

BULLETIN

Indiana Historical Radio Society

PRESERVATION FOR POSTERITY

Vol. 31

Winter, 2002

No 4



The "America" Crystal Set

By Norman Hertz



Officers

(revised 12/4/01)

Responsibilities

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3545 Rock Maple Drive
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Sites and Dates of Meets

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3129 Lanam Ridge Road
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NOTE

Applications and Correspondence
Dues, Financial, and Address
Change. Please Notify
Immediately of Change of Address.

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Radio-Ads

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Donations & Scrapbook Material

Fred Schultz

1246 Lincolnway South
Ligonier, Indiana 46767
(260) 894-3092 e-mail: olradio@ligtel.com

IHRS Museum Curator

Bulletin Deadlines: News, Articles & Radio Ads, 2/15, 5/15, 8/15, 11/15

IHRS e-mail Web site address: www.indianahistoricalradio.org

The INDIANA HISTORICAL RADIO SOCIETY is a non-profit organization founded in 1971. Annual membership dues are \$15.00/year or 2 years/\$25.00, which includes the quarterly IHRS "BULLETIN". Radio-Ads are free to all members. Please include a S.A.S.E. when requesting information. Send applications for membership and renewals to Fred Prohl, our treasurer as noted above.

Cover photo courtesy of Norman Hertz

IHRS ACTIVITIES for 2002. our 31st YEAR

IHRS WINTER MEET – FEBRUARY 15, 2003

INDIANAPOLIS at the **HOLIDAY INN SOUTHEAST**,
5120 Victory Drive, I-465 at EMERSON ROAD, EXIT 52.
All activities are inside. Set up, 6-8 PM Friday.
Registration 7 AM Saturday. \$5.00 per member/family.
Table rental \$5.00 each. Tables can be reserved in
advance by pre-registering with treasurer Fred Prohl, 3129
Lanam Ridge Road, Nashville, IN 47448. *Two contest
categories:* My Favorite Transistor Radio and 1, 2, or 3
tube battery radios.

Lodging: Holiday Inn, 317-783-7751, Red Roof Inn,
(across from the Holiday Inn) 317-788-9551 or 800-733-
7663, Super 8, 4530 S. Emerson Ave, 317-788-0955, or
800-800-8000.

Winter meet Information: Fred Prohl 812-988-1761 or
Dr. Ed Taylor 317-638-1641.

Spring Fling Meet at Kokomo

May 2 and 3, 2003 – Friday 4 PM to 8 PM and Saturday 7 AM to 3 PM
Meet at the Johanning Civic Center. Located at 1500 North Reed Road
(US 31) in Kokomo. Plenty of indoor Radio Swap and Sell space.
Vintage radio contests, Radio operation and repair seminars.

Northern Indiana Summer Meet at Elkhart

September 6, 2003 – Saturday 8:00 AM

Meet at the High Dive Pavilion, 500 East Beardsley Avenue, Elkhart,
Indiana. Out door Radio Swap and Sell. Silent auction. Vintage radio
contest.

Fall Foliage Meet at Greenfield

October 11, 2003 – Saturday 8:00 AM

Meet at the Riley Park Shelter, Greenfield, Indiana.
(One block north of US40 on Apple Street.) Registration is \$5:00 per
member/family. Indoor and outdoor setup space for Radio Swap & Sell.

Other Club activities

MSARC For information contact George Freeman ralogeum@aol.com

NARC ACTIVITIES -2003

For NARC meet info contact: Jim Thompson, 612-822-4000 or Kip Wallace, 612-544-2547, KipWallace@dl-inc.com

ARCI ACTIVITIES - 2003

All meets at Elgin, IL, RAMADA INN, 345 River Rd. 847-695-5000.

Info: Tom Klienschmidt 847-255-8128 or Art Bilski 630-739-1060, OLDRADIO@NTSOURCE.COM

MICHIGAN ANTIQUE RADIO CLUB

February 1, 2003 28600 Eleven Mile Rd. Farmington Hills, MI

Info: Oran Sauder murrellr@ameritech.net (248) 437-4413 John Reinicke - john.reinicke@fanucrobotics.com (248) 626-4895

Join the

AWA

ANTIQUÉ WIRELESS ASSOCIATION

THE ORIGINAL AND LARGEST HISTORICAL RADIO-COLLECTOR GROUP

Publishes *Old Timer's Bulletin* with:

- . Battery and AC receiver restoration
 - . Vacuum-tube history and collecting
 - . Old-time amateur-radio contests
 - . Communications receivers
 - . Free want-sell-swap ads
 - . Early television
 - . Horn loudspeakers
 - . Reviews of current books
 - . Keys and land-line telegraphy
 - . News of U. S. and foreign clubs
 - . Information on public radio museums.
 - . Maintains unique radio-TV museum.
- Produces the annual Rochester meet.
 - Co-sponsors local meets.
 - Publishes the annual AWA Review.

Membership is only \$20 per year

Write to:

Antique Wireless Association, Inc.

Box E, Breesport, NY 14816

<http://www.antiquewireless.org>

IHRS Business News

IHRS Business Meeting Minutes – October 12, 2002

IHRS President, Terry Garl, opened the meeting at 12:30 PM.

The Fall Meet contest results were given by Terry.

Reports: The minutes of the IHRS Elkhart meeting the treasurer's report were read and approved. Vice President Bill Morris reported on a request from the Indianapolis Symphony Orchestra to provide 1940's radios for a Symphony presentation. Bill has contacted members to assist with the display. Editor Ed Dupart reported appreciation for the articles submitted by members. Ed feels we are getting good results from the Bulletin printer at a reasonable cost.

