the new owner assuming all responsibility.

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N W V R S & P S A R A are both taking final orders for Radio Manufacturer's of the 20's Vol. 3 at the Dec. Meetings.

\*\*\*\*\*

Coming in January: F.W.Sloat's KGW Story including Hoot Owls.

\*\*\*\*\*

# KJR

Northwest Radio Service Company, 1328 Sixth Avenue  
Seattle, Washington

by F.W. Sloat W7AHK (from a personal interview with Vincent Kraft.)

KJR, licensed in the spring of 1922, was broadcasting as 7XC in the fall of 1921. Vincent Kraft started his radio career as an amateur operator before leaving high school in 1911. He was "PV" in Seattle before the days of licensing by the government. He remembers the Portland pioneer Charles Austin in those years as "C-2". The sea called to Vincent and he made many trips to Alaska as "Sparks" on various ships. His first meeting with the Portland old timers Joe Hallock and Cliff Watson was in 1912 on the ship "Senator" where Hallock was operator.

From 1913-1917 Kraft was installing wireless equipment, and servicing same, for the United Wireless Telegraph Company-later to become part of the Marconi Company. He remembers going to Vancouver, Washington, during World War 1, to equip the first of the wooden ships turned out by the Standifer Shipyards in that city. The new ship was the "James Tinson" and the yards were very proud of her. For a trial run they went from Vancouver over to the Willamette River and up the Willamette to Portland, and made every draw bridge open up for them. They then returned, all bridges having to open again. This was just to show Portland what Vancouver had built!

In recalling the old days on the Pacific, Vincent recalled that Charlie Austin was the operator on the SS Rose City, "H-2". The Rose City was a sister ship of the SS Northwestern which was on the Seattle-Alaska run for many years. She ended her career in the Aleutians where she was serving as a sort of dormitory for some installation out there. One day the Japanese came over and bombed the tar out of her, thinking she was an active ship. In the early 1920's the pride of Portland were the SS Beaver and the SS Bear, which along with the Rose City ran from Portland to California. Other ships in the Portland "coastwise" trade were the Breakwater and the George W. Elder. The big steamers from Seattle included the President, Governor, Queen, City of Pueblo, Umatilla and many Admiral Line ships. In 1915 the Great Northern and the Northern Pacific ran from Flavel, Oregon, just off the coast at Seaside, to San Francisco. Their time beat the Southern Pacific train's time from



Portland to Frisco. Forty years ago you could see passenger liners and freighters passing by just off the coast at Seaside, Oregon, but today you can watch for days and never see anything but small fishing boats".

In 1919 Vincent was head instructor at the Seattle YMCA radio school when he became W7AC. At time of this writing he is W7AB. In 1921 he began broadcasting phonograph records from a ten watt modulated oscillator located in the basement of his home. Later the station became KJR, when licensed under the new broadcast category.

One of the situations to accompany the first broadcasting was that all stations were on 360 meters. No two stations in the same area could get on the air at the same time without creating bedlam. The licensees would all get together in the radio inspector's office and try to work out an agreeable schedule.

KJR made progressive power increases from the original ten watts up to 20,000 watts in 1926. In that year Kraft constructed KEX in Portland, and KGA in Spokane, both identical to KJR, even to the transmitter buildings and antennas. He also constructed KYA in San Francisco and all four stations are still operating with the same call letters. These stations gave an hourly time signal by sending dots at each second just before the hour and a dash exactly on the hour. With their "super power" of 20,000 watts they gave the Pacific coast another "first" in broadcasting.

The first microphone used at KJR was the Wonderphone, manufactured in Seattle. This is covered on the following page.

