

The  
Indiana  
Historical  
Radio Society

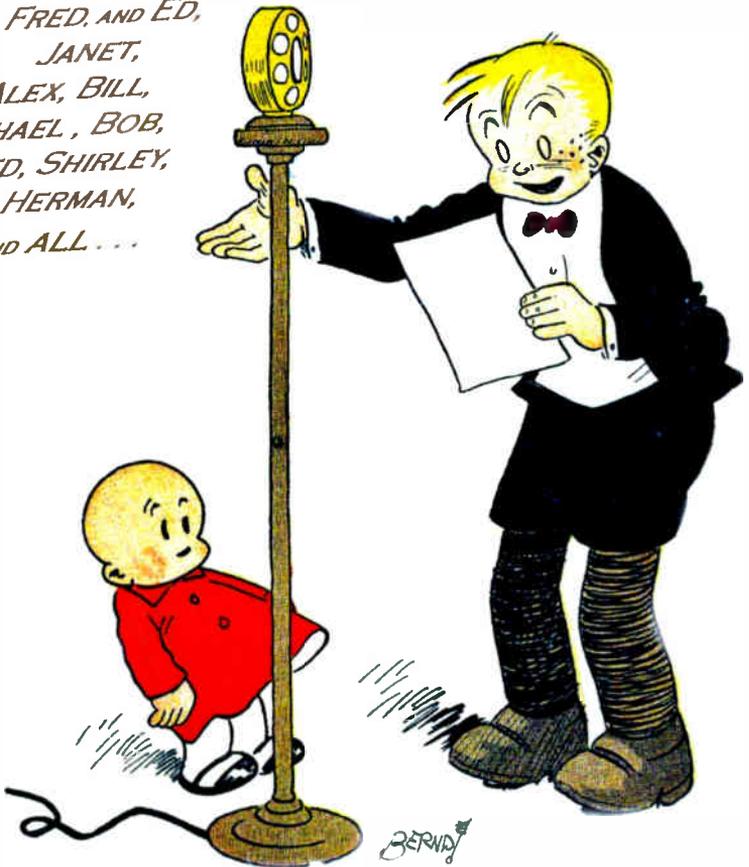
**BULLETIN**

Vol 36

June 2007

No 2

*THANK YOU!*  
*BILL, DON, ANDY, ED,*  
*FRED, AND ED,*  
*JANET,*  
*ALEX, BILL,*  
*MICHAEL, BOB,*  
*FRED, SHIRLEY,*  
*HERMAN,*  
*AND ALL...*



*See you in Ligonier – August 11*

# Spring Meet 2007 "Old Equipment Contest"

Pictures submitted by Ed Dupart and Fred Prohl



## RADIOADS (continued)

**FOR SALE:** Reproduction cabinet parts (wood). In stock parts; front panels, rear arch supports, base molding, for Philco models 20,21,70,90 (others per sample). Philco Colonial Clock top trim including finials, Grandfather Clock finials for Philco 570, GE H-91, Crosley 124 (others per sample). Almost any wood part available per sample, any make or model (per quote) (tooling charge may apply). Dick Oliver c/o Antique Radio Service, 1725 Juniper Place #310, Goshen, In. 46526. Ph. (574) 537- 3747, e-mail- [dolivears@aol.com](mailto:dolivears@aol.com) 06/07

**For Sale:** Photocopies: Manuals for B&K E-200D Sig. Gen, Radiola III, IIIA, 17, 18,25, 60, 100, 100A & 103 and other paper, some original. LSASE or email for list. Herman Gross, 1705 Gordon Drive, Kokomo, IN 46902 765-459-8308 Email: [w9itt@sbcglobal.net](mailto:w9itt@sbcglobal.net) 11/06

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



### 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. Please 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. Fred Prohl



**For Sale:** Three working AC Floor Model Radios: Majestic Gribby-Grunow 1928 Highbow Model 71, excellent walnut cabinet; Atwater Kent 1929 Loboy Model 60, 3 dials, 8 tubes, very nice walnut cabinet; Sparton 1929 Stretcher Base Model 931, very good cabinet except scratched top. Richard Folks (260) 833-3585 06/07

**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](mailto:totallytubular@aol.com) 11/06

**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](mailto:mrzenith41@aol.com) 03/07



**For Sale:** 1924 RCA Tapestry speaker, \$175.00; 1947 Admiral 7T10-C, \$35.00; 1932 Aetna. Walnut, \$65.00; 1948 Aircastle 5050, \$35.00; 1947 Airline 05BR1525B \$45.00; 1932 American, \$65.00; 1932 Avalon, \$65.00; 1950 Crosley 10-135 (White), \$115.00; 1934 Crosley 5M3, \$110.00; 1953 Crosley D25MN, Maroon, \$125.00; 1953 ys Crosley E20-GY, \$55.00; 1925 Crosley Triridyn, \$150.00; 1931 Crosley 124, \$250.00; 1948 Farnsworth GT-051, \$125.00; 1935 Grunow 470, \$100.00;

Jackson tester, \$20.00; 1930 Pfansteihl, \$225.00; 1942 Philco 42-PT95, \$50.00; 1930 Philco Philco 20, \$250.00; 1931 Philco 70, \$345.00; 1931 Philco 90, \$500.00; 1949 Silvertone 9001, \$65.00; 1946 SkyRover 9022H (White), \$45.00; 1949 Zenith 7H920, \$45.00; Zenith Tin & Stick, \$12.00. All items are subject to prior sale. If interested, contact: Bill Arnold, Washington, Indiana Phone 812- 254-1702 prior to 10:00 PM central time or email at [bbarnold1@gmail.com](mailto:bbarnold1@gmail.com) 06/07

While writing this, others came to mind, like Lafayette Radio in downtown Detroit where I worked for one summer during high school and many others that I can't even remember their names, but I could take you there, but I'm sure they're gone. I went through my old 1974 Detroit telephone book and there were several pages of TV shops scattered throughout the city. For some of us we have watched an industry be born, grow and prosper and whither away. Very few shops remain only the memories.

As I look back on it all, one of the things I appreciated the most was the time they would spend helping a kid like me. Besides just giving me junk radios and TV's, they would help with information and encouragement which led to my career in electronics.

Ed Dupart

## The VEST-O-PHONE

Ed Taylor's Old Equipment Contest entry is an easily missed crystal radio called the "Vest-O-Fone." Made by the Pocket Radio Corporation, Des Moines, Iowa, the radio consists of a cat's whisker in a headphone and can be overlooked in a headphone parts box.



