



VOL. 22

MARCH 1993

NO. 1





Indiana Historical Radio Society  
BULLETIN

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The Indiana Historical Radio Society is a non-profit organization founded in 1971. Annual membership dues are \$10.00, which includes the quarterly *IHRS Bulletin*. Radioads are free to all members. Please include a S.A.S.E. when requesting information.

HAVE YOU READ?

by Ed Taylor D.Sc., E.E.



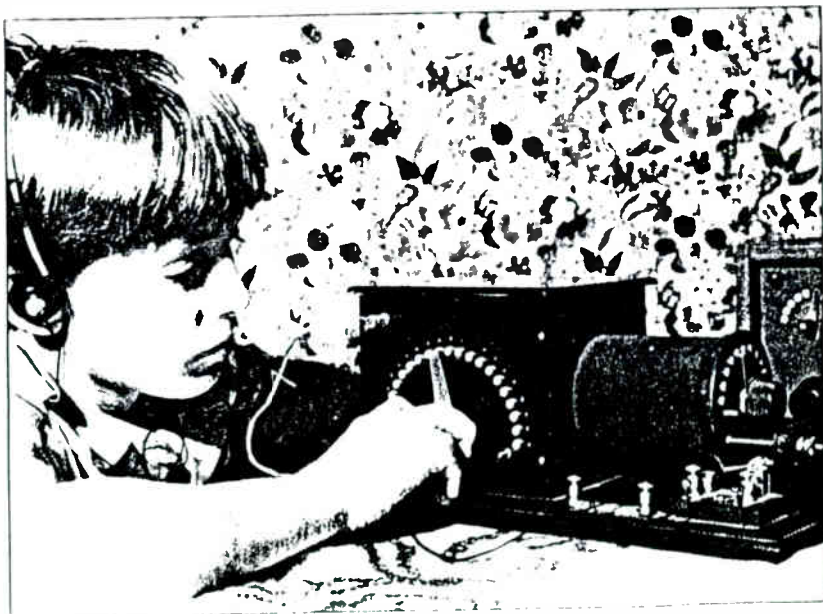
# RADIO

*Merit Badge Pamphlet*

BOY SCOUTS OF AMERICA 1989

This 72 page paperbound booklet, designed for Boy Scouts, will be of interest to anyone who is just starting in radio and collecting. It explains what radio is and how radio works. The basics are here on how to read schematic circuit diagrams and how to make solder connections. The many illustrations include: electronic symbols, the electromagnetic spectrum, waveforms, frequency charts, prosigns, "Q" signals, and a list of the shortwave bands.

Check with your Boy Scout supply division for copies of this manual which, at today's prices, is a bargain for just \$1.85.



## PRESIDENT'S MESSAGE

Dear IHRS Members and Friends,

The December Bulletin was very nice and its arrival in the midst of the Holiday Cards and invoices was a welcome break. I liked the whole issue but especially our son's excellent article on pages 12 and 13. Thanks to each of you who have contributed to the growth and quality of our Bulletin.

In this issue you will see and read a special article, which, with your support, will be an ongoing feature. Ross A. Smith, one of the Charter Members of IHRS, has served as Secretary, Vice President, and President for two years in each office, respectively. At present he is the Museum Coordinator, albeit the museum project is semi-active.

Your IHRS Board hopes you will enjoy this new feature and that you will submit your recommendation for the subject member to be recognized in future feature articles. Let your nominee be a member who has earned the spotlight for his or her contribution to further the aims and goals of IHRS. Your selectee submission may be made to the Editor or the President. Thanks in advance for any initiative you pursue in supporting this special recognition.

Inez and Bob Shuck co-chaired another well-attended winter meeting on February 20 in Indianapolis. Old-man-winter was out-foxed and we had a very gratifying turnout in spite of the potential of severe weather in February. The weather the week before or the week after would have been a hardship on the travelers from the eight or nine states that attended. Inez and Bob, may we come back again in '94, please?

Contest winners at Indy were:

Pete Yanczer, First Place with his  
Radio Shop "Leroy"

Frank Heathcote, Second Place with his  
Erla Clock

The Annual Spring Meeting plans are continuing. The fliers will be mailed to all members (paid or lapsed), to the multi-state mailing list updated from 1992, to additional prospective attenders on the list I have been feeding since April of last year, and to anyone who calls or writes for a flier. Have you a friend or prospective attender? Let me know asap.

Elsewhere in this Bulletin you will find a write-up about our May 21 Banquet Speaker. Yes, it is THE Durward Kirby of radio and television's finest days. Durward has been a member of IHRS for eight years and this will be his first opportunity to attend one of our meetings.

If you have questions with regard to the May meeting, and you just cannot wait until the flier is mailed, you may contact the appropriate Chairman with your question(s).

