

Indiana Historical Radio Society  
**BULLETIN**

VOL. 20

SPRING

NO. 1





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\* IHRS IS A NON-PROFIT ORGANIZATION FOUNDED IN 1971. ANNUAL MEMBERSHIP DUES ARE \$8.00 WHICH INCLUDES QUARTERLY IHRS BULLETIN. RADIOADS ARE FREE TO ALL MEMBERS. (PLEASE INCLUDE S.A.S.E. WHEN REQUESTING INFORMATION)

COVER: NOVEMBER 1922 COVER OF POPULAR SCIENCE MONTHLY

WHAT WERE RADIOS SELLING FOR IN 1981? BELOW IS REPRINTED THE RESULTS OF ONE EAST COAST RADIO AUCTION FROM 1981:

(f) Fair, (g) Good, (vg) Very Good, (e) Excellent. All sets without tubes unless noted as "w/t".

AK-10 (g)\$240., AK-10 (e)(w/t)\$420, AK-20 (e) \$49, AK-30 (g)(w/t)\$30, AK-33 (e)(w/t) \$35, AK-35 (vg)\$35, AK-37 (w/t)(g) \$35. AK-43 (w/spkr)(g)\$40, AK-44(w/spkr/t) (e)\$41, AK-84 (w/t)(g)\$95, Radiola II (w/t)(e)\$185, Rad. 20(e)\$95, Rad. V (w/t) (e)\$410, Rad. 60 (w/t/spkr)(e)\$75, Rad. V (w/t)(g)\$150, Rad. III w/bal. amp (g)\$90. RCA Mod. 60(f)\$25, Crosley 124 (w/t)(g) \$50, Ace (w/t)(g)\$100, NR6 (w/t)(vg)\$50. NR5 (e)\$42, Radiola 17 (w/t)(g) \$47, Grebe CR-18 (g)\$200, CR-9 (e)\$360, RA tuner (e)\$75, RADA (w/t)(g)\$100, Aeriola Sr. (w/t)(g)\$100, Tuska 224 (vg)\$185, Supertone (g)\$40, Fada 6 (f)\$30, Kennedy 110 (g)(needs re-wiring)\$760, Kennedy 220 (w/t)(vg)\$850, WE 4D (w/t)(vg) \$360, WE 4B & 2B (w/t)(g) \$450, Pup (w/t) (e) \$185, Pup (g) \$155, XL-25 (g) \$65, De Forest 9-panel (g)\$660, DeForest D-12 w/loop/t (g) \$150, Fada 7 (g)\$39, Westinghouse RC (e)\$130, Fresh. Masterpiece (w/t)(vg)\$45, Sleeper 5-tube (w/t/spkr) \$105, Roberts Reflex (w/t)\$45, Magnavox AC-2 w/amp (e)\$255, Sparton 6-66A (g) \$5. Philco 37-61 (g)\$50, Sentinel Book radio (w/t)(g)\$60, Bottle radio (w/t)(f) \$35, Clock radio (e)\$90, Halli. 538D (e) \$35, Halli. S-11 Super Skyrider (e) \$155, SW-3 (w/t)(g)\$85, Nat. 1-10 (g)\$70, Super-Pro (w/t)(g) \$40, Lamp radio(f) \$200. Zenith 10-tube table (f)\$30, RCA/Victor Mod. 118 (w/t)(e)\$40, Stewart-Warner 140 (w/t)(g)\$25, Crosley AC consollette Mod. 801 (e)\$80, Philco w/clock Mod. 51 (vg)\$270, WE7-A, 2A pwr, 10-D horn (w/t)(g)\$150, Erla (g)\$40.

#### CRYSTAL SETS:

DeForest Mod. 600 (g) \$200, Junior Grand xtal set (g)\$200, Homemade coupler (e) \$60, Aeriola Jr. (g) \$150, Clapp-Eastham pre-WWI swing-arm slider type coupler (vg)\$275.

#### LOUDSPEAKERS:

AK Mod. E (g) \$20, Crosley Dynacone Mod. F (g) \$30, RCA 106 w/pwr supply (vg) \$85, Tower Ship spkr (g) \$60, Splitdorf Mod. D (e) \$55, Magnavox R-3 (e)\$65, WE 3A horn & 551 driver (e) \$55, WE 10D horn (e) \$52, Dictagraph horn (e) \$65, Bristol horn (g) (92, RCA 100A (g)\$20, Pacent cone (vg): \$40, W. E. cone (e) \$55. Burns horn \$150

#### TUBES:

Kino-lamp (g) \$42, DeForest tubular T (vg) \$85, WWI CG-1162 (g) \$25, rare developmental UV-199 (g) \$44, Emerson multi-valve (g) \$55, 204A (open fila.) \$15, 831 & 861 tubes (g) \$55, UV-876 & UV-886 tubes (g) \$17.

#### MISCELLANEOUS:

Magneto tele. ringer (vg) \$25, 330 issues of Radio News/Radio Craft, etc. \$125, GR Type 213 aud. osc. \$25, GR Type 358 wavemeter \$30, 1/2 kw spark xmtr w/Thordar. xmfr. \$165, Weston 676 tube tester (g) \$20, Silvertone wire recorder (f) \$10, Webster wire recorder (g) \$45, Jackson #115 tube tester \$20, Jackson 441-B sig. gen \$15, Cent. Scientific tangent galvanometer (e) \$148, Hewlett-Packard VTVM 400 (g) \$15, Instrograph (e) \$20, Riders X & IX \$10, Mathiesen loop antenna in orig. box \$130, Omni-graph (vg) \$85, Crosley adver. sign (f) \$75, WE port. telephone (g) \$50, Baldwin phones (g) \$12, Cunningham adver. sign (g) \$160, DeForest catalog No. E (g) \$30, Riders I thru XIV (f) \$60.

