

Indiana Historical Radio Society BULLETIN

Vol. 4

March 1975

No. 1



The Symphony

HISTORICAL RADIO INVENTORY

The problem of inventory in any collection seems monumental at first. If you try to list everything on sheets of paper or in notebooks, there never seems to be enough space for each item and if an inventoried item is sold or swapped it must be crossed out leaving a messy appearance.

One of the easiest ways to inventory is to use 3" X 5" file cards. I had some printed which will accept all pertinent information on the front. Each attractive card can include make, model, serial no., cost, current value to you, and condition. The blank back of the card can then be used for dates, historical significance or documentation on any particular equipment or set you own.

For insurance claims the inventory file should of course be kept separate from your collection in case of fire or theft. These handy cards can also be used to help establish tax deductions on donated items.



HISTORICAL RADIO INVENTORY



Item _____

Make _____

Model _____ Serial _____

Cost _____ Value _____

Mint _____ Excellent _____ Good _____ Poor _____

Use other side for additional information.

Anyone interested in obtaining 100 of these file cards send a long self-addressed stamped envelope and \$1.00 to - Ed Taylor, 245 N. Oakland Ave., Indianapolis, IN 46201.

—THE BEST PRACTICAL BOOK APPEARING IN YEARS—

"Radio Telephony for Amateurs"

By STUART BALLANTINE

Not especially about radio telephony, but mostly about C.W. transmission and modern reception. New and reliable dope on aeriels, the design of C.W. circuits, modulation methods, master oscillators, super-heterodynes, radio frequency amplification, chokes and filters, etc. A book which every amateur should have and which we unhesitatingly recommend—see the Book Review this month. A cloth-bound book of 296 pages with more new dope than has appeared for years, for the small price of \$1.50 postpaid. Send for yours today, O.M.

QST BOOK DEPARTMENT, 1045 Main St., Hartford, Conn.



AUCTION – AUCTION – AUCTION – AUCTION FORT WAYNE HOSTS NEXT MEET



On Saturday, May 17, the Spring Meet of the IHRS will be held in the Community Hall at the Southtown Mall, Tillman Road and U.S. 27 at the South edge of Ft. Wayne, Indiana. A business meeting will be held around 10:00 AM. The auction will be held in the afternoon. **SPEAKER CONTEST** - Up to 40 speakers can be handled in this contest. Your speaker will be judged according to its tonal quality. Trophies will be awarded. **REMEMBER - BRING SOMETHING FOR THE AUCTION, AUCTION, AUCTION.** If you have any questions contact Del Barrett, 1517 Pacific Drive, Fort Wayne, IN 46819.



REACTIVATION MADE EASY

Our foreign correspondent informs us that now one need not despair over burnt-out vacuum tubes. "If thrown into the air," he says, "they will most assuredly light on the floor."

COMING EVENTS

COMBINED IHRS - AWA MEET TO BE HELD AT PURDUE UNIVERSITY, LAFAYETTE, INDIANA ON JUNE 21, 1975.

LARGEST COLLECTION OF REGENERATIVE RADIOS EVER ASSEMBLED TO BE SEEN AT THIS MEET.

PRESIDENT OF AWA AND SECRETARY OF AWA TO ATTEND MEET.

LARGE BANQUET TO BE HELD IN THE EVENING.

OPEN HOUSE ON FRIDAY, JUNE 20, AT HOME OF GARY A. VIERK, EDITOR, IHRS.

DETAILS TO BE INCLUDED IN NEXT BULLETIN AND AWA BULLETIN.

TOWER RADIO
PRODUCTS
ON SALE EVERYWHERE

YAXLEY
APPROVED RADIO PRODUCTS



A MESSAGE FROM OUR PRESIDENT

I H R S Members,

Treasurer Ed Taylor reports the club membership is up for this time of year! Welcome to our new members, we hope your interest in preserving radio of the past and your membership in the Indiana Historical Radio Society will be rewarding and long lasting.