Herman Gross, Contest Chairman  
317/459-8308

Ty E. Gregory, Auction Chairman  
219/264-0257

Glenna Sanders, Registration Chairman  
812/877-2643

or feel free to call me at  
317/945-7735

Don and I are looking forward to seeing all of you in May.

*Mazilyn*

## ADDITIONAL INFORMATION

For IHRS Members and Friends  
Relative To The May 1993 Meeting

Durward Kirby, Indiana Historical Radio Society Member will be the guest speaker at IHRS' Banquet in May. In addition, Mr. Kirby has accepted an invitation to speak before the IHRS Members and the general public on Friday, May 21 afternoon. He will be accompanied by his wife of over fifty years, Mary Paxton "Pax" Kirby. She, too, is an author of a witty collection of prose and poetry: Jingles For The Jangled and A View From Under The Table. Copies of their books will be available and, of course, you may expect to receive the books personally autographed by Durward and Pax.

Reservations are required for the public presentation. Please be sure and mark your pre-registration form if you plan to attend Mr. Kirby's presentation. The May meeting flier will be sent directly to your home address. Seating will be limited.

Don and I sincerely hope you have already marked your calendars and reserved the dates of May 20, 21, and 22, 1993 for the IHRS/AWA REGIONAL TWENTY-SECOND ANNUAL SPRING MEET in Kokomo, Indiana.

BCNU



JUST RELEASED: DURWARD KIRBY'S AUTOBIOGRAPHY

MY LIFE...THOSE WONDERFUL YEARS I

The previously untold tales of comic Durward Kirby's rise to stardom on the "Garry Moore Show" are included in his just released autobiography. The book was promoted by Willard Scott on the "Today Show".

"Meeting up with Durward in 1940 in Chicago was the luckiest thing that ever happened to me in my professional life. He is a man who cannot only read a comedy line but he can read it funnier than it was written. He was the best co-star in comedy that Carol Burnett ever had.", said Garry Moore.

Durward's grandfather and father were born in Lebanon, Ohio and he was born in Covington, Kentucky. His boyhood adventures started on the banks of the Ohio River. He has fond memories of his part in top network shows in Indiana and Chicago. Every time he visits Elkhart, Indiana he enjoys eating at Das Dutchman Essenhaus.

Durward fell in love with radio during the early years of broadcasting. He was determined to become one of the nation's top announcers. And he definitely was one of them. His story rivals Mark Twain and Horatio Alger; it is the story of the development of commercial television, the excitement of auditions for shows and their sponsors, the behind-the-scenes activities, when an elevator might serve as a dressing room for quick changes. He shares bloopers and blunders and the challenge of live television.

o o o

You will want to plan to be there on Friday afternoon and evening.

*Merilyn J.*

1944 MEMORIES  
AT DELCO RADIO DIVISION, GMC  
Don K. Johnston

Leo Gibbs' article (Vol. 21, No. 1) brings to mind a similar experience I had during my early days at Delco Radio. I had received a medical discharge from the Air Corps in 1943 and had been called to Delco as a Lab Technician.

Delco, of course, had made a rapid transition from building auto radios to building military receivers and transmitters. Since this necessitated a completely new and different type of test apparatus, a separate department was formed to build test equipment. Even before the war, all of the equipment was very primitive by today's standards. All test positions were built by Delco and about the only exceptions noted were signal generators, volt ohm-milliam meters, and General Radio output meters.

One of my jobs was to test the large power transformers used in one of the transmitters. The termination of windings consisted of a small stiff wire through a glass insulator, which protruded about a half an inch. The terminals were fairly close together and was complicated by the fact that I had to clip two large battery clips to the terminals in order to apply high voltage between windings. This was a breakdown test to check the insulation between windings and case. As I recall, the voltage required was 6,000 volts dc.

For this test (Delco made, remember) the power supply used a variac to increase voltage, and a momentary switch you held down while applying the voltage. Very nervously, you watched the clips, fed by automobile plug wires--precariously fixed on the terminals--as you advanced the voltage.

Sure enough, one day, with the voltage approaching 4,500 volts and with the safety switch on, I noticed one of the clips starting to



pop off a terminal. Before I could take my hand off the safety switch, the positive clip jumped off and hit my thigh.

I came to later--several feet away--thanking my lucky stars it was dc instead of ac that got me.

The loose clip had burned a small hole through my trousers and shorts, leaving a puncture in my thigh (from which I obviously recovered). We certainly could have used OSHA in those days.

Another hazard that existed was RF. Being used to testing car radios, the women found it hard to believe RF could harm them as long as they did not touch a high voltage area. Many women had fingers that were literally cooked because of their disregard of this hazard.

