

Call Letter

of the Northwest Vintage Radio Society Portland, Oregon

Vol. 21

July, 1995

No. 7

Plan to get a table at the

Hot Summer Swap Meet

In Kool Keizer, Oregon

Saturday, July 8th, 1995

1 7 AM to 2 PM 1

Vintage Radios

Wireless Gear

Consoles, and Table Sets

Speakers & Chassis

Cabinets & Parts

In the Field Under the "Kool" Trees
at 7455 O'Neil Road, Keizer, Oregon

For More Information

Call Speed at (503) 390-3928

Northwest Vintage Radio Society

The Northwest Vintage Radio Society is a non-profit historical society incorporated in the State of Oregon. Since 1974 the Society has been dedicated to the preservation and enjoyment of "vintage radio" and wireless equipment.

Membership in the Society is open to all who are actively interested in historic preservation. The dues are \$15.00 for domestic membership, due on January 1st of each year (prorated quarterly).

The Call Letter has been a monthly publication since 1974. It was originated with the first president and continues to be a publication that both informs members of the society's business and that supports the hobby of collecting, preserving, and restoring vintage radios.

Society meetings are held monthly (except July and August) at the Northwest Vintage Radio Museum, 7675 SW Capitol Highway (at 32nd street) in Portland Oregon. They convene at or about 10 AM for the purpose of displaying radios, conducting Society business, and information exchange. Guests are welcome at all Society meetings and functions (except board meetings).

Other Society functions include guest speakers, auctions, radio shows and radio sales which are advertised in the Call Letter and are held in and around SW Portland.

Society Officers:

President	Greg Bonn	(503) 642-5097
Vice President	Speed Feldschau	(503) 390-3928
Treasurer	Ed Charman	(503) 654-7387
Secretary	Ken Seymour	(503) 642-9115
Board member at large	Ed Pittaway	(503) 645-2883
Call Letter Editor	Dick Karman	(503) 281-6585
Museum Curator	Frank Rasada	(503) 246-3400

The Society's address is:

The Northwest Vintage Radio Society
Post Office Box 82379
Portland, Oregon 97282-0379

July 1995

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The CALL LETTER

Editor, Dick Karman, (503) 281-6585

Word Processing, Binding, and Distribution,
Gordon Phillips (503) 234-3517

Summer Deadline
20th of the month
prior to publication.

The Call Letter is the official publication of the Northwest Vintage Radio Society. Circulation is limited to the membership and guests of the Society. The Society is not responsible for the material contributed for publication, nor the quality, timeliness or accuracy of the items offered for sale in the SWAP SHOP. By common agreement of the board of directors, the buyer assumes all responsibility for the satisfaction of any transaction.

NW Vintage Radio Society Meeting Minutes

By: Ken Seymour

The June 10th, 1995 meeting was called to order by the club Vice President, Speed Feldschau at 10:00 AM sharp, with 35 people in attendance. Ed Charman gave the Treasures report which was approved as read. In addition, he reported on the Club expenses for the radio swap held last month. Seven new members were added to the roster during the swap. Good Wishes: None to Report.

Old Business

Dick Dielschneider reported that the May 13th show was a large success. He believed that attendance was the highest that the Club has ever had. In addition, he is now taking table reservations for the fall show. Contact Dick at (503) 246-1062.

There was also some discussion on raising the table fee for future shows by three dollars. In all of the past shows, the club has lost money. Raising the table fee from ten to thirteen dollars would hopefully offset the loss. The idea was discussed, but no commitment was made at this meeting to officially raise the fee.

Jerry Talbott wanted to get the word out to members that the Club would not be participating in the Forest Grove Concours D' Elegance Show this year. In addition, the date that has been published in previous Call Letters is incorrect. The actual date of the show is July 2nd.

New Business

Speed Feldschau mentioned that signs, flyers and such for his Keizer Show are all printed. Speed is also looking into other forms of advertising to publicize the swap. The Club has set aside \$65 for the rental of a chemical toilet. Speed's swap will be held in Keizer Oregon (near Salem) on July 8th. For further information, call Speed at (503) 390-3928. His address is: 7455 O'Neil Road, N.E.; Keizer, Oregon 97303.