## Memories – Electronics Stores – continued

The first summer after I graduated from high school I worked in the Goodrich tire warehouse, which was the old Hudson factory on Grand Boulevard, and I hated that job because it was so boring. I remembered Dick telling me to apply for a job after I graduated from high school and so I did. He hired me in 1965 and I had a blast. They had two shelf's full of radios to be fixed, probably about 40 radios. I was in radio heaven and within three days I had all of them fixed. Dick moved me onto TV's and about anything that came through the door. I even fixed their TV vans when they needed starter motors, alternators, generators water pumps and other simple stuff. Besides servicing TV's and radios, they rebuilt picture tubes, sold new and used TV's, radios, stereos, batteries, tubes and phonograph needles. They expanded their stores to three with one of them two blocks south of Wayne State University on Cass Avenue and while I attended Wayne State, I worked at the Cass Avenue store where Wesley spent most of his time. They allowed me to flex my hours so I could work for them and go to college and for that I am eternally grateful to both of them. I could write much more about TV Land and at a later time I will.

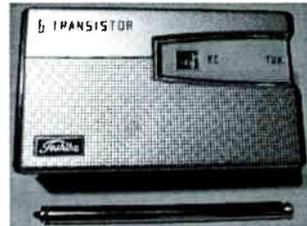
Kerry Borgne is a friend of mine who started working at TV Land a year or two after I started working there. He too, got tired of factory type work and I suggested he work for TV Land. He did and he found TV radio servicing was a lot more enjoyable. He remained in the servicing industry and is currently working for Royal Radio in Royal Oak. He was a great help to me in recalling names of some of the people mentioned in this article. The two of us had a lot of fun working at TV Land and I could do an article just on the experiences we had there. Ah, the roaches.... I'll save that story for another time.

That's me with my 1962 Rambler Classic that I, and a friend of mine, Kerry, would use for antenna jobs.



went out. They moved to 6 mile near Fenmore, which is very close to Southfield. It was there that I bought my first transistor radio. In 1961 I was confirmed in the Lutheran Church and typically you get a bible from your family. I told them I didn't want a bible as I already had three of them and what I really wanted was a transistor radio. My stepmother said I would have the bible for a lifetime, but that transistor radio would last only a short while. With a lot of persuasion I finally got permission to buy a transistor radio and so I pedaled my bicycle up to the new Midway Electronics and bought a brand new Toshiba 6 transistor radio with leather carrying case, telescoping antenna and earphone for about \$21.00. I still have the Toshiba in working condition plus the three bibles. Midway Electronics moved to 8 mile, if I recall correctly, in the late 1960's.

TV Research  
was a tuner  
rebuilding  
business owned



by Dick Sills who rebuilt a lot of tuners for TV Land. Kerry, a friend of mine and myself would visit him quite often. He was a good man that taught us a lot about repairing TV tuners and could fix any TV tuner except one. It was a UHF tuner with a drift problem and he replaced everything in it except the frame and it still drifted. Dick was normally a very laid back man that controlled his temper quite well, but not so with this tuner. He threw it on the floor and jumped up and down on it. Of course, the customer got a new tuner, but I will never forget that UHF tuner.

TV Land as I recall started out on Fenkell avenue and was close to my high school, Cooley and I would walk by there quite frequently. Dick Kellerman owned the shop and was in partnership with Wesley Fritz. When their partnership came about, I don't know, but they both became instrumental in helping me get through college, which I still appreciate to this day. Dick had started a picture tube rebuilding plant in the back of his store and they were priced reasonably and I would buy one from time to time for TV's that I was fixing up and reselling while still in high school. I always asked if they needed help, but they always told me to apply for a job when I graduated from high school. About 1964 they moved their operations from Fenkell to Grand River and that is where I went to work after I graduated from high school.

## Memories – Electronics Stores – continued

too small. The 7" Admiral was big enough that I could and did watch TV programs on it. The Sparton I used for several years but eventually gave it to an electronics instructor at EIT, who was also interested in old radio. I had the 3" Pilot for many years, but it is now with my brother-in-law, who also collects old radios and TVs, so it's still in the family. Mr. DuFour had an intriguing sign on the back outside door of his shop: Danger- One Million Ohms. TV shops in Detroit seldom got broken into.

Hershel Electronics, while not a TV shop, but rather, electronics supply house was instrumental in helping me with my budding electronics career. It was here where I made contact with the man who sold me the Crosley 51 in 1961, my first early 1920's radio, which I still have and wrote an article about, that some of you may remember reading. Hershel supplied me with a lot of my TV and radio parts.

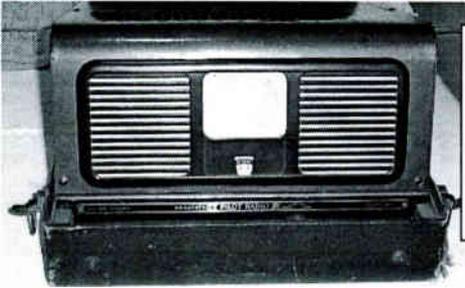
Bauer's Surplus, and I'm not absolutely sure of this name, had a lot of WWII electronic surplus and Rider manuals. This was a favorite place for radio amateurs and people like me looking for old tubes and other parts. The Rider manuals were expensive, at least for me, and I only bought one, and that was volume III because it had so many schematics of radios that I encountered at that time. I still have that manual.

Olson Electronics was an electronics supply house, but they also sold a lot of electronic equipment from radios to stereos and if Hershel's didn't have what I needed, I would try Olson's. I do remember Olson's having an antique radio display in the late 1960's, which I enjoyed.

Midway Electronics was on 6 mile about half between Greenfield and Southfield and was a supplier of electronic parts and equipment to TV shops around the area. I would ride my bicycle up there and go through their antique radio tubes they had sitting on the west wall and they were cheap enough that a twelve year old like me could buy one once in awhile. I still have some of them in my collection and two that come to my mind is a 40 and a 59. About 1960 Midway burned down and I remember the firemen didn't want to go in there because of the picture tubes and you could hear them exploding from time to time, so there wasn't much left when the fire

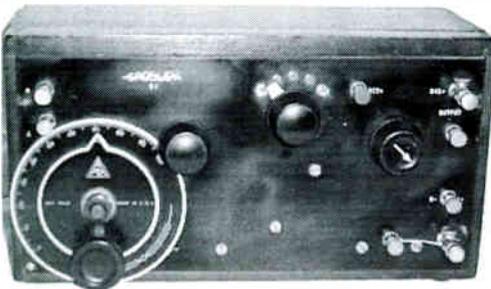
went out of business I bought two 7" Admiral TV's of 1948 vintage. I still have one of them and there is a story behind it that I will save for later. I remember him telling me that it was a struggle for him to do business, but that when he sold off his business, people swooped in like vultures to get what they could. I liked him and hated to see him go.