#### COMMENTS:

Obviously, all sales are not listed. It was surprising the number of items not sold either through lack of interest or owner had too high "minimum bid". In spite of this, total sales reached an all-time high. The auctioneering committee are to be congratulated for their excellent teamwork and Bruce Rolosen for his nearly 4 hours of fast-paced auctioneering! Statistics: There were 242 bidders and 71 sellers, 255 items up for sale (not all were up to bid due to lack of time). Thanks for your help... Museum Maintenance Fund Committee.

TWENTY YEARS! \*\*\*\*\* ANNIVERSARY \*\*\*\*\* TWENTY YEARS!

ALTHOUGH OUR "OFFICIAL" BIRTHDAY ISN'T UNTIL OCTOBER, THE JOINT IHRS/AWA MEET IN KOKOMO MAY 3 AND 4 WILL GIVE US THE OPPORTUNITY TO CELEBRATE THE BIRTH OF OUR ORGANIZATION WITH OUR AWA FRIENDS! OUR ASSOCIATION WITH AWA HAS BEEN VERY CLOSE SINCE THE FIRST DAY.

IN OCTOBER 1971 THE INDIANA HISTORICAL RADIO SOCIETY FORMALLY ORGANIZED AT THE YMCA IN PERU, INDIANA. THE ORIGINAL FOUNDERS OF IHRS WILL ALL RECEIVE AN OFFICIAL INVITATION TO ATTEND THIS YEAR'S SPRING MEET. PLEASE MAKE IT A POINT TO ATTEND, AND PERSONALLY THANK EACH OF THESE PIONEERS IN PERSON, FOR CREATING OUR GREAT ORGANIZATION!!!



THE FOUNDING FATHERS OF IHRS L. TO R. DON JOHNSTON, JIM THOMAS, JIM FRED, ED TAYLOR, JOHN NOBLE(D), SERGE KRAUSS, JOE DURAY, JULIAN STARK, WARREN JOHNSON, ROSS SMITH, DEL BARRETT, AND GARY VIERK. MARSHALL HOWENSTEIN TOOK THE PHOTOGRAPH

# ARMY COOKS

*Stir up*  
**GOOD  
RECEPTION!**



**I**n the Army, the Navy, or wherever you are you can stir up good reception with a Hallicrafters Sky Traveler. Here is a portable that has been designed for real communications performance. Nine tubes, 1.1 volt tubes used throughout, 4 bands, covers 550 kc. to 30.5 mc. electrical bandspread, self-contained collapsible antenna extends to nearly 3 feet, battery life prolonged through a self-contained charging circuit,

automatic noise limiter, an RF stage used on all bands, sensitivity below two microvolts on all bands, high gain antenna coupling circuit for maximum antenna energy transfer, permeability tuned RF and IF circuits. The Sky Traveler has all the essential controls, operates on either 110/125 volts AC or DC or from its self-contained batteries. Cabinet dimensions 7"x8½"x12¼". Model S-29 The Sky Traveler \$69.50.

the hallicrafters co.  
CHICAGO, U. S. A.

USED BY 33 GOVERNMENTS ★ SOLD IN 89 COUNTRIES



December 8, 1941

NOTICE TO ALL AMATEUR LICENSEES

THE lightning has struck and we are at war with Germany as the May, 1917, *QST* appears: "War has come to our good old Star Spangled Banner, and all the sacrifices we have dimly dreamed in the past are now up to us to make." By presidential authority, the Navy's District Communication Superintendents have ordered the immediate closing of all stations, both transmitting and receiving; antennas lowered, apparatus disconnected from aerial and ground and otherwise rendered inoperative. The League has placed its services and resources at the disposition of the government. All amateur traffic is halted where it happened to be. The League's president and general manager have been called into consultation to help secure both operators and apparatus, and members are asked to "Step up promptly and get into the game with the spirit and snap for which the ARRL is famous. If we cannot work our own stations, we can easily enough work one of Uncle Sam's." Meanwhile the Editor tentatively drops *QST* to 48 pages to offset the temporary decrease in revenue, because many advertisers cannot continue.

The League is three years old, had grown lustily, and on the very eve of war has perfected its national organization with the help of many of the best-known amateurs of the country. The first formal constitution has been adopted on February 28th. H. P. Maxim, 1ZM, and C. D. Tuska, 1ZT, continue as president and secretary, respectively. A. A. Hebert, 2ZH, has been elected vice-president and general manager, and C. R. Runyon, Jr., 2ZS, is the treasurer. Directors already elected consist, in addition, of I. O. Smith, 2ZL; R. H. G. Mathews, 9ZN; J. C. Cooper, Jr.; F. M. Corlett, 5ZC; W. H. Smith, 9ZF; H. C. Seefred, 6EA; V. E. Camp, 2RL; H. L. Stanley, 2FS; W. T. Fraser, SVX; W. T. Gravely, 3RO; Theodore E. Gaty and Miller Reese Hutchinson with others yet to be elected from large centers. League divisions appear for the first time, six of them, with division managers to supersede the old trunkline managers: Atlantic Division, J. O. Smith, division manager; East Gulf, J. C. Cooper, jr.; Central, Ralph Mathews; West Gulf, Frank Corlett; Rocky Mountain, W. H. Smith; Pacific, H. C. Seefred. The division managers appoint district superintendents and the latter appoint assistants, the whole constituting an operating department covering the country. The management of such operations is in the hands of General Manager Hebert, with offices in New York, while *QST* continues to be published at Hartford. The dues have been set at \$2 and now include *QST*.

All amateur licensees are hereby notified that the Commission has ordered the immediate suspension of all amateur radio operation in the continental United States, its territories and possessions. Under this action all amateur radio operation in the continental United States, its territories and possessions is prohibited until further notice. In any instances where amateur radio operation is deemed to be required in connection with the national defense, appropriate authorization to engage in such operation will be issued but only upon application by a duly authorized federal, state, or local official made to the Defense Communications Board.