The Indianapolis 1926 - 1928 telephone directory lists a local manufacturing company called the Radio Cabinet Company. C. A. James, Manager. (Two addresses: 2118 North Gayle and 2123 North Olney). This company manufactured the famous Orchestron line of radio loud speakers in various models. They were nationally distributed and advertised. How about it Hoosiers, check your library for brief bits of early Indiana radio history in your town. Send them to our bulletin editor Gary Vierk.

California collectors have in the past provided excellent support for the IHRS Bulletin. They have now organized the California Historical Radio Society. We wish them success and look forward to a continued common interest in Historical Radio.

See you in Ft. Wayne.

Fred Prohl



THE O.W.L. RHEOSTAT
Patents pendings

An instrument of real Value, NO THERMO-ACTION resulting in distortion because all parts are made of the same resistance alloy throughout.

PRICE - - \$1.00

1012 Ogden Ave., New York City

"Airline" Radio

6 and 7 Tube Sets

"A" and "B" Batteries
and Radio Accessories
Carried in Stock

**Montgomery Ward
& Co.**

1115 Main Street
Evansville, Ind.



POSITIONS SECURED!

**Premier
Tully**

Manufacturing Co.

520 So. Canal Street
CHICAGO, ILL.



indiana state museum

Department of Natural Resources
202 North Alabama Street, Indianapolis, Indiana 46204
Heritage Square — 317-633-4948

January 22, 1975

Mr. Ross Smith, Secretary
Indiana Historical Radio Society
1133 Strong Avenue
Elkhart, Indiana 46514

Dear Mr. Smith:

The Historical Radio Exhibit is still being received by the public in a highly complimentary manner. Approximately 300 people are now visiting our Museum daily. Many are school students who know nothing of the development of the Radio. The exhibit is doing a great job to educate these young people in the history of Radio and its contribution to our culture.

We would like to hold the exhibit until June of 76 at which time our Bicentennial George Rogers Clark Exhibit (a \$200,000.00) project will be running full bore. Construction will then begin on the Geology Exhibit planned for that gallery about mid year.

Again my sincere thanks to the Society. I wish you the best of luck for your meeting here at the Museum on February 9, 1975. If I can be of any further assistance, please don't hesitate to contact me.

Very truly yours,

Carl H. Armstrong,
Director
Museums & Memorials

CHA:jm



A stylized "birdstone"—an Indian artifact—symbolizes the Indiana State Museum and reflects the natural and cultural history of the State.

INDIANAPOLIS

Another cold day set the stage for the first meet of the year. Thirty members braved the cold and snow to attend the meet in Indianapolis at the Indiana State Museum as well as a visit to the Taylor Museum.

Mr. Alvey Pittman W9EL presented an interesting discussion on the development of communications. His program was supplemented by a detailed life span chart beginning with Gilbert in 1580. The chart presented a new look at the history of communications and will be used in later bulletins.

For some members this meet afforded the opportunity to see the IHRS Museum Display in the Indiana State Museum.

IHRs members who worked on this meet are to be thanked for their efforts.
Sunday, February 9, 1975.



news roundup

GLEN ANGLE (Clear Lake, SD) now has 16 regenerative receivers in his collection. His latest finds include a Pracmak 3 tuber "199s" in new condition and a nice Paragon Type Two.

LEO GIBBS (Kettering, OH) is busy restoring an AK Model 4445, 4 tube breadboard after hesitating for almost two years, because it was in such poor condition.

RICK & CHRIS AMMON (Mt. Carmel, IL) has a pair of AK 10c boards, an interesting homebrew spark gap set with factory rotary, a mint 1926 A. C. Dayton XL-20 and a FADA 175A that works great. His collection is increasing very rapidly.