DuFour TV was in my old neighborhood that I would visit frequently when seeing my old friend Michael, who still lives there to this very day, as of this writing! Almost 60 years in one house! Mr. DuFour was a nice guy and very knowledgeable about TV. One of the best TV technicians I had ever met and really knew what he was doing. Mr. DuFour had a Sparton radio chassis of



You can't see the knobs because it is in the original carrying case. I was about 15 when I got this Pilot TV. As a promotional, they gave these away when you bought a living room set.

about 1929 vintage that was gold in color in his front window along with a 3" Pilot TV. I either bought the Sparton or he gave it to me, but I did wind up with it in 1962 or 1963 and it took two trips to get it home. One trip for the chassis and one for the speaker and I used the bus and still had to carry the chassis about one mile. That was a long mile with many rests. It was at this time that I had the two 7" Admirals that I got from Lakeland TV and decided to see if Mr. DuFour would be interested in trading his 3" Pilot for one of my Admirals and he said he would. I WAS delighted, to say the least! When I got it home, I changed the 3Kv capacitors and it worked great. The little TV came with the carrying case and built in antenna, which I used. It was a great novelty, but I could never watch a complete TV program on it because it was

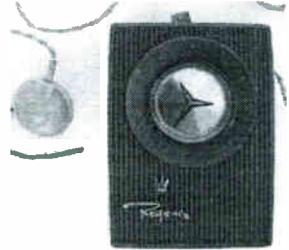


I got this radio when I was 14 and it came with the Apex dial, which is not original, but I decided to leave it on.

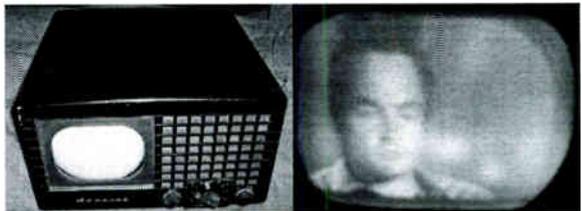
## Memories – Electronics Stores – continued

get the tubes in the right places on my family's Philco 48-200 when I got the tubes switched around. I was about 12 and just learning radio and so I didn't have the tube circuitry down pat, yet. Mr. Leigh didn't have any Riders or Sam's, so he and his partner had to trace the circuitry to figure out where the tubes went. He only worked on certain brands of TV's and apparently had the factory schematics for them. I also bought some parts from him, specifically; a capacitor comes to my mind, to build my first transistor radio in 1959, which worked quite well. He also gave me several old radios from the 1930's which were regarded as junk at the time, but gave me hours of entertainment in getting them fixed and listening to them. The neighborhood kids and I enjoyed watching him activate the retractable top of his 1957 Ford. The community lost a good man when he died of a heart attack when he was about 38, but his business did continue on.

Ferber's TV was three blocks north of me and he sold radios as well as servicing TV's and radios. It was at Ferber's where I bought my Regency XR-2A two transistor radio brand new in the box, which I still have today, but unfortunately, minus the box. That little radio worked very well in Detroit and would last forever on its' two batteries. One time I turned it on, put it in the dresser drawer with clothes on top of it so I didn't have to hear it, and let it run 24/7 to see how long the batteries would last. They lasted one month. Mr. Ferber would throw out a lot of tubes and I would take some of them home and check them and they were always bad. I never did get any old radios or TV's from him.



Lakeland TV was also close to home and as I recall, wasn't in business for very long.



It seemed like just a couple of years, around 1962, but he did have a lot of old TV's in the shop and when he

This Admiral did not have knobs when I got it, so when I was about 16, I put the Motorola knobs on it. The channel selector knob is correct. The picture at the right, which I recently took, is an actual picture of the operating TV.

# Memories of TV & Electronic Stores in Detroit

By Edward Dupart

For those of you that lived in Detroit in the 50's and 60's, this will be a trip down memory lane. For those of you who didn't live in Detroit, just think back to the old TV shops and electronic stores where you lived. I was a familiar face to those TV shop owners, the kid with the old Schwinn bicycle looking for old radios and TV's that would be thrown out. There were a few electronic stores that I would also haunt. Here's a list of the ones I frequented the most:

- Leigh TV on Puritan between Mansfield and Rutherford
- Ferbers TV on 6 mile between Mansfield and St Marys
- Lakeland TV on Puritan between St Marys and Murray Hill
- DuFour TV on Greydale just south of Grand River
- Hershel Electronics on Grand River near Southfield
- Bauer's Surplus on Redford near Lahser between 6 mile and Grand River
- Olson Electronics on Grand River near Prevost
- Midway Electronics on 6 mile ½ way between Greenfield and Southfield.
- TV Research on Schoolcraft near Evergreen
- TV Land on Fenkell near Cooley High School, which moved to 21659 Grand River around 1964.

All of these businesses are long gone, but the memories of the owners and workers remain and here is a glimpse of a few of them.

I'll start off with Leigh TV, owned by Mr. Leigh, a kindly young man in his early 30's when I first met him in 1958. Since I lived on Mansfield, he was only two blocks away. He rarely worked on radios but he did help me



I used to listen to Dragnet and the Lone Ranger on this radio at our cottage located on Triangle Lake, near Howell Michigan.

## Tech Seminar at IHRS Spring Meet – 2007



Ed Dupart – Doing what he likes best – talking about vintage radios.

Ed's tech talk at the Spring IHRS Meet in Kokomo was titled "Radios with NO SCHEMATICS - NO CAPACITOR VALUES – WHAT DO I USE?"

The content of his talk was originally published in the Fall 2001 IHRS Bulletin. The following table provides valuable capacitor details related to Ed's talk.

CAPACITOR APPLICATIONS OTHER THAN POWER SUPPLIES:		
Application	Range I See	What I use
First audio amplifier coupling capacitor:	.005 $\mu$ f - .01 $\mu$ f	.01 $\mu$ f
Second audio amplifier coupling capacitor:	.005 $\mu$ f - .05 $\mu$ f .01 $\mu$ f typical	.01 $\mu$ f
Screen and plate bypass capacitor AM & Shortwave radios:	.01 $\mu$ f - .1 $\mu$ f .05 $\mu$ f typical	.1 $\mu$ f
Screen and plate bypass capacitor Longwave, AM & Shortwave radios:	.1 $\mu$ f - 2 $\mu$ f	.22 $\mu$ f
AVC capacitor at the volume control: These rarely ever go bad!	100pf - 250 pf	250pf
AVC capacitor at the mixer & RF stages:	.01 $\mu$ f - .05 $\mu$ f .05 $\mu$ f typical	.05 $\mu$ f
Cathode bypass capacitor in audio circuits:	.05 $\mu$ f - 50 $\mu$ f 4 $\mu$ f typical	20 $\mu$ f AF Out .05 $\mu$ f 1" AF
Cathode bypass capacitor in radio frequency circuits:	.01 $\mu$ f - .1 $\mu$ f	.05 $\mu$ f
Capacitor in series with single tone control:	.005 $\mu$ f - .05 $\mu$ f .01 $\mu$ f typical	.01 $\mu$ f
Capacitors across audio output transformers:	.005 $\mu$ f - .03 $\mu$ f 600v or higher	.005 $\mu$ f
POWER SUPPLY FILTER CAPACITORS:		
Late 1920's radios:	1 $\mu$ f - 4 $\mu$ f	10 $\mu$ f
1930's and up with full wave rectifier, 80, 5Y3, 5Z3, etc.:	8 $\mu$ f - 20 $\mu$ f	20 $\mu$ f
1930's to 1940's with 1/2 wave rectifier, 25Z5, 25Z6, 35Y4, 35Z5, etc. with field coil speaker:	10 $\mu$ f - 20 $\mu$ f	20 $\mu$ f
1940's to 1960's with 1/2 wave rectifier, 35Z5, 35W4, etc. without field coil speaker:	50 $\mu$ f 1st filter 30 $\mu$ f 2nd filter	50 $\mu$ f 50 $\mu$ f