On a lighter note! Directly across from our Lab on the aisle was a drinking fountain that had failed. The water was warm. This had been reported to maintenance for quite some time. No action had been taken. One day I walked over to the fountain and noticed a small chrome-plated chain fastened to a steel post beside the fountain. On the other end of the chain was a beautifully made clear plastic "ice" cube. A very nicely printed sign on the post read "For best results hold ice cube in mouth while drinking." The fountain was repaired the next day.

THOSE were the Good Old Days?

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WANTED: manuals and schematics for Hickok tube tester #KS 15560-L1, Advance Schools Signal Generator #1GB-102, and Eico Signal Tracer #147A. Jim McDowell, 8 Blanchel Terr., Jeffersonville, IN 47130, ph. 812-283-6387.

A LUCKY FIND  
Dave Mantor W90CM

I love ham fests. They are great places to find the special bargains you're looking for. They're also famous in allowing pieces of history to occasionally sneak onto a table somewhere. I love military gray with black pointer knobs or black crinkle finish. Such was the case several weeks ago at a small hamfest near Peru, Indiana. I passed the 10-B several times wondering about it but not asking the price. The owner finally asked me if I was interested. An offer was accepted and the old transmitter went home to Anderson.

A Central-Electronics 10-B exciter is an early example of SSB. In fact, Central-Electronics is considered by most to be the manufacturer of the earliest of commercially-built SSB transmitters; the 10-A being the first. The early advertisements of Central-Electronics equipment proclaimed, "Everybody wants Multiphase Equipment and for good reason." The versatility and all-band (10-160) operation of the 10-B added to the stable and well-engineered operation of the equipment. It offered 10 watts peak output on SSB, AM, PM, and CW with switch-controlled upper or lower sideband, VOX, a carrier level control, CW break-in operation and an accessory power socket (for VFOs and linears).

It was originally produced by Wes Schum in his basement in Chicago. Neighbors' garages were used to store materials. In spite of this humble beginning, Central-Electronics gained widespread popularity fast. Even Art Collins used a 10-A in his personal radio operation until his company was able to produce similar equipment. Central-Electronics would not be on a lasting list, however. They went the same direction as all of the early American radio manufacturers have gone. Even the new parent company of Zenith in 1961 could not prevent the eventual closing of Central-Electronics in early

1962. From the early 50s to that day in 1962, this company would produce a quality line of exciters and amplifiers that graced the radio room of many amateurs, and would command a decent price on the collectible market today. It would be interesting to see how many of the 'OTs' today can recall their roots of sideband operation starting in the C-E equipment of the 50s.

Comment: Dave is a brand new IHRS Member, who voluntarily submitted his personal "Lucky Find" article. He can be contacted at 2308 South Fairlawn Way, Anderson, Indiana 46011 (317/642-1103).

Thanks, Dave, for sharing. You've got a way with words. s/Editorial Staff

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# DUES!

DUES FOR MEMBERSHIP IN IHRS  
ARE PAYABLE BY THE YEAR  
--JANUARY 1 TO JANUARY 1--

IF YOUR MAILING ENVELOPE IS MARKED  
"DUES RENEWAL NOTICE"

OUR RECORDS SHOW THAT YOUR MEMBERSHIP HAS LAPSED

Please support the IHRS by paying your 1993 dues now. Make your check payable to the "Treasurer, IHRS", in the amount of \$10.00.

Mail it to Glenna Sanders,  
15 Rodd Drive  
Terre Haute, Indiana 47803

## Hugo Gernsback and the Metal Add-A-Tube

By George B. Clemans  
Bowling Green, Ohio

Here's another old radio "gadget" story. At a recent Hamvention I picked up something called a metal "Add-A-Tube." It was, as I suspected, yet another antenna tuner, eliminator, shortener or whatever that was advertised to improve reception immensely. The device was wrapped in several sheets of paper that I took to be its original operating instructions. The first sheet was indeed just that, but the next three were carbon copies of letters from Hugo Gernsback as editor of *Everyday Science and Mechanics* magazine to the manufacturer of Add-A-Tube, RE Engineers of Cincinnati, Ohio. The first letter, dated March 24, 1936, requested a sample for editorial review in a forthcoming issue of the magazine. At the bottom in red pencil was written in a large strong hand "F.U. 10D." This I take to be a note from Gernsback to his secretary that he wanted a follow up in ten days, and it may well be a sample of Gernsback's own handwriting. At the top, in a decidedly feminine hand, was written the date ten days from the date of the letter.

Apparently the request didn't work. A second letter (again marked F.U. etc.) indicates that the Add-A-Tube people thought he was soliciting advertising for his magazine, and they turned him down flat. He was not discouraged, however, and repeated his request. Again, no luck, for a third letter shows that, while they did indeed send an Add-A-Tube, they tried to charge him for it. He

refused to pay but made one last request for a free sample.

