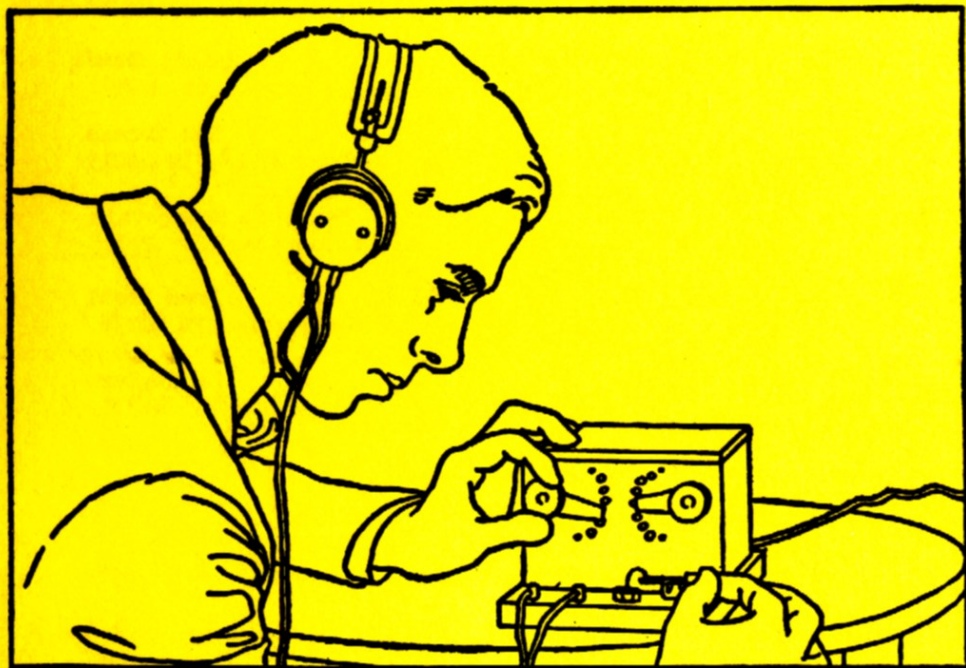


Indiana Historical Radio Society
BULLETIN

Vol. 10

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No. 2



IHRS-TEN YEARS



OFFICERS

President	Don Johnston Route #1, Box 218-A, Windfall IN 46076
Vice President	Robert Shuck 10512 Winston Ave., Indianapolis, IN 46256
Secretary	Ron Thomas 933 N Audubon Rd, Indianapolis, IN 46219
Treasurer	Marshall Howenstein 2741 North Salisbury, West Lafayette, IN 47906
Editor	Fred Prohl 7257 Murphy Dr, Indianapolis, IN 46256
Historian	Ed Taylor 245 N Oakland Ave, Indianapolis, IN 46201

FOR INFORMATION WRITE TO:

- Vice President - For legal matters of the I H R S.
- Secretary - For general correspondence and membership applications.
- Treasurer - For membership payments and address changes. (1981 I H R S membership dues are \$6.00.)
- Historian - For history of the I H R S and for donations of material for the Society Scrapbook.

Please use a Self Addressed Stamped Envelope when corresponding.

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I H R S AT RICHMOND INDIANA

SATURDAY SEPTEMBER 19, 1981

The I H R S Fall Meeting will be hosted by Mr. and Mrs. Lionel Haid at Glen Miller Park in Richmond, Indiana.

Bring your extra equipment for Swap and Sell, some food for sharing and the family for a day of fun!

The Society will meet at the number two shelter in the park. There is parking space close to the shelter with plenty of tables for display of equipment, swap space and eating. Electrical outlets are available.

Meeting adgenda:

- 10:00 AM Set up for the day - Swap and Sell items and equipment for display.
- 11:00 AM The Fall I H R S meeting officially begins.
- 12:00 Noon Let's eat! Bring a dish to share and your own plate, fork and drink.
- 1:00 PM Business meeting. I H R S annual elections.
- 2:00 PM Swap - Sell and Socialize.
- 4:00 PM Have a pleasant trip home.

