

The
Indiana
Historical
Radio Society

BULLETIN

Vol 36

March 2007

No 1



Something for everyone at the JHRS Winter Meet!

PRiBco Hi Hat - p6

Xylophone Remotes - p12

36th JHRS Annual Spring Meet - p14

Testing Vintage Tubes - p20

Inside



2007 Officers

Dr. Michael Clark, President

2482 Somerset Circle, Franklin, Indiana 46131
(317) 738-4649 email: ripmaclark@earthlink

Alex R. Whitaker, Vice President

2927 South East Street
Indianapolis, Indiana 46225
(317) 787-2854e-mail: ehscott@sbcglobal.net

Herman Gross, Treasurer

1705 Gordon Dr.
Kokomo, Indiana 46902
(765) 459-8308
email: hw12x12ihrs@sbcglobal.net

Michael Feldt, Secretary

12035 Somerset Way, East
Carmel, Indiana 46033
(317) 844-0635 e-mail: tfeldt@msn.com

Editor Fred Prohl

3129 Lanam Ridge Road
Nashville, IN 47448
(812)988-1761 email fprohl@att.net

Dr. Ed Taylor, Historian

245 North Oakland Avenue
Indianapolis, Indiana 46201-3360
(317) 638-1641

Fred Schultz

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

Responsibilities

Activities, Business,
Administration, & Publicity

Sites and Dates of Meets

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

NOTE



News Articles, Radio Ads, Photos
for Bulletin publication

Donations & Scrapbook Material

IHRS Museum Curator

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

IHRS Web site address: www.indianahistoricalradio.org

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

President's Column THE CLUB NEEDS YOUR HELP

A business meeting of the IHRS was held after the winter meeting in Beech Grove with a grand total of 11 members in attendance. We discussed the current status of the club and several problem areas were identified. None of the problems are insoluble and all can be corrected through the participation and cooperation of the members. These items which require the action of the members are as follow:

1. Participation of members in the business meetings of the club. None of us like the idea of sitting around after a swap meet and discussing business, but it needs to be done to keep everything running smoothly for the members. As I said, 11 people came to the business meeting, but 61 paid for attendance and registration fees. We try to have an agenda and keep things as brief as possible. We have three business meetings a year, after each meeting, with the exception of the meeting in May. Please try to attend and help us with the club.

2. With one exception, all of the current officers have served in one capacity or another for periods of 10 or more years. The next election of officers will be after the October meeting in Greenfield. Please contact one of the current officers if you are interested in being an officer in 2008. No campaigning is required and , usually, the "races" are not contested. To my knowledge, we have never had a recount or a "hanging chad". Please feel free to volunteer.

3. The Spring meet will be held at the usual location in Kokomo on May 4 and 5. In contrast to previous years, Herman and Shirley Gross cannot be there to run things. We need a group of volunteers to help with registration, the silent auction and contests. Anyone interested in presenting a seminar should also let us know by April 1. Anyone willing to help should send an email or snail mail to Fred Prohl as soon as possible. We do not expect anyone to spend the entire meeting at the registration table, but helping for a 4 hour shift would help make the meeting more enjoyable for all in attendance.

On a historical note, Christmas, 2006 was the 100th anniversary of Reggie Fessenden's first broadcast of voice and music, directed to ships at sea. Radio has certainly come a long way since then and is continuing to evolve. Please help maintain the viability of our club by being involved at business meetings, running for office and helping us run the Kokomo meeting.

Mike Clark IHRS President

The Indiana Historical Radio Society

2007 Meeting Schedule

Spring Meet - Johanning Civic Center, Kokomo – May 4&5

Summer Meet - Ligonier Community Center, Ligonier – August 11

Fall Meet - Riley Park, Greenfield – October 13

2007 IHRS DUES NOTICE

Your Indiana Historical Radio Society membership is now due if your mailing label reads 12/06 or earlier. Please send a check payable to the *Indiana Historical Radio Society* in the amount of \$15.00 per year.

Send your payment to:

Herman Gross, IHRS
1705 Gordon Drive
Kokomo, IN 46902.

Please include your current mailing address, if not on your check, and your email address, if you have one. Membership questions? Contact Herman at hw12x12ihrs@sbcglobal.net or call him at (765) 459-8308.

Regional Events of Interest to Members

Mid South Antique Radio Club For information contact George Freeman
jgfree@verizon.net

Antique Radio Club of Illinois www.antique-radios.org Next meet-
April 22, 2007. American Legion Hall, Carol Stream, IL

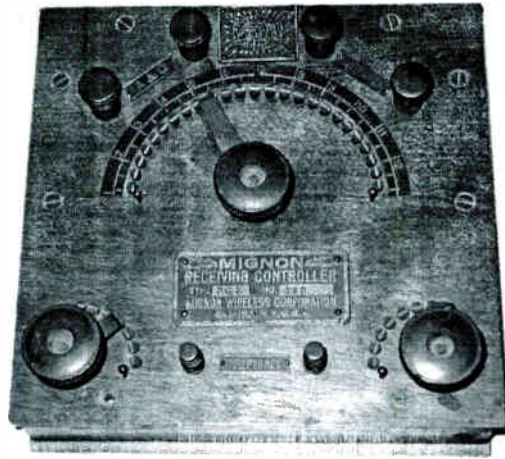
Michigan Antique Radio Club www.michiganantiqueradio.org
Next meet – April 21, 2007 Midland, MI

AWA-Antique Wireless Association www.antiquewireless.org

The original and largest historical radio group. The AWA publishes a quarterly Old Timer's Bulletin. Membership is \$20 per year. Write to:
Antique Wireless Association, Inc.Box E, Breesport, NY 14816



Museum – Report



YOUR GOOD MONEY SAVED!!
\$10 Postpaid

**Our price lists save for you—
 stamp proves it NOW**



MIGNON RECEIVING CABINET

**SPECIAL DESIGN—For amateurs, commercial
 and ships. Laced coil construction. Guaranteed.**

DEPT. B-4

**THE RADIO APPARATUS
 SERVICE**
 UNION SAVINGS BANK BLDG., WASHINGTON, D.C.
 "A SUPPLY COMPANY FOR THE RADIO AMATEUR"

Soon to be displayed at the
 Museum, a **Mignon Receiving
 Controller, type RC-1**

The Mignon ad is from the March
 1920 issue of QST. Note the top
 center Mignon System Radio tag
 is not in the ad.



THE PHILCO HI HAT CLUB

By Bill Arnold
Washington, Indiana

Philco began business in 1906 as the Philadelphia Storage Battery Company, a maker of batteries and power supplies. In 1927, the company produced its first radio. This was a battery set but in just a few years they produced the new electric radios to meet the public demand. Of course, the Cathedral was widely copied by numerous manufacturers. I know that if one wants to collect radios, the Philco brand is common as they produced a lot of different sets. This is widely accepted among collectors and there are certain models that command a good price.