A humorous incident, not so funny at the time, was related by Vincent. "In 1924 we moved KJR to the Terminal Sales Building, 1st and Virginia Streets. It was a new transmitter with 2000 volts of storage batteries and an intricate switching system for recharging. The new equipment used Western Electric 212D tubes, and they cost \$125.00 each. When the first ones were inserted and the power turned on they burned out. More were installed and they too "went west". At this point the matter was taken up with the company or distributor. He was told that the tubes were no good, as we had no trouble with other makes. The company cancelled the bill. After I installed some parasitic suppressors we had no more trouble with their tubes".





# The Wonderphone

by F.W.Sloat W7AHK

A standard accessory at many of the pioneer broadcast stations was the Seattle built Wonderphone carbon button microphone.

P.J. Hackett, WA7DSK, and a former official of the Universal high Power Telephone Company, described the company's products to the writer as follows. "The Wonderphone was developed primarily as a modulation means for the Dubilier wireless telephone, which was an arc transmitter. This was in 1911-1912. Up to that time no microphones with sufficient power handling capability were available.

As tube transmitters came into being these high-power microphones were used in a number of the first stations here in the Northwest, KJR being one, of which V.I.Kraft was the original builder and operator. The first music pickups were nothing more than placing a high power microphone close to the existing sound box or reproducer. Later the sound box was eliminated and the stylus was connected directly to the carbon cups. As both the microphones and the pickups were of the differential types, two or more of the carbon cups were always used.

The Wonderphone high power phone at one time was quite extensively used by the U.S. Forest Service, power companies, railroads for train dispatching and the Chicago fire departments on their "all talker" which was for talking to all stations in the city at once.

It seemed to us, that somewhere, many years ago, we had seen a photo of a Wonderphone loudspeaker. We asked Mr Hackett about this. "yes, the Universal company did manufacture a loud speaker. It had a powerful, adjustable, polarized magnet acting upon a soft steel diaphragm formed with a series of expanding concentric lands and angles like a stepped funnel. The diaphragm action was like several diaphragms in one. The center land would respond to the highest pitch or most rapid vibrations and the outer lands would respond in sequence as the pitch was reduced to where the whole diaphragm responded to the lowest tones. This type of construction tended to minimize the squawking sound when the low tones acted on the center portion of the diaphragm and to reduce the rumble when the high notes acted on the diaphragm as a whole. This was a horn type speaker".



# Ole! (acquisitions)

---

**Edwin Buhite**

Zenith X390 Walnut clock/radio

**R.A. Dielschneider**

Airlines: 62-150 Tombstone, 62-311 Movie Dial Console, 62-308 Movie Dial Console, Brunswick 11A Tombstone, Crosley 124 cathedral, G.E. G97 Console with clock, Midwest Console, Philcos: 18 Cathedral, 90 Cathedral, 39-40 Console, 41-221 wood table set, 40-145 wood table set, Sparton 1068 console, Western Air Patrol Cathedral, Zeniths: 5-S-118 table set, 6-S-128 Tombstone, 12-H-670 console.

**Tony Hauser**

1953 Philco Transitone 53-561 (cream plastic set)

**Steven Martin**

Transistor Sets: Sony TR-72 Hoffman Transolar, Tube Portables: Automatic Tom Thumb, Harpers GK501, Revere 400.

## PSARA Meeting Minutes

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Seattle, Washington Sunday Nov. 17, 1991

Because of the annual PSARA Contest, no formal business meeting was held.

We had a great turn out for the contest. Some of the old timers in the club say that this years number of radios were the most ever. Some tough competition for the very nice ribbons acquired by Dave Dintenfass. Again thanks very much to John Schneider for the computer tally that follows the minutes.

We need more sign-up for the indoor Swap Meet to be held sometime in Feb '92. Call or see Bob Phelps at the next meeting on Dec 9, 1991, Also I have the sign-up sheet for the "Radio Manufacturer's of the 1920s Volume 3 book, so if you want in on it, call me or see me at the next meeting.

Thats it till next month -

David Braun, PSARA Secretary

### From the President's Desk

*David Dintenfass, PSARA president*

I'm happy to report that we had a very successful contest this year. There were more radios than ever! We had a chance to look over some very interesting sets. Thanks to everyone who entered items—I know it isn't always easy to transport the goods, particularly for the consoles and larger table sets.