Discussion: Michael Feldt offered to organize an IHRS meet at Noblesville as a 5th meet or to replace the Fall meet in Greenfield. The pro's and con's were discussed resulting in a motion to continue the Greenfield Fall Foliage Meet in 2003. The motion was passed by a majority of the attending members.

Fred Prohl volunteered to chair the Spring meet in Kokomo. Fred requested members who live in the Kokomo area to consider providing assistance with the meet. Herm and Shirley Gross and Don and Marilyn Johnston offered their time. Fred stated that he will be contacting other members for specific tasks.

Annual Election: The IHRS 2003 officer candidate list was presented. Nominations were requested from the members. No additional nominations were presented, a motion was made and passed to close the nominations. A motion was made and passed to unanimously accept the candidates as presented.

The 2003 IHRS officers are:

President – Terry Garl

Vice President – Bill Morris

Secretary/Treasurer – Fred Prohl

Editor – Ed Dupart

Historian – Dr. Ed Taylor

Museum Curator – Fred Schultz, Marcella Schultz

A thank you was given to those who provided food for the "pitch in" lunch.

The meeting was adjourned at 12:55 PM.

Respectfully submitted by Fred Prohl, IHRS Secretary

The following letter of thanks was sent to the Indiana Symphony Society on November 1, 2002:

Dear Indiana Symphony Society Members,

The members of the Indiana Historical Radio Society (IHRS) thank you for your gift. Distribution of the \$250 will be decided by IHRS member vote at our next business meeting. More than likely the decision will favor the Indiana Historic Radio Museum in Ligonier, Indiana.

We are pleased that our members, Bill Morris and Ray Andrejasich, were able to provide vintage radios for the Indianapolis Symphony Orchestra's presentation October 11 through 13. Our members enjoy the opportunity to display their radios and share the nostalgia.

Sincerely, Fred Prohl for the Indiana Historical Radio Society

2003 *IHRS* DUES NOTICE

Your Indiana Historical Radio Society membership is now due if your mailing label reads 12/02.

Please send a check payable to the ***Indiana Historical Radio Society*** in the amount of \$15.00 for a one year membership or \$25.00 for a two year membership.

Send your payment to:

Fred Prohl, IHRS
3129 Lanam Ridge Road
Nashville, IN 47448

Please include your current mailing address, if not on your check, and your email address, if you have one.

Questions concerning your membership should be directed to Fred at fprohl@att.net or call him at 812-988-1761.

Comments from the Editor

Ed Dupart

As I write this, fall colors have come and gone and we have already had a 4" snow in East Central Indiana and a few dustings. So, now it's time to get ready for the Holidays and plan for the February meet in Indianapolis. By the time the February meet gets here, I have, and I think a lot of other people have "cabin fever" and are ready for a radio show. The weather has usually been pretty decent for this show, so get ready!

I appreciate the articles and pictures that have been sent to me. Keep it up. Remember, this is your Bulletin and with your contributions this publication can be even better!

I will welcome all suggestions for improving the Bulletin.

Please use e-mail or regular postal mail for sending articles and information to me. If you want to send me articles on a 3 1/2 or 5 1/4 floppy, that's great, too. I can work with virtually any word-processing program for DOS or windows designed for IBM compatibles. Please send computerized pictures in a BMP, JPEG or TIFF format. Pictures can be incorporated with the article done in Microsoft Word or WordPerfect. If you don't have your pictures computerized, send the photo to me, preferably 35mm. Polaroids lose detail when I scan them. If you want your pictures and articles returned to you, please let me know. Sorry, I'm not set up for Mac or Apple. Typewritten articles are fine, too, because I can scan those into my computer.

I will be looking for pictures of unusual radios from inexpensive to expensive radios that you normally don't see at shows for a picture gallery in the Bulletin.

Send me a photo of your favorite radio and I will put it in a place for favorite radios.

If I make a mistake, please let me know so I can correct it.

If you haven't been to the IHRS museum in Ligonier, Indiana, why not plan a visit? This could be a good mini-vacation for anyone that likes radios. There are a lot of other attractions in the area to see. Contact Fred Schultz for more information. (260) 894-3092 e-mail: olradio@ligtel.com

Have a happy and safe winter.

Ed Dupart

IHRS Members Remember

Leo Gibbs - Long time Indiana Historical Radio Society member and friend Leo Gibbs passed away earlier this year. Leo's radio career during the late 1920's included Bremer Tully, Buckingham Radio, Thorardson, Silver-Marshall and Metro Electric. In the years that followed Leo opened his own service shop, then worked for Stewart-Warner, ERLA, Belmont, Bendix, Majestic, Newark Electric and Motorola. During the 40's he gained experience at Radio Aircraft Lab (Dayton, Ohio) with a period of time at Western Electric in vacuum tube development. He returned to Dayton in 1946 where he continued with responsibilities in vacuum technology, retiring in 1972. Leo was the "goto" man for vacuum tube data and historical information for many Midwest radio collectors. Leo was 92 years old when he died.

*See In Memoriam - Leo Gibbs, Radio Pioneer 1910 - 2002,
by John Heck SPARK Bulletin, vol 1 #2 Spring 2002*

Richard Reeves - Former Indiana Historical Radio Society member Richard Reeves of Indianapolis died November 4, 2002. He was a pharmacist for 48 years, a WWII Navy veteran, a ham radio operator and a graduate of Butler University. Richard was 85 years old.