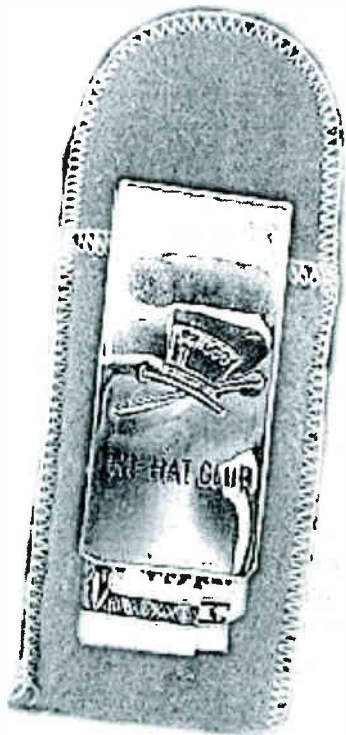
If one were to collect all of the memorabilia and advertising that was associated with any brand, the search for new items would be endless. This is another realm of collecting altogether. I do have some of these items but time, money and room is limited.

Back a few months ago, I got a money clip from a fellow collector that had a logo that I had never seen before. It was from the Philco Hi Hat club. I wondered what this could be. I also ran across a lapel pin and lighter with the same logo.

From what I can determine, these items were given to the salesperson for selling

Philco products. It is not known exactly how long this was in existence but it is generally accepted that it was active after World War II and into the 50s. I have a Christmas 1953 issue of Philco Hi-Hat news.

The Philco Hi-Hat news talks about selling their products which range from radios to appliances. There were all sorts of appliances with the Philco name including refrigerators, deep freezers and stoves. It is not known who actually manufactured them but it carried the Philco name. After all, Philco



was a trusted name and I am sure the public was more inclined to buy something with the Philco name on it rather than something that they had never heard of.

I am guessing the small they were concentrating Everyone was marketing There seemed to be a Televisions in the 50s. manufacturers did not factories and had manufacturers make Sears and Wards manufacturing bidder. You made by RCA or known name. was as well built as the was built to a not have been as good as the same thing in the radio era. Silvertone was a been made by any number of factories for Sears.

There were several mail order companies like Sears, Wards, Speigle, Pennys or Aldens to name a few. I remember my Mom had all these catalogues and maybe more. It was an easy way to shop for things without actually going to the store. They sold all sorts of things including clothing and household items. They provided low cost products for the public. Usually, their radios, televisions and appliances were cheaper than the major brands.

I am not sure that the quality of these products were as good as the major brands like Zenith and Philco but it was more convenient since you could look at thousands of items in the catalog. I am also not convinced the appliances made by Philco were any better than anything else at the time. It was just more well known.

appliances were not made by Philco since on their Television sales in the 50s.



those to the public.

number of

The lesser

have their own

major brand the sets for them.

contracted TV

out to the low

might have a Sears set some other well

That does not mean it designed and as well

other brands. After all, it specification which might

major brand. They did the Sears name that could have



Philco Hi Hat playing cards

THE PHILCO HI HAT CLUB continued

Brand names did sell products and I am sure the public was convinced their Philco "Toaster" was better than the competition. I am not convinced of that because it was probably made for them in the same plant as something that you had never hear of. I don't know that for a fact but I would guess they didn't make all they sold under their name.

Still, it is interesting to look at the different sales approaches and to see what sort of incentives they had for the sales person. In fact, there is a whole hobby devoted to advertising. These things I have were intended to be given to salespeople to show that they were proficient.

I have no way of knowing if these techniques worked or if sales increased because of the sales promotion Hi-Hat trinkets. It surely must have helped or otherwise we would not have heard of Philco.

A frequent contributor to the Bulletin, Bill Arnold has a small collection of radios but mostly fixes them to sell. Bill enjoys the electronic restoration work as well as the cosmetics



Philco Hi Hat lapel pin (actual size is about ½ inch)

We Remember

Indiana Historical Radio Society charter member Wava Rose (Williams) Smith passed away November 27, 2006.

She was born October 16, 1918 in LaGrange County. On June 8, 1941 Wava Rose married Ross Smith in Angola. Wava Rose and Ross became the core of the Indiana Historical Radio Society during the organization's first 30 years. She provided support for IHRS and AWA at registration tables, with food service, social interaction, and frequently displayed a favorite radio of her own in the Old Radio Equipment Contest.

Following the death of Ross in 2000 Wava Rose continued her support of IHRS.

She is survived by one daughter, Gloria Wilson of Huntington; one son, Victor A. Smith of Indianapolis; three grandsons; and three great-grandchildren.

Rocket Crystal Radio

By Ed Dupart

Back in the late 1950's and early 1960's the rocket crystal radio was popular among a lot of the youth, including myself. They were inexpensive and worked fairly well in metropolitan areas such as Detroit, where I grew up. I could pick up about six stations. For an antenna I would use my 50' long wire that ran from the house to the garage, but I would try anything, bedsprings, aluminum storm doors and even my dad's car frame, which didn't work too good. For those of you that know me, you know I hung onto a lot of my childhood radios, but my rocket crystal radios for some reason seemed to escape me. Maybe I passed them down to my nephews and nieces. At any rate, I found this one in northern Michigan at one of the MARC meets and is identical to one that I did have. The fancier ones like this have been very difficult for me to find at a reasonable price and I have looked over the years, so when I saw this one, I latched onto it. Happy listening.

Check page 16 for a picture of the Rocket Radio!

IHRS Contest Categories for 2007 – Prepare Now!

Spring Meet - Johanning Civic Center, Kokomo – May 4&5, 2007

- 1 Open
2. Made in Indiana
- 3 Homebrew receiver or transmitter
4. 1920's Battery Radios (table or console)
- 5 Transistor radios
- 6 Crystal sets (pre 1930)
- 7 pre 1940 AC radios (table or console)

Summer Meet - Ligonier Community Center – August 11, 2007

- 1 Portable tube radios
- 2 Cost me less than \$20.00

Fall Meet - Riley Park, Greenfield – October 13, 2007

- 1 My favorite radio
- 2 Amateur Radio Equipment – any vintage

Tables will be available at each meet for Vintage Radio Displays.



It's been noted "the Wittenberg College, Springfield, Ohio, picture of the school's wireless station in the December 2006 Bulletin was a poor reproduction and difficult to identify the equipment." True, the original is not the greatest. We recognize an RADA in the center and believe the rest of the equipment is identifiable. If you are interested let the editor know and we will attempt to get a better copy and send it to you.

HAVE YOU READ?

by Ed Taylor D.Sc.E.E.