GREG DOCKTER (Bismark, ND) traded his whole AK collection including his only breadboard on the down payment for a house. They had been renting and thought it was time to "settle in"...so away went the AK group to a man who wanted it as a down payment on his house. He traded away his entire collection. He writes the house has 4 bedrooms... enough room to set up radio displays!!!!

BOB LOZIER (Monroe, NC) recently found some nice sets, including a Federal 61, Gilfillan GN-3, Kennedy Model V, and to top it off a Standardyne Multivalve set in perfect working order.

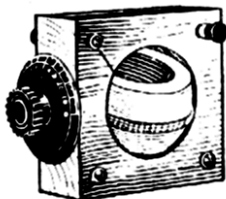
GEORGE HAUSSKE (Wheaton, IL) has recently found a home brew set with Remler Variometer and an RCA "FH" Horn Speaker.

MIKE WHITE (Naperville, IL) found a nice AK10 No. 4700 at the Wheaton Hamfest.

ALAN DOUGLAS (Pocasset, Mass) got two Receptrad Superhets on a swap. With some restoration on the best one Alan will have a real showpiece.

DENNIS PITCHER (Winamac, IN) added a Michigan Midget MRD-10 and a Browning Drike to his collection.

FRANKLIN VARIOMETER



Made of selected hardwood. Permanent contacts assure smoothness of operation, unsurpassed by any other make.

PRICE \$4.50

Sample sent prepaid \$3.50

Dealers write for Discounts.

FRANKLIN RADIO MFG. CO.

711 Penn. Ave.,

Wilksburg, Pa.

CRYSTAL RECEIVER

The "Pal" Crystal Radio Receiver shown, submitted by the Pal Radio Co., 1204 Summit Ave., Jersey City,



N. J., works very well when used with an efficient aerial. It covers the broadcast range, and occupies small space.

FORMER HEAD OF COLLINS WIRELESS TELEPHONE COMPANY PARDONED BY PRESIDENT WILSON

BY
Robert G. Middleton

President Wilson granted a pardon October 19, 1916 to Cameron Spear of New York, former head of the Collins Wireless Telephone Co., Spear was serving a five-year sentence in the Federal prison at Atlanta for criminal conspiracy and using the United States mails to defraud. Photographs of one of the Collins wireless telephone systems are shown in Fig. 1. This is a spark carrier system. A spark repetition rate of 10,000 cycles per second was used in early experiments, and was eventually increased to a repetition rate of 20,000 cycles per second. However, basic problems of excessive distortion and noise were never fully overcome. Marconi experimented with a sequential spark-discharge system in this era, and reportedly obtained a smoother carrier wave. However, none of the spark wireless telephone systems competed successfully against the Poulen arc and the Alexanderson alternator. One of the Collins systems utilized the Alexanderson alternator.