Leads and Needs

Mike Parker is looking for someone who has a spare copy of the May Call Letter. If you have one, please call Mike at (503) 235-7187.

The meeting was adjourned at 10:30 AM.

At which time, Miriam Fien, a Mohawk Finishing Products Representative played a video tape on refinishing techniques and tips using Mohawk products. She remained afterwards to answered questions. Members are encouraged to call 1- 800-545-0047 to obtain a free catalog on their products. There is a \$50 minimum order fee, so members may want to pool their orders together. Miriam can be reached locally at: (503) 631-3885 to take orders. Most products are shipped within one week.

Next Meeting

June was the last Society Business meeting until September 9th. Have a good summer !!!

Acquisitions

Acquisitions is a place to tell others what new or old items have been added to collections in the Northwest. If you'd like to share your finds with others, please get your list to Gordon Phillips (see inside front cover).

Glen Bricker

Zenith Console Model 12A58.

Audiola 4 tube cathedral.

Hickock tube tester Model # 532.

1500 tubes including 2 Kellogs, 8 KT88's, 1 blue 501A, 2 199's.

2 Amplifiers.

10 pieces of older test equipment.

A. K. Kiel table radio with model 55 speaker.

Visual Music

Have you ever seen the music that comes out of your radio set? It isn't hard to do, at all -- and without any costly oscilloscope equipment, either.

You can either paint patterns in sand, or make a lamp glow with rhythmic pulsations.

Simplest of all is the mechanical means of making a voice pattern. To make necessary device, all you need is a dynamic speaker -- the one in your set will do -- and a piece of rubber tissue, obtainable from any drug store. The speaker is mounted with the cone pointing upward, and the tissue stretched tightly across it, as shown in figure 8.

About half a teaspoon of common table salt is then poured onto the center of the membrane, and the set is tuned in with moderate volume. Different audio tones will set up vibrations of varying frequencies in the diaphragm, causing the salt to form rapidly changing patterns, as in figure 9. If the salt fails to move increase the set's volume, if it tends to fly off the diaphragm, reduce the volume.

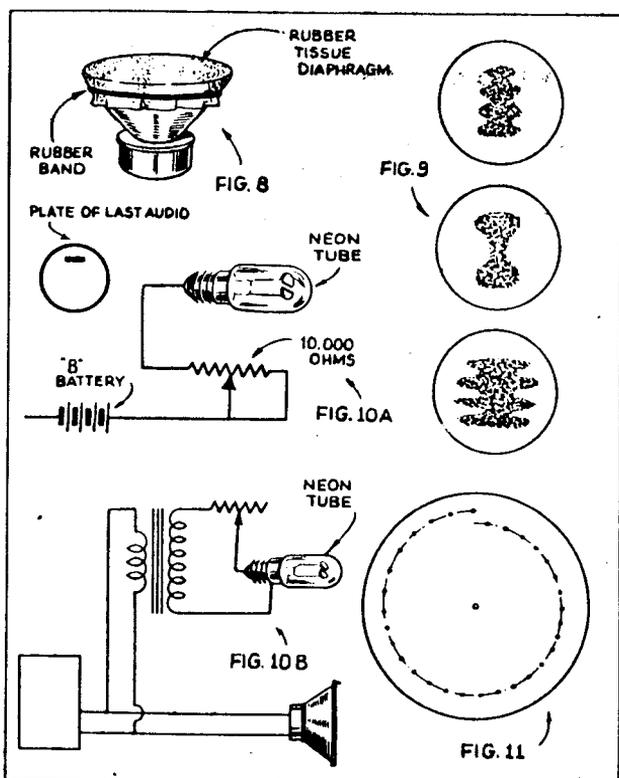
Somewhat more elaborate is the neon light "music viewer." This is simply a neon light, connected to the output of the radio set either in place of the loud speaker, or in addition to the unit. If it is desired to have the light operate without accompanying sound, it is merely connected between the plate of the last tube and the power supply, as shown in Figure 10A. You will notice that a 10,000-ohm variable resistor is connected in series with the neon tube; this is to reduce the voltage sufficiently to avoid damaging the tube. Start operating the set at a good volume and all of the resistance in the circuit, reducing it until the neon tube lights satisfactorily.