I Hid It under the Sheets

Growing Up with Radio

Gerald Eskenazi

I Hid It under the Sheets captures a bygone era—the radio days of the late 1930s, 1940s, and early 1950s—through the reminiscences of award-winning *New York Times* reporter Gerald Eskenazi. This first-person recollection shows radio's broad impact on his generation and explains how and why it became such a major factor in shaping America and Americans.

For Eskenazi and his peers, radio had virtually no competition from other forms of media, aside from newspapers. Because of this, radio was able to create a common American culture, something that is not found in today's multifaceted world. Eskenazi shows how the popular programs of the times—from *The Lone Ranger* to *The Fat Man* to *The Answer Man*—helped create a culture of values (telling the truth, being courteous, being courageous, and being a moral person).

Eskenazi's personal anecdotes about each program are interspersed with interviews of personalities ranging from Tom Brokaw to Colin Powell about their own experiences with radio. Brokaw, who grew up in South Dakota, found radio brought him closer to the world beyond him. Would he have become the newsman he is today without the radio to pique his imagination?

Copyright © 2005

ISBN 0-8262-1620-X

Ed Taylor has been providing "Have You Read" for the 36 years of the Bulletin's publication. Ed is a charter member of IHRS and is the Society's Historian.

A Note On Remotes

By Grey Behr

Modern electronic equipment usually have remotes as "standard equipment" but early remote controls were only on 'high end' television receivers and some garage doors.

The first I encountered was a Zenith console with "Flash-o-matic," their system involved a photo-cell at the four corners of the picture tube trim bezel and the remote 'transmitter' was a fancy flashlight with a pistol grip! The owner illuminated one of the cells with the 'transmitter' and depending which one – the channels would select up, select down, select volume and sound mute.

The owner of the expensive set was very proud of it and had her daughter take a picture with mother beside the set. The daughter had a large flash camera and unfortunately the set was on! The flash triggered all the photo cells at once! The Zenith suffered the tube equivalent of a nervous breakdown! All the photo cells were damaged and some very peculiar mechanical damage occurred in the electric relays and servo motors. A very expensive photo opportunity!

Zenith engineers must have learned from this early effort and came out with the first ultra-sonic remotes. These hand held units were not electronic but consisted of tiny bars of bell metal struck with spring loaded button actuated hammers. A hand-held ultra sonic xylophone! A microphone in the television set sensed the ultra-sonic note and triggered the appropriate remote function. Small children soon discovered that they could disrupt TV watching by jingling a ring of keys which reproduced some of the same frequencies as the remote!

A wealthy customer complained that her recently installed garage door remote opener was activated at odd hours for no apparent reason! This problem tried my patience for days until by chance I was observing the unit when it triggered apparently by itself. I heard an airliner directly overhead and suddenly got an idea! I asked the customer if planes were in the area when the door was triggered. "Why, yes – now that you mention it! But what could that possibly have to do with my garage door?" she asked.



In this case her remote was a miniature radio transmitter and the plane transmitters were on the same frequency! Reducing the sensitivity of the door operator receiver solved the problem.

Meanwhile – back at the television receiver – Magnavox wanted to add remote control to their line. However Zenith controlled the patents on the ultra-sonic xylophone but not on ultra-sonic receivers and servos. Magnavox did an end run and designed a hand held remote containing small ultra-sonic whistles valved by buttons and blown by small bellows.

I had a service call on a new Magnavox that was changing channels all by itself! Naturally the set was on its best behavior when I was there! After several call backs I was fuming at the set which refused to malfunction when the owner's wife entered the room by opening the door from her bedroom. The set went bananas and started changing channels! "I don't think our new TV likes me, it does that every time I come in this room!" she laughed. A bulb went off in my head. The set had settled on a channel and was working perfectly. I walked to her bedroom door and as soon as I opened it, the set began changing channels! I got the tuner cleaner aerosol can from my caddy and a small squirt of each door hinge banished the gremlins from the set – no more call backs! The dry hinges of the door squealed at the frequency of the sets remote and triggered channel change mode! GB

Grey Behr continues to entertain Bulletin readers with his work experiences Cogley Hall, AKA Grey Behr, now resides in Texas.



On February 8 of this year, the inventor of the TV remote, Robert Adler, died at the age of 93. Adler, along with Zenith engineer, Eugene Polley, was best known for inventing the Zenith "Flash-matic (1955, photo cells) and the Zenith "Space Command" (1956, ultrasonics) TV remote controls.

36th IHRS & AWA 2007 Spring Meet
Friday, May 4 & Saturday May 5
36th Annual Vintage Radio Meet at The Johanning
Civic Center in Kokomo, Indiana

Located on the northeast leg of the US31 bypass, the Civic Center provides space for an all indoor meet (no outdoor setup). The space is on ground level with easy vehicle unload/load.

Friday May 4

3:00 pm Doors open for indoor Swap N Sell set up

4:00 pm Radio Swap n' Sell.

8:00 pm Doors locked for the evening.

Saturday May 5

7:00 am *Radio Swap n' Sell.*

Indoor set up continues.

Set up for Old Equipment

Contest, Operating Radio Display

Set up for Silent Auction

9:00 am *Old Equipment Contest*

and Operating Radio set-up

closes. Contest judging begins.

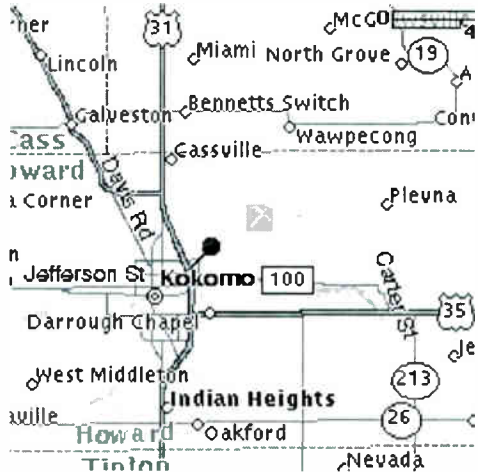
Silent auction begins

10:00 am *Vintage Radio Seminar*

11:15 am Silent Auction ends

11:30 am *Awards Luncheon*

Menu: Oven baked steak,
 gourmet macaroni and cheese,
 mashed potatoes & gravy,
 green beans, garden salad, rolls,
 fruit cobbler, coffee, ice tea and water.



Join us for lunch and be eligible for a "Vintage Radio" give away!

2:00 pm Spring Meet concludes

Fees - Registration is \$5.00 per family, good for both days. One Swap n' Sell space for the sale and trade of vintage radio equipment is \$10.00 for IHRS members, \$15.00 for non-members, good for both days (the space includes one eight foot table.) Awards Luncheon is \$10.00 per person.

Need a small amount of table space? Sign up for **"Share a Table"** Pre-register with a request to share a table. We will hold a ½ table space for you at half the Swap N Sell cost.