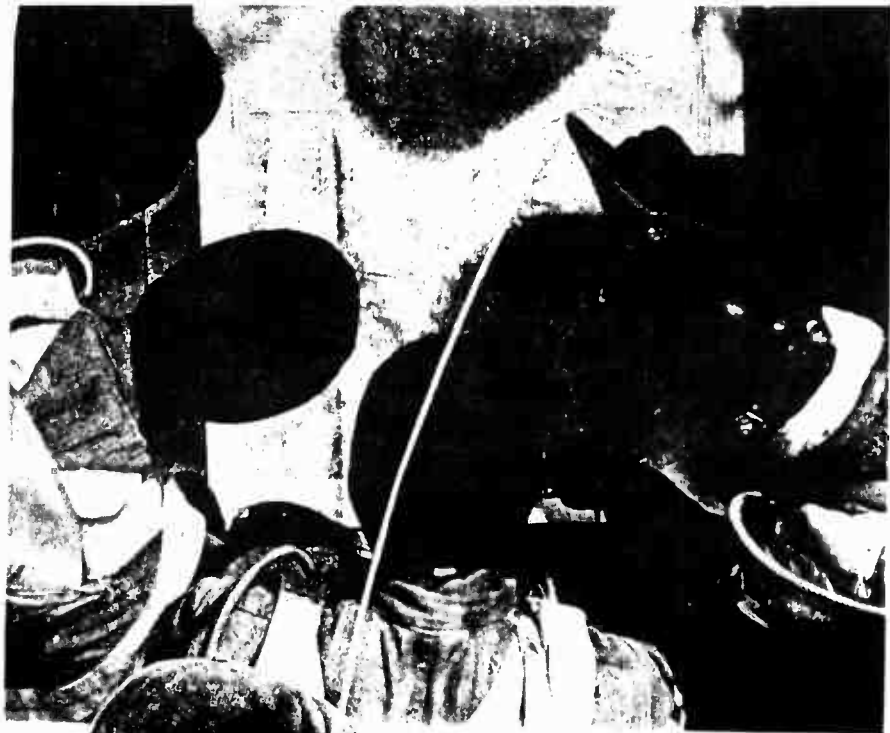
AS THESE ARTICLES ATTEST, WAR HAS AFFECTED RADIO IN THE PAST! RECENT EVENTS IN THE GULF HAVE BEEN SAID TO HAVE CONTRIBUTED TO A PHENOMINAL GROWTH IN SHORT WAVE RECEIVER SALES. (ED.)

## Radio Spy Sentenced

W. A. Schuler of San Francisco pleaded guilty on May 14th to the charge of transmitting information for a foreign government over a West Coast commercial press station at which he was an operator. The message he sent contained supposedly vital information on Pacific Coast defenses, and was given to him by an FBI agent who posed as an enemy alien. Schuler sent the information by shifting slightly the frequency of the transmitter he was operating to a nearby designated spot, on which he had previously made other unauthorized transmissions. He was to have received \$75 payment from the foreign government for which he thought he was working.

The FCC on May 26th issued an order revoking for life Schuler's commercial operator license, as well as both his amateur station and operator's licenses. Three days later a Los Angeles Federal Court sentenced him to six years' imprisonment, an extremely light penalty in view of the magnitude of the offense.

Schuler utilized neither his amateur station (W6NYI) nor his former amateur operator privileges in committing his act, so there is no resultant black mark on amateur radio's record. But let this stand as another warning to hams to take extreme care in our conduct with respect to our government and its wartime regulations.



## *Following Through...*

**P**LANNING, action, and follow-through—the military strategists' all-important steps to Victory.

The Thordarson organization employs these same principles in helping you work out your transformer problems. Experienced engineers, skilled technicians, and seasoned production experts combine to give you the transformers you want when you want them.

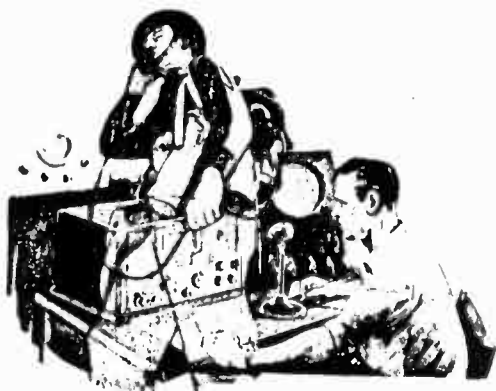
# THORDARSON

ELECTRIC MFG. COMPANY  
500 WEST HURON STREET, CHICAGO, ILL.

Official Photographs  
U. S. Marine Corps.

*Transformer Specialists Since 1895*

# These ARE OUR FRIENDS



• Fifteen thousand licensed amateurs, who long have practiced radio communication as a hobby, are now contributing of their ability and experience in the military services. Additional thousands of civilian status are in government agencies, research and development laboratories and the manufacturing industry, all geared to the job of winning the war. These are our friends . . . men, yes and women, too . . . who have used and enjoyed Astatic products and who . . . when returning to peacetime pursuits, will again engage with new zeal and enthusiasm in their favorite pastime.

## ASTATIC

SEE YOUR RADIO  
PARTS JOBBER

### THE ASTATIC CORPORATION

YOUNGSTOWN, OHIO

Licensed Under Brush  
Development Co. Patents

In Canada  
Canadian Astatic Ltd  
Toronto, Ontario



# On Duty!

After the curtailment of amateur activity we visioned a limited demand for Meissner Signal Shifters . . . we overlooked the very important fact that the amateur operators of yesterday would become the war time communications officers and technicians of today!



# RADIO SERVICE MEN WANTED

## ZENITH RADIO CORPORATION

— 8001 DICKENS AVENUE —  
CHICAGO

OFFICE OF  
E. F. McDONALD, JR.  
PRESIDENT

To Radio Amateurs:

The government has said "No more civilian radio after April 22nd." Defense comes first - and we are glad and eager to do our share.

But if free America is to keep an ear on the air, thousands of radio sets now in use must be kept in tip-top shape and men must be found to do it.

For the Army and Navy are taking experienced radio service experts away from the radio industry faster than new ones can be found.

This condition makes a wonderful opportunity for amateurs ambitious to land a service position.

Good pay, a good job, await you if you can qualify to replace one of these men.

Then, if you remain a civilian, you have an assured profession. If you go into military service, your specialized training and higher rating should get you more money.