Yet more elaborate is the system used when the loud speaker and the "music viewer" are to be used simultaneously. This calls for the employment of an old audio frequency transformer, with the tube connected across its secondary, the primary being connected in parallel with the loud speaker, as shown in figure 10B. The series resistance permits the tube to be turned off while the speaker is in use. If the resistance is

closed, both units will operate at the same time. Incidentally, this connection will afford better results than the direct connection outlined in the previous paragraph. A 1-watt neon tube will prove satisfactory as well as inexpensive.

To see the music in patterns, you will need a scanning disc and a motor. The motor may be an electric fan, with the blades removed. The disc is punched with a number of holes arranged in a spiral, as shown in Figure 11. The number of the holes used is unimportant, and depends upon the size of the disc. The distance from the first hole to the last hole should equal the height of the plate in the neon tube. The distance from each hole to the next one along the spiral should equal the width of the plate in the neon tube.

(This exercise was published by Hugo Gernsback in 1938.)





ATMOSPHERICA

By J

The Authority

*"What makes a radio work?" I asked
The old experimenter.*

*'Way back in nineteen twenty-two,
In good old River Center.*

*"Well it all begins up there,"
He said, pointing to some wire
Stretched up 'way above his house --
Up fifty feet or higher.*

*"Sucks the signal from the ether
And directs it down to ground
Where it goes into this big coil
And circulates round and round.*

*Then this condenser slows it down
To whatever speed twas sent
From Podunk Holler or L.A.,
Or some foreign continent.*

*This little tube jacks up the gain,
And separates the tones
On their way around the circuits
To the mating with the phones*

*"There's really nothing to it son,
It's all up there cut and dried."
But I left a doubting Thomas --
It seemed over simplified!*

History: Twenty years ago everyone remembered the scratchy reception of the 30's and 40's. It was blamed on atmospheric conditions, defined as the cause of breaks in serious reception. Atmospheric conditions soon were referred to as "atmospherics." Founding member Tom James thought that our newsletter should have some breaks in serious reception and started to write poetry, titled first **Atmospherics**, and later as **Atmospherica**. Tom and his wife, Dorothy, are gone, but the *Call Letter* continues to publish Tom's works as a *break in serious reception*.

ATWATER KENT RADIO



ONE Dial Receiving Sets for six or seven tubes. Mubogony or crystalline finished cabinet. Price range (less tubes and batteries) from \$70 to \$140. Radio Speakers from \$16 to \$23. Model 35, six-tube receiver illustrated, with ONE Dial, \$70. Speaker, Model H, \$21.

It's easier than turning the pages of this magazine

How do you read this magazine?

First of all, don't you find out what's in it by turning the pages with the fingers of one hand? Don't you glance at a headline here and a picture there? And then don't you settle down to enjoy the features that attract you most?

So radio programs are sampled and selected with the Atwater Kent ONE Dial Receiver.

Find out what's on the air by turning from station to station with ONE Dial — with one hand. Listen to a bit of this and a bit of that. Choose *your* kind of program. Sit back and enjoy it.

Think of what it means to bring in *any* station within range, quickly and surely, when the day's work is ended and the family gathers by lamplight to see what the air waves are saying! Think what it

means to have the programs come to *you*, instead of your hunting for *them*!

And think what the speed and certainty of Atwater Kent ONE Dial operation mean when you want to know instantly today's prices for your produce — or tomorrow's weather forecast! There are no secondary tuning devices to delay you. ONE Dial means ONE — if it's an Atwater Kent.

Atwater Kent Receivers — true-toned, easy to operate, dependable day after day, moderately priced — have proved themselves in the homes of more than a million satisfied purchasers. Be sure yours is matched with an Atwater Kent Radio Speaker — and thus be doubly sure of natural tone.