Ralph Williams - IHRS members who frequently attend the Antique Wireless Association's annual Historical Radio Conference and collectors of Atwater Kent Radio will remember Ralph as the authority on Atwater Kent. Since his death on May 31 of this year IHRS members have reminisced meeting with Ralph and learning from his many years of recording radio history. Ralph was 81.

*See Remembering Ralph Williams, By His Friends and Associates
The Old Timers Bulletin, August 2002*

Articles

The "America" Crystal Set

By Norm Hertz

The "America" Crystal set is a crystal radio built into a ceramic form in the shape of Uncle Sam's top hat. In its bright red, white and blue colors, this set may be considered a work of folk art.

Folk art often documents an individual's response to critical moments in American history. Symbols of liberty, for example, became common images as soon as the nation had declared independence and in time of war. Liberty figures, American flags and Uncle Sam were among the images adapted in the form of weathervanes, quilts, textiles and other decorative arts.

Shortly after September 11, 2001, I was inspired to create a work of folk art that would be dedicated to the spirit of America in this trying time. If folk art can take many different forms, I reasoned, why not in the form of an antique crystal radio. The final work would connect my love for collecting antique crystal radios with my love for this great country.

In order to give this work special significance, I selected only materials that were related in some way to the twin towers. The ceramic form came from a small shop that lay in an adjacent side street, in the shadow of the towers. All of the hardware, taps, switches as well as the crystal detector and inner coil assembly, came from Courtlandt Street shops that had existed in the area before the great buildings were erected.

Born and raised in lower Manhattan, and later working in the downtown area, I had spent the greater part of my life close to where these great buildings lay, both before and after their construction. Even my job took me to frequent meetings inside the twin towers to meet with other City and State representatives. In the period prior to the twin towers construction, I had been fortunate to be able to purchase radios and parts from the early days.

By selecting these materials "native" to the site from two different time periods, I felt that I had also established a connection between the past and the present. In completing this work, I had unified these elements into a form that celebrates both America and radio. America reigns as the land of liberty and radio is symbolized as the voice of liberty of the 20th century.

To preserve the uniqueness of this crystal radio, I made only two sets. One went to another member of the radio collecting community, who shares our common interest in antique radio and is also of patriotic spirit. This last set will remain with me as a constant reminder of my love for our hobby and this great country, which I pray shall always remain proud and free.



God Bless the USA!

Norman Hertz and His
"America" Crystal Set at the
2002 AWA Conference

This and the following AWA
photos are courtesy of
Herman Gross.

The "America" Crystal Set

By Norm Hertz

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Folk art often documents an individual's response to critical moments in American history. Symbols of liberty, for example, became common images as soon as the nation had declared independence and in time of war. Liberty figures, American flags and Uncle Sam were among the images adopted in the form of sweatshirts, quilts, towels and other decorative arts.

Shortly after September 11, 2001, I was inspired to create a work of folk art that would be dedicated to the spirit of America in this trying time. If folk art can take many different forms, I reasoned, why not in the form of an antique crystal radio. The final work would connect my love for collecting antique crystal radios with my love for this great country.

In order to give this work special significance, I selected only materials that were related in some way to the radio form. The ceramic form came from a small shop that lay in an adjacent side street, in the shadow of the towers. All of the hardware, tapes, switches as well as the crystal detector and inner coil assembly, came from Connecticut State shops that had opened on the area before the great buildings were erected.

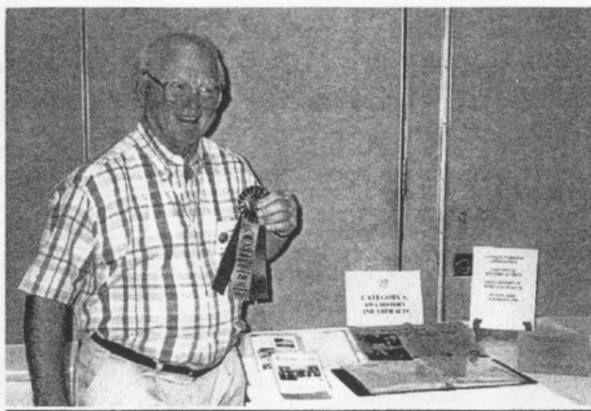
Here and raised in lower Manhattan, and later working in the downtown area, I had spent the greater part of my life close to where these great buildings lay, both before and after their construction. I even my job took me to frequent meetings inside the twin towers to meet with other City and State representatives. In the period prior to the twin towers construction, I had been fortunate to be able to purchase radios and parts from the early days.

By selecting these materials "inspired" in the way from two different time periods, I felt that I had also established a connection between the past and the present. In completing this work, I had unified these elements into a form that celebrates both America and radio. America as long as the land of liberty and radio is established as the voice of liberty of the 20th century.

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God Bless the USA!





Charles Stinger 1st Place Category "AWA History & Artifacts"

An IHRS Member Web Site

johnandjeanantiqueradio.com

IHRS members John Goller and Jean Anderson present their vintage radios at johnandjeanantiqueradio.com. This husband and wife team work together at repairing and refinishing vintage radios. As the pictures indicate in [John and Jeans Gallery](#) the completed radios are in showroom condition. The radios shown are favorites from the couple's collection (not for sale) as well as radios for sale. John takes on the electronic rebuild and repair while Jean tackles the refinishing. Indiana radio collectors will appreciate a Slagle console displayed on a page of its own.