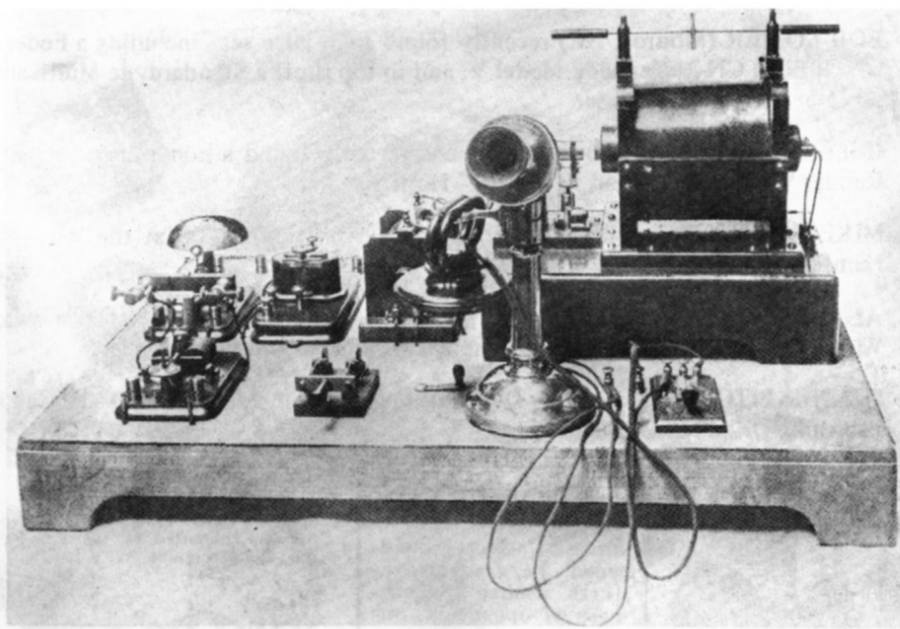


Fig. 1 Photo of one of Collins wireless-telephone systems.

Norden-Hauck Super-10
Highest Class Receiver in the World

Restoring Antique Radio Receivers

I have a Heathkit model GD-1150 ultrasonic cleaner which costs less than \$60.00. I have had dramatic results in cleaning all sorts of plated hardware and parts with practically no 'elbow grease' at all and what is more important is that the results are superior because the good finish on the part is not damaged at all in the process of removing oxidations. Some collectors may have had poor results with ultrasonic cleaners, but it can almost always be traced to using the wrong cleaning agent for the job. Popular household cleaning products such as MR.CLEAN and others will not work well unless the surface tension is reduced by the addition of a water softner product such as DOWNEY. The other important cleaning agent to use for removing non-ferrous oxidations is a granular dry acid compound called Sparex #2 made by Quimby & Company, 10 Oakdale Rd., Chester, N.J.; 07930. (You can probably get it at a crafts store that handles electroplating supplies for making jewelry. You should ask for a compound for cleansing and pickling non-ferrous metals.) A ten ounce can costs less than \$2.00 and will last for years. **DO NOT FOLLOW THE MIXING INSTRUCTIONS.** The normal solution is much too strong for our uses. Mix only 1/2 oz. to one pint of water. Use the solution at room temprature.

When using the ultrasonic cleaner, you do not pour the cleaning agents into the tank. You simply fill the tank with water. Then you place a 400ml. glass beaker in the tank. Into the beaker go the agents and parts to be cleaned. This keeps you from having to clean the tank; you simply transfer the parts from one beaker to the other.

A cleaning sequence would go like this:

- 1 Put the parts into a solution of dish detergent and water softner and clean for 30-60sec.
- 2 Rinse in clean water for 30sec. Take out parts and dry off most of the water.
- 3 Place the parts in a solution of universal lacquer thinner and clean for 60sec. (This removes most oils, lacquer and varnish that would keep the Sparex #2 away from the oxidations.)
- 4 Then place the parts into the Sparex #2 solution. Clean the parts for only 15sec. Take out the parts and check the cleaning progress. Never clean for more than 15 sec. without checking the progress.
- 5 Now clean the parts in water for 30 sec., then change the water and repeat the step.
- 6 The parts are now clean and ready to be dried completely and given a coat of brushing lacquer to retard further oxidation.

This might sound like a real bother.... I assure you it is not. If you use this process with an ultrasonic cleaner, you can clean 50 to 100 items such as nuts and bolts, switch contacts, binding posts, tube socket contacts and the like in much less than 30 minutes. The cleaning agents can be saved until they become very dirty or the acid weak. You can be ready to clean at a minutes notice.

ROBERT E. LOZIER, JR.
318 EAST HOUSTON STREET
MONROE, N. C. 28110

Scientific Engineering Association

FRIENDLY EXCHANGE

WANTED - Microphones - 1920 to 1940. Literature also. Bob Paquette, 443 N. 31st St., Milwaukee, WI 53208.

FOR SALE OR SWAP - Battery radios, crystal sets, speakers, tubes, etc. Send SASE. R. Lane, 2301, Indep. Ave., Kansas City, MO 64124.