I can only surmise that Gernsback finally did get a sample, the very one I found. Perhaps, after reviewing it in his magazine, he let his secretary take the Add-A-Tube home with her to use. I would be interested to know if the review was ever written, but I don't have the issues of *Everyday Science and Mechanics* from the last half of 1936 when it would most likely have appeared. Perhaps an IHRS member can help out. The best I could do was take a picture of the Add-A-Tube and, thanks to Dr. Ed Taylor, find an ad for what appears to be a later model. In any case, the whole experience amounts to yet another example of old radio serendipity.

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February 19, 1993

Dear Marilyn and Don Johnston,

Thank you for the extra copy of Indiana Historical Radio Society Bulletin. I was very glad to receive it as my daughter wanted a copy. I surely miss my husband as we were married 57 years in Sept. 29, 1992, and he passed away December 1, 1992. We were always together, as my daughter lived in Fla. Wherever he went I went and he did not go if I could not go with him.

Thanks again for the Bulletin. I am enclosing a check for \$10.00 to the Bulletin for one year in memory of Alva.

Thank you.

Respectfully,

s/Kathryn Collins

# IHRS Member Recognition

## Childhood hobby spurs lifelong obsession for Elkhart radio buff

By Mark Huffman  
Staff Writer  
Senior Spotlight

The Paper's, Inc.  
Milford, Indiana  
August 1992

While Elkhart resident Ross Smith says, "I don't listen to the babble on radio much anymore," he still has fond thoughts of the medium that first brought entertainment into people's homes and told of news developments as they happened in the 1920's.

Memories of listening to the "Amos 'n' Andy Show" as a child still enter the mind of the man who first started doing "a bit of amateur work" on radios to earn merit badges as a Boy Scout.

That "amateur work" later inspired a move that would take Smith from the west side of Texas to Tri State College in Angola to study electronics. Eventually landing a job at CTS Corporation in Elkhart, Smith worked as an electrical engineer for 43 years and fine-tuned a hobby that would bring many others enjoyment.

His wife Wava Rose, whom he met in Angola, is one such person, starting a collection of novelty radios herself, such as the Oreo Cookie and Coca-Cola bottle radios that are able to relay musical tunes.

However, Ross prefers the more conventional types that radio inventor Guglielmo Marconi may have intended when he built his first model for sending telegraph signals in 1895.

"I suppose my favorites would be amateur receivers," Smith says, referring to such radio types as the Haliacraftor, built in Chicago, or the Atwater Kent. "I also like to build early replicas of DeForest equipment — the kinds you see in museums."

One such museum features some of Smith's radios. The CTS-Turner Museum, which is headed by the radio buff, also displays early CTS products and their applications in the radio and electronic industry.

Originally started as Chicago Telephone Supply Company in Chicago, expansion brought CTS to Elkhart in 1902.

Smith also oversees a display that had its first stay at the Indiana State Museum in 1972. "We went for one year, but the display was so popular that they kept us for three," he says.

The display then had a 14-year stay at the Auburn-Cord-Dusenburg Museum before moving to the Fulton County Round Barn for a temporary stay and to the Northern Indiana Historical Society in South Bend for one year. "Now we're looking for a new home," Smith says, noting that at least 12 members of the Indiana Historical Radio Society Club that he helped found in 1971 contribute to the display. "We try to get a display from the early years, from 1921 to the Golden Age of Radio in the 1930's and '40s."

Showing some of the radios found in his impressive display, Smith has a story to follow nearly each model. Such stories can often be found in his writings for the IHRS newsletter that goes to 45 members as far away as Pennsylvania. He has also written national articles about the history of transistor radio production. "I've written about transistor history in the U.S. before Japan took over and similar articles," he says.



**RADIO GURU** - Elkhart resident Ross Smith applies some finishing touches to a radio he is restoring. A charter member of the Indiana Historical Radio Society, Smith also belongs to two national clubs and has been fascinated by radios since he was a child.

Curator for the CTS-Turner Museum, Smith worked for the Elkhart firm as an electrical engineer for 43 years. *(Photo by Mark Huffman)*

However, Smith may get the most enjoyment from the work he does from his Elkhart home, bringing old radios back to life. "I like taking old, beat up, dead radios, taking the cabinet and refinishing it and restoring the circuit. You don't just rebuild — you restore the radio to play like it did when it was new," he says, noting that many members have utilized his services.

Getting many radio parts from swap meets throughout the U.S., Smith also benefits from membership in the Antique Wireless Association and is a charter member of the Antique Radio Club of America. He has been to England for two AWA radio meets.

Such club membership allows Smith to share radio stories and expertise. "It's not a real expensive hobby. Through 1930, Scott Radio in Chicago built the most expensive radio," Smith says, referring to a model that cost \$635 on the retail market at the time. "That was the same price as a Model A Ford, so they would only sell a few to rich people."

