



CALL LETTER

VOLUME 14

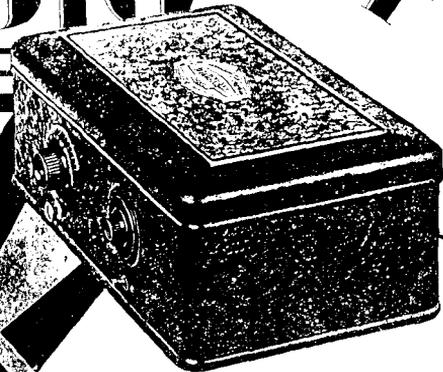
JULY 1988

NUMBER 7

ATWATER KEWITT RADIO

1929 \$
ELECTRIC SET
GIVES YOU
THE THRILL OF
RADIO
AT ITS BEST

[without
tubes]



MODEL 40 A. C. set. For 110-120 volt, 50-60 cycle alternating current. Requires six A. C. tubes and one rectifying tube, \$77.

Also Model 42 A. C. set, \$86, and Model 44 A. C. set, \$106 (without tubes).

Battery sets, \$49 and \$68 (less tubes and batteries).

CALL LETTER

The Northwest Vintage Radio Society is a non-profit historical society incorporated in the State of Oregon. Members are dedicated to the preservation and restoration of antique radio apparatus.

The Northwest Vintage Radio Society meets at the Buena Vista Club House (Atkinson Park) 16th & Jackson Street, Oregon City, Oregon. (Note: take Washington St. to 15th, 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.

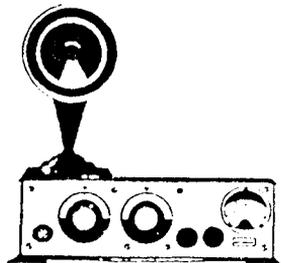
***** 1988 NWVRS OFFICERS & STAFF *****

PRESIDENT.....DAN HOWARD.....503-761-7799
VICE PRESIDENT....SONNY CLUTTER..503-254-9296
TREASURER.....ED CHARMAN.....503-654-7387
SECRETARY.....NORRIS JACKSON.503-642-5625
LIBRARIAN.....CHUCK KIBLER...503-678-5066
CORRESPONDENT.....BOB EWING.....503-648-5356

***** NWVRS MAILING ADDRESSES *****

Northwest Vintage Radio Society
P.O. Box 02379
Portland, Oregon 97202

Call Letter
4041 NE Wistaria Drive
Portland, Oregon 97212





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***** 1988 STAFF *****	
EDITOR IN CHIEF...EDWIN BUHITE...503-288-8714	
CONTRIBUTING EDITORS:	
MATT THORNTON.....206-284-4624	
DICK KARMAN.....503-288-1285	
PHOTOGRAPHER.....KEN KORHONEN...206-932-9363	

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.





ATMOSPHERICA

By J

The Rhyme of the Roving Rogue

My name is Rollie Johner,
I'm a man of merry moods ;
I buy old pots and radios
To lay on other dudes.
I forage many miles a month ,
Over freeways, roads and trails,
Getting back in town, at times,
To sell at market sales .

Some suppose I fudge a bit ---
With the buyer getting stuck.
A guy has to make a living,
And turn that needed buck!
What if someone takes offense
At a deal a bit oblique---
Time will heal those minor wounds,
And a month will salve the pique.

Brrr! The atmosphere is chilling---
And I'm getting short on fuel ;
In a week I'll be in Mesa,
Where the "Marks" are not so cruel.
And if in Mesa, anyone,
Should dare infer I'd slight 'em,
I'll loose my brakes and mosey on----
And so ad infinitum !

** ** *

An old Phono-Dog chanced to meet
Vintage Radio Cats on the street;
The fight that ensued
forced one to conclude:
It ain't safe to go anywhere now-a-days !



COVER STORY: THE ATWATER KENT
MODEL 40

By Matthew Thornton

Probably the most familiar 1920's radio is the Atwater Kent Model 40. It must have been a best seller as well as very durable to have so many around after 60 years. The breakthroughs that made ac operation of the Model 40 possible were the development of the type 80 full-wave rectifier tube and the type 27 indirectly heated cathode triode. The rf and audio sections of the Model 40 are close relatives of earlier Atwater Kent receivers.