At your next opportunity check out [John and Jean's Gallery](#) at johnandjeanantiqueradio.com.

If you have not recently looked at indianahistoricalradio.org, do so. Some changes have been made and the intent is to update the Indiana Historical Radio Society's web site frequently. (Feedback on the site is listened to and appreciated!)

Fred Prohl, site manager for indianahistoricalradio.org

WOW!

That's all I can say after attending a fabulous Indianapolis Symphony Orchestra concert at the Circle Theater. "On The Air! Radio's Swinging Forties" was performed on the evening of our radio meet, October 12.

Basically, they did a recreation of a 1940's radio broadcast, compete with announcers and commercials, from fictional station WISO. Conductor Jack Everly did double-duty as announcer along with various singers. Their timeline went in reverse, starting with music from 1949 and ending with the announcement of the Pearl Harbor attack.

A full range of vintage music was presented, from Broadway standards to Glenn Miller.

Vocalist Steven Stolen did a stirring rendition of "The White Cliffs of Dover," while Alix Korley did a faithful version of "God Bless America." You'd have sworn Kate Smith was on stage. They also did recreations of famous commercials, such as Chiquita Bananas and Pepsi Cola (the infamous "Pepsi-Cola Hits the Spot" jingle).

Probably the funniest part came when the song "Mama, Yo Quiero" was introduced. The conductor mentioned that a world-famous singer was ready to come on stage and perform the number. Out steps singer Tony Capone— in drag, dressed as Carmen Miranda. The whole place fell over with laughter as he cavorted with the other singers.

There were some poignant moments—there was an ominous hush at the end of a tribute to our fighting forces. A lone spotlight shone on a Marine dress hat while Taps played somberly in the background.

All told, the concert was phenomenal. A good time was had by all.

Now here's where our organization fits in: the Symphony wanted our club to display some 1940's-era sets in their lobby. Unfortunately, their request came less than a week before the concert. On top of that, the concert coincided with our Fall Meet. IHRS Member Ray Andrejasich had some 40's vintage sets and was willing to help out. So, both he and I displayed various bakelite and wood tabletop radios. I threw in a couple of Zenith portables for good measure. As you can see in the accompanying photos, the Symphony folks outdid themselves—my 7G605 Trans Oceanic never looked better. All of the attendees flocked to the sets, much like moths to a candle flame.

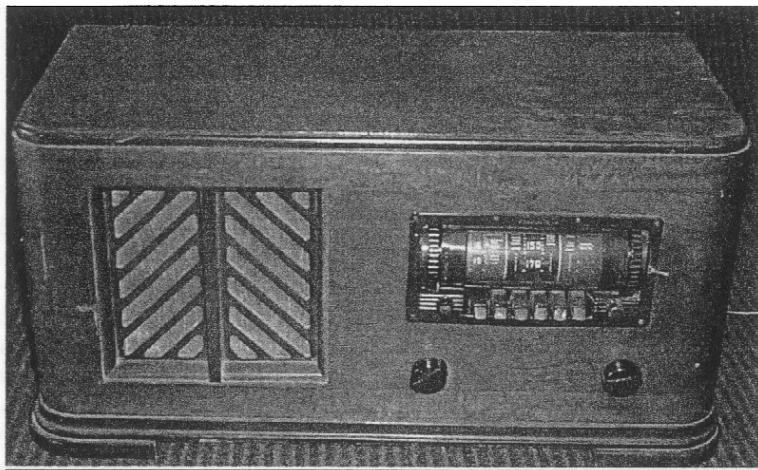
Thanks go to Wes Tedrow of the Indianapolis Symphony Orchestra and Ray Andrejasich of the IHRS for making this event possible.



The Radio Display at the Symphony

Batteries for a Farm Radio

By Edward Dupart



In an earlier Bulletin this past year, there was an article showing how to replace the "B" battery with an electronic switching supply. They work great, but there are times when I want to power some battery radios with absolutely no modern day solid state devices and this Airline radio is one of those radios. In a previous Bulletin and in seminars I have discussed making battery packs, but this is one of my recent projects and is for those who have missed my discussions.

I bought this farm radio at a rummage sale at a farm near our house because I liked the style of the radio, its' nifty dial and its' short-wave band. After I changed the capacitors and bought batteries for it, I used it regularly in our spare bedroom. If battery radios uses a modern to somewhat modern speaker, which usually is the case for radios made after 1940, they will have an excellent sound and this is one of those excellent sounding radios.

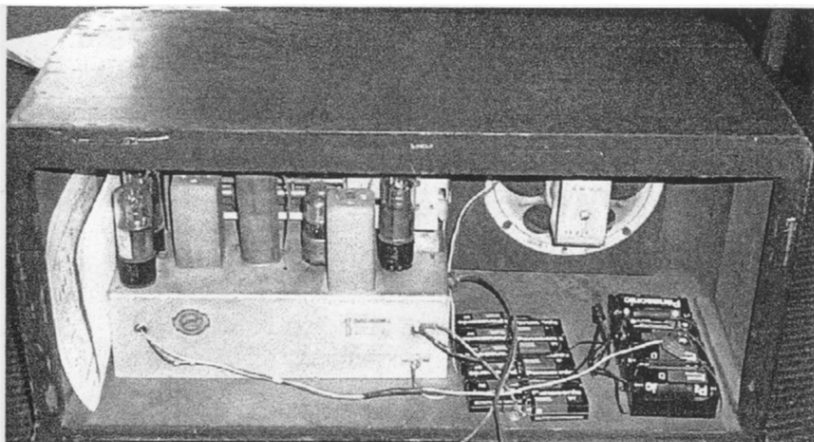
Unfortunately, the batteries are/were a problem for many years, but inexpensive 9v batteries are available today. Ten 9v batteries can be purchased in my area at the various "Dollar" stores for five dollars and the 1.5 v can be purchased for 2 for a dollar. So, I can outfit a battery radio for less than ten dollars.