ATWATER KENT MFG. COMPANY
A. Atwater Kent, President
4716 Wissahickon Avenue Philadelphia, Penna.

Model 32, seven-tube One Dial receiver. Less tubes and batteries, \$140.00



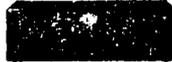
Write for illustrated booklet of
Atwater Kent Radios

EVERY SUNDAY EVENING. — The Atwater Kent Radio Hour brings you the stars of opera and concert, in Radio's best program. Hear it at 9:15 Eastern Time, 8:15 Central Time, through:

WEAP New York
WEHI Boston
WRC Washington
WSAI Cincinnati
WTAM Cleveland
WGN Chicago
WFI Philadelphia
WCAB Pittsburgh
WGR Buffalo

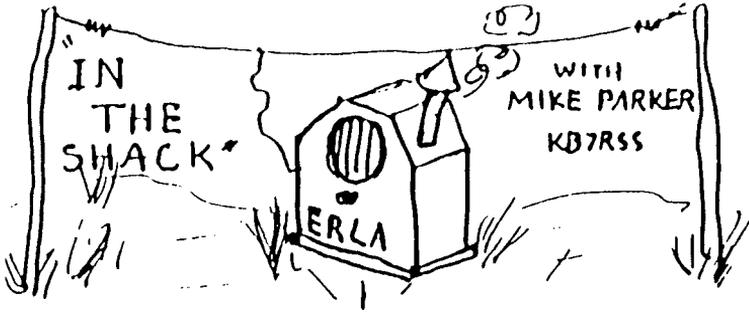
WDC Davenport
KSD St. Louis
WWJ Detroit
WCCO Minneapolis-St. Paul
WCV Schenectady
WSB Atlanta
WSM Nashville
WAC Memphis
WHAS Louisville

Model 30, six-tube One Dial receiver, less tubes and batteries, \$85.00



Prices slightly higher from the
Rockies west, and in Canada

Atwater Kent Manufacturing Company single dial receiving sets are licensed under United States Patent No. 204900



Atwater's First Tin Box Radio The first time I ever saw an Atwater Kent Model 35, I thought, "Man! that is the homeliest, brown, up-side-down tub with knobs I have ever seen!"

I noted that it's saving grace was the bright, golden emblem, with a sailing ship embossed upon it. Inscribed below that, was the well known name, "Atwater Kent Radio," for all the world to see.

After that, I never gave it much thought and since then, I have amassed a fair collection of other brand 1920's battery sets.

I only had two AK's in my collection, a reliable old Model 40 and a very selective Model 20 compact. Something kept haunting me about the AK Model 35. The fact is, the "ugly tub," is quite significant because, it was Atwater Kent's first metal radio. It represented a new era of one piece metal stamping technology.

So not too long ago, I decided that I liked that ship emblem and that the Model 35 is so ugly that I've got to have one. I believe that most Psychiatrists call this, "Object Affiliation!"

Cruising through the ads in "Antique Radio Classified," I came across it advertised as, "AK 35, Original finish, not working, no tubes, \$35." The radio was located in New Jersey. While calling about it, I thought to myself, Here we go again, another mail order radio. Be prepared to expect anything.

As I talked to the owner, who admitted he was specifically, an Atwater Kent collector, I asked him why it didn't work. "The tuning bands are broken, but are in the radio," he replied.

A common AK problem, I thought to myself. "You can get good bands for it, or repair those," He said. I agreed and an image of the "Mayflower," sailing across the seas flashed through my radio crazed mind.

"Does it have the ship emblem, or the one that just says At-water Kent?" (an earlier version,) I asked. He replied, "it has the ship." . . . (silence). . . "Sold!" I said,..... This kind of non-sense causes the buying and selling of this old junk all the time, and I am just another victim. All it takes is one thing that I like about an item.

Finally, it arrived at my door and upon inspection, "In the Shack," what the owner said was true, the bands promptly fell out of the bottom of this right side up radio. Actually , one got caught on the bottom piece, a rectangular metal "ring," with felt pads on it, that screws on the underside of the radio. Incidentally, I made sure that this piece was intact before I bought the radio. Many AK 35's I have seen for sale, have that part missing.