The Model 40 power supply is a separate potted assembly. It is connected to the rest of the receiver with an eyelet board that fits on studs on top of the power supply and is secured with nuts. It would be interesting to know the reason this cumbersome method of connection was selected. In any case, it was successful because the eyelet board is almost never a cause of failure. That cannot be said of the paper filter capacitors potted in the power supply. To replace them it is necessary to melt the tar out of the power supply or (reportedly) put the power supply in the freezer until it is really cold all the way through and then heat the case so the tar block is loose. It could work but you should probably unsolder the wires to the 80 tube socket first. The leaky capacitors will still be buried in tar. It is quite evident that the Model 40 power supply was not designed for maintainability.



PSARA Meeting Minutes

Sunday June 19, 1988

The meeting was attended by 14 members and 3 guests: Mr. Marc Gottlieb of San Francisco, Ca., Mr. David Endicott of Edmonds, Wa. and Mr. Pete Peterson of Bellevue, Wa. Dan Howard and Edwin Buhite from NWVRS of Portland, Or., also attended the meet.

OLD BUSINESS: Most favorable comments were expressed by members concerning the first edition of the new, combined newsletter. Edwin Buhite, Editor, explained the "OLE!" feature and solicited more input from members making new acquisitions to their collections. This information will be collected during each business meeting or it may be mailed directly to Edwn.

Warren Green confirmed the AWA activities for the October 1988 meeting; availability of AWA material will be screened and a topic selected.

NEW BUSINESS: The President explained the need for a second key to the club building. Jim Barrows made motion, seconded by Steve Von Talge, to make the \$25.- deposit to obtain the key; approved by majority vote.

Due to a scheduled roof repair of the club building, a volunteer, Hugh Miller, was recruited to apply protective covering to the equipment in the upstairs museum.

So far 8 members have voiced an interest in the purchase of the book "Radio, The Golden Age"; more people are probably required to qualify for discount prices. the list will be kept active a while longer.

MEETING ADJOURNED



Max A. Kaplan, Secretary



PSARA Coming Events

Shoreline Museum Seattle Washington

July 17, 1988

11:00 AM Swap Meet

1:00 PM Business Meeting

Presentation: M.A.Kaplan on Home
Disc Recording

Show and Tell: open

August 21. 1988

10:00 AM Public Invitational Swap Meet.

No Business Meeting, No presentation

September 18, 1988

11:00 AM Swap Meet

1:00 PM Business Meeting; ELECTION OF CLUB'S
OFFICERS

Presentation: Dave Dintenfass on Wire
Recorders.

Show and tell: open

October 16, 1988

11:00 AM Swap Meet

1:00 PM Business Meeting

AWA sponsored events.

November 20, 1988

Contest; Times and events later.

December 11, 1988 (Note second Sunday)

11:00 AM Swap Meet

1:00 PM Business Meeting

Presentation: Darrel Forsberg
on Zenith Two Way Radio

Show and Tell: open



NWVRS Meeting Minutes

The June 11, 1988 meeting was called to order at 11:07 AM by President Dan Howard.

The TREASURER'S REPORT was given and accepted. The current balance is \$1552.01.

GUESTS and new members were introduced and welcomed.

OLD BUSINESS: Call Letter Editor Edwin Buhite reported that the combined Call Letter/Horn of Plenty newsletter would be titled Call Letter The six even-numbered months of the year, and Horn of Plenty the six odd-numbered months. The June issue was the first combined issue, and retained the individual club designations.

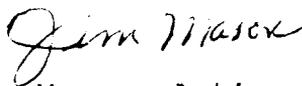
Plans for a club museum were discussed. Requirements would include an outside financial sponsor, secure location, and member participation.

NEW BUSINESS: Information on California swap meets was given. The Forest Grove Concours display will consist of Art Deco radios.

A parcel of Radio and TV literature donated by Evelyn Tompkins was added to the Club Library.

Don Iverson demonstrated an operating spark transmitter which he built from original components.

LEADS and needs were given, and the Meeting adjourned at 11:45 AM.