IHRS/AWA Spring 2007 Meet (continued)

Old Equipment Contest - Contest is open to all Indiana Historical Radio Society and Antique Wireless Association members. Non member entries will be for display only. The Founders Award is reserved for IHRS members. The entries are judged by historical significance, documentation, and condition of radio.

Contest Categories:

- 1 Made in Indiana
- 2 Homebrew receiver or transmitter
3. 1920's Battery Radios (table or console)
- 4 Transistor radios
- 5 Crystal sets (pre 1930)
- 6 pre 1940 AC radios (table or console)
- 7 Open – Radio related entries

Operating radios will be judged in the appropriate contest category:

OR1. An operating 1920's battery radio with a horn speaker.

OR2. An operating 1930's AC radio.

Radio Display – Want to show off a set, generate a discussion? Space will be available to display your radio related equipment or unique electrical device.

Pre-Register - Send a check for meet registration (\$5.00 per family), Swap N Sell table reservation (\$10.00 for IHRS members, \$15.00 for non-members), and Awards Luncheon (\$10.00 per person) payable to IHRS, to: Fred Prohl, 3129 Lanam Ridge Rd, Nashville, IN 47448.

Meet contacts: Fred Prohl, 812-988-1761 - - Mike Clark, 317-738-4649

Motels: (Listed from closest to Civic Center to farthest.)

1. Comfort Inn 522 Essex Dr (US-31) - - (765) 452-5050 or 1-800-228-5150
 2. Clarion Inn 1700 E. Lincoln Rd - - (765) 459-8001 or 1-800-228-2828 (This was the old Ramada Inn for previous Kokomo meets.)
 3. Motel 6 2808 S. US-31 - - (765) 457-8211 or 1-800-466-8356 (This was the old Howard Johnsons, adjacent to the Clarion)
 4. Fairfield Inn 1717 E. Lincoln Rd - - (765) 453-8822 or 1-800-228-2800 (motels 2, 3 and 4 are located across the street from Delco/Delphi)
- Additional Kokomo information at www.johanningciviccenter.org

Winter Meet Popular Vote Contest Entries



Pee Wee Diode Receiver - Mike Clark
Entry included box and literature display



Germa Diode Radio - Ed Taylor
Note the duo ear pieces and optimistic antenna.



Zenith Advertising Sign
Fred Prohl



Rocket Diode Radio
Ed Dupart
see page 9



Lighted
Westinghouse
Advertising
Pete Yanczer



Germanium Radio
Complete in box.

Winter Meet at Hornet Park



Herman and Shirley Gross
at the registration table



Fred Schultz, Bob Sands and Ed Dupart



Ember Criswell and
her future radio collector
grand-son Luke.

Pictures by
Ed Dupart,
Pete Yanczer,
Fred Prohl

Hornet Park, Winter Meet 2007 Treasurer's Report

We had 61 family registrations (same as 2006) with 25 table rentals (11 fewer than 2006) There were seven new memberships. Expenses totaled \$498.25. Registrations, table rentals, donation silent auction, and the donation jar totaled \$509.37.00 (excludes membership renewals). The meet credited \$11.12 to the IHRS account.

Submitted by Herman Gross, IHRS Treasurer

IHRS Business Meeting, 2007 Winter Meet Secretaries Report

The first Indiana Historical Radio Society meeting for 2007 was held at a Ponderosa restaurant, after the winter meet, and was brought to order by President Michael Clark.

Michael brought up the matter that the club is still in need of volunteers for the spring meet in Kokomo. The most important jobs that need to be filled are that of the registration table. Herman and Shirley Gross will be out of town for the Kokomo meet. Michael Clark suggested putting ads in the next bulletin asking for volunteers for spring meet.

Michael Clark announced the Spring Meet Popular Vote contest results.
Category 1 – Radio Advertising

1st place to Peter Yanczer – Lighted Westinghouse sign

2nd place to Fred Prohl – Zenith sign

Category 2 – Diode Radios

1st place to Mike Clark – Pee Wee Radio

2nd place to Ed Dupart – Rocket Radio

Fred Prohl and members discussed the possibility of publishing IHRS constitution in a future bulletin.

Herman Gross announced that the reserved space at the Johanning building has been paid for and so has the caterer. There will be enough food for 70 people and tickets will be \$10 per person. It was noted lunch costs \$13.00 per person, IHRS covers the additional \$3.00.

Michael Clark mentioned that there would not be any consignment auction this year at the spring meet. He also wanted to confirm that table fees at the spring meet would be \$10 for members and \$15 for non-members.

Herman Gross brought up the subject of the clubs financial status. Currently the club has over \$5000 in the bank and there was a question on how that affects on the club's tax-exempt status. It was felt that the club might have more money then what the tax-exempt regulations call for.

A general discussion followed with the conclusion that it's ok for the club to have this amount of money so long as it's not invested to make a profit. It was also felt that this amount of money was beneficial as it can be a monetary cushion for expected and unexpected expenses. The money also helps to partially subsidize various club costs thus keeping fees down.

A general discussion was brought up on the status of our relationship with the AWA. The conclusion was the club would continue to associate the AWA name with the clubs name for the spring meets and maintain the clubs current relationship with the AWA.

The issue of the of the club's membership status was brought up. Membership is stable but has declined a bit over the years. It was felt that there were not enough new people joining and ideas were discussed on how to recruit new members.

The last issue discussed was the need for other members to actively take part in being club officers. It was felt that the same small number of members were filling the officers posts time and time again and some of those members may not be able to do so in the future.

The meeting was then adjourned.

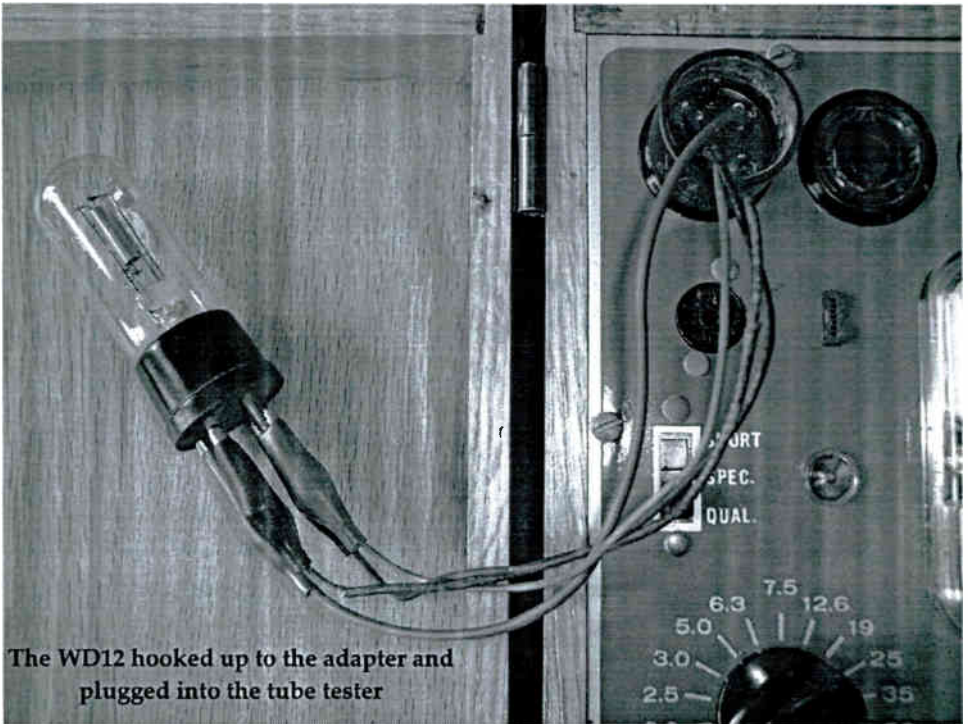
Respectfully submitted: Michael Feldt, Secretary
February 11, 2007