Thanks also to John Schneider for his computerized check-in and tally procedures. Although I wouldn't describe the current check-in as totally painless, it sure was faster than waiting in line to get your driver's license renewed! Thanks also to David Braun and Steve von Talge, who helped contestants set up their entries.

## Christmas Party

Steve von Talge is having a Christmas party for PSARA members at his house on Saturday, December 14th. If you like old radios, you don't want to miss this! The party begins at 7:30 pm and runs until midnight. The address is 333 NW 74th Street. This is half a block west of Greenwood Avenue in the Greenwood/Ballard area. For more information, call Steve at 783-2543 or 527-2829.

## December's Meeting

**Reminder:** December's meeting is held on the *second* Sunday of the month, unlike our other meetings. **December 9**

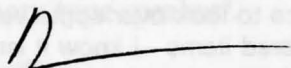
For December's meeting, we're going to have a special matinee presentation of three videotapes – two shorts and a regular feature.

We'll be showing excerpts from the *Early Days of Philco Radio* which includes rare footage of the Philco factory during the late 1920s. We'll also be viewing a short feature produced by club member Walt Kiefner; this is a series of clips from old movies featuring both common and unusual radios.

Our feature is *An Afternoon with John Mullin*, produced by the Audio Engineering Society. Some of you may have read Mr. Mullin's articles over the past few decades in magazines such as *Audio* and the *Journal of the Audio Engineering Society*. This is a guided tour of Mr. Mullin's sound recording collection – a fascinating collection of early disc and tape equipment, some of it exceedingly rare.

And of course, if you have ideas for a presentation, please give me a call. You can reach me at (206) 784-4803 most evenings after 7 pm.

Regards,



David Dintenfass





## HERE ARE THE TABULATIONS FOR CATEGORY A -- CRYSTAL SETS:

No.	Contestant:	Radio:	Score:	Winner:
A-1	Ed Curry	DeForest Crystal Set	88	< 1st
A-3	Bob Phelps	Howe Radio Receiver	83	< 2nd
A-2	Howard Page	Home Brew Super-Select Cryst	51	< 3rd

## HERE ARE THE TABULATIONS FOR CATEGORY B -- BATTERY SETS:

No.	Contestant:	Radio:	Score:	Winner:
B-5	Steven Berglund	Stewart-Warner 520	59	< 1st
B-7	Tex Sloat	Atwater Kent 5 Breadboard	52	< 2nd
B-1	Ed Curry	A-K 12 Breadboard w/ spkr/la	34	< 3rd
B-9	John Schneider	Atwater Kent 12 Brdboard KFX	28	
B-4	Howard Page	North Home 6 tube TRF	19	
B-2	Pete Petersen	1924 Crescent Receiver	8	
B-6	Art Corbus	Radiodyne (Western Coil)	7	
B-8	Eric Lofquist	Westinghouse Aeriola Sr.	7	
B-3	Howard Page	Home-made 3 tube regenerativ	6	

## HERE ARE THE TABULATIONS FOR CATEGORY C -- AC SETS WITH WOOD CABINETS:

No.	Contestant:	Radio:	Score:	Winner:
C-6	Roy Sperline	1933 Zenith 715	47	< 1st
C-1	Ed Curry	G-E table radio with clock	45	< 2nd
C-2	Art Corbus	Emerson Treasure Chest Radio	40	< 3rd
C-11	John Schneider	Philco 650	28	
C-9	Matt Thornton	1930 Powell Cathedral	18	
C-12	John Schneider	RCA R-28P midget cathedral	10	
C-3	Jerry Coppoe	Airline Tele-dial	9	
C-7	Walt Kiefner	Angelus Cathedral	9	
C-8	Richard Gerlt	Philco 60B	8	
C-5	Lauren Countryman	Austin S/N 6702	3	
C-10	David Dintenfass	J.W. Miller Hi-Fi AM Tuner	2	