There are a number of places and activities that may interest you while visiting Richmond. The park has a playground, lake and zoo. Near downtown is located the Wayne County Historical Museum with many of E. Francis Jenkins inventions on display. There are three shopping malls, one large mall is in the downtown area. There is a Pork Festival in Eaton, Ohio (15 miles east of Richmond) on the 19th and 20th of September.

BRING YOUR FAVORITE OR MOST UNUSUAL THREE DIALER FOR DISPLAY

See you at Richmond!

The President's Corner

This year marks the Tenth Anniversary of the formation of the Indiana Historical Radio Society.

The Society was formed by thirteen central Indiana men with a common interest -- "Preservation for Posterity". Since 1971 the Society has grown to over 200 members; some hail from as far away as Australia. Ten years ago we had no idea our membership would grow to such proportions. Antique Radios is not a new hobby; it has been around for many years. But soon after our formation the hobby mushroomed and clubs started all over the country. This has created a shortage of readily available sets as compared to the way it used to be, of course. At the same time, with the publicity and recognition of the hobby, it has helped to preserve material that might otherwise have been lost to posterity.

Ours is a unique hobby. It does not attract the collector of ordinary memorabilia because, unless a radio can be made functional and restored to its original condition, it does not present the appeal of many other items that people collect. Without the technical background and historical knowledge associated with the hobby, the acquisition of antique radio gear doesn't mean much.

As a result of this situation, "You meet the most interesting people!" Because of our interest, all of us have come in contact with extremely interesting people; we meet not only the pioneers in the industry, but present-day authorities in the technical fields. Not many hobbies offer this bonus. In the pursuit of material, we must not lose sight of the association with the people behind the hobby.

Now, as in any organization such as ours, the unsung heroes are those members who devote many hours of their time in the club's interest. We have been fortunate in this respect. Our fine collection on display at the Auburn Museum did not put itself together nor do our meetings take place without a lot of preparation. We owe our continued growth and existence to those members who are willing to donate their time and energies for IHRS, not in locating antique radios.

And the Bulletin -- the lifeblood of our organization! It is published four times a year and constitutes a tremendous effort and responsibility. With many of our members this is the only tie they have to the Indiana Historical Radio Society. The Bulletin has to be good or they see no reason to remain with us. I'm very proud of our Bulletin and of those members who put it together. I believe it's the best. Let's keep it that way. "Keep those cards and letters coming, folks." Fred needs your input.

So that's the way it is, this June of 1981. We've come a long way in ten years. We've had a crisis or two, but brave souls have always jumped in and grabbed the reins.

I think we have a great organization and expect it to grow even greater. We have what it takes -- good people. I am proud to be a part of a group that exhibits a spirit of friendliness and interest in this fascinating hobby. So, let's go for the next ten.

BE SURE AND GREET THAT NEW MEMBER AT THE NEXT MEETING.

Happy Hunting,

Don Johnston
June 1981

Radio Builder-Experimenter

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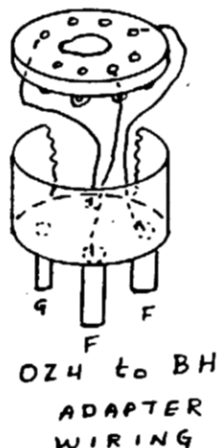
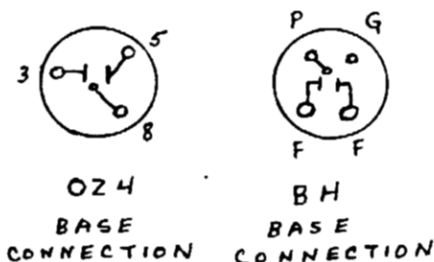
BH RECTIFIER TUBE SUBSTITUTIONS

There are several ways to replace a BH rectifier tube. The purist will demand another identical tube. A more tolerant collector will accept an adapter with a plug-in OZ4 tube. This can easily be done by mounting an 8 pin socket into an old 4 pin tube base. Wire the socket to the base, plug it into your eliminator, plug in an OZ4, and you are ready to play your old radio set.