Jim Mason, Acting Secretary

XX
X LOST May 14, 1988 at NWVRS Swapmeet: X
X Windbreaker type Jacket, light grey, Pacific X
X Trail. Finder please contact Max A. Kaplan X
X 14902 84th Ave. Ct. NW Gig Harbor, Wa. 98335 X
X or call 206-851-4187 X
XX

***** NWVRS WELCOMES NEW MEMBERS *****

Mr. Walter Barnett III
Mr. Fred J. Butsch



SUN MON TUE WED THU FRI SAT

July 1988

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16 SAN FRANCISCO CHRS Swap Meet FUNSTON & IRVING STS. 7:00 AM
17 SEATTLE WASHINGTON PSARA 11:00 AM Swap Meet 1:00 PM Meeting	18	19	20	21	22	23
24	25	26	27	28	29	30
31	17th art deco Forest Grove, Ore.					

DIALS any kind of glass or translucent
 Bob Malen 408-267-1396
KNOBS pushbuttons escutcheons
 Old Time Replications
 Larry Bordonaro 818-786-2500
 5744 Tobias Van Nuys Ca 91411
PARTS Books tubes batteries etc.
 Antique Electronic Supply
 602-894-9503. 688 W. First St.
 Tempe, Arizona 85281



Ole!

(acquisitions)

Max Kaplan

1926 Burndept "ETHOPHONE IV" (English).
Kennedy 20-440

Walt Kiefner

Zenith 10A1 Chairside
Radiola UZ-1320 Speaker

Jim Mason

1940 NBC Radio Game "Pot O'Gold"
1946 Stewart Warner 9001-D in Queen Anne Cab.

Hugh Miller

1944 Japanese "Zero" Aircraft Receiver Model
96, Type 3 matching already owned Transmitter.

Ray Nelson

1939 Coronado 1070A Tombstone
1934 Emerson Tombstone
Radiola III

Art Redman

Packard Bell Coin Op. Motel radio, Art deco,
in shape of table from Jetco Sales, Seattle.

Pat Stewart

Zenith H-73
Bosch Little Six with Rola Horn
1927 Atwater Kent 33 with E Speaker, Howl
arrestor and Tubes in four original shipping
boxes. Shipped Railway Express collect \$125.
from Sunset Electric 9th & Glison St. Port-
land to Liberty Auto Weston, Oregon.

Jerry Talbott

1947 Sentinel 314 Bakelite Table set
1949 Philco 10" Consolette 49-1040
1949 Dumont 10" Console RA-103

Matt Thornton

1926 Crosley 4-29 With Musicone Speaker



Part of Radio Passing Away

By Dick Karman

Daws Butler

Daws Butler was born Charles Dawson Butler in Toledo Ohio in November of 1916. Of his early life, little is recorded. To those of us who are part of the baby boom however, our early childhood would not have been complete without his numerous accomplishments. Daws Butler was the voice behind Deputy Dawg, Quickdraw McGraw, Baba Loiey, Yogi Bear, Chilly Willy, Beannie and Cecil and many other cartoon characters.

Why is his death noted here in the pages shared by the PSARA and The NWVRS? Mr. Butler was an integral part of one of the last great radio shows. His voice talents are one of the reasons for the success of the *Stan Freburg* show which was on radio in 1957. It was near this same time (if you check your TV Guide) that many of the aforementioned cartoons were popular.

He is noted and remembered here as a part of radio which was enjoyed by all of us. As one of his biggest fans, I will miss him very much. His death in March marks another *part of Radio Passing away*.

Information for Part of Radio Passing Away was provided in part by the Society to Preserve and Enjoy Radio Drama, Variety, And Comedy, *SPERDVAC*, 443 Appletree Court, Camarillo, California 93010

NWVRS Coming Events

July & August....Summer Vacation
September..10....Auction
October.....8....Amateur Display
November...12....Swap Meet
December...10....Election/Party



Radio Waves at an "Echo of Doubt"

By Dick Karman

In Electrical Experimenter of November 1918 Mr. Godfrey Isaacs, the Managing Director of the Marconi International Company, was quoted in an address to members of Parliament, singing the praises and advancements of wireless Telegraphy. One of his audience remembered the events of twenty years prior and recorded them in the *Town Topics* of London. The statesman mentioned is William E. Gladstone, a former Prime Minister of England. There was less cause to doubt his death than to doubt radio.