In the following photos is the way I arrange most of my battery sets with the 9v batteries. Be careful when hooking the batteries to one another that you don't use too much force. If they don't go together easily, pry the prongs apart slightly. I have discovered too much force will break the internal connection on your brand new battery and will render it useless. I use the battery terminal from

a bad battery, remove it, cut it in half and solder wires to it and use that for my connections to my 90 volt battery pack.

The most popular voltage for tube radios is 90 volts, but you can reduce or add batteries to make up the voltage you need. 27 volts works fine for the one tube radios of the 1920's. 45 volts takes 5 batteries, 135 volts takes 15 batteries. 8 batteries yields 72 volts and will work for 75 volt batteries and 7 batteries yields 63 volts for 67.5 volt batteries.

For the A batteries I use D cells and I get my battery holders at Radio Shack. I generally put four cells in parallel for radios that use 1.5volts for the extra current that is needed. Radios that use 1.5 volts have all the filaments wired in parallel, which ups the current needed from the batteries. Radios that wire the filaments in series need far less current, so I simply hook up the needed D cells in series without putting any of them in parallel. If I use the radio a few times a month, I will get about a years use from the batteries.



I used four individual D cell holders for the above radio. This allowed me to place them in parallel.

My 90 volt battery pack is to the left and you can see it in position in the above radio.

In the Spring and Summer Bulletins from this year I inserted some pages from a 1929 AK catalog. Here are some more pictures from that AK catalog. Ed Dupart

Design

THE DESIGN of all Atwater Kent Radio is carried out by a staff of expert Radio Engineers who have at their command the facilities of a completely equipped and up-to-date Radio Laboratory.

Here is devised the very latest in modern radio apparatus. But each new development, every new piece of mechanism, must pass through a series of exhaustive tests—often covering many months' time—before it is turned over to the Production Department to be made up in quantities and put on public sale.

This rigorous "laboratory appraisal," before any apparatus is offered to the public, is the basis on which the success of all Atwater Kent products has been built.



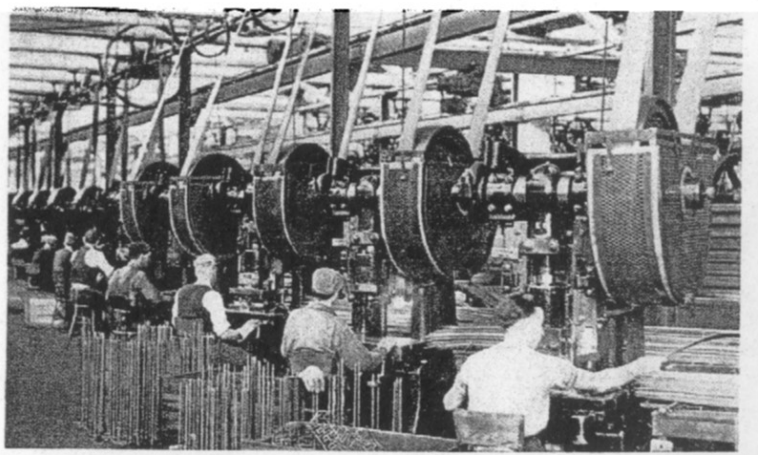
A section of the commodious Radio Laboratory which forms such an important part of the Atwater Kent manufacturing plant.

If I was living back then, this is where I would have fun.

Manufacture

THE MANUFACTURE of Atwater Kent Radio is carried on in the largest and finest factory in the world devoted exclusively to the making of radio apparatus. Built especially for this purpose, this plant is the last word in manufacturing efficiency — a veritable embodiment of speed and accuracy.

Here automatic machines, with almost human intelligence, turn long brass tubes and bars into countless small screws, nuts, binding posts and the like; tons of powdered Bakelite are moulded, under tremendous heat and pressure, into gleaming knobs, sockets and other parts; hundreds of thousands of miles of fine copper wire is wound on solid and hollow cores to form magnets and transformers; sheet metal is stamped and pressed and spun to various shapes and



Looking down this aisle gives some idea of the multitude of machines that cover the vast floor space in the Atwater Kent plant.

I wonder how long those belts lasted? Anybody in the club know?

forms; while the sturdy steel chassis bases, table model cabinets and table model speaker housings are formed in huge presses. All steel parts are either cadmium and nickel plated or they are enameled and baked in immense automatic ovens.

Steel, copper, brass, bronze, zinc, tin, lead, nickel, aluminum, cadmium and gold are the metals used in making Atwater Kent Radio apparatus, while from the vegetable kingdom are required silk, cotton, paper and rubber.

While these are but a few of the materials used, and this is but the barest glance at the multitude of delicate and complicated operations necessary in making Atwater Kent Radio, it will suffice, perhaps, to give you some idea of the hum of activity that covers the thirty-two acres of floor space in the Atwater Kent factories.



A few of the thousands of highly trained operatives that are required to make Atwater Kent Radio.

Detrola wasn't the only radio manufacturer to use women labor.