I proceeded to remove the right side up chassis from the upside down tub. The chassis is held by the front panel plate and screwed to threaded metal tabs stamped inside the front of the tub. I quickly learned that one has to be a contortionist to access all three mounting screws on each side of the chassis. Fortunately, someone had left out the two screws deep in the top of the tub.

Can somebody help me out on this one? Did AK sell special short 90 degree angle screwdrivers to accomplish this feat? I can't get my big hand in the set far enough to reach the screws. I suppose small handed women deftly assembled the AK 35 at lightning speed back in 1926.

Once the chassis was out, I turned it right side up and assessed the situation. The bands were broken where they always break, at the holes in the band, used to line it up with a metal stud in the pulley, to prevent slippage.

Then, I saw something I was not prepared for.....the pulleys were made of pot metal! Cracked, distorted, misshapen, ugly pot metal! Definitely the biggest "curse" of the mid 1920's radios.

I quickly grabbed a flashlight and looked in my Atwater Kent 40, There were 3 nicely machined bronze pulleys. The size of the bands also looked the same. I started thinking of anybody I knew with a junker AK, with nice bands and pulleys.

I looked in the Antique Electronic Supply catalog, and they stock new, Beryllium copper tuning belt material in 5 ft. or 100 ft. lengths, and reproduction pulleys also. That was more belt stock than I needed. However, it is the correct, authentic way to fix the problem. Also one should use a riveted link, at the joint, as the factory did. I didn't take that route, and may be guilty of something...I'll explain later.

Finally, I thought of Speed Feldschau, our illustrious NWVRS member from Keizer, Or. He said that he had a lot of AK stuff to get rid of. Famous for his sense of humor, hard volunteer work and great summer swap meets in his yard, he just may have what you need. A collector and purveyor of radios. Speed's workshop and garage is usually stacked with radios and parts for sale. I gave him a call and he said he would bring a junker AK chassis, with bands and pulleys to the next club meet.

In the meantime, I put six , 201-A tubes in my chassis and some knobs on the three tuning condensers. I hooked it up to the batteries and after some static crashes, it came to life and played fine. I tuned it like an ordinary 3-dial, which is exactly what it is. I breathed a sigh of relief that the audio transformers were good. Speed brought an AK 60 chassis to the meet. An A.C. set, with heavy transformers, it was in disgusting condition, but had good bands and pulleys. However, it is a bigger radio and I noticed that the bands were longer than an AK 35. For a small fee, it was mine and as I lugged it away, I realized what a fine boat anchor it would make.

Back "In the Shack," I got the bands and pulleys removed and ready to install, but I felt "guilty" of something. I will try to discuss that in next months article. It is to involved to include in this one.

I cut the bands in a spot that allowed me to keep the joint from traveling around the pulleys and also let me drill only

one hole in the band for the studs. I drilled the new hole with a hand operated Yankee drill. I avoided using an electric drill, in case I accidentally twisted the band around the drill bit.

I installed the pulleys and had cut the bands with a 3/4 inch overlap. Using alligator clips to hold the bands, I heated up a big iron and tinned the band ends, snugged up the belt and held the joint closed with the clips. I then soldered the joint with the iron, let it cool and tried them out. They worked fine.

I ear tuned the set for peak signal at the low frequency end of the band, where it counts. KXL, 750 was good for this test, so I peaked it while letting the tuning condensers slip in the slightly loose pulleys. When I was satisfied, I tightened the pulleys, I put the right sight up chassis upside down in the upside down tub and turned it all right side up. At last, I now had a working, one dial AK 35 tin tub radio.

Arthur Atwater Kent made 322,019 Model 35's at the plant in Philadelphia, in 1926 and part of 1927. Their 1,000,000th radio was a model 35, made in December, 1926. One million radios in 4 years is a lot of sets.

As I listened to it play, I stared down at the fine gold sailing ship and wondered.....what keeps the dog-gone tubes from falling out? And, just what is Beryllium copper, anyway?