WANTED - Supreme Radio Analyzer, Model 336 Delux in good condition. Will trade old radios or pay cash. Mike White, 118 Countryview Dr., Naperville, IN 60540.

WANTED - Early 1 and 2 Tube Commercial Receivers, crystal detector receivers and early wireless equipment. Need not be in working condition. State price and model. Dave McKenzie, 1200 W. Euclid, Indianola, Iowa 50125.

WANTED - Three small knobs for a Zenith 4R. Also need the can portion of a 3-tube TA unit (5/4 OD). Mike White, 118 Countryview Dr., Naperville, IN 60504.

FOR SALE OR TRADE - Sterling R-401 tube tester, \$5; Aero shortwave converter (1 Good & 1 Poor Plug-in coil), \$5; Nice AK 33 with refinished panel, less tubes, \$35; WE 540-AW spkr with damaged cone, working, \$5 or trade me a good cone. Add postage. George Hausske, 1922 E. Indiana, Wheaton, IL 60187.

WANTED - Original manufacturers' service bulletins for RCA 630TS and Halli-crafters T-54 tv receivers. Also looking for a T-54 itself. Carleton Sarver, 6011 N. River Rd., Waterville, Ohio 43566.

WANTED - Crosley 50, 50A and 51A (Amps), helix and spark gap equipment and any duplicates you might have for sale. For sale/trade - 1926 QSTs and several books, SASE for list. Rick Ammon & Chris, PO Box 104, Mt. Carmel, IL 62863.

TRADE - Superball Antenna in original box to swap for Crosley Model 59 AC Chassis (Used in showbox, sonneteer, or songster). Greg Dockter, 1913 Kennedy Avenue, Bismark, N. Dakota 58501.

BID SALE - Grebe CR-8, serial 1658, with brass base 201A, Kennedy 281 with amp (minus one xfmr), with 3 brass 201As. Best offer over \$200 for either plus shipping costs. Write to Bob Hellis, Box 1616, Estes Park, CO 80517. Subject to prior sale.

WANTED - DeForest fan switch, AK Breadboard parts, cabinets and audios for Kennedy 525 amp. and also need Wm B. Duck No. 14 Catalog. Glen Angle, Clear Lake, SD 57226.

FOR SALE OR SWAP - Battery radios, crystal sets, speakers, tubes, etc. Send SASE. R. Lane, 2301 Indep. Ave., Kansas City, MO 64124.

FRIENDLY EXCHANGE

WANTED - Main Variable condenser and knob for Federal 61. Can make a mold of your knob and return undamaged if possible. Also need schematic of Standardyne Multivalve. I have an extra Crosley Super Trirdyne for trade. Bob Lozier, 318 E. Houston St., Monroe, N.C. 28110.

WANTED - Scott Radios. Good of parts sets, Scott news, any other literature, also Worlds Record Super 8, 9 or 10. Send picture if possible. J. Clark, 1617 Roselawn, Lansing, MI 48915.

FOR SALE - RCA factory service books 1929 - 1942, bound with heavy covers. All for \$35.00, postage paid. Have seven good Daven Mu 20, Kellogg 401s, and Cunningham tubes for \$25.00. Arthur J. Bardish, 4042 Herman, S.W., Grand Rapids, Mich. 49509.

WANTED - 2 AK variometers. Have old radio parts to trade or will buy. Art Trauffer, 120 Fourth St., Council Bluffs, Iowa 51501.

TRADE - Superball Antenna in original box to swap for Crosley Model 59 AC Chassis (Used in showbox, sonneteer, or songster). Greg Dockter, 1913 Kennedy Avenue, Bismark, N. Dakota 58501.