# LIST OF ABBREVIATIONS TO BE USED IN RADIO COMMUNICATION

ABBREVIATION	QUESTION	ANSWER OR NOTICE
PRB	Do you wish to communicate by means of the International Signal Code?	I wish to communicate by means of the International Signal Code.
QRA	What ship or coast station is that?	This is .....
QRB	What is your distance?	My distance is .....
QRC	What is your true bearing?	My true bearing is ..... degrees.
QRD	Where are you bound for?	I am bound for .....
QRF	Where are you bound from?	I am bound from .....
QRG	What line do you belong to?	I belong to the ..... Line.
QRH	What is your wave length in meters?	My wave length is ..... meters.
QRJ	How many words have you to send?	I have ..... words to send.
QRK	How do you receive me?	I am receiving well.
QRL	Are you receiving badly? Shall I send 20 <sup>0</sup> for adjustment?	I am receiving badly. Please send 20 <sup>0</sup> for adjustment.
QRM	Are you being interfered with?	I am being interfered with.
QRN	Are the atmospherics strong?	Atmospherics are very strong.
QRO	Shall I increase power?	Increase power.
QRP	Shall I decrease power?	Decrease power.
QRQ	Shall I send faster?	Send faster.
QRS	Shall I send slower?	Send slower.
QRT	Shall I stop sending?	Stop sending.
QRU	Have you anything for me?	I have nothing for you.
QRV	Are you ready?	I am ready. All right now.
QRW	Are you busy?	I am busy (or: I am busy with.....). Please do not interfere.
QRX	Shall I stand by?	Stand by. I will call you when required.
QRY	When will be my turn?	Your turn will be No. ....
QRZ	Are my signals weak?	Your signals are weak.
QSA	Are my signals strong?	Your signals are strong.
QSB	Is my tone bad?	The tone is bad.
QSC	Is my spark bad?	The spark is bad.
QSD	Is my spacing bad?	Your spacing is bad.
QSF	What is your time?	My time is .....
QSG	Is transmission to be in alternate order or in series?	Transmission will be in alternate order.
QSH	.....	Transmission will be in series of 5 messages.
QSI	.....	Transmission will be in series of 10 messages.
QSK	What rate shall I collect for .....	Collect .....
QSL	Is the last radiogram canceled .....	The last radiogram is canceled.
QSM	Did you get my receipt? .....	Please acknowledge.
QSN	What is your true course? .....	My true course is ..... degrees.
QSO	Are you in communication with land? .....	I am not in communication with land.
QSP	Are you in communication with any ship or station (or: with.....)?	I am in communication with..... (through.....).
QSQ	Shall I inform..... that you are calling him?	Inform..... that I am calling him.
QSQ	Is..... calling me?	You are being called by.....
QSE	Will you forward the radiogram?	I will forward the radiogram.
QST	Have you received the general call?	General call to all stations.
QSU	Please call me when you have finished (or: at..... o'clock)?	Will call when I have finished.
*QSV	Is public correspondence being handled? .....	Public correspondence is being handled. Please do not interfere.
QSW	Shall I increase my spark frequency? .....	Increase your spark frequency.
QSX	Shall I decrease my spark frequency? .....	Decrease your spark frequency.
QSY	Shall I send on a wave length of..... meters?	Let us change to the wave length of..... meters.
QSZ	.....	Send each word twice. I have difficulty in receiving you.
QTA	.....	Repeat the last radiogram.
QTE	What is my true bearing?	Your true bearing is ..... degrees from .....
QTF	What is my position?	Your position is ..... latitude ..... longitude.

The above list of abbreviations is from the Department of Commerce, Bureau of Navigation, Radio Service. Published in the 1922 edition of "The Book Of Radio" C. W. Taussig

## Wireless Terminology - continued

9CUR was running 50 watts in a 4-coil Meissner circuit using Raw A-C on the plate. This was sometimes called "self rectifying" or ACCW (Alternating Current Continuous Wave). It would be essentially ICW in today's terminology and could be received on sets not having a BFO, which included all remaining spark, arc, and such sets using crystal detector receivers which today could only receive AM signals. His receiver was a Lo-Loss Tuner having one stage of audio amplification. The "inverted L" antenna symbol indicates the Bent form of Hertz antenna, in this case 30 feet high and 45 feet horizontally (assuming 75 feet was the total wire length) having an (elevated) counterpoise wire under it rather than using earth ground. (Marconi antennae worked against earth ground, or at least radials on or in the ground)

Since he didn't strike-out the Pse (please) he had not yet received a QSL card from 7GB. Vy (very) 73 means Best Regards. His mention of "short waves" is referring to amateur bands on shorter wavelength than the 200 meter band which (in 1927) was 150 to 200 meters. By 1927 we hams no longer had everything above 200 meters, and the 80 & 40 meter bands were roughly where they are today. His 75-foot antenna wire would be roughly correct for 80 meters and I assume that is where they were operating, although frequency measurements were a black art then.

Submitted by Bill Smith, N9TT

A check of QST's 1920's Division Reports, Central Division, shows no record of 9CUR activity during 1923. 9CUR shows active during 1924, 25, and 1926. The somewhat loose and quick check of 1927, 28, and 1929 QST's showed no activity.

There is a TV ad currently running showing a mother and daughter discussing the daughter's constant use of a cell phone for text messaging. The mother talks like any mother – the daughter speaks in a text messaging language. Check Wikipedia to see the current art of using letter combinations (well over 200) to communicate. Times have changed, but maybe not that much. TNSTAAFL CUL E-☺

**QRN Sum** (had some atmospheric disturbances such as static).

Buford Lee's 50 watt Meissner circuit transmitter had R.A.C. plate supply. His receiver was a Low Loss Tuner and "One Step" which I think was one stage of audio but not sure.

Antenna: Inverted "L", sometimes called an end fed Zepp, one wire 75' long, 30' high....not sure what "Fan c.p." means.

Remarks: Sure gld QSO o.m. (Sure glad to contact you, old man).

Ur 1<sup>st</sup> 7 wkd on short waves. (You are my first "7" station I've worked on short waves. **Had been on short waves about 1 week.** (I had been on short waves about 1 week at the time of our contact).

**Hope QSO agn sum time.** (Hope to contact you again some time. QSO meaning a contact between two stations).

**Pse QSL crd.** (Please exchange a QSL card.) The QSL card is a verification of a contact.

**Nuff sed.** ( Enough said). **Vy 73** (Very Best Wishes) "73" is from a numbered list of 90+ standard messages used to speed transmission. In the 1850s it meant "I love you" and after some changes in the late 1800s to very early 1900s was softened to the present "best wishes".