But the most noteworthy feature having to do with the manufacture of Atwater Kent Radio, is the time and attention devoted to inspections and tests—not merely to the finished apparatus, but to each of the various parts as they progress through the plant to the final assembly benches.

When you are told that one out of every ten employees in the Atwater Kent plant is an inspector or tester, and that a typical receiving set is subjected to a total of 752 inspections and electrical tests before it is allowed to leave the factory, you will appreciate the care that is taken to insure perfection in the finished product.

It is this extreme care in the factory that makes Atwater Kent Radio so dependable in action—so perfect in the home.



The final test—after which the set is packed for shipment.

I can't imagine wearing ties and suits on an assembly line today!

IHRS Fall Meet October 12, 2002

Our Fall meet turned out to be a good meet with no snow or rain with people coming from out of state. There were a lot of radios to choose from and I even found a tombstone Detrola radio, which I am grateful for. We had a good lunch and my thanks to everyone who brought food and helped with the cleanup. Following lunch, we had a business meeting and elected the officers for the upcoming year. Photos are courtesy of Ed Dupart, Steve Renner and Russel Starkey.



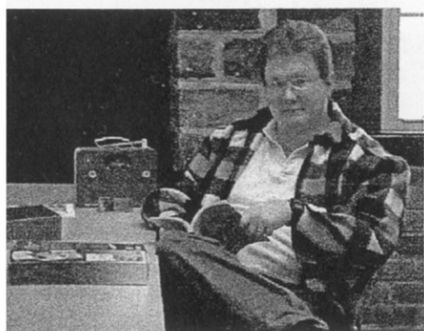
Dr. Ed Taylor to the left, Fred Prohl, Ed Dupart and Glenn Fitch, below, sharing stories and checking out radios.



Here's a nice line up of radios.



Part of a nice neon light display inside the building.



Bill Morris taking care of the ticket table with one of his neat transistor radios in the background.

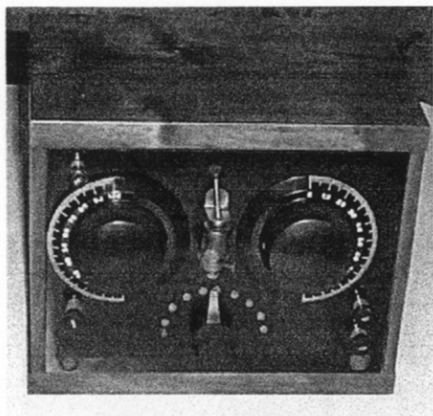


Now, this is what I call a truck load of radios!

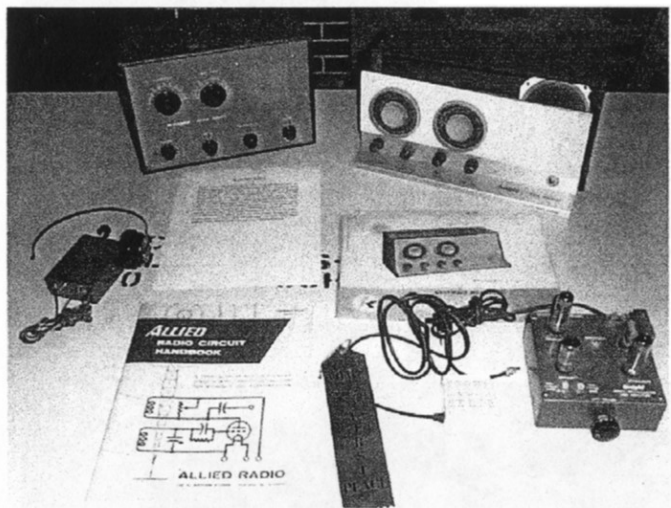
Contest Entries



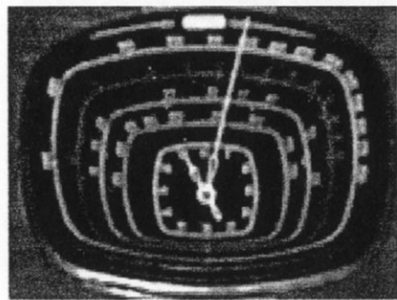
Here are two nice entries



A replica crystal radio using 1920's parts with a glass enclosed galena detector mounted on the front.



First place went to Ed Dupart's Knight Kit display. The red one transistor radio on the left is the only one I have ever seen.



The dial on Mike Feldt's second place winning radio. Too bad this isn't in color, because it is very colorful.



Second place went to Mike Feldt with this beautiful console radio

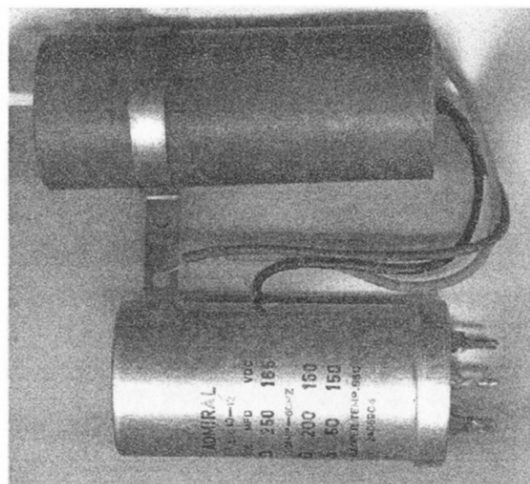
Ed's Service Tip

By Edward Dupart.