The history of you "hams" shows it was YOU who discovered the great radio inventions. Manufacturers came along later and merely refined them.

I feel the radio business at this time has a real use for the ambition, initiative and inventive genius of the American "ham". He can serve in an important way, as he has in other great emergencies.

On the opposite page is a list of Zenith distributors by cities. Why not drop the nearest one a line today, telling him you're interested in becoming a ZENITH SERVICE MAN.

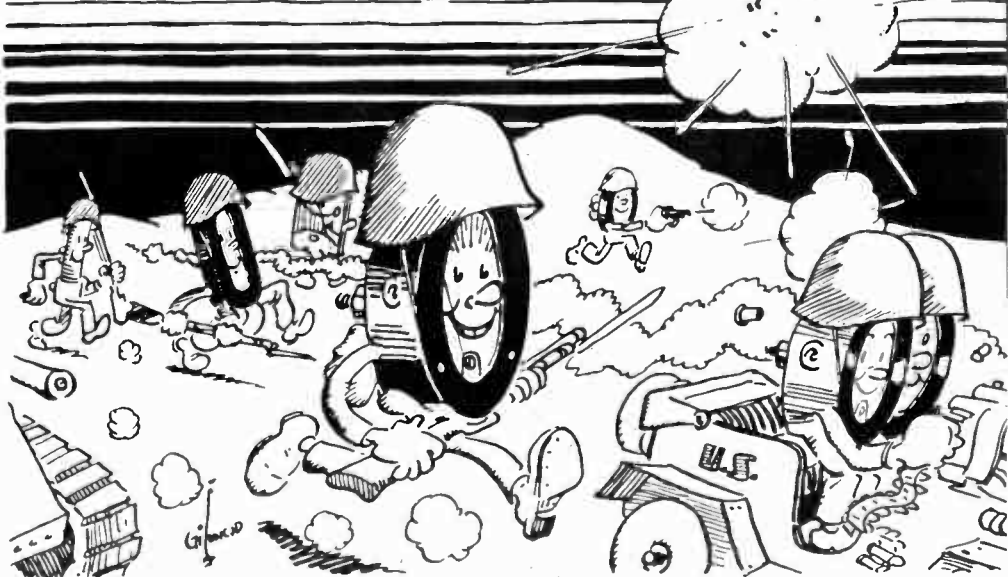
Your letter will be expected. If you have ability, and know the "insides" of a radio, you may be the man for one of these jobs.

Sincerely,

*E. F. McDonald, Jr.*  
E. F. McDonald, Jr.

FFN/p

# SEND YOUR METERS TO WAR!



## HELP THE WAR EFFORT AND GET MORE MONEY FOR WAR BONDS

Raytheon is building laboratory and production equipment for high-frequency applications in the war program. This requires a tremendous amount of gear. Meters and other parts that are now lying idle in ham shacks can and should be used to release priority instruments for use strictly in government equipments. If you have any 3" or larger, d.c. or thermocouple milliammeters, ammeters, or voltmeters; mica condensers (5000-volt d.c. or higher) or wire-wound resistors (25-watt or higher), put them to work now by selling them to Raytheon. Raytheon will pay regular amateur net prices for equipment in working condition. Send us a postcard to-day, addressed to Dept. 1, listing manufacturers' names, ratings and type numbers. We'll do the rest. *Speed is important.*

*Dear Oms - We can't tell you how important this is - take my word for it. Rush the dope on what you have - address to my attention.*

*M. P. Mims W5BDB*

**RAYTHEON MANUFACTURING COMPANY**

**PLAN TO ATTEND**  
**6th Annual**  
**USATVS ATV WORKSHOP SESSION #1**  
**"Early TV & Radio" Night**  
**April 26th 1991**

**RAMADA INN NORTH**  
**(I-70/I-75) Little York Road Exit**  
**Dayton, Ohio HAMVENTION Weekend**  
**Ramada Room Reservations: (513) 890-9500**

**Scheduled Speakers:**

**Peter Yanczer K0WX - TELSAs Publications - Peter Yanczer, author of THE MECHANICS OF TELEVISION book (see Ad) is very well known and respected around the country for putting on one of the best "Early Mechanical TV" talks and actual demonstrations! He will bring with him from the St. Louis area, actual 1920-1930 era TV transmit equipment including Scanning Disk and Mirror Image Projection Systems. He will even be bringing one of the "original" FELIX the CAT dolls used by early commercial TV broadcasters!**

**James Hawes KB9EPQ - Skokie, Illinois - Jim Hawes, our new "Early TV & Radio" columnist, is an avid collector and student of Antique Radio & TV equipment and operating practices. As a technical writer, Jim has attained a wealth of knowledge about the subject and is even writing a new book about it. Meet him in person Friday night!**

**Gerald Cromer K4NHN Cayce, South Carolina - Gerald is a well known operator, designer & builder within the Ham Radio ATV community. A few years ago, he took serious interest in Antique Radio & TV collecting and he will be bringing us some of his prized pieces for "show'n'tell".**

**Jerrold Hueber - Radio Collectors of Ohio Club - Jerrold and members of a new local Dayton Antique Radio Club will be co-hosting the Friday get-together bring lots of refurbished old-time equipment for show and display. A few speakers will also address a number of related subjects during the evening.**

**Andrew Alford - Alford Antenna Company - We are trying to get confirmation for the attendance of historic inventor Mr. Andrew Alford to attend our session. If he can make it, an hour long talk will certainly go by fast as he discusses his 1939 antenna inventions that we are still making use of even today.**

**Ken McIntosh - Baltimore, MD. - Ken's collection of Early TV equipment is perhaps THE BEST in the country! The New York BROADWAY Museum and The SMITHSONIAN INSTITUTE in Washington, D.C. thought so, acquired his collection of 29 pieces, displayed them in a special display "50 YEARS OF TV" until late November before returning them all unharmed. Ken's VHS VIDEOTAPE program entitled "ORIGIN OF TELEVISION" which shows Ken's exhaustive research and study on the subject as well as his personal collections will be presented in its entirety Friday night! A limited number of authorized copies of this tape will also be available.**

**MORE SPEAKERS ARE CURRENTLY BEING LINED UP!**

**Sponsored by SPEC-COM Communications & Publishing Group Ltd and The UNITED STATES ATV SOCIETY. Also - check the DAYTON HAMVENTION Handbook at the door when you arrive or call and check our EC BBS (319) 582-3235. Admission \$2.00 per night. Refreshments available. (Bring your Antique gear or videotapes!).**

**I**N time of emergency, amateur radio steps forward and applies its specialized knowledge to the task of replacing and restoring and supplementing the normal communications system. That is our traditional responsibility — a tradition we have ourselves built and a responsibility we have ourselves sought. War is the gravest emergency of all, and it is now our duty to discharge that traditional responsibility in the war emergency with discipline and patriotic devotion.