One such model is now a favorite in the Smith collection. An E.H. Scott receiver built in 1935, the radio has been restored to its original condition. "The chrome is still bright and the wood is shiny," Smith says proudly.

Another favorite radio has been in the Smith family since 1929. "My wife's folks bought it and I've restored it," he says, noting that the model has won various prizes in local, state and national contests.

A 1930s clock radio that won first place in an IHRS contest also has a story to follow it. "The Grandfather Clock style radios were only made for three years. They faded out in 1933 because of the Great Depression — people couldn't afford them," Smith says.

Taking eight to twelve hours to restore a radio to its new condition, Smith has even restored a phonograph that he and his wife bought when they were married. "I've rebuilt the speakers twice," he notes.

MSARC and SPARK co-sponsor  
IHRS endorsed  
MIDWEST RADIORAMA  
June 25 and 26, 1993

Budgetel Inn, 12150 Springfield Pike  
Springdale, Ohio (Northwest of Cincinnati)  
Exit 41 off I-275 North--a nice motel,  
reasonable rates, approx. \$39.00; coffee and  
continental breakfast in room. Large parking  
area, convenient location. Call 513/671-2300  
for reservations. Tour old 500,000 watt WLW  
XMTR. See Gray's Wireless Museum. Exhibit  
of Midwest-Made Radios. Call Harold  
Parshall for info: 513/298-4044. . .8:00  
a.m. to 4:00 p.m.

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This is to set the record straight, IF YOU  
HEARD A RUMOR that the Valparaiso Tech  
school had burned. It was the Chemistry  
Building at Valparaiso University that had  
the fire. It was not Valpo Tech, where IHRS  
had many very nice fall meetings. Arson is  
suspected. MBJ

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RADIOFEST 1993  
August 4 through 7  
Holiday Inn  
Elgin, Illinois

Large general auction, Contest, Special  
Exhibit, Donation Auction, Presentations,  
Hospitality Room, Awards Banquet, Muchow  
and Motorola Museum Tours, Open Air Flea  
Market--Contact JeffAulik, 1708 Parkview  
Ave., Rockford IL 61107 (815) 399-1902  
evenings or weekends.



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Marion Lambert Caperton, 68, of Glenview KY died Wednesday, December 16, 1992, in the Norton Hospital. She was a native of St. Louis and is survived by her husband, John Caperton II and her son, John Caperton III.

She was the former Marion Valle Turner and a member of Filson Club, River Valley Club and St. Francis in the Fields Episcopal Church.

Many of us remember Marion as being vivacious and devoted to her family. She was an indulgent hostess. Indiana Historical Radio Society friends extend their deepest sympathy and condolences to the husband and son.

Vera L. Hill, wife of IHRS member, Ray O. Hill of Beaver Falls, PA died Tuesday, February 2, 1993. During their 52 years as husband and wife, Ray and Vera shared a strong interest in antiques. Both were active members of the Little Beaver Historical Society.

Vera was employed as a registered nurse for 42 years. She spent most of her nursing career at the former Providence Hospital, Beaver Falls, PA.

Friends will remember her as one who extended genuine hospitality and kindness to others, as well as one who had a deep and loving concern for her family.

Philip Edward Abraham Miller (Abe), 51, died Friday, March 5, 1993 at the residence he shared with his parents, Lucy Anne and Robert F. Miller, 29846 CR 190, Fresno, Ohio 43824.

Miller was born in Akron on December 28, 1941 and attended Cuyahoga Falls schools where he was valedictorian of his class. He completed his studies at Massachusetts Institute of Technology in three years where he was class president and received the outstanding student award.

He received his master's degree from Harvard University while teaching at Simmons College and Harvard. He continued teaching at the University of Washington, Fairhaven College and Western Washington College. Medical disability ended his teaching career; he was engaged in writing a book at the time of his death.

In addition to his parents, Abe is survived by two sons, Christopher Philip Clough of Olympia WA and Darrell Edward Clough, Williams Air Force Base AZ; two brothers, Dr. Richard A. Miller of Glastonbury CT, and Steven W. Miller of Dearborn MI; one sister, Janet (Malcom E.) Sigmond, Indianapolis; an aunt, Willa Sargisson of Stevensville MT; one cousin, Karl Miller of Novi MI; four nieces and two nephews.

A memorial service was held Saturday, March 13 at the United Methodist Church, Keene OH 43828 with Pastor Fredric E. Jeans officiating. Memorial contributions may be made to the Abe Miller Memorial Scholarship Fund of Keene Church, Ohio, 43828.

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Indiana Historical Radio Society friends and members extend their very deepest sympathy to the family. Abe, his parents, and his brother-in-law are IHRS members. We shall miss you, Abe. IHRS made a memorial contribution.