Other more authentic methods are available, some of these are. You can remove the glass bulb from a defunct BH tube. Inside all OZ4 tubes is a glass bulb with the anodes, cathode, and Helium gas sealed inside. The metal shell serves as a shield to prevent the electrical interference, generated by the ionization of the Helium, from effecting the radio receiver. By bending the four tabs that holds the metal can to the base you can easily pull the can from the base. By unsoldering the three leads from the base pins you can remove the glass OZ4. Carefully cut the bottom out of the BH glass bulb. Connect the OZ4 leads to the proper pins in the BH base. You now have a BH replacement that from a distance looks like the original. It will take a close look to see the OZ4 in the base of the BH tube.

Now for the "I don't care how it looks, I just want it to play," collector we have the easiest method of all. Just connect two 600 volt PIV, 1 ampere diodes across the socket.

If your "B" eliminator is potted in pitch, as one of mine was, you can mount the diodes in an old 4 pin tube base. Now plug it in the tube socket and your eliminator works like new.



AUBURN - 1981

Thanks to all those who helped to make this years Auburn I H R S - A W A meeting a success. Special thanks goes to Mike Burns for his tireless efforts as auctioneer.

Congratulations to Walt Sanders for winning the Best Of Show Award. The trophy is now on display in the museum. A special glass trophy case has been constructed to protect the trophy. The materials for the display case were donated by the City Glass Company and Rea Magnet Wire Company, both of Ft. Wayne. The picture of A. H. Grebe has been mounted, framed and hung by the trophy.

Everyone enjoyed Julian Starks slide show on his trip to China - thanks Julian. We had 58 members, spouses and friends attend the banquet (50% more than expected). We apologise for the crowded conditions but hope everyone enjoyed themselves.

Del Barrett - Ross Smith
Program Co-Chairmen

Editors note: As one of the "extras" that showed up for the banquet, I will speak for all of us with a THANKS to the Program Chairmen and members with reservations for their patience and eagerness to accommodate all at the banquet.

Fred Prohl



We offer for the first time a special
CORRESPONDENCE
COURSE in CITIZEN RADIO

The OLD EQUIPMENT Contest At Auburn

Jerry Hueber, Chairman

The Old Equipment Contest at the I H R S - A W A meeting at Auburn, Indiana was outstanding this year. This was the first year that the Grebe Award - Best of Show Trophy was presented. Walt Sanders was the "big winner" with his Radiola 26 (this can be seen at the Auburn Museum until Labor Day). The playing radios saw much action with many competing, especially in the playing battery class. It was exciting to hear the old horn speakers sounding out the local stations, by the use of batteries and homemade power supplies. The judges, Dr. Russ Hanselman, Don Johnston and Emitt Smith had a tough job deciding on the best equipment (considering historical significance, uniqueness and rarity, quality of restoration, and supporting and illustrating documentation). In some cases only a few points separated the winners. Here are the results:

Playing Battery Receivers

- 1st place - Walt Sanders - "RCA Radiola 26"
- 2nd place - Marshall Howenstein - "Kennedy 220 and Amplifier"

Playing AC Receivers

- 1st place - Walt Sanders - "Zenith 17 Electric Highboy"
- 2nd place - Richard C. Tjarks - "Crosley Showbox"

Non-Playing Commercial Receivers (6 tubes or more)

- 1st place - Frank Heathcote - "Grebe HS-4 8 tube Superhet Midget"
- 2nd place - Gary Gordon - "Zenith 6 tube Superhet"

Non-Playing Homebrew Receivers (6 tubes or more)

- 1st place - George Hauske - "Remler Superhet"
- 2nd place - Walt Sanders - "Rad Rec Superhet"

Old Equipment Contest (continued)

Pre- WWL Wireless

- 1st place - Ralph Barnett "Mecograph Bug -
Bunnell Practice Key - Cable Bug"
- 2nd place - Mike B. Feher "L.E. Knott Apparatus - Transmitter/Receiver -
Coherer."