"It is just twenty years since Mr. Marconi, now Senatore Marconi, gave an exhibition of his wireless invention to members of the House of Commons. He wanted to prove that a wireless message could be sent from Terrace to St. Thomas Hospital, some three or four hundred yards across the river, and members flocked to the Terrace to witness the experiment. There were considerable doubts as to the result. John Burns busied himself in the arrangement of the small instrument in one of the passages leading to the Terrace, and to fixing, to Mr. Marconi's instructions, the 8 to 10 foot pole that stood against the Terrace wall some thirty feet from the instrument.

"When arrangements were completed, Mr. Marconi invited the writer of these notes to send any message he liked to the party in charge of the machine at the Hospital.

"At that moment the news came in that Gladstone had died, and the message transmitted recorded that fact, and added a few words about the great statesman. The instrument was set to work, and scarcely had the words been tapt off when acknowledgement was announced from the other side. Hearty cheers were given for the great inventor, but still there were some present who doubted whether the invention would ever be of any practical use."

Doubt is that which flourishes in the mind of the man who lacks the foresight to be enthusiastic over even the slightest prospect of overcoming defeat.



In Memory of . . .

Dennis Day

Though his memory lives on, the human remains of that Irish tenor Dennis Day were laid to rest last month. His most well-known part was that of the band singer on the Jack Benny show. Reportedly Mary Livingstone "discovered" Dennis and brought him to an audition. According to John Dunning in his book *Tune In Yesterday*, Dennis answered the stage call with "Yes, please?", got a laugh and got the part of the "crazy kid" singer which was originated in 1935 by Kenny Baker, but was undoubtedly perfected by Dennis Day.

Dennis's voice was no laughing matter. His records, even today, are great examples of the music and memories of the forties and fifties. But his sense of humor and lines that were prepared for him by Benny's writers developed a unique character. For desert he often ordered a cucumber split, or pie a la mode, with mashed potatoes instead of ice cream. Dennis had seen this on the sound stages of movie sets and brought it into radio for the same reason: it didn't melt. Dennis's nonsense nearly always got a rise out of Benny and was culminated when Benny blew up with "Now cut that out!". It got a laugh every time it did. And because it was a long-standing gag, it got a laugh every time it didn't, too. The combination was just one part of the greatness of the Jack Benny show.

Dennis Day stayed with Benny through the remainder of show. His temporary absence was obvious during the 1945-46 season when he was away in the service. When he returned, Dennis diversified. On October 3rd, 1946 he premiered on his own show, *A Day in the Life of Dennis Day*. The Benny shows from the 1946-47 season are classics because Dennis did not appear that some reference wasn't made to his **two** shows.

From 1947 on, Dennis was also a frequent guest on other radio shows. His ability to impersonate famous people as well as his outstanding voice made him a natural. On Family Theater Dennis was a regular until it went off the air in 1957.

Special Thanks to John Dunning and his book

Tune In Yesterday, the Ultimate Encyclopedia of Old Radio 1925-1976.



SAVE OLD TIME RADIO

by

Jon Fessler

KVIX AM 1290 Station Manager

Yes, it's true that OLD TIME RADIO programming is on the endangered species list. KVIX AM 1290 has been on the air since January 19, 1987 and wasn't expected to be in a break-even mode right away, but after a year and a half we're still running at a loss of about \$10,000 per month. Unfortunately the pockets aren't deep enough to continue this. Thus ownership of the license will revert to the former owner within about 90 days.

So what can be done? What are the options? Our options include 1) getting the ad revenues up 2) finding investors 3) finding a new home for OLD TIME RADIO. To even consider any options we at KVIX need to be able to prove to advertisers (especially ad agencies) that there is a significantly large and loyal audience out there that can't be reached by any other electronic media. The letters we're receiving are helping prove that but we need thousands of them!

So here is what you can do. Write to us stating what OLD TIME RADIO means to you and your family. Include, if you will the age range of listeners (the ad agencies think we are only heard in nursing homes!).