Since December 7th, amateur radio has been operating under wartime controls. Eight hours after the first bomb fell in Pearl Harbor, amateur radio as we have known it in peacetime was suspended for the duration. In its place, in the past five days, the volunteer communication system upon which the civilian defense of these shores will be built has begun to take form.

*FCC's order suspending normal amateur radio, with its hamming and chewing, should be examined simultaneously with its announcement of a mechanism under which amateur stations whose operation is essential to national defense are being returned to the air:*

#### ORDER NO. 87

At a session of the Federal Communications Commission held at its offices in Washington, D. C., on the 8th day of December, 1941;

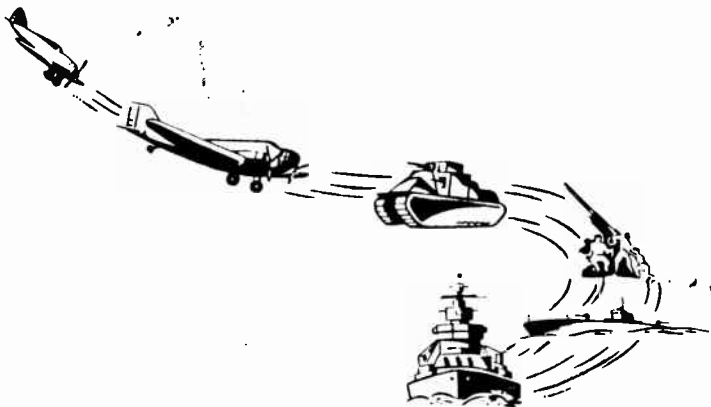
Whereas a state of war exists between the United States and the Imperial Japanese Government, and the withdrawal from private use of all amateur frequencies is required for the purpose of the National Defense;

**IT IS ORDERED**, that except as may hereafter be specifically authorized by the Commission, no person shall engage in any amateur radio operation in the continental United States, its territories and possessions, and that all frequencies heretofore allocated to amateur radio stations under Part 12 of the Rules and Regulations BE, AND THEY ARE HEREBY, WITHDRAWN from use by any person except as may hereafter be authorized by the Commission.

By order of the Commission:

— *T. J. Slowie,*  
*Secretary.*

IN 1941, THE FCC MEANT BUSINESS! THIS DIDN'T STOP RADIO MANUFACTURERS FROM PUTTING ON A PATRIOTIC FACE HOWEVER... (ED.)



**IRC RESISTORS HELP DEFEND DEMOCRACY  
ON ALL FRONTS!**



# Be a **RADAR** Expert with the U. S. Navy!

RADAR is such an important link in communications that our Navy has established special training schools for the purpose of teaching enlisted men, with a knowledge of radio, to become Radar experts.

We are extremely proud that we have been able to do our part in this vitally important training program.

For Military reasons equipment illustrated is not Radar.

**the hallicrafters co.**  
CHICAGO, U. S. A.



*Keep Communications Open*

# Bomb Proof!

18, Botanic Crescent  
N. Kelvinside,  
Glasgow, N.W.  
Scotland.

"Hallicrafters might be interested in the following story which befell my 2nd Op. during one of our "lively spells" recently. A heavy bomb fell just outside his shack, half wrecking the house, blew his Rx, a Sky Champion S-20R right across the room and buried it under half a ton of plaster ceiling. When we dug it out and shook the dust out of it (and how!) we plugged it in again to the nearest undamaged A.C. line, and it worked. The net damage was one tube, a bit microphonic, one dial light bulb gone, and an almost cracked joint on the lead to the grid of the 6K8! 'Hallicrafters Build Bomb-Proof Rigs!' How's that for a slogan?"

*(Signed) Name and original  
letter on file in  
our office*



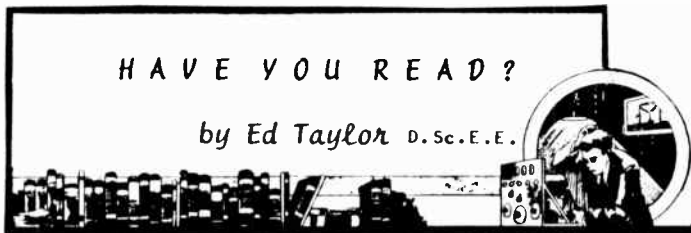
the hallicrafters co.

CHICAGO, U. S. A.

**KEEP COMMUNICATIONS OPEN**

HAVE YOU READ?

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



RADIO'S GOLDEN YEARS  
ENCYCLOPEDIA OF RADIO PROGRAMS  
1930-1960  
by Vincent Terrace

The author has compiled an impressive amount of information on 1500 nationally broadcast network and syndicated entertainment programs. The alphabetical entries provide story line, cast lists, announcer and music credits, sponsors, and the length and date of the broadcast. Also included are 90 rare photographs of these radio legends.

As one of the only comprehensive reference sources available on the subject of old-time radio programming, this volume is a vital acquisition for every fan of radio and nostalgia buff interested in the fascinating history of programs, performers, and personalities.

It is a journey down memory lane for those who remember, and a new experience for those too young to recall a world without TV -- a time that will never be again.

Published by A. S. Barnes & Co. - 1981 - \$15.