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"Dear Don and Marilyn, I just wanted to let you know how much I enjoyed the 1992 Kokomo meeting. I didn't mind parking on the grass, which was a lot cooler than the gravel. I, for one, appreciate the amount of time you expended to make the meeting a success since I periodically get stuck with arranging medical meetings at I.U. I hope that we have next year's meeting at the same location and I certainly plan on attending."

Thanks, Dr. Clark, for your kind words and for your support. Don and Marilyn Johnston

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"Dear Glenna, Enclosed is a check for my 1993 membership dues. Also, I would like to say I have certainly enjoyed my first yr. in the I.H.R.S. I have met a lot of nice people who share my interest in Antique Radios as well as made a lot of parts and information available, which I never had before. Thanks again. s/Terry L. Ernsberger"

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"Most all of the Antique Radio Hobbyists here in southern Ohio plan to attend your up-coming meet.... The feeling in general is that the IHRS is one of the finest clubs in the nation and sponsors some of the finest meets although not necessarily the largest. We feel this is due to the overall spirit of your organization-- that is to aid everyone in the pursuit of a hobby in a friendly and unselfish manner. We hope our clubs follow in your footsteps.

Bob Sands, Chairman Midwest Radiorama  
MSARC and SPARK co-sponsors

## "I'M ALL TUNED UP AND WAITING"

Saturday morning at the Flea Market is about over. A second trip around the booths still failed to produce anything radio related that was worth considering. Time to check out the Post Cards! Yes, I know, it's time consuming, the wife is waiting, and the back hurts, but the reward can be the pure pleasure of finding a dollar item that tells a story about radio in the 20's. The message of the little girl pictured on the Summer 1992 Bulletin cover (FP) is not just "Wonder when I'm going to hear something? I'm all tuned up and waiting!" It's a message that radio was a topic of conversation and totally safe and acceptable for all ages. The cover of this Bulletin (ET) depicts a piano teacher listening to the radio in a vain attempt to remove himself from the clatter of his student. This card delivers the message that radio is a great way to escape the noise and frustration of the world around us. The Winter 1991 issue of the IHRS Bulletin (ET) shows a radio listener tuned in on a cold late night - with the punch line "I have'nt got Europe yet, but I often get Chili" The pun is a typical play on words found on radio related postcards of the 1920's. Many times the punch line exercised the new radio vocabulary and related to everyday life. The *Grid Leak* and a broken booze bottle or the *Loud Speaker* and a noisy wife frequently show up on comic post cards (as well as in news print comics).

An artist was not always identified with a comic card but many of the post cards published by Bamforth Company were drawn by popular artist D. Tempest. Tempest did the artwork for many other comic cards with topics other than radio. The cards shown are labeled with printer, artist, and collector's initials. Four collectors, George and Edna Clemans (G&EC), Dr. Ed Taylor (ET), and Fred Prohl (FP), contributed copies of their cards.

*Fred Prohl, Columbus Ohio*

PS - Some post card dealers provide chairs to sit while you search, what better way to relax the back and continue the adventure!

ALL STATIONS SEEM TO HAVE CLOSED DOWN...  
MUSHT BE LATER THAN I THOUGHT!



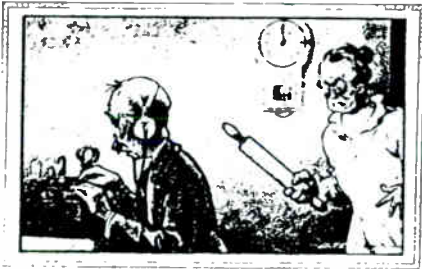
Bamforth, Radio Comic  
D Tempest, #1900 (ET)

ARE YOU SURE YOU SWITCHED THE RADIO OFF, JOHN?



Bamforth, Radio Comic  
D Tempest, #16-X (G&E)

JUST A MINUTE, MARY... I'M SURE I'M GOING TO GET  
SOMETHING IN A SECOND!



Bamforth, Radio Comic  
#6044 D Tempest (FP)

THREE YELL SET, GUARANTEED TO GIVE  
ALL THE VOLUME YOU REQUIRE!



Bamforth, Radio Comic  
#3 D Tempest (G&E)

"I THINK WE OUGHT TO HAVE A LOUD  
SPEAKER, JOHN!"  
"WHY... ARE YOU THINKING OF GIVING  
UP, DEAR?"



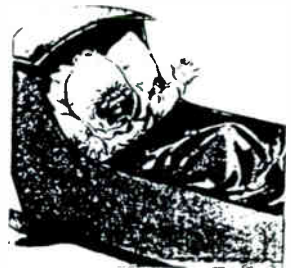
Bamforth, Radio Comic  
#508 D Tempest (G&E)

A RADIO SET WOULD JUST SUIT YOU.  
YOU KNOW THOSE LONG DREARY EVEN-  
INGS WHEN THE WIFE'S OUT!