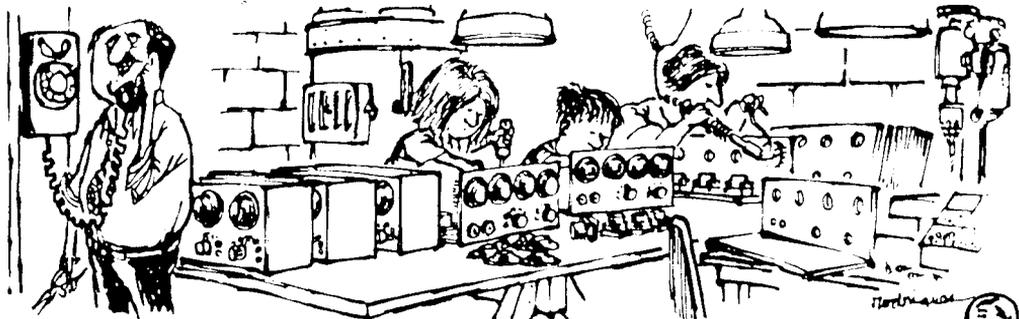
Want to do more? Mount a letter writing campaign calling others you know that enjoy OLD TIME RADIO encouraging them to write. These letters are critical to the preservation of "OTR". I must state that these letters must be from sincere listeners.

Thanks for any help you can muster. We enjoyed our association with your organization. Our joint "Golden Age of Radio... Memories in Wood" exhibit at the World Forestry Center has become the most outstanding exhibit in their history! Congratulations!



	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5:00	//////	GILDERSLEEVE	GILDERSLEEVE	GILDERSLEEVE	GILDERSLEEVE	GILDERSLEEVE	//////
5:30	//////	FIBBER MCGEE	//////				
6:00	BARRY CRAIG cont	JIMMY HOLLISTER LUM & ABNER	GILDERSLEEVE cont FIBBER MCGEE				
6:10	JOHNNY DOLLAR						
6:30							
7:00	MEMOR MOBILE cont	J. HOLLISTER cont JACK ARMSTRONG	OLDIE/SCRATCHIE SHOW cont				
7:10							
7:30							
8:00	cont cont	J. HOLLISTER cont	NO SCHOOL TODAY Big Jon/Sparkie				
8:30							
9:00	FIBBER MCGEE GILDERSLEEVE	GOALS AGE RADIO cont	LET'S PRETEND TEXAS RANGERS				
10:00	MAN CALLED X NIGHTBEAT	TALK TO ANIMALS Bea Lydecker	HOW TO WITH PETE V/Pete Prlain				
10:30							
11:00	LIFE OF RILEY GRONKHO	NIGHTBEAT COMEDY/MUSIC MA PERKINS	cont cont cont				
11:30							
11:45							
NOON	ABBOT & COSTELLO cont	SPEED GIBSON GUIDING LIGHT PEOPLE R FUNNY	ALDRICH FAMILY cont CAR YOU TOP THIS				
12:15							
12:30	SCREEN DIR PLAY						
1:00	BEAVER BASEBALL cont	MATINEE THEATER GILDERSLEEVE	FIBBER MCGEE GILDERSLEEVE				
1:30							
2:00	cont	FIBBER MCGEE COMEDY/MUSIC YOUNG WOODER BROWN	MAN CALLED X BARRY CRAIG				
2:30	cont						
2:45	cont						
3:00	cont	JIM TAYLOR BIG JON & SPARKIE JIM TAYLOR cont	JIM TAYLOR BIG JON & SPARKIE JIM TAYLOR cont	JIM TAYLOR BIG JON & SPARKIE JIM TAYLOR cont	JIM TAYLOR BIG JON & SPARKIE JIM TAYLOR cont	JIM TAYLOR BIG JON & SPARKIE JIM TAYLOR cont	LIFE OF RILEY cont GRONKHO
3:15	cont						
3:30	cont						
4:00	FRANK RACE CAVAL OF AMERICA cont	cont cont LUM & ABNER	CHUCK D JOHNNY DOLLAR cont				
4:30							
4:40							
5:00	AMOS & ANDY cont	cont COMEDY SUPERMAN WHISTLER	cont COMEDY SUPERMAN PEOPLE R FUNNY	cont COMEDY SUPERMAN REQUEST THEATER	cont COMEDY SUPERMAN PEOPLE R FUNNY	cont COMEDY SUPERMAN DRAGNET	OUR MISS BROOKS cont DUFFY'S TAVERN
5:05							
5:15	AMOS & ANDY						
5:30							
6:00	DUFFY'S TAVERN	POLICE HEADOTRS MYST ISLAND GREEN HORNET	POLICE HEADOTRS MYST ISLAND JOHNNY DOLLAR	POLICE HEADOTRS MYST ISLAND THE SHADOW	POLICE HEADOTRS MYST ISLAND THE SAINT	POLICE HEADOTRS MYST ISLAND LIES OUT	NIGHTBEAT cont WHISTLER
6:15							
6:30	EDGAR BERGEN						
7:00	X RIMUS ONE JOHNNY DOLLAR	BEAVER BASEBALL cont	BEAVER BASEBALL cont				
7:30							
8:00	SAME TIME SAME STATION	cont cont	cont cont	cont cont	cont cont	cont cont	cont cont
8:30							
9:00	FIBBER MCGEE GILDERSLEEVE	cont cont	cont cont	cont cont	cont cont	cont cont	cont cont
9:30							
10:00	REPEAT 5-7 PM	POLICE HEADOTRS MYST ISLAND GREEN HORNET	POLICE HEADOTRS MYST ISLAND JOHNNY DOLLAR	POLICE HEADOTRS MYST ISLAND THE SHADOW	POLICE HEADOTRS MYST ISLAND THE SAINT	POLICE HEADOTRS MYST ISLAND LIES OUT	REPEAT 5-7 PM
10:15							
10:30							
11:00		OUR MISS BROOKS THE WHISTLER	FIBBER MCGEE TEXAS RANGERS	GILDERSLEEVE REQUEST THEATER	COMEDY THEATER MUSIC & ART	LIFE OF RILEY DRAGNET	
11:30							