WBAA PURDUE UNIVERSITY

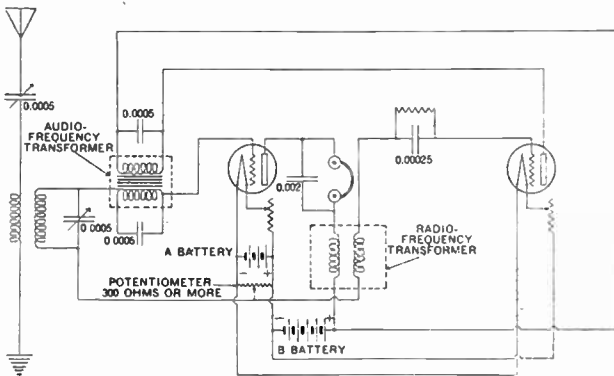
Indiana's oldest radio station, WBAA, begins it's 69th year on the air under new management and a new format.

Mark Boardman replaced Dave Bunte as the station's manager in November. Dave, who has been station manager for about 20 years will take over on-air shifts hosting classical and jazz music at scheduled times.

Roger Priest, who has been the station's primary announcer for the past 25 years will spend more time programming jazz and less time on the air.

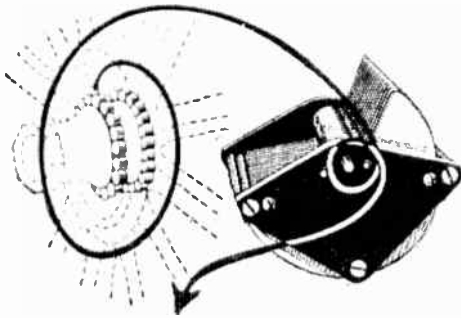
Mike Arnold will host the morning program from 6 a.m. to 10 a.m., and Caryl Mathews will host the 11 p.m. classical music program. WBAA, the voice of Purdue University, is headquartered in the Elliott Hall of Music and reaches listeners within a radius of 70 miles in daytime on a power of 5,000 watts, and 1,000 watts at night. The Purdue station gets most of it's funding from the University and federal grants and the Corporation for Public Broadcasting. WBAA broadcasts on  $\overset{570}{\Delta}$ AM and at 89.7 on cable receivers.

Marshall Howenstein



LEPAX, Philadelphia, February 1928  
**REFLEX AMPLIFIER CIRCUIT**  
 Experimenters with radio-frequency amplification will be interested in trying a circuit which makes two electron tubes serve the purposes ordinarily requiring three tubes. To accomplish this the first tube of the circuit is used as a reflex amplifier, and the second tube as an audio-frequency amplifier. A circuit which can be used to accomplish this is shown in the accompanying diagram. It will be seen that the radio-





*True Running Bearings  
for the Lasting Accuracy  
of*

# U. S. TOOL Condensers

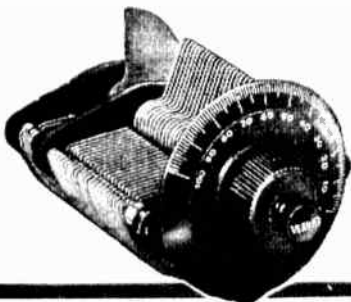
An automobile is easy to steer and wears out tires the least, when its wheels run true. U. S. Tool Condensers are *lastingly accurate* and turn easier for the same reason—*precise bearings*. To be absolutely sure that your condensers are right in every detail, insist upon *U. S. Tool Condensers*. A new condenser for any one purchased that is unsatisfactory, for any reason whatever. That's a **BUY!**

Perfect Insulation of LAMINATED CONDENSER CELORON End Plates.

*Write for Booklet!*

**U. S. TOOL COMPANY,**  
INCORPORATED

118 Mechanic Street, Newark, N. J.



## ANTIQUE RADIO SWAP MEET !!

SUNDAY, MAY 12, 1991

FREEDOM HALL, DETROIT STREET

MORTON, ILL.

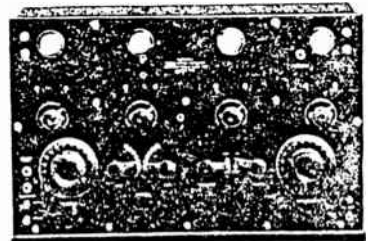
8:00 AM TO 1:00 PM

COME AND ENJOY THE  
FLEA MARKET, AND GOOD FRIENDS !

(DRESS IS CASUAL)

### INFORMATION:

CARL KNIPFEL  
(309)266-9440



MORTON IS ON I-74 NEAR PEORIA EXIT 102

### ! LISTEN !

to a Fixed Crystal Receiver

#### For Local Reception

To hear the natural tones of an artist's voice both in music and speaking, no Radio Instrument can compare with a crystal receiver.

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L. D. VAN VALKENBURG CO., Mfrs.  
HOLYOKE, MASSACHUSETTS

NEW IHRS MUSEUM NOW OPEN TO THE PUBLIC

A new IHRS Museum has been established at Rochester, Indiana through an invitation from the Fulton County Historical Society. IHRS members Don Myers and John Kellar were instrumental in establishing the display, which opened to the public on January 4th.

The display is located approximately ~~1 1/2~~<sup>4</sup> miles north of Rochester on US 31 at the Fulton County Historical Society Museum. Look for the "Round Barn" and the Museum sign on US 31. The Museum is open Monday-Saturday 9:00 AM to 5:00 PM year around, closed holidays.

Our antique radio exhibit consists of approximately 40 radios and one Edison Amberola Cylinder Phonograph in a special room 20 ft. by 24 ft. with seven large show cases and pictures around the room. Featured are ten Indiana made radios on the south wall of the room. The exhibit is expected to be there until July.

A second museum will be opened in the Northern Indiana Historical Society Building at 112 South Lafayette Street in South Bend by March first. It will also be an IHRS six month display.

A third IHRS Museum is contemplated for Madison, Indiana this year under the direction of George Freeman. Volunteer work is needed for the Madison project.

The Fulton County Museum has 17 exhibit themes plus our IHRS display. Take time to see the museum as you are traveling this spring.