Radio Publications (Pre 1926)

- 1st place - Ed Taylor "Five Magazines and
Radio News Paperweight"

Vacuum Tube Display

- 1st place - Ross Smith "Fifteen different
Arcturus Tubes on a Board"

I H R S Logansport - Contest Results

The popular vote contest at the Logansport meeting was well received again this summer.

Edna Clemens was given the top vote for her entry in the Ugly Radio category. (Wish we had a picture to show you).

Eric VonGrimminstein took first place with a Kodel Crystal Set in that classification. And Ed Taylor showed the most popular Zenith on display.



HAVE YOU READ?

by Ed Taylor



A HISTORY OF THE MARCONI COMPANY

By W.J. Baker

St. Martin's Press: New York 1972

In 1896 a young Italian arrived in England with some mysterious scientific apparatus as part of his personal luggage. The Customs officials, who had seen nothing like it before, examined it so thoroughly that the delicate apparatus was completely wrecked. This was the inauspicious beginning of a venture that was destined to remold the pattern of 20th century living.

This book begins with a brief resume of early scientific discoveries up to 1896 and goes on to record the fortunes of the Marconi Co. In the course of the book the author covers in detail the story of radio from the first wireless signals across the Atlantic to the transmission of color TV programs via satellite. The narrative includes the development of electronic devices during two world wars and the histories of such specialist fields as sound broadcasting, television, aviation electronics and radar.

The text makes lively reading and the more technical information is written in a clear style which can be readily understood by the general reader. For the technical man, circuit diagrams of early apparatus give added interest. The text is generously illustrated with photos from the Marconi archives.

W. J. Baker joined the Marconi Company in 1952 and is now the technical research editor.



THE INDIANA HISTORICAL
RADIO SOCIETY

- -
TEN YEARS

October, 1971 is the tenth anniversary of the Indiana Historical Radio Society. On October 10, 1971, Thirteen radio collectors and historians met for the first time. The intent of the meeting in Peru, Indiana was to establish a permanent organization to promote the preservation of historical radio equipment. During the past ten years the organization has grown from a membership of thirteen to over two hundred members throughout the United States, Canada, Australia and Great Britain. Through the members efforts a permanent museum has been established in Auburn, Indiana. (An early goal of the Society.) Several additional temporary museums and displays have been set up by members of the Society. The organization has done much to preserve historical radio through searching out and restoring old equipment, writing technical and historical articles, advising new collectors, and generally representing the intent of the I H R S in an exemplary manner. - As a nine year member of the I H R S I can speak with pride to others about the Society and sincerely hope that in October of 1991 we will be noting a 20th anniversary of the Indiana Historical Radio Society with the same pride.

Fred C. Prohl

★ ★ RADIOADS ★ ★

Wanted - A pair of audio transformers for Atwater Kent 20 - 30 series. John D. Leslie, 2408 E. 3rd Street, Mishawaka, Indiana 46544 Phone (219)255-3848

Wanted - Aeriola Senior receiver case, complete with lid, in excellent condition if possible. Rich Gagnon, 5725 Becker Drive, Rochester, Mich. 48063

Trade - 800-B Scott chassis excellent condition, replacement PM speaker, or 23 tube Scott Imperial, very good chassis with tweeters in fair Warrington cabinet, for AM/FM Phantom Scott, comparable condition. Going to Canandaigua. Don Johnston, RR1 Box 218-A, Windfall, Indiana 46076 (317)945-7735

Wanted - A Ft. Wayne Jenny Incandescent Light Bulb, Ca. 1888. Floyd Lions, 456 Post St., San Francisco, CA 94102

Wanted - Raytheon 6K7 and 6L7 metal tubes with ceramic grid-cap insulators for early UHF set. Ross Smith, 1133 Strong Ave., Elkhart, Indiana 46514