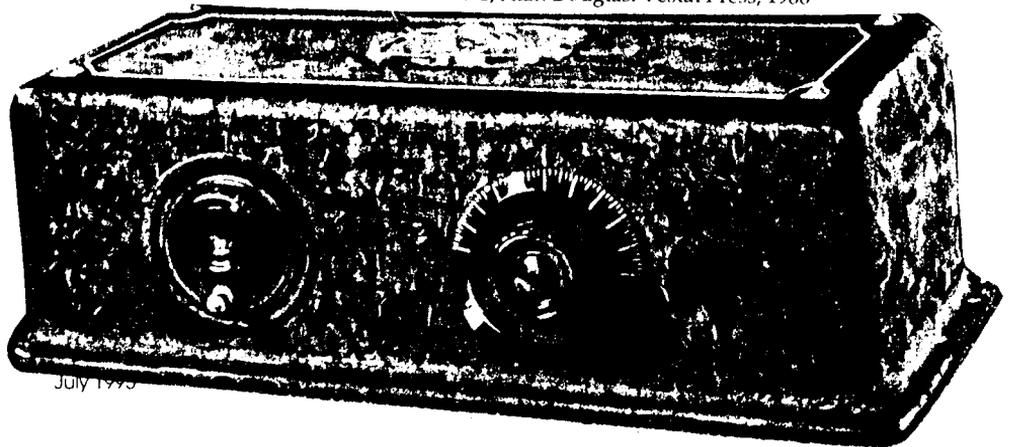
See you next time, "In the Shack".....73's, Mike Parker

References:

Antique Radio Classified, Magazine; Aug. 1992, P.6, May, 1995, P.58.

Antique Electronic Supply, Catalog, 1995, 6221 S. Maple, Tempe AZ. 85283

Radio Manufacturers of the 1920's Vol. 1, Alan Douglas. Vestal Press, 1988



Thank You

The Call Letter is a compilation of many people's labors. Your editor wishes to recognize and thank Gordon Phillips who does most of the miscellaneous typing for the publication. Gordon also has several members who meet at his home to bind and label the Call Letter each month.

Thanks to Jerry Talbott who has provided the Crosley, At-water Kent, and RCA ads that have graced the pages for the last 5 months.

Thanks too to our feature writers Pete Petersen, Tech Sloat, Bud Larson, Mike Parker, Greg Bonn, and others who have contributed.

Ken Seymour does more than keep the minutes, he also puts them on a computer disk so Gordon & I don't have to. Dan Howard has been faithful to keep our calendar page up to date, and a special posthumous thanks to Tom & Dorothy James for their part in our publication.

Mohawk Finishing Products Demonstration

After our June business meeting was adjourned, Miriam Fien of Mohawk Finishing products put on a video tape demonstration of the application and use of some of the products they sell, using the society's new Television and V.C.R.. After the video showing, Miriam talked to the group about different products. She also had a few samples to talk about. To order any of the products, requires a \$50.00 minimum. It has been suggested that if a number of the members wanted to order a small order, we could order as a group for the individual items we wanted through the society. We can discuss this at our September meeting. If any of the members wanted the video tape, it also can be ordered.

Swap Shop

WANTED

Crystal Sets. Have many radios to trade for crystal sets. Galen Feight (503) 231-9708.

Eico Model HF65A Mono Pre-amp. Jerry Talbot (503) 649-6717.

Hallicrafters SX-28 or 28A and S-36A receivers. Ken Seymour KA7OSM, (503) 306 7439 (days or evenings).

Dial pointers, and parts for the Nordon-Hauck Navy Super C-10. Dick Karman, (503) 281-6585.

Thumb wheel Tuning Dial for a Crosley model 56. Gordon Phillips (503) 234-3517.

Tuning dial for Silver Marshall Mod 30 Walt Humbird (503) 642-0202.

Cutting needles for Webcor type older type records. Glen Bricker 1030 N.11th St. Cottage Grove Or. 97424 (503) 942-3717

Philco parts. Speed Feldschau (503) 390-3928

Old CB Crystals Dick Bartlett (206) 365-3056

Cowan Publishing Co. Book "Command Sets" from about 1958. Russ Lawton (206)- 362-1708.