Exploring the possibilities of building a home brew "B" battery eliminator? The January 2007 issue of *Nuts and Volts* (page 24) has a circuit that may interest you. The circuit has a "B" supply selection of 22.5, 45, 67.5, 90 and 135VDC. A 1.5VDC "A" supply is included. If you give the circuit a try, let us know how it works out.

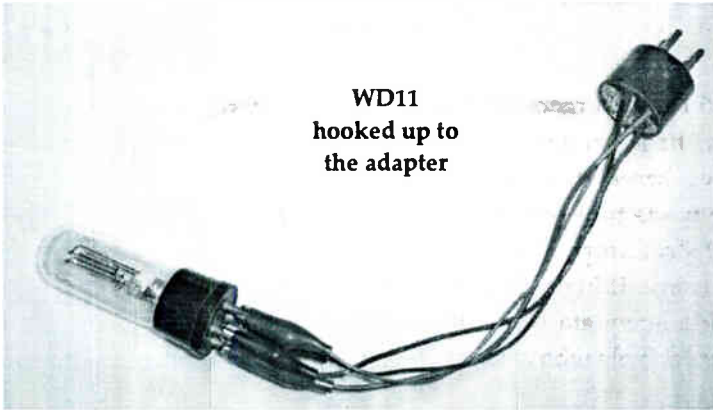
Tube Tester Adapter for Uncommonly Based Tubes

By Ed Dupart

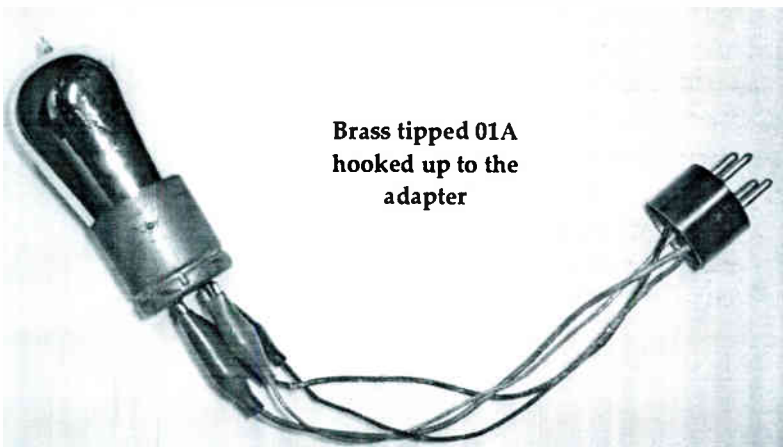
In 2006 I gave a seminar at the IHRS Spring Meet on how to make an adapter to fit in an existing tube tester for testing early tubes. Vintage tubes have bases that require a socket that is not on 99.9% of the American made tube testers. Examples are WD11's, short pin 01's, 01A's, short pin 99's, European tubes, and the list goes on. You can even test low powered transmitting tubes, but one must be careful that the tube tester can provide adequate filament/heater current. This article is a result of several individuals who requested I put it in writing. So here it is.



The WD12 hooked up to the adapter and plugged into the tube tester

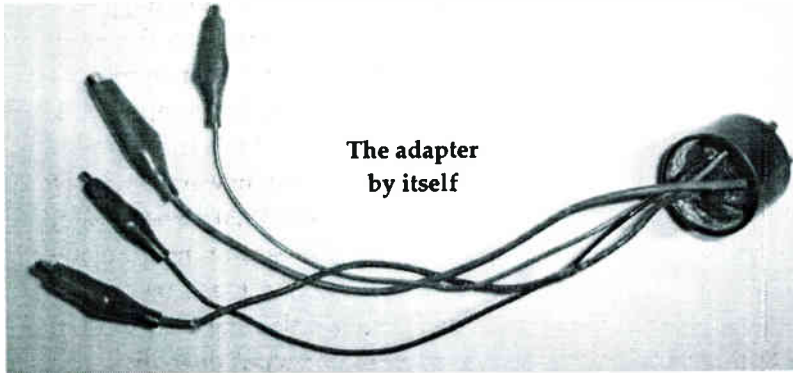


Somewhere in your junk pile/box find a bad 4-pin tube such as an 80, 26, 30, etc. and carefully break the glass and remove all the glass and excess glue. I usually wrap a rag around the tube and break it with a hammer. It won't take much effort and remember you are not breaking concrete! After all the glass and excess glue are removed, use a soldering iron and remove the wires from the socket. You will now need four wires of about 6 inch's in length or a length that is convenient for you and your tester. I chose a blue wire for the plate lead; a green wire for the grid lead and black for the filament leads, following the standard color code of the day. Solder the blue wire into pin two of the tube socket, the green wire into pin three of the tube socket and the black wires into pins one and four respectfully.

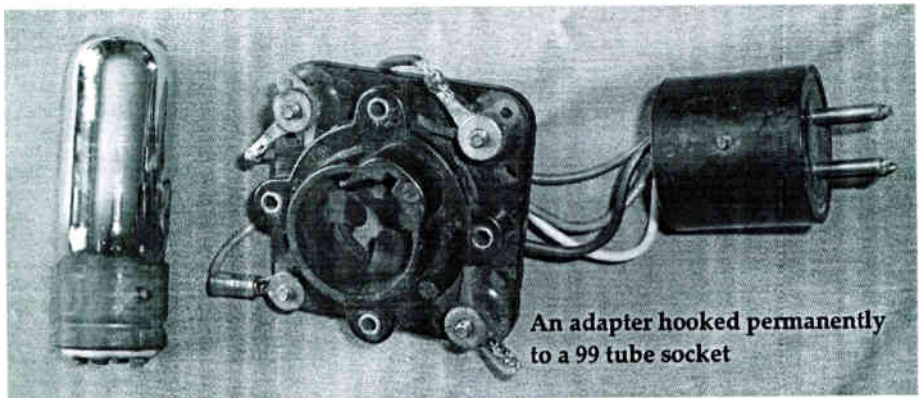


Tube Tester Adapter continued

I went to Radio Shack and bought a couple of packages of their small alligator clips that come with red, black, yellow and green boots for the alligator clips. I soldered an alligator clip with a red boot onto the blue plate wire, an alligator clip with a green boot onto the green grid wire and alligator clips with black boots onto the black filament wires. Using color-coding makes it easier to hook up the leads of the adapter to your tube under test. That completes building the adapter.