Bamforth, Radio Comic  
#511 D Tempest (FP)

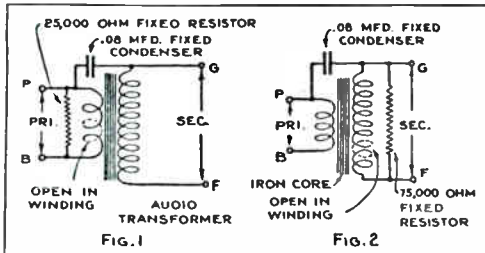
WAIT TILL YOU GET A  
BROADCASTING STATION LIKE  
THIS YOU WON'T HAVE TIME TO  
LISTEN IN TO ANYTHING ELSE!



Bamforth, Radio Comic  
#1332 D Tempest (G&E)

### Audio Transformers Quickly Repaired

When the receiver goes dead and a continuity check, made with a lamp or meter in series with a battery, shows an open primary or secondary winding, the first thought is a new transformer. Suitable replacement transformers are not always available, but a satisfactory repair may be made quickly with the fixed resistors and condensers inserted in the circuit as shown. In Fig. 1 the open primary is shunted with a 25,000-ohm resistor. The same idea applies to the open secondary in Fig. 2, but the resistor value should be 75,000 ohms.



Temporary Repairs for Open Windings in Audio Transformers



The United States has more radios than any other country in the world.

James A. Smith, 809 W. Commercial Street, Hartford City, IN has retired from his radio-TV business. He invites members of IHRS to visit his shop and buy his equipment. Call 317-348-1239 for an appointment.



FOR SALE: Knight Star Roamer, near mint, \$30.00; Radiola IIIA misc. parts, good panel & cabinet, sockets, 2 open audios, good output trans., coil, but rusty shafts and bracket, plus battery cable, \$25.00; General Radio #1740 Wave meter less cabinet but complete with xtal detector & galvanometer, good shape but working condition unknown, \$17.50, all ppd. WANTED: cabinet for 14 X 17 inch panel. George Hausske, 1922 E. Indiana St., Wheaton, IL 60187, ph. 708-668-3845.

WANTED: need a dynamic speaker with an 1800 ohm field coil, speaker mounting holes are 6 3/16 inch on center. John Bolinger, 215 Fairfield Ave., Michigan City, IN 46360, ph. 219-872-6468.

FOR SALE: Magnavox AC-3, CRL, Zenith 1-R, CRL, Zenith 2M amo., AK 10 (4560) and Riders 1-15. Will take to Elgin to see and pickup. David Varnum, 1115 W. 4th Ave. , RR 3, Belleville, IL 62223, ph. 618-234-3810.

FOR SALE: 84,000 pretested radio tubes. Partial list FREE. D & L Electronics, 1117 175th St., Hammond, IN 46324, ph. 219-932-6637.

## RADIOADS Continued

WANTED: Schematic diagram and, if available, operation manual for Executone audio amplifier model P-14. Max A. FRETZ, #@# Field St., Fort Wayne, IN 46805, ph. 219-483-5223.

TRADE: model 128 RCA tombstone, good shape, plays good, will trade for Majestic "Century Six" or other Deco radios. Tom Brown, 14826 Hickory Rd., Argos, IN 46501, ph. 219-892-6326.

WANTED: cabinets for the following sets: AK 19, 447, 711; Philco 37-690, 45W converter, and RCA 140. FOR SALE: SASE for multi-page list of items for sale. Allen Jochem, 2205 Broadway, Quincy, IL 62301 ph. 217-223-6751.

FOR SALE: "MY Life, Those Wonderful Years!" 256 pages, hardcover, 16 pages of photographs. Autobiography, early radio days through the Golden days of TV. Stories of stars, behind the scenes. At your local book store; Tabby House Books; or call 1-800-444-2524. Durward Kirby, 1290 Isabel DR., Sanibel, FL 33957.

WANTED: Philco table model #90 and Philco table model #70. Must be in good working condition. Mark Franklin, 4428 Spurrier Road, Big Clifty, KY 47212, ph. 502-242-9275.

WANTED: auto radio model P-1535 (Philco) for 1938 Packard, also need control head or box with speaker. Arlo Brakel, 201 Deer Meadow, Gahanna, OH 43230, ph. 614-337-1707.



## RADIOADS Continued

FOR SALE: bright red AU190 Emerson Catalin for best offer. Send \$2.00 for set of photos. No chips or cracks, original condition (unpolished). Plays good. Line cord frayed, but works. Will not ship but can bring to most radio meets within 500 miles of Buffalo, NY. Larry Babcock, 8095 Center Lane, E. Amherst, NY 14051, ph. 716-741-3082.

TRADE: Atwater Kent breadboard parts for Regency TR-! transistor pocket radio. Prefer Ivory color. Jerald Hueber, 1368 King Richard Pkwy., W. Carrollton, OH 45449, ph. 513-866-6958.