**OP.** (Operator ) Buford Lee.

Can't find anything on Buford Lee. But the temptation to send a card to 1025 W. 32<sup>nd</sup> St., Indianapolis, is strong.

Submitted by Herman Gross, W9ITT

*The following is Bill's response:*

Buford Lee was an electrician at IPALCO (Indianapolis Power & Light Co), retiring in the late 60's. Although I never realized he was a ham (or ex-ham) when I knew him in 1967-8, I assume that 9CUR was he, or his father.

Radio 7GB was the station he confirmed working, who was transmitting CW, whose Audibility was strong (QSA), with Raw A-C Tone, through Bad interference (QRM), with No fading (QSS), and Some atmospheric interference (QRN). The modern RST system was not invented yet. The abbreviations and "Q" signals are all standard for the times, but the "Q" sigs underwent a major revision in 1928, so some are hard to find.

## "Test Your Knowledge of Wireless Terminology"

The March 2007 issue of the Bulletin invited readers to provide details to the 9CUR response card shown below. The card was sent to C. F. Butler, Tacoma, Washington - postmarked March 3, 1925. Herman Gross and Bill Smith submitted the following related to the coded information on the card as well as equipment used and Buford Lee himself.

Radio, <i>7GB</i>	<b>ARRL</b>	1025 W. 32 St. Indpls, Ind.
Ur. <i>cw</i>	Sigs. <i>wkd</i>	hr. <i>P.M. of Feb. 27, '20</i>
Aud. <i>QSA</i>	Tone <i>R.A.C.</i>	QRM <i>Bd.</i> QSS <i>Nil.</i> QRN <i>Some</i>
Transmitter	9CUR	Receiver
"50" Watts in 4 coil		Lo Loss Tuner and one step.
Meissner Ckt. <i>R.A.C. plate supply.</i>		
Antenna <i>T type of wire 75' long, 30' hi. Four c. p.</i>		
Remarks <i>Sure glad QSO one. W 1st 7 wkd on short waves. Had been on short waves abt. 1 week. Hope QSO again soon time.</i>		
Pre QSL card. Nuff so d.	<i>Vy 73.</i>	OP. <i>Buford Lee</i>
NAGLEY PRINTING CO.		

The following is Herman's response.

Radio 7GB ("7" means he's located in the Northwest Territories). In the '1920s amateur call signs, issued by the Department of Commerce, had no letter prefix, such as W or K.

Ur (your) CW (continuous wave, i.e., morse code) Sigs (signal) wkd (worked) P.M. of February 27, 1920.

Aud (Audio? Not sure of this.) QSA (means strength of 7GB's signal. But Buford Lee didn't give him a number to signify strength at his location).

Tone R.A.C. ( quality of the cw tone, in this case Raw Alternating Current, which means the transmitter had AC on the tube plate, not DC, and the cw note was a 60 cycle buzz).

QRM Bd (Interference from other stations was bad).

QSS Nil (Our working frequency is Nil kilocycles). Which means to me the operator didn't know what frequency he was on. Logs were required at the time so at least the band he was using should have been noted.

# Spring Meet – Kokomo – 2007

Pictures – Harry Blesy



Andy and Jack  
with the  
"Dueling Reds"



## Oceanic Surcouf- 1955



French Radios of the mid 20<sup>th</sup> Century  
Peter Konshak – Old Equipment Contest – Spring 2007



SNR Excelsior - 1952

*Le Ruban Bleu de la Qualité.*

MAI 1956

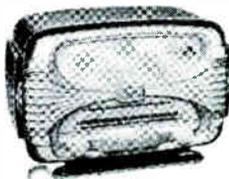
**Océanic**

**RADIO  
TELEVISION**

*Vous Présente*

**LE RUBAN BLEU DE LA QUALITÉ**

**SURCOUF**



7 lampes - 111 tubes  
4 spires par canal 5  
tôches Cadre réglable  
Comm. totales - antenne  
cadre - Contrôle de fréq.  
à la progress. - Poste P. U.  
et P. S. - P. 12-14 V.  
Éclairage à la de persé  
Dét. à l'appareil en in  
15 - 15 mètre - 2000  
Aliment. - 225 volts  
- 220 - 230 - 240 - 250  
- 260 - 270 - 280 - 290 - 300  
- 310 - 320 - 330 - 340 - 350  
- 360 - 370 - 380 - 390 - 400  
- 410 - 420 - 430 - 440 - 450  
- 460 - 470 - 480 - 490 - 500  
- 510 - 520 - 530 - 540 - 550  
- 560 - 570 - 580 - 590 - 600  
- 610 - 620 - 630 - 640 - 650  
- 660 - 670 - 680 - 690 - 700  
- 710 - 720 - 730 - 740 - 750  
- 760 - 770 - 780 - 790 - 800  
- 810 - 820 - 830 - 840 - 850  
- 860 - 870 - 880 - 890 - 900  
- 910 - 920 - 930 - 940 - 950  
- 960 - 970 - 980 - 990 - 1000  
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- 1060 - 1070 - 1080 - 1090 - 1100  
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- 1160 - 1170 - 1180 - 1190 - 1200  
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**R.P. SURCOUF**

Même récepteur équipé  
d'un tonne jusqu'à  
3 mètres  
Dim : 450 x 210 x 330  
Poids : 15 kg



*Mieux, n'importe où  
à n'importe quelle heure  
n'importe quel poste.*

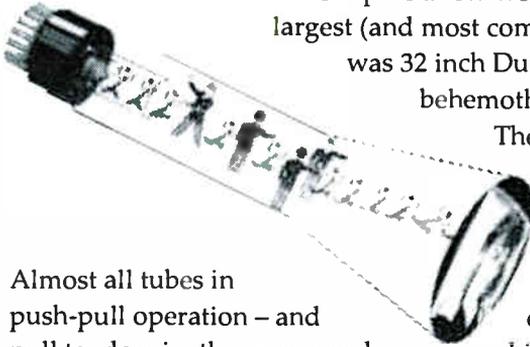
**Océanic**

The attention getter in the Spring Meet Old Equipment Contest was Peter Konshak's French Radios entry. (See the following page.) The 1956 Oceanic ad on this page was located on a French web site dedicated to Radio. The price of the "Oceanic Surcouf" ranged from 26 to 38 francs according to a "Janvier 1956 Tarif" notice.

# Reminiscing With An Old Tube Switcher

By Grey Behr

As a novice repair man of radio and television in the early 1960's I encountered quite a few weird and wonderful sets. The largest (and most complicated) television I worked on was 32 inch Dumont round screen tube type behemoth as large as an upright piano! The lady who owned it even had a room of her house enlarged to showcase this giant set.