Ross Smith

Chairman, IHRS  
Museum Committee



## PRESIDENT'S CORNER

WELCOME TO A NEW YEAR IN OUR HOBBY OF ENJOYING OLD RADIOS. ALTHOUGH MY WIFE WONDERS WHAT THE FACINATION IS IN MESSING WITH SOMETHING THAT A FAMILY OF MICE ONCE CALLED HOME A SHORT TIME BEFORE.

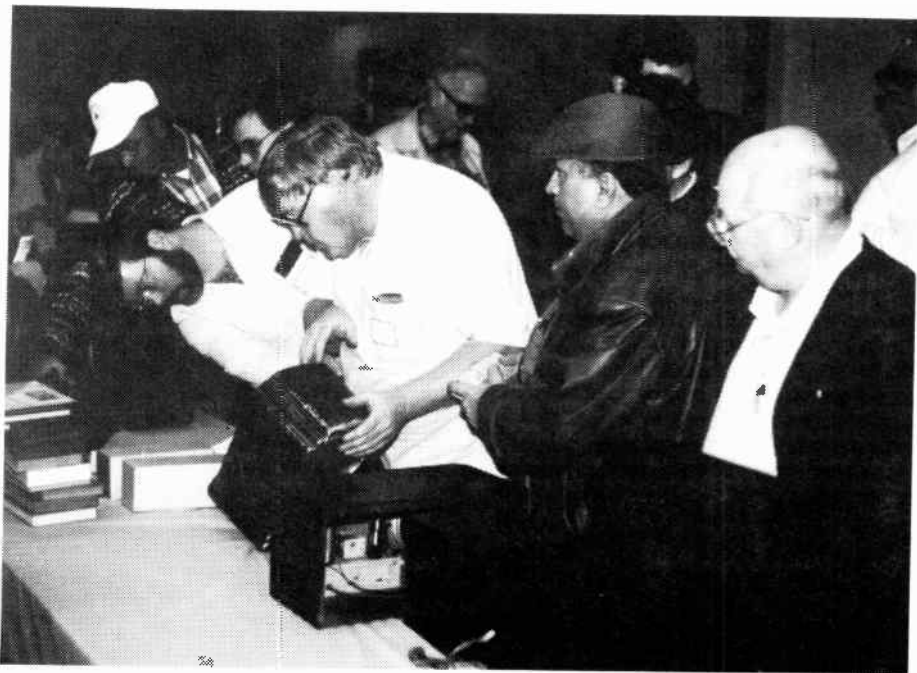
AS WAS INDICATED IN OUR DEC. BULLETIN, WE HAVE HAD A CHANGE OF OFFICERS, IN MY INSTANCE, A YEAR AHEAD OF SCHEDULE. I'M SURE WE ALL WILL MISS MARILYN'S EFFORTS TO GET US TO PAY OUR DUES. WE OWE HER A GREAT DEAL OF THANKS FOR HER WORK ABOVE AND BEYOND THE CALL OF DUTY. WE WISH GLENNA SANDERS LUCK, AND THE COOPERATION OF THE MEMBERS IN HER NEW JOB. WE ALSO NEED TO THANK JIM FRED FOR PUTTING OUT THE BULLETIN. EVEN THOUGH BOTH JOBS WERE VERY HIGH PAYING, THEY WERE EXECUTED AT A LEVEL WAY BEYOND THE MONEY INVOLVED.

WE HAD A VERY NICE MEETING IN TERRE HAUTE LAST OCTOBER. IN FACT, WE NEARLY OVERWHELMED THE PARKING SPACE AND SHELTER HOUSE. WE OWE OUR THANKS TO WALT SANDERS AND FAMILY FOR SPONSERING IT. WE DON'T HAVE ANYTHING SCHEDULED AFTER THE SPRING MEET IN MAY, SO SOME OF YOU MEMBERS START CHECKING OUT YOUR LOCAL PARKS FOR PARKING SPACE AND A SHELTER HOUSE IN CASE OF RAIN. USUALLY A SHELTER HOUSE MAY BE RENTED FOR \$25-100 PER DAY. THE SOCIETY CAN AFFORD THAT, AND WITH A PITCH-IN DINNER WE'RE ON OUR WAY ! CONTACT ME WITH YOUR IDEAS SO THAT THERE WILL NOT BE ANY SCHEDULING PROBLEMS.

AND FINALLY, WE HAVE OUR DISPLAY CASES FROM THE MUSEUM DISPOSED OF. THEY WERE AN EXPENSIVE INTERLUDE FOR OUR GROUP, AND SOME OF THE MEMBERS, BUT THEY ARE ALL PAID FOR AND OUT OF THE MUSEUM. A FEW OF THEM ENDED UP BEHIND THE ACD MUSEUM IN A NEW AUTOMOBILE MUSEUM BEING SET UP BY A DIFFERENT GROUP OF PEOPLE. I'M SURE THERE ARE SOME UNHAPPY PEOPLE, BUT WE NEEDED TO GET THEM OUT OF THE OLD BUILDING AS SOON AND AS CHEAPLY AS POSSIBLE.

STAY IN TOUCH,

GLENN FITCH



## ALIGNING AC AND AC-DC SUPERHETERODYNE SETS

by ROSS SMITH

Edited by Serge Krauss

WITH JUST A LITTLE PRACTICE, YOU CAN BECOME PROFICIENT AT THE JOB OF ALIGNING SUPERHET RADIOS BY FOLLOWING A BASIC SET OF INSTRUCTIONS. IF YOU CAN FIND THE FACTORY OR SERVICE CHART FOR YOUR SET, IT IS BEST TO STAY WITH THEIR RECOMMENDATIONS. IF NOT, THE FOLLOWING OUTLINE MAY BE USED WITH GOOD RESULTS.