MD



"Yes, this is the party that advertised a 1922 radio for sale"



SWAP SHOP

WANTED*****

- Grebe RORK amplifier Edwin Buhite 503-288-8714
4041 NE Wistaria Dr. Portland Oregon 97212
- Military radio equipment pre-1946, old aircraft
radios, old Forest Service (non-FM) radios,
military manuals, Foreign Tube Directories
(Barbani etc.), simple kit & shortwave radios
1930s-1960s Hugh Miller 206-487-3047, mornings
and weekends. 6400 Maltby Rd Woodinville,
Washington 98072
- Blue O1As, Catalin & Mirror glass radios,
Sparton 500 (cloisonne & catalin cabinet)
early TV sets. Ken Korhonen 206-932-9363.
4022 41st Ave. SW, Seattle, Washington 98116
- Western Electric 202 & 300 Telephones and parts
David Dintenfass 206-784-4803 (6 to 6:30 PM)
7901 8th Ave NW Seattle, Washington 98117
- Radio 18 coils +or complete RF chassis
Mark Campbell 206-362-1191 (6 to 7 PM)
1836 NE 169th Seattle, Washington 98155
- Philco 53-690 radio.
Dan Healy 415-488-4596 Classic Radio
P.O. Box 764 Woodacre, California 94973
- Two Acorn tubes type 954, Rider Radio manuals
Vol. V & IX. Jim Barrows W7BCT 206-337-4880.
15121 41st Ave. SE Bothell, Washington 98012
- Vintage tube collection(s) 20s-30s-40s, Hammarlund
short-wave receivers. Bob Ewing 503-648-5356
2989 SE 43rd Ct. Hillsboro Oregon 97123
- Radiola III dual tube socket, Philco 70 tube shld.
with tube layout diag. Ray Nelson 503-233-5063.
3786 SE 8th Ave. Portland, Oregon 97202
- DeForest radios other than D-10. Books by Thomas
Curtis (no reprints). "High Frequency Apparatus"
Experimental High Frequency Apparatus; Magazines
Everyday Engineering, Electrical Experimenter,
Practical Electrics, Science and Invention.
Art Redman 503-774-9913. 5111 SE Tolman St.
Portland, Oregon 97206



1940-1945-1950-1955-1960-1965

R5-D3

ELECTRONIC SURPLUS

6111 S.E. 82 ND AVE.

PORTLAND OREGON

OPEN: 10:00 AM. TO 6:00 P.M.

TUESDAY — SATURDAY

RADIO, TELEPHONE, TEST GEAR,
COMPONENTS, TUBES, X-FORMERS

TRADE—SALE—CONSIGNMENT

BOB LEE BUS.(503) 774-6560

FOR SALE*****

The Hoaglin Radio collection went on sale to members only on July 8 at 6PM. location: Home of Norris Jackson 17435 SW Blanton ST. Aloha, Oregon (it is unlikely that you received this ad before the sale began, sorry the editor is on the summer schedule).