Riders Volume 3 Steve Metzzenburg (206) 941-0699.

PRE-20s Radio receivers. Steve Von Talge (206) 527-2829 or 783-2543

Parts for 1942 ZENITH 12-H-689: (Insignia) that goes on the square dial glass with a hole in it. Jerry Cappoen (206) 874-5490.

1938 Zenith 15-U-270 Console. Also interested in consoles from 20's-40's. Debi Freal. (206) 334-7753

6A5 Tube, New in box, RIDERS or National Union Volumes 1, 21, 22. Steve Metzzenburg (206) 941-069.

1920's Old crystal detector, Old Receiving tubes for collection (duds OK) 1920's thru 50's. Gil Arroyo (206) 244-2344.

TUBE TEST data charts for precision tube master series 10-12 Bill Dyment (206) 782-3563.

Vertical Transformer 800V CT, 6.3V 5A, 5.03A R. Atwood (360) 779-1480

FOR SALE

Early 50's TV's. Most are 17 inch table models, very reasonable. Jerry Talbot (503) 649-6717.

Reluctantly reducing the size of my collection. Wood, plastic, consoles, and many others including early TV's must go. Sonny Clutter, 14407 NE Fremont St. Portland, OR 97230, - (503) 254-9296.

Model 414 B&K TV Analyst with probes and manual; Model 455 B&K Cathode Rejuvenator with manual and charts; Model Y33 Sencore Flyback Tester with manual; Model CG 141 Color Generator with manual; **Glen Bricker, 1030 N. 11th Cottage Grove, Or. 97424 (503) 942-3717**

Over 200,000 tubes, panels, speakers, chassis, electronic surplus and supplies. R5-D3 Surplus. Bob Lee, 6111 SE 82nd Ave. Portland, Or. (503) 774-6560.

1942 Zenith 6G601M cloth-covered with wavemagnet and Sailboat grille \$40; Zenith 7C05 AM/FM 7 tube, wood cabinet \$35; RCA 6-XD-5 plastic radio with nipper grill, 2-tone green, \$40; Knight signal tracer, \$5; and many more **Bud Larson, 1325 Ridge Way, Medford, Oregon 97504; (503) 773-5214**

Hickock Tube Tester Model 532. Various pieces of test equipment. (Glen Bricker) 1030 N. 11th Cottage Grove, Or. 97424 (503) 942-3717

Mirror for Sparton Bluebird. I had 2 made, one for my set and I willsell extra for best offer. Jerry Talbot (503) 649-6717.

LEADS

Zenith 16 inch TV with turntable. A console. Ed Charman (503) 654-7387.

Setchel-Carlson TV (with owners manual) - 1960 Webcor Tape Recorder - 1957 James Mossman (206) 522-1772.

Philco Model 42-1013 Radio-Phonograph console. Picture no. 157 in Philco book. \$50.00, or best offer. Vivian McNamee (503) 245-9625.

Zenith 16 inch TV with turntable, A console. **Ed Charman (503) 654-7387**

Philco's (3) Consoles and some wood table radios. Need tender loving care. **Roger (206) 347-8674.**

LOOKING FOR SWITCHES for a Telefunken Americana 5436. Please call with any information Estella Howe,(503) 235-2456.

Wilcox Gay Recordio Console **Martin (206) 277-6927.** Riders 6-12, 14, 15. Electronics Supply on 45th Ave. Seattle. (206) 632-2222.