## HERE ARE THE TABULATIONS FOR CATEGORY D -- AC SETS WITH NON-WOOD CABINETS:

No.	Contestant:	Radio:	Score:	Winner:
D-5	Gene Pupo	1941 G-E Jewelbox Catalin L8	58	< 1st
D-6	Steven Berglund	Arvin Radio/Phonograph	47	< 2nd
D-9	Lauren Countryman	Eveready Model 2	25	< 3rd
D-10	Robert Rettmer	A-K model 38 w/speaker	23	
D-4	Gene Pupo	1948 Talisman (German) 308U	18	
D-1	Bob Dye	Belmont 6D-120, 1947	15	
D-2	Ed Curry	Crosley plastic table radio	9	
D-3	Dick Bell	Sears model 8000	9	
D-8	Ken Korhonen	Karola "flocked" table radio	4	
D-7	Harold Hagen	Coronado 8360A	3	
D-11	Eric Lofquist	Arvin AC/DC 450TL tabletop	2	

## HERE ARE THE TABULATIONS FOR CATEGORY E -- MILITARY, AMATEUR, COMMUNIC.:

No.	Contestant:	Radio:	Score:	Winner:
E-2	Pete Petersen	1938 Hamerlund Super Pro	90	< 1st
E-5	Bob Phelps	Harvey Wells Transmitter	41	< 2nd
E-1	Glen Nichols	Military BC611-C	39	< 3rd
E-3	Jerry Brannon	Stewart Warner Porta-Phone	35	
E-4	Jerry Brannon	Motorola Air-Boy	13	

## HERE ARE THE TABULATIONS FOR CATEGORY F -- NOVELTY RADIOS:

No.	Contestant:	Radio:	Score:	Winner:
F-1	Jim Gianacos	Abbotwares Horse/Radio	91	< 1st
F-3	Walt Kiefner	Heinz Catsup Bottle/Radio	66	< 2nd
F-2	Jerry Brannon	Dancing Slimer	53	< 3rd



## HERE ARE THE TABULATIONS FOR CATEGORY G -- TRANSISTOR RADIOS:

No.	Contestant:	Radio:	Score:	Winner:
G-1	Dick Bell	Toshiba portable	105	< 1st

## HERE ARE THE TABULATIONS FOR CATEGORY H -- VACUUM TUBE PORTABLE RADIOS:

No.	Contestant:	Radio:	Score:	Winner:
H-18	John Schneider	RCA Radiola 24 Suitcase Port	80	< 1st
H-12	Pete Petersen	Rees-Mace "Gnome"	32	< 2nd
H-11	Al Odmark	7 tube portable, brand unkno	28	< 3rd
H-1	Glen Nichols	Zenith 7G605	17	
H-10	Bob Dye	Emerson 558, 1948	12	
H-13	Steven Berglund	Crown PR-530	10	
H-14	Lauren Countryman	Zenith 1600	7	
H-3	Glen Nichols	Zenith 8G601M	8	
H-7	Glen Nichols	Emerson 508	5	
H-15	Roy Sperline	Sparton 66 mid-40's	5	
H-2	Glen Nichols	Zenith Y600	3	
H-5	Glen Nichols	Zenith H500	3	
H-8	Glen Nichols	Motorola 5P31A	3	
H-16	Walt Kiefner	Motorola red portable	2	
H-17	Richard Gerlt	Philco PT-88	2	
H-4	Glen Nichols	Zenith G500	1	
H-6	Glen Nichols	Punchboard Prize	1	
H-9	Glen Nichols	Firestone 7402-6	1	