WANTED: Doron Brothers Electric Co., Hamilton, OH wireless equipment, catalogs or any information. Charles Stinger, 404 Ross Ave., Hamilton, OH 45013, ph. 513-867-0079.

FOR SALE: quantity of early radio and electrical books plus miscellaneous radio gear. Send SASE for list. Don K. Johnston, R 1, Box 218A, Windfall, IN 46076, ph. 317-945-7735.

WANTED: audio transformer (interstage) for Tuska model 225, dial scale and speaker for Crosley model 58, antenna coil for Zenith chassis 10B1, knob and door pulls for Zenith model 52 console, tubes: two 45's and three 27's in either baloon or ST shape. Alex R. Whitaker, 426 Whiteland Rd., Apt. A, Whiteland, IN 46184, ph. 317-535-4174.

## RADIOADS Continued

WANTED: clean, unaltered and operational Collins 310B-1, RME 69, and RME 99, all with manuals. Martin Piepenburg, R 1, Box 56B, Monterey, IN 46960.

FOR SALE: 15 console radios, most are late 40's, some 30's, and a few 50's \$23.00 each if you buy all for \$345.00. If you want to cherry pick, they are \$15.00 to \$50.00 each. All need some work on cabinet or chassis. Western Electric upright telephone exchange with side wiring box, wood in good condition, plugs had cables cut, \$100.00. Extra large disc power supply, \$20.00. About 15 console TV's, most early 50's thru 60's, both color & B&W. Good source of transformers for power supplies, etc. \$10.00 per pick up truck load, \$25.00 for all Glenn Fitch, ph. 317-565-6811.

WANTED: Grebe Schronphase parts, ie, audio transformers, knobs, chassis, cabinets, etc. Fred Schultz, 1246 Lincolnway S., Ligonier, IN 46767, ph. 219-894-3799.

WANTED: cabinet and speaker for Stromberg-Carlson "Triple-Range" magic eye receiver. Round dial, 4 knobs, chassis 13½ X 7½. Jerry Webb, 647 Spring Mill Lane, Indianapolis, IN 46260, ph. 317-257-1704.

I NEED manuals for capacitor analyzers as follows: Sprague Telo-mike TO-5 and Jackson 650-A. Copies are fine. FOR SALE: Rider Manuals 1 to 5 abridged and 6, 7, 8, 9, 10, 11 and extra 11 and 14, and Sams #1 to #90 in order and extra 317 folder. Selling in two lots, Riders \$125.00, Sams \$60.00 all plus shipping. Loren Willis, Box 282-301 So. Plum, Farmland, IN 47340, ph. 317-468-7437 until 9 PM.

## RADIOADS Continued

FOR SALE: Western Electric transmitting tubes, 701-A's in their original packing, 6 tubes available. Black panel 24" X 7", 3/16" thick with gold screening intact, Logo on right side, BROWING-DRAKE NATIONAL. This panel is drilled, and all control holes are labelled. Fred A. Linn, 5608 Edgewater DR., Cedarburg, WI 53012, ph 414-377-3280.

WANTED: schematic for Zenith Royal 880, Sams TSM31 or Sams Transistor manual #31. Ross Smith, 1133 Strong Ave., Elkhart, IN 46514, ph. 219-295-7770.

FOR SALE or TRADE: 1929 General Motors console radio, plays good, will trade for old battery radios, horn speakers, or novelty radios of equal value, pick up only. Larry Chambers, 5026 Suter Drive, Nashville, TN 37211, ph., 615-255-8606.

WANTED: Scott radios, literature, parts, and parts sets. Restoration services and help available. Member of ESHS. Kent King, 337 York Ave., Delaware, OH 43015, ph. 614-363-0445.

FOR SALE: two Mini fone wire recorders made in Nazi Germany and sold in America after the war by West Germany as dictating machines, etc. One is operational and the other needs a belt drive. Comes with various equipment including a tie bar mike. A very rare find for a collector, \$1200.00 for the pair. Alleged to be the very same type Hitler used for dictation. Lee Buslik, 3200 N lake Shore DRive, #2205, Chicago IL 60657, ph. 312-549-7445.

**RADIO COMICS - Six of Twelve Designs**



**COMIC RADIO POST CARDS**

The above mid 20's Post Cards represent six of twelve designs from one printer - simply titled "Radio Comic". Only one of the six (the Grid Leak) is identified with "Series No. 489 Radio Comics 12 Designs". None of the above series record an artist or publisher.

The Post Cards on the back cover are all printed by Bamforth Company. Several are signed by D Tempest. This artist's work was not limited to radio but designed a wide variety of themes for post cards.

The Bulletin's cover picture is an enlargement of a Bamforth Kid Comic number 671.