Almost all tubes in push-pull operation – and pull tandem in the sweep and were very cautions in working on this 3KV metal cone picture tube monster! Service calls mounted as the set aged and the owner offered the ailing Dumont to me, if I would just haul it away. To be fair, I traded a 17 inch table model Admiral for it and took possession of the awesome set.

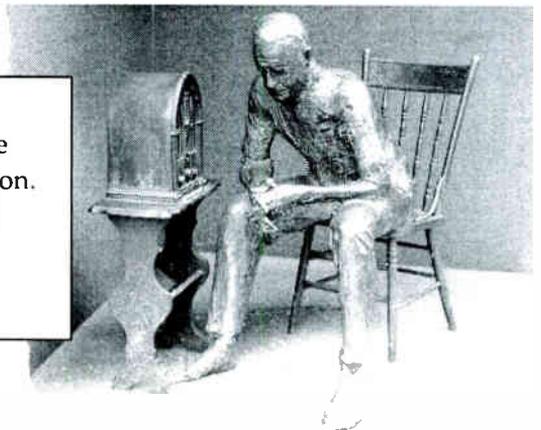
this set were duplicated for even quadruplicated for push-high voltage section! One had to

The Dumont served me on an off (mostly off) for some years – but the metal cone CRT become gassy and the picture dimmed to extinction. The cabinet of various inlaid rare woods and its double doors lives on as a bookcase today. GB



*Recognized  
as the Height of Quality*

The picture to the right is a gentleman listening to the "Fire Side Chat" during the depression. Recently taken by Herman and Shirley Gross at the FDR Memorial, Washington, DC



## Old Equipment Contest – Spring Meet 2007

The Old Equipment Contest is judged using the following criteria: - 1) Historical Significance; 2) Uniqueness and Rarity; 3) Quality of Restoration (or how well preserved an original is); and 4) Supporting and Illustrative Documentation. A maximum of five points can be awarded in each category. Three judges score the contest entries using the point value as a measure of excellence. The judges for the Spring Meet were Bill Morris, Bob Sands, Bill Smith and contest chairman, Alex Whitaker. The contest chairman judges entries in place of a judge who has an entry in the contest. Here are the contest results:

*Category 1 - Indiana Made - Diamond T Baby Grand Console - Fred Prohl - First Place and Best of Show – (only entry in the category).*

*Category 2 - Homebrew Transmitters and Receivers - Hermit's Pal crystal and one tube radio group - all fit into a custom made wooden box.... a really neat set up. - Harry Blesy - 1st Place (only entry in category).*

*Category 3 - 1920's Battery Sets (table or console) - 1924 Kennedy XV (operating) - Bob Sands - 1st Place (only entry in category). Excellent restoration - beautiful set*

*Category 4 - Transistors - Automatic (brand) Tractor Radio - painted John Deere Green - Tom Williams - 1st Place*

*Viscount VIP - model 602 - new in box - Mike Jones - 2nd Place*

*Category 5 - Pre 1930 Crystal radios - Pennsylvania Junior - made by the Hamburg Brothers - Bob Sands - 1st Place (very beautiful set) Vest-O-Phone - Ed Taylor - 2nd Place*

*Category 6 - Pre 1940 AC Radios (table or console) - 1937 Zenith 6S229 – Bob Sands - 1st Place*

*Trav-ler model 431 - Ed Dupart - 2nd Place*

*Category 7 - Open - French Radios - Peter Konshak - 1st Place*

*"Coradio" Coin Operated radio - Jack Lavelle (excellent restoration – radio looked new) - 2nd place*

The closest voting was in Category 6 - both radios were beautifully restored and playing - only 2 points separated first and second. Thank you Bill, Bob, and Bill for assisting as judges with the Old Equipment Contest.

Alex Whitaker, Contest Chairman

## Summer Meet in Ligonier (continued)

More area motels:

### Shipshewana

16 miles north of Ligonier  
Country Inn & Suites  
1175 N van Buren St. (SR 5 N)  
(260)768-7780

### Shipshewana

der Rune Blatz Motel  
1195 S van Buren St. (SR 5 south)  
(260) 768-7750

### Shipshewana - Farmstead Inn

370 S van Buren St (SR 5 south)  
(260)768-4595

### Goshen

16 miles west of Ligonier  
Holiday Inn Express  
2309 Lincoln Way East  
(574)642-4388

### Goshen - Super 8

65440 US Highway 33  
(574)642-9944

### Goshen Inn

1375 Lincoln Way East  
(574)533-9551

### Contacts for IHRS Summer Ligonier Meet:

Fred Schultz, (260) 894-3092 or email [olradio@ligtel.com](mailto:olradio@ligtel.com)  
Fred Prohl, (812) 988-1761 or email [indianahistoricalradio@att.net](mailto:indianahistoricalradio@att.net)

## **IHRS Contest Categories for 2007 – Prepare Now!**

*Summer Meet - Ligonier Community Center, Ligonier – August 2007*

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

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

1. My Favorite radio
2. Amateur Radio Equipment – any vintage

Tables will be available at each meet for Vintage Radio Displays

On Saturday, August 11 the IHRS will meet at the  
**LIGONIER RECREATION CENTER**  
**LIGONIER - home of the Indiana Historic Radio Museum.**

The Ligonier Recreation Center provides a large amount of indoor and outdoor space for all IHRS meet activities. The center is located at 520 Union Street, several blocks from the Museum in Ligonier – watch for the IHRS direction signs.



General admission is free. Swap N Sell vendor fee is \$5.00 for current members of the Indiana Historical Radio Society and \$10.00 for non-members.

**Schedule of events:**

7:00 AM Set up Swap N Sell of vintage radio equipment. Set up is indoor or outdoor, first come first serve.

8:00 AM The IHRS Summer Meet officially begins

10:00 AM Contest entries in place for "Popular Vote Judging"

**Contest Categories:** 1 Portable tube radios 2 Cost me less than \$20.00

10:00 AM Silent auction entries in place – bidding begins

11:00 AM Silent auction ends – buyers pay for items.

11:15 AM Contest Popular Vote closes and ballots counted

11:30 AM Pitch-In Lunch – Bring a dish to share.

An IHRS Business meeting will immediately follow the lunch

**Area Motels:**

**Kendallville** – 19 miles east of Ligonier

Holiday Inn Express

Economy Inn

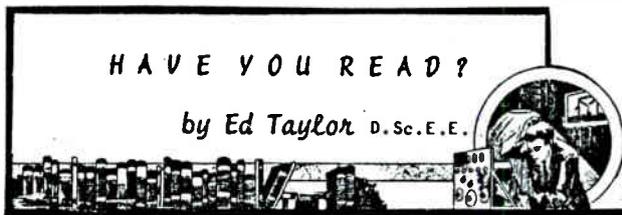
1917 Dowling St

US Hwy 6 West

(260)343-0061

(260)347-3500

Motel listings continued on the next page.