## HERE ARE THE TABULATIONS FOR CATEGORY I -- MISCELLANEOUS:

No.	Contestant:	Radio:	Score:	Winner:
I-3	Ed Curry	Pathe Speaker	61	< 1st
I-6	Tex Sloat	Amplion Loudspeaker	40	< 2nd
I-5	Pete Petersen	Laboratory Variable Condense	37	< 3rd
I-4	Pete Petersen	R406 Sterling Tube Tester	25	
I-7	David Dintenfass	Magna-Mite spring tape recor	24	
I-8	John Schneider	Gates ST-101 "Spot Tape"	8	
I-1	Ed Curry	Table microphone	5	
I-2	Ed Curry	Floor model microphone	3	

## HERE ARE THE TABULATIONS FOR BEST OF SHOW:

No.	Contestant:	Radio:	Score:	Winner:
B-5	Steven Berglund	Stewart-Warner 520	40	< 1st
B-7	Tex Sloat	Atwater Kent 5 Breadboard	19	< 2nd
B-1	Ed Curry	A-K 12 Breadboard w/ spkr/la	18	< 3rd
H-1	John Schneider	RCA Radiola 24 Suitcase Port	17	
E-2	Pete Petersen	1938 Hammerlund Super Pro	14	
B-9	John Schneider	Atwater Kent 12 Brdboard KFX	9	
D-6	Steven Berglund	Arvin Radio/Phonograph	8	
C-2	Art Corbus	Emerson Treasure Chest Radio	7	
D-5	Gene Pupo	1941 G-E Jewelbox Catalin LB	7	
B-2	Pete Petersen	1924 Crescent Receiver	4	
C-6	Roy Sperline	1933 Zenith 715	4	
B-4	Howard Page	North Home 6 tube TRF	2	
C-3	Jerry Cappoon	Airline Tele-dial	2	
C-9	Matt Thornton	1930 Powell Cathedral	2	
C-1	John Schneider	Philco 650	2	
D-3	Dick Bell	Sears model 8000	2	
D-4	Gene Pupo	1948 Talisman (German) 308U	2	
A-3	Bob Phelps	Howe Radio Receiver	1	
B-6	Art Corbus	Radiodyne (Western Coil)	1	
C-7	Walt Kiefner	Angelus Cathedral	1	
H-4	Glen Nichols	Zenith G500	1	



# Hear Ye, Hear Ye !

The 1991 Board of Directors of the Northwest Vintage Radio Society proposes these amendments to the Society's constitution. They shall be discussed at the December membership meeting and voted on at the January annual business meeting.

1. [to modify article 2 section 6.] REMOVE: Associate membership is limited to those persons living 100 miles or more from Oregon City. ADD: Associate membership is limited to those persons who belong to an association or society who share goals common to this society, and with which a reciprocal membership policy exists.

2. [to modify Article 3. Sections 1 and 3 and to clarify constitutional amendments made last year.] Add to section 1. Annual dues are for the calendar year which is also the society's fiscal year. REPLACE Article 3. Section 3. with: New members joining during the months of February through September shall pay prorated dues based on the full year's dues less one-twelfth of that amount per month, times the number of months elapsed. New members joining in October, November or December, shall pay the next year's dues in full and shall immediately become a member in good standing.

3. [to modify Article 4. Section 2.] REMOVE: The election of officers shall be held at the December regular meeting. ADD: Nominations shall be published in the December newsletter. Ballots shall be mailed to all members in good standing along with the the December Newsletter. Ballots shall be returned by December 31st, to the Society Post Office Box, in order to be counted at the January meeting, at which the new officers shall be installed.

4. [to modify Article 5. Section 6.] ADD: The board of directors shall meet at least once during each half of the fiscal year to conduct the business of the society.

Once adopted by the membership these shall become part of the constitution and the 1992 board of directors shall modify the by-laws to be in keeping with these changes.

## In Memory

Thanks to a long-time friend of the society, Virginia Ranken, we have learned that Charter Member Bill Baker passed away on October 13th. Bill was 69 years old and has not been well enough to regularly attend meetings for several years. Many members do, however, remember his love for old radios and particularly his Kilbourne and Clark set which he displayed at meetings. His wife Florence and their son Bob suggest memorial gifts to the Troutdale Historical Society, where Bill was a member.