ATWATER KENT

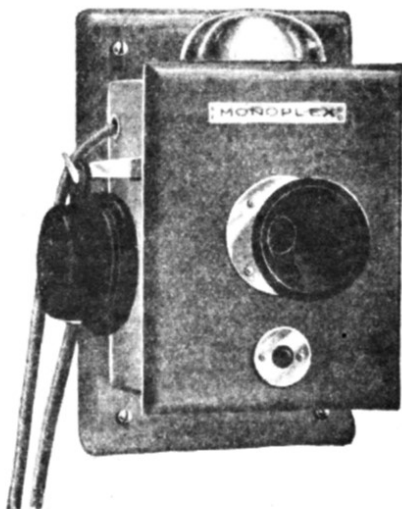
1902

A New Telephone.

Owing to the rapid increase of private line telephones there is a growing demand for a first-class inexpensive telephone—that is, an instrument which “talks” perfectly, rings perfectly, which will not get out of order, and also finished in the manner that becomes telephone apparatus.

The Atwater-Kent Mfg. Works, of Philadelphia, has devoted a large amount of time and considerable expense in developing an instrument of this type, which is now being placed on the market under the name of the “Monoplex” telephone. A number of advantages are claimed for this type for use on short lines.

The hook has a long lever, and consequently there is a maximum motion at the contacts with the least motion of the hook. The receiver is of the watch-case type, and aside from the rubber ear cap is in one piece. There is thus no chance for a change in adjustment or of parts becoming loose. All connections are soldered, and the binding posts are so marked that there is no chance of mistake in connecting. Two wires are all that are needed between any two instruments, and complete directions for setting up are sent with each telephone. The Monoplex telephone will talk over a distance of three miles, and is thus admirably adapted for use in office, factories, hotels, apartments and private houses.



MONOPLEX TELEPHONE.

ATWATER KENT



ELECTRAD

No Hum

Sovereign

A C

STANDARD SOCKET

Tube

Put Sovereign A-C Tubes into your set. Throw away your "A" Batteries, "A" Eliminators and Chargers. Be free from all battery noises and bother, and get clear, clean, true music with full over-tone and without hum or crackling. Sovereigns use standard sockets. Easy to install in a few minutes. Then simply throw your switch, for your power is unfailing and plenty. Have your set up-to-date. Write for treatise on A-C Tubes and Receivers with typical wiring diagrams included. If your dealer cannot supply you we will ship C.O.D.

SOVEREIGN ELECTRIC & MANUFACTURING CO.
125 N. Sangamon Street, Chicago, Illinois

Master-Craft

TUBE REJUVENATOR

POSITIVELY will rejuvenate any type tube on the batteries of your set in 45 seconds. Simple to operate. No other parts necessary. Good for any number of tubes. Made of genuine red Bakelite.

Tested and Approved by Popular Science Institute of Standards, Popular Radio Laboratory, Radio Engineering and twelve other leading radio laboratories.

We guarantee that it will equal the results obtained with any rejuvenator regardless of price. Get yours today. All old radio tubes can be made good as new in 45 seconds. Save the difference.

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Satisfaction Guaranteed

\$1.00 ONLY POSTPAID

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Only at Grant's, of All Chain Stores, Can You Purchase Genuine Browning-Drake Quality Radio Parts

Come and See!

W. T. Grant Co.

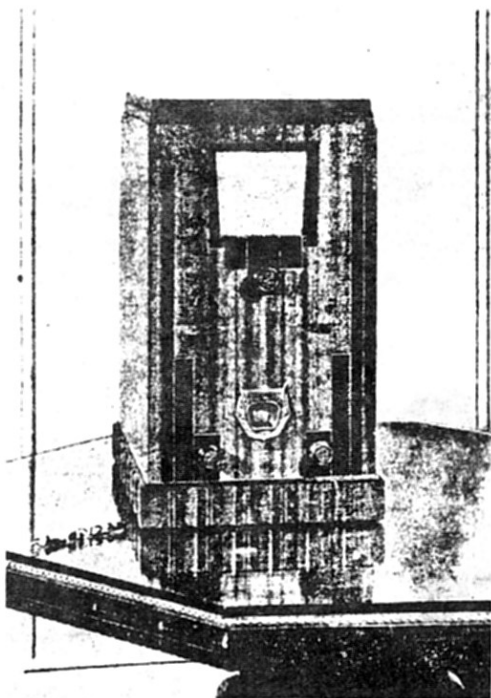
25c. 50c. \$1.00 Dept. Stores

Known for Values
500 Block on Main St.
Evansville, Ind.