Another way you can adapt your adapter if you have a large quantity of one type of tube, say 100 WD11's, yes I'm dreaming, is attach your adapter to a WD11 socket. This can be done with the alligator clips or attach the wires permanently to the socket. I have made adapters of this type for short pin 01A's and 99's. This really speeds up the testing of a large number of tubes of the same type.



The next question is what settings do I use on my tester? First and most importantly, you will have to determine the filament voltage of your tube. Use the wrong voltage and you will destroy your valuable tube. To determine the voltage of your tube, you will need to look it up in a tube manual or old radio book. Two possible sources are: Radio Theory Simplified by Merle Dustin, 1924 and Principles of Radio by Keith Henny, 1929. Once you have determined the filament voltage, you are ready to set the bias and plate settings. If your tester has a 01A, use that, if not, use a 26, which is an AC version of the 01A or a type 30. Both the 26 and 30 have a higher mutual conductance than the early tubes, but the bias settings are still close enough for useful readings on the early tubes. If you have a NOS tube, use that for comparisons.

Now, the next question is, OK, you have told me all this information, but it will work only on old testers. What if I have a newer tester that doesn't have the old style large pin sockets of the 1920's and 1930's, such as a Sencore Might Mite? Repeat the process for making the adapter, but use the octal socket on your tester and the octal "plug" from a bad octal tube. Make sure the bad tube has all eight pins. For the settings, use a 1H4, which is listed on my Sencore tester. Again, you will need to determine the filament voltage of your tube and set your tester accordingly. If you have a tester that doesn't tell you what the filament/heater voltage is, then use a meter to measure it by simply plugging in your adapter and hooking the meter up to the filament wires. With that, you should be able to test about any antique tube with an uncommon base, provided you know the filament voltage. E.D. IHRS member, Ed Dupart is a frequent contributor to the Bulletin as well as a presenter of radio repair and restoration seminars at IHRS radio meets.

The cover of this Bulletin displays a small selection of vintage radio equipment available for Swap or Sell at the 2007 Winter Meet. Buyers had to be quick, in short time many radios went from the top of the table to "Now it's mine" under the table.



For Sale - Zenith 9S262 \$350 , Philco 39-116 with mystery control (The Worlds Fair model) \$250 , Silvertone 4587, \$250 , . Arvin " Hopalong Cassidy" radio , black \$350 , Zenith 5S218 \$125 , Westinghouse H-125 " little Jewel" \$95 , Zenith D7000 T/O \$150, Airline 93BR-508A \$110, Airline 93BR-508A \$85 , CBS Columbia 2160 , \$55 and Pair of NOS Zenith 6L6 GB tubes \$30 for the pr. Contact Bob Pote , (317) 881-5721 in Greenwood , IN. or e-mail mrzenith41@aol.com 03/07

Wanted: Cabinet and S-meter for Hallicrafters SX-42 receiver. Herman Gross, 1705 Gordon Drive, Kokomo, IN 46902, 765-459-8308 email: hw12x12ihrs@sbcglobal.net. 03/07

Found: Someone left a nice pair of sunglasses (ladies I think) in the restroom next to my Zenith Room when they visited my radio collection on Saturday afternoon, August 12th. If they contact me and give me their address, I will be glad to send them their sunglasses. Ted Rogers, 6938 East Waco Drive, Syracuse, Indiana 46567 phone 574-457-8886 11/06

Wanted: I am putting together a radio collection of the RCA radios in which industrial designer John Vassos is attributed for cabinet design. The majority of these are the chrome framed consoles and tombstones from the 1936 era. Also, I am looking for the Vassos-designed RCA bakelite models from the 1939 era as well. Thank you for your help. Bob Snively, Richmond, IN Phone; (765) 935-3746 E-mail; totallytubular@aol.com 11/06

Interested in TV history? Want to see how it started? Try this Web site. www.televisionexperimenters.com You'll be amazed how far we've come. Pete Yanczer, 635 Bricken Place, Warson Woods, MO 63122-1613 11/06

For Sale: Capacitors and radio repair supplies. Bob's Antique Radios RadioBob1@sbcglobal.net - radioantiques.com 03/07

For Sale: Vacuum tubes - Hamtubes.com Bob Bieker, 219-924-0945 9-8 CST M-Sat 03/07

Wanted: Original Output transformer or Output transformer with speaker for Zenith Radio Model 4-K-331 and volume control. Also original speaker and turntable for RCA Model 612-VS and the loop antenna. Please call Steve Kohut at (260)375-4334 , leave a message if no answer or write at 2610 E. 1000 S., Warren, Indiana 46792 06/06

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 03/07

For Sale: 1932 Admiral 40L, Walnut, \$85.00; 1947 Admiral 7T10-C, \$35.00; 1932 Aetna, \$65.00; 1947 Airline 74BR1501B, \$75.00; 1946 Arvin 544A, \$55.00; 1935 American Bosch model 4, \$75.00; Balanced Amp, New, \$115.00; 1950 Crosley 10-135, White, \$115.00; 1950 Crosley 10-137, Chartreuse, \$115.00; 1950 Crosley 10-138, Maroon, \$100.00; 1950 Crosley 10-140, Green, \$110.00; 1934 Crosley 5M3, \$110.00; 1934 Crosley 515, 1935, \$95.00; 1946 Farnsworth ET-064, Black, \$75.00; 1948 Farnsworth GT-051, White, \$125.00; 1948 Firestone, 4-A-79, \$45.00; Jackson tester, wooden case, \$12.00; 1932 Kadette Jewel (400, \$185.00; 1932 Majestic, Walnut, \$65.00; 1927 Peerless Speaker, Mahogany, \$45.00; 1942 Philco 42-PT95 Walnut, \$50.00; 1930 Philco 20, Walnut, \$250.00; 1934 Philco 60, Walnut, \$150; 1931 Philco 70, Mahogany, \$350; 1931 Philco 90, Walnut, \$500.00; 1939 RCA 9TX31, Bakelite, \$65.00; 1924 RCA 103 tapestry speaker, \$175.00; 1927 Rolla Speaker, Mahogany, \$40.00; 1947 Sentinel 309-W, brown, \$45.00; 1932 Silvertone 1407, Walnut, \$195.00; 1932 Silvertone 1801, Walnut, \$85.00; 1949 Silvertone 9001, Brown, 65.00; 1925 Sonochorde Speaker, \$150.00; 1946 SkyRover 9022H, White, \$45.00; 1949 Zenith 7H920, Brown, \$45.00. All radios have been restored unless otherwise specified and are in nice condition. All items subject to prior sale and my inventory changes depending upon what I sell and what I find. If interested, contact Bill Arnold, Washington, In , 812-254-1702 or email bbarnold1@gmail.com (*note new email address) 06/06



Write!