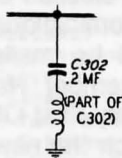


## THE WIREWOUND CONDENSER CAPER

Finally there is an explanation of those strange condensers with seven or eight turns of insulated wire in AC-DC radios. The circuit description for the Philco Model 49-505 tells the story:

Condenser C302 in Section 3 is a special condenser, inductively wound to form a series-tuned circuit, resonant at the intermediate frequency. This special condenser offers less impedance at this frequency than a conventional condenser, thus permitting higher i-f gain, with no tendency toward instability. The inductive effect at audio frequencies is negligible. Since the tuning gang is connected to the chassis, by-passing at broadcast frequencies is adequate.

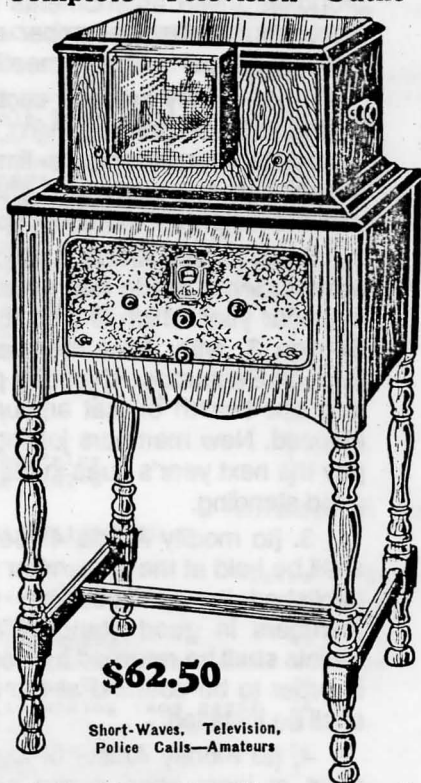
The schematic representation of the "special condenser" is:



Ordinarily there is no reason to replace one of these. The function of the condenser is to isolate the AC line from the chassis at 60 Hz. In the event the condenser gets too leaky and allows the chassis to have too much 60 Hz voltage on it, it will need replacement, and the turns of wire will also require replacement. You will find that if you don't replace the turns, the set will indeed oscillate.

Thanks to Matthew Thornton  
for this information

## Complete Television Outfit



Short-Waves, Television,  
Police Calls—Amateurs

### Includes Everything Necessary to Receive Pictures Immediately

With a Baird Television Receiver you can double your radio enjoyment. Not only can you hear your favorite radio entertainers but you can see them as well. Your home literally becomes a stage of the world. Fascinating and instructive, the ultra-modern Baird Television Receiver takes first place among all forms of home entertainment. OPERATING THIS TELEVISION RECEIVER IS JUST AS SIMPLE AS TUNING IN AN ORDINARY BROADCAST RADIO SET. ANYONE CAN OPERATE IT WITH THE GREATEST OF EASE. Comprises a Baird "Universal Short-Wave Television Receiver" and a Baird "Self-synchronizing Scanning Outfit" (both described elsewhere in this catalog) complete in a handsome mahogany cabinet with shadow-box and self-contained 6 in. magnifying lens. Designed by the foremost engineers in the industry and built by skilled mechanics. The Baird Television Receiver is a masterpiece of rugged construction and fine workmanship—YET IT COSTS NO MORE THAN A GOOD RADIO.