## Thunderstruck

Copyright © 2006 by Erik Larson

In *Thunderstruck*, Erik Larson tells the interwoven stories of two men—Hawley Crippen, a very unlikely murderer, and Guglielmo Marconi, the obsessive creator of a seemingly supernatural means of communication—whose lives intersect during one of the greatest criminal chases of all time.

Set in Edwardian London and on the stormy coasts of Cornwall, Cape Cod, and Nova Scotia, *Thunderstruck* evokes the dynamism of those years when great shipping companies competed to build the biggest, fastest ocean liners, scientific advances dazzled the public with visions of a world transformed, and the rich outdid one another with ostentatious displays of wealth. Against this background, Marconi races against incredible odds and relentless skepticism to perfect his invention: the wireless, a prime catalyst for the emergence of the world we know today. Meanwhile, Crippen, “the kindest of men,” nearly commits the perfect crime.

With his superb narrative skills, Erik Larson guides these parallel narratives toward a relentlessly suspenseful meeting on the waters of the North Atlantic. Along the way, he tells of a sad and tragic love affair that was described on the front pages of newspapers around the world, a chief inspector who found himself strangely sympathetic to the killer and his lover, and a driven and compelling inventor who transformed the way we communicate. *Thunderstruck* presents a vibrant portrait of an era of séances, science, and fog, inhabited by inventors, magicians, and Scotland Yard detectives, all presided over by the amiable and fun-loving Edward VII as the world slid inevitably toward the first great war of the twentieth century. Gripping from the first page, and rich with fascinating detail about the time, the people, and the new inventions that connect and divide us, *Thunderstruck* is splendid narrative history from a master of the form.

A true story of love, murder,  
and the end of the world's  
“great hush”

screen. Hunt says, wedding history to present, "It's just a gimmick...just like today – bells and whistles."

One large cabinet contains novelty radios. They look like everything from Mickey Mouse to car batteries. Then there are the radios of the forties and fifties. These are the "retro" radios that can be found in specialty shops and department stores under the nostalgia category. "Bakelite" is one of the hallmark words of this era.

So many radios and if Hunt, the aficionado, could have his pick, what would it be? He walks to the Scott All Wave Imperial – the one with 23 tubes – and says, "If radios were cars, this would be a Cadillac." Helen Wolfe adds, "They say it sounds beautiful, better than any you would get today."

You can hear what the "average" old radio sounded like, and Wolfe turns on one that has a tape of an old radio program in it. The voice on the tape says, "Broadcasting from New York City and as Helen listens, she comments on the tone, "tinny," she says, adding, "That's how they sounded."

She says people from all over the world have signed the guestbook, including some from Sweden who judged the collection the best radio museum in the United States.

There is also a Swedish radio on the shelves, but it has only one knob...there was only one radio station in Sweden. Well, that's one way to get the signal.

The Museum is located at 800 Lincolnway South/S.R.5 at the Visitors Center and is open April – October for 10 a.m. to 3 p.m. Tuesday-Saturday. Off season hours are Saturday, 10 a.m. to 2 p.m.

Information is available at 888-417-3562 or 260-894-9000.



Kenzie, daughter of  
Bill and Penny Morris  
"A future in radio!"

Can I? Can I – Pleeease?

BBC is coming in strong!

## Silent Words – continued

“But he claimed he invented it. He stumbled into it the way a blind hog finds an acorn – once in a while. He’s not on my list of heroes.”

Wolfe chimes in, “Some people say he’s wonderful,” and Hunt remarks, “Oh, yeah, he’s got the name recognition.”

When Wolfe then refers to the belief held by some that “RCA took it away from him,” Hunt replies with conviction, “They didn’t take it away from him; they developed it from around behind him. The military wanted radio receivers and he couldn’t deliver them – so they gave it to other people who quickly understood what was going on and progressed.”

But we were talking tubes. The early radios were not much more than vacuum tubes stuck in a line along a piece of wood. Hunt points to one and says, “This one is an Atwater Kent and they called (the style) “breadboard.” At this time, people didn’t go into a store and buy a “breadboard” radio – radios were something to be put together. Helen Wolfe recalls that in 1924 her father hired a local man to build one for the family. Hunt says, “Atwater Kent made kits...They made components.” Once you had a radio, you had to tune it to the right frequency. Hunt points to three knobs, saying that they had to be turned simultaneously to get the station tuned in. When it was pointed out a person has but two hands, he says, “That’s right...but there’s still three dials.”

He then goes over to a Grebe radio that “had a chain on top to tie them (the knobs) together loosely, so they pretty well came along and you didn’t need turn them individually.” He smiles and sums up the attitude of the times – “Whatever it took to get your signal.”

Part of what it took was \$105.

That was the cost of the 1925 Grebe Synchronphase that Hunt had indicated. Oh, and that \$105 didn’t include the tubes – all radios were sold without them in those days.

Visitors can experience the frustration at a display where they can try tuning a radio in the 1920’s way by, as the brochure says, “perfectly aligning the three knobs.”

Walking around the display cases, Hunt gestured at some small radios and says, “These are all Arvin radios...little tin dudes, they got hot enough you could fry eggs on them.”

There is also a Montgomery Ward Airline with what was called a “movie dial.” It used a method of tuning that involved a projected image on a

into a Visitor's Center and a home for the radios. Pictures just inside the museum front door follow the stages of the renovation.

Helen Wolfe was the volunteer on hand in a Spring 2004 visit. It was a fortuitous time to stop by; Harold Hunt, a member of the Indiana Historical Radio Society, stopped in to touch base. A resident of Decatur, he was on his way to Shipshewana, but he took a few minutes to point out radios and offer some interesting interpretations.

He himself has brought has brought a 1937 Philco slope front floor model up to speed and add something extra to the story of the Red, White, and Blue "Patriotic" radio that is a favorite of kids.

Doug McIntosh of Elkhart started refinishing an old floor model radio, and, Hunt says, "It didn't turn out the way he wanted it, so he just did a very nice red, white, and blue with stars and spangles and everything else. "It's gorgeous."

Nestled in a display case along the back wall are three radio tubes; they are "audions" and turned up in a box of old radio stuff from the Shipshewana Flea Market. Wolfe smiles and says, "Even the Smithsonian doesn't have any."

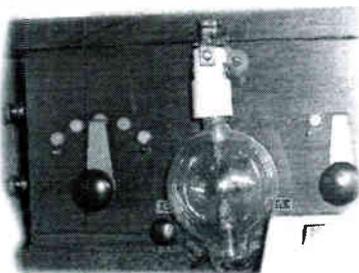
These audion tubes are special because they were an improvement on the first tubes that only produced a very weak signal. Lee

deForest, a physicist from Yale University developed and named them.

Because the tubes could amplify signals and generate oscillations, making it possible to transmit sound over wireless communications systems, DeForest is to some the "Father of Radio."

Now see why it is fun to have a radio enthusiast handy – there is another

side to the story. Hal Hunts says, "He didn't know diddly squat about what he was doing. He stumbled onto it...He did not understand how they work; he could not make them work; he couldn't improve on them because he didn't understand how they worked at all.