Wanted - Sets, tubes, ads and/or information from Slagle Radio Co., Fort Wayne, IN. Bob Slagle, 2518 Paseo Rd., Colorado Springs, CO 80907 (303)635-9489

★ ★ RADIOADS ★ ★

Wanted - Type 48 tube - Need several type 48 tubes in operating condition at a reasonable price. They were available at the last Auburn Meet, but I didn't need them at the time. Will somebody please help? L.L. Gibbs (W8BHT), 701 Brookfield Road, Kettering, Ohio 45429 (513)299-3965

For Sale or Trade - Tower Meistersinger Speaker, Emerson Tombstone 7 tube, AK20 Compact, National NC183, Old Printed Material, Philco 84. Send SASE for list 4-81. Wanted Pilot Wasp, Pilot AC Super Wasp. Junker chassis Radiola RC for parts, early Hallicrafters. David McKenzie (KØSVJ), 170 West 53rd Street, Hialeah, Florida 33012 (305)558-8324

* * * * *

From the Mail Bag:

Sell - Victor Radio-Electrola, Model RE-45. Cabinet has been stripped, radio and record player there but need repair. P. C. Clark, R.R.3, Box 296, Nashville, Indiana 47448 (812)988-4726

Send for list of radios, speakers and radio literature available for sale. Mark Ohmann, Box 414, Albany, MN 56307

The 'From the Mail Bag' ads are from non I H R S members.

Color coding was used by manufacturers of a variety of radio parts as a help in distinguishing the various values of equipment. Dial lamps, battery cables, and resistance line cords are some of the accessories that were so identified.

Several types of dial lamps were manufactured to meet the filament-voltage requirements of different sets. In color coded bulbs, the beads on which the filament is mounted come in four hues - brown, blue, pink, and white. A dial lamp with a brown bead is rated at 6.3 volts and 0.15 amp., and is used in sets having tubes of similar rating, such as the 12SQ7. A blue bead indicates that the filament voltage of the dial lamp is 6.3 and 0.25 amp. for use in sets having 6.3 volt, 0.3 amp. tubes. White is used for lamps of 2.5 volts and 0.5 amp., while a pink bead identifies lamps of 2 volts and 0.6 amp. for battery sets.

Many battery and three-way portable sets have a color-coded battery cable that will tell you immediately what wire should be connected to which battery in case the instructions are lost or a battery plug is broken. The red wire is usually A+; the black wire, A-; the blue wire, B+ maximum; the yellow one, B-; the white, B+ intermediate (22½ or 45 volts); the brown, C+; and the green C-. They leave no need for guesswork.

There is a special color code employed for identifying the resistance value in the old line cords used in AC/DC receivers. As a rule, these line-cord resistors have three wires, one red, one black, and a third wire that is the color-coded resistor wire. In this code yellow means 135 ohms; blue, 160 ohms; white, 180 ohms; green, 200 ohms; light brown, 220 ohms; orange, 260 ohms; grey, 290 ohms; maroon, 315 ohms; and dark brown, 360 ohms. However, if the value is stamped on the plug the color code does not apply.

E.T.

OTTO



WANTED!

DEAD OR ALIVE!

The CONCERT-TROPE

AUTOMATIC PHONOGRAPH

**A 'Sound' Investment
See Us At the Show**

[Booth No. B-61, Demonstrating Room]
in the Ambassador Hotel

Concert-Trope

- 1. Plays 33 selections automatically
- 2. Changes records on its own
- 3. 100% music per hour
- 4. Highest quality voice heard throughout



Concert-Trope

- 1. First rate quality
- 2. Perfect action
- 3. Excellent amplifier
- 4. Few working parts
- 5. Successful dependant design

Write for Reader's
Proposition

CONCERT-TROPE MANUFACTURING CORP.
Indianapolis, Ind.

CONCERT-TROPE MFG. CORP., INDIANAPOLIS, IN

PRODUCT: Automatic Phonograph, 33 selections,
both sides, and only in sequence.

Incorporated on May 1, 1929, Capital \$50,000.