Radio ads - 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. Send your ads to the editor at the address shown on page 2. Please, type all ads before submitting them. If you cannot submit an electronic copy, we can scan in a typed copy.

Articles for publication. Radio history or restoration and repair of radio, your own radio collection; someone else's radio collection; your recent or memorable radio find; your experience at a radio event. Pictures are encouraged. We can scan good quality color or B&W prints. Sending jpeg pictures on CD-R works well. Please do not email high resolution pictures, your editor is on dial-up and the download time is extensive.

You've seen from the Spring Meet schedule on pages 14 and 15 that we will not have a general auction this year.

No general auction - A plus for Swap N Sell! Buyers will spend their money at the Swap tables – no need to hold on to their \$\$ for an auction! So bring your extra radio equipment to sell!

There will be a Silent Auction for individuals wanting to place radios up for bid and for donation to the IHRS. If you intend to place items in the Silent Auction keep the following in mind. For both auctions, consignment and donation, the minimum starting bid is \$1.00 with \$1.00 increments. So group (box) your items for the appropriate value if you hope to make a sale. Consignment sales will collect 10% of the sale for IHRS. If you donate an item and it does not sell – take it home with you!

The last pages of this "Bulletin" has a copy of the Indiana Historical Radio Society Constitution.

A frequent discussion among the Society's Officers involves how times are different now compared to when IHRS was founded and the constitution written 36 years ago.

- ✓ *Old Radios are truly closer to being "antique" today;*
- ✓ *ebay was not a concept in 1971;*
- ✓ *IHRS was one of just a couple vintage radio organizations, now there are over seventy in the U.S.;*
- ✓ *most of our members seem (and frequently act) older nowadays;*
- ✓ *for many collectors, the dollar value of a radio carries the highest priority;*
- ✓ *the distinction between vintage radio collectors and radio vendors is blurred;*
- ✓ *auction houses selling vintage radios is big business;*
- ✓ *vintage radio includes an increased variety of technologies.*

So, how do we, as an organization, adjust to change and continue on into the future as a viable organization dedicated to the preservation of historical radio. The presentation of the IHRS Constitution is a prompt to remind us of who we are as an organization – and cause us to consider what we should be as we go into the future. In this issue of the Bulletin, IHRS President, Dr. Mike Clark, asks for support with our Spring meet in Kokomo. With the changing times, the volunteer resources of the organization has reduced to a few – not good for adapting to a changing environment. I admit, as an organizer of some of our meets, I probably don't earn my pay – I am not one to get on the phone and appeal to individuals to help with a particular function. I'm not alone, your president, vice president, treasurer, secretary, historian, and museum curator are of similar mind – we all feel volunteer means you call us to say you intend to be at the next IHRS meet and ask how can you help. You talk with one of us about what is required to be an officer, or put on a meet, or contribute to the Bulletin. Thanks, we really do need your help to move the Indiana Historical Radio Society into the future.

Fred Prohl, IHRS Bulletin Editor

CONSTITUTION OF THE INDIANA HISTORICAL RADIO SOCIETY

PREAMBLE

We, the members of this historical radio society, in order to establish a permanent organization to promote the preservation of historical radio equipment, do ordain and establish this Constitution.

ARTICLE I - Name

The name of this organization shall be "INDIANA HISTORICAL RADIO SOCIETY, Inc.", and it shall be a non-profit organization in accordance with the laws of the State of Indiana.

ARTICLE II - Founding

The Society was founded at Peru, Indiana, on October 4, 1971.

The thirteen founders are:

Del Barrett	Don K. Johnston	Julian J. Stark
Joe Duray	Serge Krauss	E. E. Taylor
James Fred	John Noble	James W. Thomas
Marshall Howenstein	Ross Smith	Gary A. Vierk
Warren Reed Johnson		

ARTICLE III - Qualifications of Members

Membership in the Society shall be open to those who are truly interested in the preservation of historical radio equipment. An acceptable character and reputation is a condition of membership.

ARTICLE IV - Classification of Membership

1. Active
2. Honorary

ARTICLE V - Officers and Their Elections

The Officers shall be:

- | | | |
|-------------------|--------------|--------------|
| 1. President | 3. Secretary | 5. Historian |
| 2. Vice-President | 4. Treasurer | 6. Editor |

The Officers are elected annually by a majority written vote of the Active Members present at the meeting. These Officers will manage the affairs of the incorporated Society.

ARTICLE VI - Meetings

There shall be no less than four (4) regular meetings per calendar year. Members shall be informed of the time and place of the meetings thirty (30) days prior to the meeting, and informed of the location. The last regular meeting of the calendar year shall be designated as the annual meeting.

ARTICLE VII - Amending the Constitution

The Constitution may be amended at the annual meeting for election of officers by three-fourths favorable vote of the Active Members present at the meeting, and after thirty days advance written notice to the Active Membership of the proposed amendment. Amendments are effective thirty days after the adoption.

BY-LAWS

ARTICLE I - Membership

SECTION 1. Admission:

Acceptance of Prospective Members: A person shall be accepted for membership upon receipt by the treasurer of an application blank endorsed by a member and one years dues.

SECTION 2. Classes of Membership:

A. Active members shall be those members who pay dues and are placed on the mailing list. They have the privilege of voice and vote.

B. Honorary members shall be elected to the Society in honor of outstanding contributions they have made to the field of radio. Honorary members shall be placed on the mailing list, but will not pay dues, but have voting rights.

1. The credentials of a prospective honorary member shall be reviewed by a committee of five (5) active members including the President.

2. If the committee shall decide the prospect is worth of honorary membership then a vote shall be taken at the next regular meeting.

3. A three-fourths favorable vote of those present and entitled to vote shall be necessary to elect the person to honorary membership.

SECTION 3. Reinstatement of members:

A. An active member who has become delinquent in dues, will be removed from the membership roster.

B. Resigned members, who resigned while in good standing and against whom no charge exists, may be reinstated upon written request and upon payment of current dues to the treasurer.

SECTION 4. Rules for members:

A. Any officer who fails to attend two consecutive business meetings without approved excuse shall no longer hold office.

B. Any member delinquent in dues shall no longer be a member.

C. A member must work to prevent dissention within the Society.

D. A member must conduct himself in a manner to prevent disgrace or undue criticism being directed at the Society.

ARTICLE II – Membership Fees

SECTION 1. Membership fees shall be determined annually by the board.