If you are working with radios and TV's made in the 40's and newer you will encounter electrolytic capacitors similar to the ones in the photo that contain multiple capacitors. When they get leaky you will hear a hum and/or see black rolling bar(s), sometimes stationary, in the picture. The temptation is to bridge them with a new capacitor and not disconnect the old capacitor. Many times, this will work OK for a while, but what can happen is that the old capacitor could develop a short to ground later and create more problems. I've seen smoke roll from TV's when this has been done.

Another problem I have seen is the capacitor develops an internal short in multiple capacitor electrolytics, shorting two or more capacitors together forcing you to disconnect the old one anyway. The result of this kind of a short

is a hum or a black rolling bar(s) that will not go away no matter how many electrolytics you bridge across the bad one. If the bad one was originally 40 mfd, you could bridge it with 4000 mfd and it still won't get rid of the hum or black bar(s). The reason for this, is that the internal short, not only shorts/ties two or more capacitors together, it also shorts out the resistive or inductive filtering device, which must be in the circuit in order to allow multiple filters to filter out the ripple voltage. So, the best thing you can do if you have a bad filter (electrolytic) capacitor is to disconnect it completely. These newer type of electrolytic capacitors are readily available, so you can physically remove the old one from the chassis. This results in a cleaner service job without having capacitors tacked underneath the chassis.



Multiple capacitor electrolytics



FREE RADIO

VACUUM TUBE SET





Receives
100 Miles or More
Send name and address.
Learn HOW you can get
a Vacuum Tube Radio Set
ABSOLUTELY FREE
Write today for Free Radio Form.
RELIABLE SALES CORP.
434 Broadway, N.Y. City, Dept. 586

Can anybody in the club tell me what the "catch" was to getting this free radio?

RADIOADS

These ads are free to IHRS members. Please limit them to 100 words. Unless we are advised otherwise, we will run ads for two issues. The exception would be where services, etc. are being listed. Please send your ads to the editor at the address shown on page 2.

FREE TO GOOD HOME (Need the space)

I wish to find a home for the following: Baudot-speaking TeleType Corp. equipment: Model 19 set, with tape punch and model 14 Transmitter-Distributor; Model 15 page printer; Model 14 typing reperforator; and Model 14 tape printer; all working, on 60-WPM speed.

Also have "parts" machines for the above, some on 60 WPM and some on 75WPM. Also have DXD 200 distortion test set (mechanical). Also have supplies of tape, and paper. **Harold E. Hunt** hehunt@adamswells.com
1209 Canterbury Dr Decatur, In 46733 260 724-9700 (leave message.)

Wanted: R.F. choke, Zenith part 20-135, for Zenith chassis 1204, as shown in Rider 8—41. Richard Ender, 806 Lee St., Milan, MI 48160. (734) 439-2545

For Sale: 7+ BY 9+ framed, signed picture of Jack Smith, "The Whispering Baritone," \$7.50; Spartan record changer circa 1927 -30? \$95.00; 39 each sound effects LP records, 5 to 60 seconds spot announcements. \$100.00. Set of five Victoreen Superhet Coils, \$30.00. 30 each player piano rolls, all play OK and are in boxes, \$50.00. Walt Sanders, 15 Todd drive, Terre Haute, IN 47803 (812) 877 2643. e-mail: greatgeneration@aol.com

For Sale: Now Available: A replacement for the UV99, our V999R replaces your UV99, our V999 operates the filament on 1.5 VDC. Both use a 5676 proximity fuse, subminiature tube. Our price: \$15.00 plus first class shipping. James Fred, 5355 S. 275W, Cutler, IN, 46920, phone (765) 268-2214.

For Sale/Trade: See our new website for beautifully restored radios. Choose from deco tabletop models to gorgeous consoles. Always open to reasonable offers. Check us out at: www.tubularradio.com Actively collecting Zenith and other high-end 30's wooden sets. Bob Snively, Richmond, Indiana
Phone; (765) 935-3746 E-mail; totallytubular@aol.com

Wanted: Wood cabinet for Atwater Kent Model 33 receiver.
Ray Andrejasich (317) 846-6977.

For Sale: Philips Radio tube books. I am currently reducing my stocks of my book "Illustrated History of Philips Radio Valves to 1935" and am offering signed copies to fellow IHRS members for \$10 cash including air mail postage. Please reply to Fin Stewart, "Cockerdale", 380 Bulga Rd, Wingham, N.S.W. 2429, Australia.. email address cockerdale@bigpond.com

For Sale: 1947 Silvertone am/fm console radio with wire recorder and 78 rpm record player. Good condition, must pick up, cannot ship. \$75.

George B. Clemans, 851 West Wooster St., Bowling Green, OH 43402.
(419) 352-7198. clemans@bgnet.bgsu.edu.

For Sale: Near mint copy of the AWA Review for 1998--\$20.00 postpaid.
James Fred, 5355 S. 275 W., Cutler, IN 46920, phone (765) 268-2214.

Wanted: Any information about Marconi No. 3574 receiver (made by "MWTC, Ltd. London") using carborundum, valve, and perikon detectors. Needed for restoration project. George B. Clemans, 851 West Wooster St., Bowling Green, OH 43402. (419) 352-7198, clemans@bgnet.bgsu.edu.

For Sale: Heathkit AR-29 FM/AM stereo receiver and amplifier. 35 watts/channel--\$45.00. Complete with original assembly manual (190 pages) and schematics. I understand the manual is worth the price. Cabinet and chrome in mint condition. FM needs alignment, otherwise works well. Ray Andrejasic (317) 846-6977.