1933 TELEVISION

by Ed Taylor

Television was broadcast experimentally during the 1933 Worlds Fair in Chicago. This was a fully mechanical scanning system of advanced design for the time. Pictured is a typical home television set. The picture area is about $4\frac{1}{2}$ square and appears on a ground glass screen. It is rear projected from a hot cathode crater type neon lamp which sends a high intensity beam thru the scanning disc which is equipped with lenses to enlarge the picture. The lenses are arranged in 3 spirals for interlace to cut down flicker. Synchronization is maintained by using 900 RPM motors on the same line frequency. The picture was made orange and black. These sets were sold under the trade names of Visionette and Echophone. Consider yourself fortunate to have one in your collection.



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MATERIAL FOR THE NEXT BULLETIN MUST BE RECEIVED NO LATER
THAN MAY 15. THE BULLETIN WILL BE PUBLISHED IN JUNE.

The permanent headquarters and mailing address for the Indiana Historical Radio Society has been established to help coordinate our expanding organization. The address is 245 N. Oakland Ave., Indianapolis, IN 46201. This is the home of the new museum opened by our Treasurer, Ed Taylor.

SIGNING OFF

Clifford J. Downs, 816 Jefferson, Rochester, IN 46975, recently passed away.



**EASTERN
RADIO**

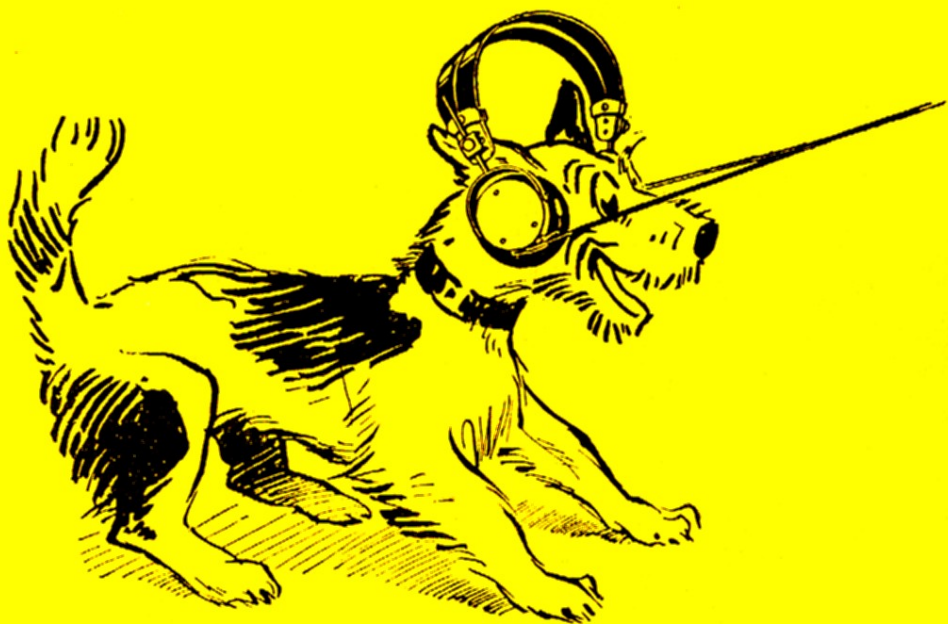
INSTITUTE

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CINCINNATI, OHIO
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