SECTION 2. All fees shall be due on or before the first meeting of the calendar year, payable to the Society Treasurer.

SECTION 3. The treasurer shall issue Membership Cards, upon payment of required dues.

ARTICLE III – Meetings

SECTION 1. Society Meetings:

A. The Society shall hold no less then four (4) regular meetings per calendar year.

B. Members shall be informed of the time and place of the meetings thirty (30) days prior to the meetings and informed of the location. In the event such plans are changed all members will be promptly notified of such change.

ARTICLE IV – Officers and Duties

SECTION 1. Society Officers shall be in accordance with the Constitution.

A. Additional committees and chairmen may be appointed by the President.

B. To be eligible for an elective office the member shall:

1. Be an Active Member in good standing.
2. Be present at the meeting when elections are held.
3. Attend business meetings regularly.

C. Method of elections:

Nominees for offices will be selected by a committee of two or more members appointed by the president. Additional nominations will be accepted from the floor, with approval of the nominee. Election requires a majority favorable vote of those present and entitled to vote.

D. Date of Elections:

1. Society elections shall be held annually at the last regular meeting of the calendar year.
2. New officers shall assume their duties and receive materials of office following elections.

E. Vacancies of Office:

1. If the office has been held three months or more, the President shall appoint a successor.
2. If the office has been held less than three months, a regular method of election shall be required.

F. Duties of Elected Officers:

1. The Society President shall:

- a. Preside at all business meetings.
- b. Be impartial at all times and keep the Society harmonious and progressive.
- c. Cast a deciding vote in the event of a tie except on election of officers.
- d. Retain all records necessary to properly fulfill his duties.
- e. Check to see that all officers are fulfilling their duties.
- f. Appoint committees as necessary.

2. The Society Vice-President shall:

- a. Preside over Society meetings in the absence of the President.
- b. Assume the Presidency should the office become vacant.
- c. Convey all information relating to proposed Constitution and By-Laws changes to members and distribute revised editions.

3. The Society Treasurer shall:

- a. Keep a legible and accurate record of all Society monetary transactions.
- b. Collect and give receipts for funds.
- c. Deposit all monies received in the Society bank account.
- d. File all cancelled checks and remittance sheets so the records may be audited at any time.
- e. Keep an accurate record of each members account.
- f. Issue official notices when dues are delinquent.
- g. Advise Bulletin publisher of any change of address of members.
- h. Notify the Secretary of any change in membership status.
- i. File all necessary tax forms.

4. The Society Secretary shall:

- a. Keep an accurate official record of the minutes of all business meetings.
- b. Handle all correspondence for the Society except that required by other officers in their line of duty.

- c. Read all communications in meetings and file materials for future reference.
5. The Historian shall maintain the Society scrapbook and keep all important materials pertaining to the history of the Society.
6. The Society Publisher shall publish the Society Bulletin and mail to membership.

ARTICLE V – Miscellaneous

SECTION 1. Parliamentary Authority: Robert's Rules of Order where applicable.

SECTION 2. Amending the By-Laws: The By-Laws may be amended at any scheduled meeting by three-fourths favorable vote of the present and entitled to vote, and after thirty days advance written notice to the Active Membership of the proposed amendment. Amendments are effective thirty days after adoption.

SECTION 3. Board of Directors:

A. The board of Directors shall consist of the President, Vice-President, Secretary, Treasurer, and Historian.

B. The Board shall meet as often as required to attend the business of the Society.

C. The Board is directly responsible to the membership for its actions, and such actions may be overruled by a two-thirds majority vote by the Active Membership in attendance during a regular business meeting.

SECTION 4. In the event this Corporation shall be dissolved the assets shall become the property of the ACD Museum in Auburn, Indiana.

Article V Section 4 amended by IHRS membership majority vote at the Society's annual meeting, October 1995. The amendment is as follows: In the event it becomes necessary to dissolve the Indiana Historical Radio Society, Inc., all assets shall be distributed in the following manner, to wit:

- 1) All items in the IHRS Museum at the Ligonier Visitor's Center, Ligonier, Indiana, and all other property of the IHRS, shall become the property of the LIGONIER VISITOR'S AND CONVENTION BUREAU, INC.
- 2) Owners of items LOANED to the IHRS Museum shall be contacted via mail (Certified, Return Receipt requested), and allowed 30 days from the date the return receipt is received by the sender to either:
 - a) Sign an IHRS Museum Receipt changing the status from LOAN to GIFT, or
 - b) Pick up the loaned item from the museum curator at the museum in Ligonier or other location agreeable with the curator, or
 - c) If no response is received after 60 days from the date the return receipt is received by the sender the loaned item will become the unencumbered property of the IHRS Museum.
 - d) The curator or his assignee shall handle situations on an individual basis where the notification is returned to sender as undeliverable, invoking provisions of item (c) above, as a last resort.
- 3) All moneys held in trust in the NOBLE COUNTY COMMUNITY FOUNDATIONS in the name of the IHRS Museum and in the Treasury of the IHRS, becomes the property of the LIGONIER VISITOR'S AND CONVENTION BUREAU, INC., after all outstanding debts, including aforesaid equipment loan notification expenses, have been satisfied.

Radio	<i>F.G.B.</i>	ARRL	1025 W. 32 St. Indpls. Ind.
Ur	<i>CW</i>	Sigs	<i>wkd</i> hr <i>P.M.</i> of <i>Feb. 27, 1925</i>
Aud	<i>QSA</i>	Tone	<i>RAC</i>
Transmitter	9 CUR		Receiver
"50" Watts in 4 coil			Lo Loss Tuner and one step.
Meissner Ckt. <i>RAC plate supply</i>			
Antenna	<i>Type of 1 wire 75' long, 30' hi. Fan c. p.</i>		
Remarks	<i>Sure got QSO over W 1st 7 wkd on short waves. Had been on short waves all 1 week. Hope QSO ago soon time.</i>		
Pse QSL crd.	Nuff sed.	<i>Vy 73.</i>	OP. <i>Buford Lee</i>
NAGLEY PRINTING CO.			

Test Your Knowledge of Wireless Terminology

The above response card from 9CUR, Buford Lee, was sent to C. F. Butler, Tacoma, Washington - postmarked March 3, 1925.

Can you define each of the codes, terms, and hand written entries on the card? Such as:

Radio - *IGB (TGB, 7GB?)*

Ur - *CW*

Sigs - *wkd*

Aud - *QSA*

Tone - *RAC*

QRM - *Bd*

QSS - *Nil*

QRN - *Sum.*

Pse QSL crd. Nuff sed. *Vy 73*

Can you describe the transmitter - receiver - antenna?

How about the remarks?

Know any history on the operator Buford Lee?

Have the answers? Send your response to the IHRS Bulletin editor for publication in the June 2007 issue