OFFICERS: President- George M. Watts
Vice-President- W.R. Loomis
Secretary- T. M. Overly
Treasurer- C. O. Gooding

Factory located at 820 E. Market St., 1930 & 1931

If you have any knowledge or information about
this company or this product write to: James A.
Fred, R 1, Box 41, Cutler, Indiana 46920.

Listen to



**SPORTS,
MUSIC,
& NEWS
BROADCASTS!**



No Tubes
No Batteries
No Noise
No Distortion

Radio

Reception Positively Guaranteed

Includes the stand, crystal cup, arm with cat whisker, an ultra sensitive Philmore Radio crystal, and two terminals for wire connections, mounted on handsome base. Every set factory tested, reception positively guaranteed. Get one now.

No. 6590. Crystal Radio Detector. Price... **25c**

Radio Detector

Complete With Crystal

This Detector is a radio in itself, as it is possible to get reception with it alone, provided you are within 25 miles of a broadcasting station (or up to 100 miles under very favorable conditions). All you need is an aerial and an earphone and you are all set. It is completely assembled and wired, all ready for use. It has two posts, making connection much easier, also making it possible to make changes quickly. Low in price but it gets results.

Advantages of the Crystal Radio

An ideal bedroom radio. Simple to operate and has no operating costs. You can leave it "on" day and night for a month and it will still be in first class condition. Once you have it connected up, and this is simple, you have a radio that should give you trouble-free reception for a long, long time. No electrical connections and consequently it does not pick up electrical interference of motors, electrical devices, etc. Because it produces earphone volume it does not disturb others. Listen to YOUR OWN PROGRAMS UNDISTURBED!

Crystal Detector

Glass Enclosed



While the open type detector will suffice for ordinary purposes, for increased sensitivity and better

results, we recommend this glass enclosed detector. Connections are easily made, and once the detector is tuned, you can slip on the cover, and it will always be ready for instant use. No wiring to do. A simple, efficient crystal radio receiver. Comes with super-sensitive crystal, but without aerial or earphones.

No. 6851. Price Only... **35c**

Super-Sensitive Crystal

For Any Crystal Radio Set

The success or failure of your crystal radio depends on the kind of a crystal that you use. We sell only genuine Philmore Super-sensitive Radio Crystals, same as used in all of the crystal radio receiving sets sold by us. They are made of selected radio mineral, fully guaranteed by the manufacturer.

No. 6887. Price Postpaid **10c**



Cat Whiskers

These Philmore Universal Type Cat Whiskers will fit practically all Crystal Radio Sets. Correctly made and designed. For replacement purposes on your present crystal set, or can be used by those who are building their own sets. Fine points, firm and sensitive touch.

No. 6888. Price Each... **5c**

Improve Your Crystal Set

Get Even Better Results



If you have a crystal radio and want to improve its reception—this book tells you how! How to improve Crystal Radio Set reception, how to convert your set into an All-Wave Crystal Set. Match Box Crystal Set, 8-Tube Receiving Set, Short Wave Receiver Adapter for foreign reception, etc., etc. Many boys start with a crystal radio and gradually add to their set, building up a more powerful and more sensitive set. Increase the efficiency of your set by following this book, as well as build other types of sets. Contains hints on building television receivers, how they operate, etc.

No. 1596. Price Only... **10c**

Sensitive Radio Headphones

SUPER PHONES



A rugged, more sensitive 2-phone headset for louder and longer distance reception. Large chrome steel ear sets. Splendid addition to short wave sets for foreign reception.

No. 6880. Price Postpaid **\$2.79**

High fidelity and sensitive phones made for use on crystal sets, electric radios and battery sets. Can be used with any of our sets listed in this catalog. Can also be used on other radios in addition to speaker or in place of speaker. Fine for bedroom use.

No. 6886. SINGLE PHONE. Price Postpaid Only... **89c**



No. 6885. 2-PHONE HEADSET, Complete with double headband, cord, etc. **\$1.79**

148 ★ Johnson Smith & Co., ★ Detroit, Mich.