# Indiana Historical Radio Museum – Report



## Silent Words Haunt Radio Museum

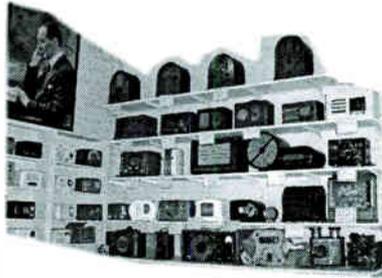
By Jody Grismore Vance

*Originally published in the Noble County Spring-Fall 2005 issue of "Fun! Guide" IHRS member Hal Hunt is interviewed in this article. IHRS members will remember Hal passed away in January 2006.*

Silent words haunt the Historic Radio Museum in Ligonier. They are the words that were heard as clicks over the radio telegraph when the Titanic went down. They are the words of Roosevelt's Firesides Chats during the Depression, they are the excited words from when Seabiscuit beat War Admiral; they are the announcement that Pearl Harbor had been bombed; they are the scripts of Jack Benny, Edgar Bergen, and Burns and Allen. Silent music also hangs in the air: the swing tempos of the Big Band Era ... the country ballads broadcast from the Grand Ole Opry.

In all this quiet, a visitor can find the beginning of the age of mass communications.

The radios line the walls on shelves that go from floor to ceiling; they are stacked on two central display cases; and old floor models stand on, well, the floor. Cards identify each exhibit and, in many cases, mention an event to provide a reference point in history.



For instance the 1937 Kadette radio had a price tag of \$29.50 (Depression dollars) and was manufactured the year Amelia Earhart disappeared over the Pacific on and attempt to circle the world.

The Historic Radio Museum in Ligonier did not just sprout up. Fred "Fritz" Schultz had radios on display of old radios in the second story of the Auburn-Cord-Duesenberg Museum, but space became a problem and in 1994, work was begun in Ligonier transforming an old gas station

sell at next year's meeting, please contact one of the club officers as soon as possible. We are planning on continuing the small silent auctions at our meetings as a convenience to our members.

There are two remaining IHRS meetings this year: August 11 (Ligonier) and October 13 (Greenfield). Plan on attending these meetings and support your club. There will be an election of officers for 2008 held at the Greenfield meeting. Please consider running for office and help keep our club viable. Hope to see you all at our future meetings.

Mike Clark, IHRS President

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## **The Indiana Historical Radio Society**

### **2007 Meeting Schedule**

**Summer Meet - Ligonier Community Center - August 11**

**Fall Meet - Riley Park, Greenfield - October 13**

### **2008**

**Winter Meet - Hornet Park, Indianapolis - February 9**

**Spring Meet - Johanning Civic Center, Kokomo - April 25-26**

### **Regional Events of Interest to Members**

**Cincinnati Antique Radio Society June 23, 2007** Site of former Voice of America. I-75 and Tylersville Rd. (North of Cincinnati)  
Contact Bob White 513 385 8291 - Bob Sands 513 858 1755  
A fun meet at a historic location

**Mid South Antique Radio Club** For information contact  
George Freeman [jgfree@verizon.net](mailto:jgfree@verizon.net)

**Antique Radio Club of Illinois** [www.antique-radios.org](http://www.antique-radios.org)  
**Radiofest 2007** August 2-4, 2007 - Willowbrook, Illinois

**Michigan Antique Radio Club** [www.michiganantiqueradio.org](http://www.michiganantiqueradio.org)  
**Extravaganza 2007** July 12-14, 2007 - Lansing Michigan

**AWA-Antique Wireless Association** [www.antiquewireless.org](http://www.antiquewireless.org)  
**Annual Conference - August 22-25, 2007 - Rochester, New York**  
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

## President's Column

The annual spring meeting was held in Kokomo on May 4 and 5 and, if you weren't there, you missed out on a great event. First, let's look at the numbers: there are 230 members in the IHRS. There were 79 registrations which means that about a third of our members attended. We rented 48 tables, but we had a lot of unrented spaces available. I for one was disappointed that we didn't have a larger attendance, but gasoline prices were through the ionosphere and there were a lot of other events, (both radio and non-radio related) that weekend. I think we all would agree that the venue at Kokomo is a great one and we are not threatened by bad weather at this location. Lodging is nearby as are a large number of restaurants. As has been the case in past years, the caterer did an outstanding job with the Saturday luncheon and the food quality was quite good. We had a wonderful surprise at the meal when Mrs. Marilyn Johnston, one of our founding members and a former president of the IHRS, was present to join us for lunch and present The Founder's Award to Fred Prohl.

A lot of planning and hard, behind the scenes, work goes into our four yearly meetings. Even now, we are reserving the facility at Kokomo for next year. This year, I would like to thank Herman and Shirley Gross for making all the arrangements for this event even though they were unable to attend. They made arrangements for renting the facility and catering the meal. Fred Prohl was able to build upon the foundation laid by the Grosses and we had a successful meeting. In addition to these volunteers, we would like to extend our thanks to a number of members who helped make the meeting a success and an enjoyable experience for those who attended: Janet LaVelle, Dr. Ed Taylor and Bill Morris (registration table); Mike Feldt (policing of table registrations and providing an AM transmitter and programming); Alex Whitaker (contests); Bob Sands, Bill Smith and Bill Morris (contest judges); Fred and Andy Schultz and Bill Smith (table set up); Don Yost and Fred Prohl (silent auction) and Ed Dupart (technical seminar presentation). Again a heart felt thanks from me and all the members to these volunteers who helped all of us have a great time at the spring meeting. My apologies if I have omitted anyone from the list of invaluable helpers.

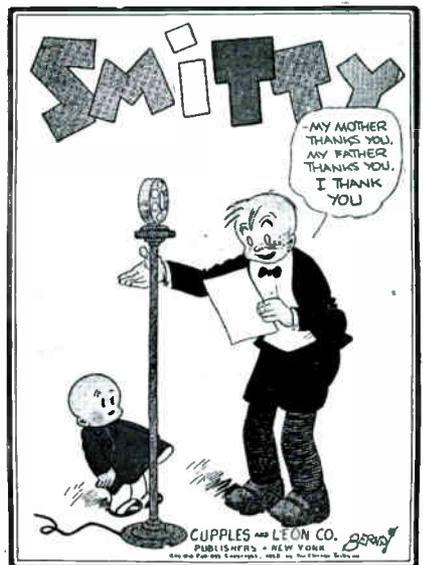
We did not have a large auction this year. Having an auction means that we need items to sell as well as a lot of help running the auction. If anyone has a large amount of radio-related material that they would like to

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## The cover:

*Smitty* was a popular comic strip drawn by Walter Berndt from 1922 to 1973. The 1928 cartoon as shown to the right was Photoshop adapted as a Bulletin cover thanks to those who volunteered to help at the 2007 IHRS Meet in Kokomo. And yes, there are two Ed's, two Bill's, and two Fred's.





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## 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](http://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.