Riders VII thru XV, Saga of the Vacuum Tube-first edition by Tyne. Ray Nelson (# in Want ads)

Two working, classic model 28 teletypewriters: one with automatic paper takeup. Free if you can pick them up (either or both). RTTY Demodulator \$35.

David Dintenfass. (# in Want ads)

Grebe Synchrophase Seven with good chassis and fair cabinet trade only. looking for RCA Radiola AR-812 dial pointer needles and speaker, also Stromberg Carlson 635A and schematic-Radiola 18.

Ted H. Benson 503-752-5859.

675 NW Stewart Place Corvallis, Oregon 97330

LEAD 3 Consoles: Philco 38-1, Fada, Coronado.

Table sets, Free 1950 TV.

Herman Grafe 503-774-1207

1970-1975-1980-1985

1920-1925-1930-1935



JA MAC PRODUCTS

SPEAKER RECONING ALL MAKES

8600 NE Sandy Blvd

Portland, Or 97220

503-252-2929

NWVRS Name Badges

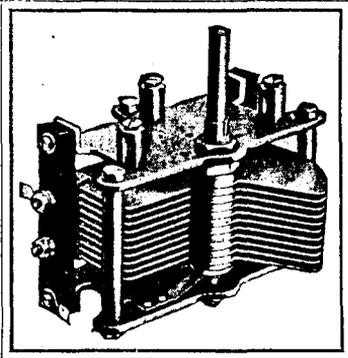
Any NWVRS member wishing to purchase a name badge should contact Don Copeland
Price \$3.-- Phone 503-236-8535
1413 SE Salmon St. Portland Or 97214

Publication Schedule

August:	Aug 5 begin, Aug 15 distribute
September:	Aug 23 begin, Sep 6 distribute
October:	Sep 23 begin, Oct 5 distribute
November:	Oct 23 begin, Nov 8 distribute
December:	Nov 23 begin, Dec 6 distribute



"Radio's truest voice."
Atwater Kent Radio
Speakers: Models E, E-2,
E-3, same quality, differ-
ent in size, each \$20.



EXCLUSIVE CHOICE OF THE LEADING RADIO ENGINEERS

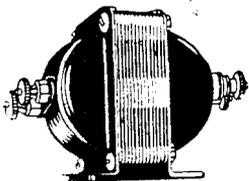
During the past twenty years Cardwell has designed and built the most intricate electro-mechanical and radio apparatus. They lent their craftsmanship to the building of a condenser. It was quite logical, therefore, for the world's pre-eminent radio engineers to specify the

CARDWELL LOW LOSS ROTOR GROUNDED CONDENSER

for use in their circuits, thus establishing a leadership which has since been admitted by radio enthusiasts everywhere. Cardwell Condensers have such infinitesimal losses at the highest radio frequencies that no one has been able to determine their effective resistance.

A post card brings you an education on condensers

Play Safe — Say "CARDWELL"



Convince Yourself!

You can now secure the very highest quality

Audio Transformer

of the very latest design, for use in all circuits, for only **\$2.95** Postpaid

"Push-Pull" Type

Price, per matched pair, only, **\$8.50** postpaid

Complete information and wiring diagram packed with every Transformer. Satisfaction guaranteed or money refunded.

ASK YOUR DEALER. If he can't supply you, send direct.

Crescent
Transformers

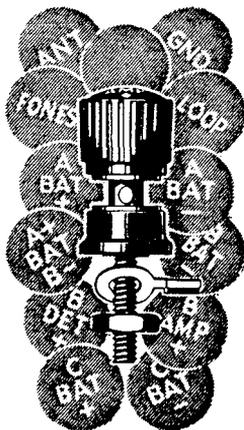
CRESCENT
MFG. CO.,
Box 337, Cent. Sta.,
Toledo, Ohio

Establishing A New Standard—

The New and Improved

"Read'em" Binding Posts

"The Knobs Can't Come Off."



New
Markings
Fulfill
Every
Demand

The Utmost
in Quality
and Appearance
at the
Lowest Price

15c

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