Measures 40½ ins. x 25 ins. x 24½ ins. Shipping weight, 80 lbs. List Price \$140.00  
No. 437 Baird Complete Television Outfit **\$62.50**  
YOUR PRICE

COMPLETE WITH SET OF 7 TRIAD OR **\$66.50**  
SPEED TUBES less tubes



# NWVRS Christmas Meeting & Dinner

MEETING DATE: December 14th

MEETING TIME: Noon

DINNER TIME: 1:30 pm

The Northwest Vintage Radio Society will hold its annual Christmas business meeting and election of officers at noon on December 14th at the Northwest Vintage Radio Museum, 7675 SW Capitol Highway in Portland. This year we also have 4 amendments to the constitution to discuss. Members who don't drive or who need help with transportation, please contact a member of the board. We'll try to help out.

A Christmas Dinner will follow shortly after 1:30. Between the meeting and the dinner the museum will be open for viewing, and Multnomah village is a half a block away. It is fun for the whole family! coffee will be provided

The board of directors wishes to apologize for any inconvenience that the change in meeting time may cause members. The meeting time change voted on in October was also not very appropriate for some members. We hope that this compromise is satisfactory. (See board meeting minutes above).



## Have You Heard?

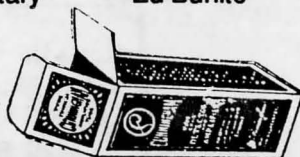
1992 NOMINEES  
for the NWVRS Dec. 14 election

President  
Vice President

Secretary

Treasurer  
Corresponding Secretary

Speed Feldschau  
Sonny Clutter  
John Otterstedt  
Art Redman  
Peter Young  
Ed Charman  
Ed Buhite





THREE LETTER CALLS  
AS OF 5/91

NUMBER OF STATIONS BY STATE:

Washington 7	Oregon 3	Utah 2
California 7	Illinois 3	Michigan 2
Iowa 5	New York 3	Tennessee 2
Pennsylvania 4	Colorado 2	Ohio 2

CALL LETTERS IN USE ON AM STATIONS:

1. KDB, Santa Barbara, CA	41. WHB, Kansas City, MO
2. KEX, Portland, OR	42. WHK, Cleveland, OH
3. KFH, Wichita, KS	43. WHO, Des Moines, IA
4. KFI, Los Angeles, CA	44. WHP, Harrisburg, PA
5. KGA, Spokane, WA	45. WIP, Philadelphia, PA
6. KGO, San Francisco, CA	46. WJR, Detroit, MI
7. KGU, Honolulu, HI	47. WKY, Oklahoma City, OK
8. KGW, Portland, OR	48. WLS, Chicago, IL
9. KGY, Olympia, WA	49. WLW, Cincinnati, OH
10. KID, Idaho Falls, ID	50. WMC, Memphis, TN
11. KIT, Yakima, WA	51. WOC, Davenport, IA
12. KJR Seattle, WA	52. WOI, Ames, IA
13. KLO, Ogden, UT	53. WOL, Washington, DC
14. KLZ, Denver, CO	54. WOR, New York, NY
15. KMA, Shenandoah, IA	55. WOW, Omaha, NE
16. KMJ, Fresno, CA	56. WSB, Atlanta, GA
17. KNX, Los Angeles, CA	57. WSM, Nashville, TN
18. KOA, Denver, CO	58. WWJ, Detroit, MI
19. KOH, Reno, NV	59. WWL, New Orleans, LA
20. KOY, Phoenix, AZ	
21. KPQ Wenatchee, WA	
22. KQV, Pittsburgh, PA	
23. KSL, Salt Lake City, UT	
24. KSO, Des Moines, IA	
25. KUJ, Walla Walla, WA	
26. KUT, Austin, TX	
27. KVI, Seattle, WA	
28. KWG, Stockton, CA	
29. KXL, Portland, OR	
30. KXO, El Centro, CA	
31. KYW, Philadelphia, PA	
32. WBT, Charlotte, NC	
33. WBZ, Boston, MA	
34. WDZ, Decatur, IL	
35. WGH, Newport News, VA	
36. WGL, Fort Wayne, IN	
37. WGN, Chicago, IL	
38. WGR, Buffalo, NY	
39. WGY, Schenectady, NY	
40. WHA, Madison, WI	