FOR SALE: Reproduction Philco cathedral cabinet parts and reproduction cabinets for model 20, 21, 70, 90. Grandfather clock finials: Philco 570, GE H-91, Crosley 124. Philco Colonial Clock top trim and finials. Rider's Radio Index, 1 through 23 -\$20.00 ppd. Books, SASE for list. All plus shipping. Philco cabinets, front panels, see page 22 in Volume 29, #4 the Winter edition. Other parts, inquire. Call or e-mail for details. Note new phone # and address. Dick Oliver c/o Antique Radio Service, 1725 Juniper Place, #3 10, Goshen IN 46526. New phone # (574) 537-3747, e-mail dolivears@aol.com

For Sale: Book: "From Crystal to Color", the History of Radio/TV Station WFBM, Indianapolis (1924 to 1964) by George S. Madden & Burk Friedersdorf. First edition 1964 published by WFBM. Has 190 pages and is in excellent condition complete with dust jacket. Price, \$25.00

Novelty radio, solid maple wall telephone, excellent condition--
\$30.00

Harry Blesy N9CQX,
95740 Clarendon Hills Rd.
Hinsdale, IL 60521

Phone/FAX (630) 789-1793

FOR SALE: Coke Machine, Cavalier Model CSS 173. Refrigeration works and it's all there including the key. Holds a lot of 12oz. (or smaller bottles). \$250.00 The coke machine may be seen by appointment, but bring money.

Mike Clark, 6484 East 350 North, Franklin, IN 46131.
Tel. # (317) 738-4649, e-mail ripmaclark@aol.com

FOR SALE: Photocopies: Hallicrafters 8-22, Zenith 1000-1, Radiola III, 18, 60, 100A, 103, Majestic 52, and other radio, tube, and Test Equipment manuals. Also some Novelty radios. L&ASE for list. N.I.B. Western Electric 421A-\$55 postpaid. **WANTED:** Speaker/output xfmr. assembly for RCA 5T1. Herman Gross, 1705 Gordon Dr. Kokomo, IN 46902. (765) 459-3308, e-mail = w9itt@mindspring.com

FOR SALE: Novelty radios, N.I.B.: Pekinese Dog - \$20.00, Computer Mouse FM - \$15.00; Pepsi machine, old style-\$20.00. Shipping extra. Steve Whited, 3637 W. 71st Street, Indianapolis, IN, 46268. (317) 298-9967.

Wanted: Philco 512 Mandarin Red radio w/212 Red speaker or 514 Nile Green radio with 214 Green speaker or 513 Labrador Grey metal radio with 213 matching grey speaker. I prefer the Red model.
Bob O'Friel, 7631 Cape Cod Circle, Indianapolis, IN 46250-1344 Phone, (317) 849.4028

Wanted: For Zenith model 6G601M portable. The knobs, front cover and Wave Magnet. Also need Wave Magnet for 7G605 Transoceanic, I could possibly adapt one from a 8G005Y if available.
Robert C. Pote, 1181 Crestwood Dr. Greenwood, IN 46143, phone (317) 881-4521 e-mail = mrzenith41@aol.com

Interested in TV history? Want to see how it started? Try this Web site. You'll be amazed how far we've come.

<http://pyanczer.home.mindspring.com/Tour> Note: all lower case except the upper case "T" in tour.

Pete Yanczer, 635 Bricken Place, Warson Woods, MO 63122-1613

FOR SALE: Remler infradine amplifier, type 700, panel mounted on copper box, excellent condition less tubes--\$100.00 plus shipping. 3 used 201As--\$45 plus shipping. AK Model 49, includes battery cable, no tubes--\$ 100.00 plus shipping. James Fred, 5355 S. 275W, Cutler, IN, 46920, phone (765) 268-2214.

FOR SALE: Book, "The Story of Kolster Radio", 1928, HC. 46pgs 8 1/2" x 11", color and b & w with silver borders, company history and product line, beautiful blue and gold book showing some cover wear otherwise excellent--\$50.00. Harry Blesy, N9CQX, 95740 Clarendon Hills Rd., Hinsdale IL 60521, ph (630) 789-1793

For Sale: FEDERAL BOOK: LIMITED SUPPLY AGAIN AVAILABLE. 64 PAGE BOOKLET DESCRIBES FEDERAL TEL. & TEL. RADIOS~ FROM THE BEGINNING IN 1921 TO THE END IN 1929. OVER 60 ILLUSTRATIONS INCLUDING PICTURES OF EARLY FEDERAL R.F.

AND AUDIO AMPLIFIERS AS WELL AS ALL EARLY RADIOS. MANY FEDERAL PARTS ARE PICTURED AND DESCRIBED. THE ARTICLE AND SPEECH BY DICK SCRAMBERGER, THE FEDERAL EXPERT, ARE INCLUDED. ALL FEDERAL MODELS ARE LISTED WITH THE YEAR AND MONTH INTRODUCED, COST NEW, AND DESCRIPTION. THE FEDERAL BROADCAST STATION, WGR. FIRST IN BUFFALO IS INCLUDED. THERE ARE TWO PAGES OF REFERENCES FOR MORE FEDERAL INFORMATION. THIS BOOKLET CONTAINS MORE FEDERAL INFORMATION THAN EXISTS IN ANY OTHER SINGLE SPOT. GOOD QUALITY PRINTING. PLEASE SEND \$7.95 (INCLUDING S & H) TO LARRY BABCOCK, 8095 CENTRE LANE, EAST AMHERST, N.Y. 14051.

**HAPPY
HOLIDAYS!**