Calendar

Compiled by Dan Howard

- July 2 Forest Grove Concours D'Elegance
 8 Speed's Swap Meet, Keizer, Oregon
 15-16 Antique Show - Portland Expo Center
 16 PSARA Meeting, Seattle
 22 Ham Fest Junior High School
 North Bend, Oregon
- August 20 PSARA Annual Swap Meet, Seattle
- September 9 NW Vintage Radio Meeting
 16-17 Portland Ham Fair, Portland Meadows
 1001 NE Schmeer Rd. Portland, Oregon
 16-17 Antique Show - Tacoma Dome
 17 PSARA Meeting, Seattle
- October 14 NW Vintage Radio Meeting
 15 PSARA Meeting, Seattle
 21 Ham Swap Meet, Polk County Fair
 Grounds. Rickreall, Or.
 21-22 NW Vintage Radio Display, Expo Center
 NW Car Collector's show
 28-29 Antique Show - Expo Center
- November 11 NWVRS Annual Fall Swap Meet
 19 PSARA Meeting, Seattle
- December NW Vintage Radio Christmas Party
 10 PSARA Meeting, Seattle
 16-17 Antique Show - Oregon Convention Center

NOTE: NO Radio display at this year's Forest Grove show.



From *Life*, reproduced by permission

"OH, BOY-- I'VE GOT SCOTLAND!"

**Humor from October 1924,
"The Literary Digest".**

ATWATER KENT RADIO

It's good *after* Christmas, *too*

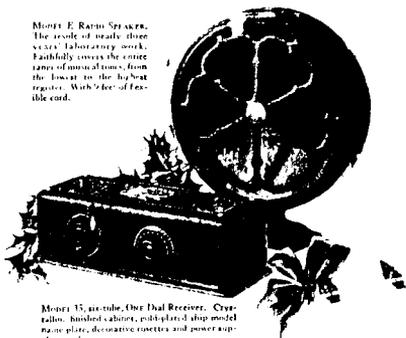
MANY men and women who wanted to offer their families something more than the pleasure of a day have chosen Atwater Kent Radio as their principal Christmas gift.

This year even more people will solve their Christmas problems in the same enduring way. For here, in these simple, beautiful, reliable instruments, is happiness that *lasts*.

If *your* home lacks Radio—is not Christmas the time to put it there? Or, if you have a set which does not do justice to the really fine programs—what better can you do than replace it with Atwater Kent Radio?

Through the months, the years, every day will renew the satisfaction of the first day and gratitude to the thoughtful giver.

Model F. Radio Speaker.
The result of nearly three years' laboratory work. Faithfully covers the entire range of musical tones, from the lowest to the highest register. Washable of flexible cord.



Model 15, six tube, One Dial Receiver. Crystal radio, finished cabinet, gold-plated slip model name plate, decorative accents and power supply switch.

One Dial Receivers licensed under U. S. Patent 1,011,002
Prices slightly higher from the Rockies West, and in Canada

EVERY SUNDAY EVENING:—The Atwater Kent Radio Hour brings you the stars of opera and concert, in Radio's finest program. Hear it at 9:15 Eastern Time, 8:15 Central Time, through:

WJAB	.....	New York	WJF	.....	Detroit
WJLH	.....	Boston	WHI	.....	Philadelphia
WJAF	.....	Pittsburgh	WCO	.....	Minneapolis
WJAF	.....	Chicago	WCP	.....	St. Paul
WJAM	.....	Cleveland	WGY	.....	Schenectady
WJON	.....	Chicago	WSB	.....	Atlanta
WJRC	.....	Washington	WSM	.....	Nashville
WJRC	.....	Buffalo	WSM	.....	Memphis
WJOC	.....	Des Moines	WNS	.....	Louisville
WJAF	.....	Kansas City	WVA	.....	Dallas
KSD	.....	St. Louis	KVOO	.....	Oklahoma City

Write for illustrated booklet of Atwater Kent Radio

ATWATER KENT MANUFACTURING COMPANY
4721 Wissinickon Ave. A. Atwater Kent, Pres. Philadelphia, Pa.



Model 30, six tube, One Dial Receiver. Solid metal-cage cabinet, gold-plated name plate, power supply switch and volume knob.



Model 30, six tube, One Dial Receiver. Atwater alignment beam. Universal relay-key. Solid metal-cage cabinet, gold-plated name plate, power supply switch and volume knob.



Model F. Radio Speaker. Four 1/2 inch of metal. One-rail radio. Finished in two shades of lacquer. Wash 7 feet of flexible cord.