CALL LETTERS ON FM OR TV ONLY:

KGB-FM, San Diego, CA  
KHQ-TV, Los Angeles, CA  
KSD-FM, St. Louis, MO  
KYA-FM, San Francisco, CA  
WIS-TV, Columbia, SC  
WJZ-TV, Washington, DC  
WRC-TV, Washington, DC  
WRR-FM, Dallas, TX

CALL LETTERS LOST IN RECENT YEARS:

KHJ Los Angeles - Became KKHT  
WHN New York - Became WFAN  
KOB Albuquerque - Became KKOB  
KMO Tacoma - Became KKMO

Thanks to John Schneider for this information



SWAP SHOP - FOR SALE

Majestic super screen grid receiver model  
130-A chassis & G-5 Speaker. no cabinet  
\$50-- David Tuggle (503) 227/4573  
3020 SW 12th Ave Portland OR 97201

# SWAP SHOP

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## WANTED

Broken Catalin radios - any condition, Rider Television Manuals Vol. 1 & 2. **Brian Sturch** 23712 20th Ave Langley BC V3A-6H5 (604) 534/9803

Atwater Kent 10C or other Breadboard under 30.5" long, First Radio Book For Boys by Alfred Morgan 1951 or earlier edition. **Jerry Brannon** (206) 854/4234

A NAB broadcast cart machine for the Boy Scouts radio station, need not be perfect. **Dick Karman** 2515 NE 37th Ave, Portland, Or 97212, (503) 288-1285

Transistor Radios and small tube portables **Steven Martin**, 815 N Hayden Rd. Apt B-204, Scottsdale AZ, 85257, (602) 994-3162

Hallicrafters S27 - S36 receivers and tech info on radio rec. BC639. **Don Williams** 4520 NW Dorado Lane Bremerton WA 98312 (206) 692/2062

BOOKS: Abbott, Waldo and Richard Rider, Handbook of Broadcasting, McGraw Hill 1937 \* Barnouw, Erik, A Tower in Babel, Oxford University Press, 1966 \* Barnouw, Erik, Handbook of Radio Production (published around 1950) \* Barnouw, Erik, The Image Empire, Oxford University Press, 1970 \* Begun, S.J., Magnetic Recording, Rinehart and Co., 1949 \* Lowman and Angerbauer, General Magnetic Recording Theory, Ampex Corp., 1963 \* Lowman, Charles, Magnetic Recording, McGraw Hill, 1972 \* Nisbett, Alec, The Technique of the Sound Studio, Hastings House, 1962 \* Oringel, Robert S., Audio Control Handbook, Hastings House, 1956 \* Turnbull, Robert B., Radio and Television Sound Effects, Rinehart, 1961 \* Lass, A.H., E. McGill, and D. Axelrod, Plays from Radio. 1940s (no other information available) \* Wylie, Max, ed., Best Broadcasts (anthology series) \* Audio Engineering Magazine, October 1948 and August 1949 \* Miscellaneous advertising and technical literature dealing with Ampex tape recorders. **David Dintenfass** 7549 27th Ave. NW, Seattle, WA 98117 (206) 784/4803

## FOR SALE

Battery set knobs, approx 200, wide assortment \$100--, Spark coil brand X wood case \$50--, Auto Radios: GE B-40 (1932) \$35--, Zenith 666 (1935) \$50--, 1960 Tektronix 321A 3" Oscilloscope (AC/DC) restored with probe & manual \$150--. **Jerry Talbott** 1440 SW 239th Hillsboro OR 97123 (503) 649/6717.

Electronic Test equipment, Radio & TV Tubes for \$1.-- each. **Bob Lee** at R5-D3 Electronic Surplus. 6111 SE 82nd St Portland OR 97266 (503) 774/6560

Radio Manufacturers of the '20s vol.3 (both soft and hard bound) available at 40%. Order yours at the December NWVRS meeting.