BEFORE BEGINNING THE ALIGNMENT PROCEDURE, RESTORE THE CIRCUIT TO GOOD OPERATING CONDITION. OUTLINES FOR CIRCUIT RESTORATION ARE AVAILABLE IN MANY BOOKS AND BULLETINS, INCLUDING IHRS VOL. 18 NO. 2 PAGE 4, AWA VOL. 30 NO.4 PAGE 18 and AWA VOL. 31 NO. 2 PG.34.

### PART 1: INTERMEDIATE FREQUENCY ALIGNMENT.

ALIGN THE I.F. TRANSFORMERS FIRST. YOU WILL NEED AN AUDIO MODULATED R.F. SIGNAL GENERATOR WITH DEPENDABLE FREQUENCY CALIBRATION AND LOW IN HARMONICS. YOU WILL ALSO NEED A SIGNAL OUTPUT INDICATOR FROM THE RADIO, SUCH AS A HIGH IMPEDANCE D.C. VTVM FOR SETS WITH AUTOMATIC VOLUME CONTROL CIRCUITS, OR A SUITABLE A.C. MILLIVOLT-METER TO READ PEAK OUTPUT FROM THE VOICE COIL CIRCUIT OF THE SPEAKER. YOU WILL ALSO NEED A VARIETY OF ALIGNMENT TOOLS, TO BE DISCUSSED LATER IN THIS ARTICLE. DEPENDING ON THE AGE OF THE RADIO, YOU WILL ENCOUNTER I.F. FREQUENCIES OF 130 Kc (NOW kHz) 175/181 (175), 252.5/264 (262), 370 and 448/485 (456 & 465)Kc.

IF THE I.F. FREQUENCY IS NOT KNOWN, YOU WILL NEED TO SCAN THE ABOVE FREQUENCIES IN ORDER TO FIND IT. BE CAREFUL TO AVOID MISTAKING HARMONICS FROM THE R.F. GENERATOR AS FUNDAMENTALS. ALSO REMEMBER THAT "SCREW DRIVER MECHANICS" MAY HAVE TURNED TRIMMERS WAY OFF



FREQUENCY. IF SO, IT WILL BE NECESSARY TO "CHASE" THE RESONANCE BACK TO THE CORRECT FREQUENCY. FIND A PEAK READING BY ROCKING THE R.F. GENERATOR, THEN ALTERNATELY DE-TUNE R.F. GENERATOR TOWARDS THE CORRECT FREQUENCY AND RE-ADJUST THE TRIMMERS TO PEAK. KEEP REPEATING UNTIL YOU ARRIVE AT THE CORRECT I.F. FREQUENCY. FOR EXAMPLE, I HAD TO RECENTLY "CHASE" A SET THAT RESONATED BELOW 400 Kc ALL THE WAY UP TO THE CORRECT 456 Kc.

FOLLOWING ARE SUGGESTIONS FOR THE ALIGNMENT OPERATION:

1. CONNECT A VTVM BETWEEN GROUND OR NEUTRAL AND THE AUTOMATIC VOLUME CONTROL (AVC) CIRCUIT. YOU WILL BE READING A PEAK D.C. VOLTAGE OF AROUND 5 TO 30 VOLTS NEGATIVE AVC POTENTIAL. CAUTION: WITH AC-DC SETS HAVING ONE SIDE OF THE 117 VOLT AC LINE CONNECTED TO THE CHASSIS (HOT CHASSIS) YOU MUST USE AN ISOLATION TRANSFORMER OR BE SURE THAT THE POWER LINE GROUND SIDE IS TO THE CHASSIS BY A NEON BULB TEST. NEUTRAL GROUND FOR MANY OF THE LATER AC-DC SETS WILL BE ON A POWER SWITCH TERMINAL, FLOATING FROM THE METAL CHASSIS. HOWEVER, WITHOUT AN ISOLATION TRANSFORMER THE CIRCUIT WILL BE "HOT" WITH THE SWITCH OFF. YOU CAN OFTEN FIND THE AVC NEGATIVE VOLTAGE ON THE HIGH END OF A VOLUME CONTROL THAT IS NOT BLOCKED BY A CAPACITOR, ON THE GRID RETURN CIRCUIT FROM I.F. OR R.F. TUBES, ON THE GRID OF AN EYE TUBE, OR SOMETIMES ON THE GRID RETURN CIRCUIT OR LOW END OF THE LOOP ANTENNA. LOOK AT THE SCHEMATIC TO FIND THE GRID RETURN POINTS IN THE AVC CIRCUIT. IF THE SET WAS BUILT BEFORE THE MID-1930's, IT MAY NOT HAVE AN AVC CIRCUIT AND IT WILL BE NECESSARY TO TAKE THE PEAK READINGS BY AN AC VOLTMETER IN PARALLEL WITH THE SPEAKER VOICE COIL. IF NO METER IS AVAILABLE, A LESS PRECISE ADJUSTMENT CAN BE MADE BY LISTENING TO THE SOUND LEVEL FROM THE SPEAKER.

2. CONNECT THE R.F. SIGNAL GENERATOR TO THE INPUT OF THE I.F. STAGES. LOCATE THE CONVERTER (FIRST DETECTOR TUBE) AND CONNECT THE R.F. GENERATOR PROBE DIRECTLY TO THE GRID THROUGH A SMALL FIXED CAPACITOR, SUCH AS A DISK OR MICA CAPACITOR BETWEEN 200 and 470  $\mu$ F. CONNECT THE GROUND SIDE OF THE GENERATOR TO THE CIRCUIT GROUND OR CHASSIS OF THE SET. FOR A CONVERTER TUBE WITH A GRID CAP, REMOVE THE CAP CLIP AND CONNECT A 1/2 MEGOHM RESISTOR FROM THE CAP TO GROUND OR NEUTRAL AND CONNECT THE R.F. GENERATOR PROBE SERIES CAPACITOR TO THE TUBE GRID CAP. TURN THE RADIO TUNING CAPACITOR TO THE LOW FREQUENCY END AND DO NOT CONNECT AN ANTENNA DURING THE I.F. ALIGNMENT.

SOMETIMES IT MAY BE POSSIBLE TO FEED THE I.F. GENERATOR INTO THE ANTENNA TERMINAL OF THE SET IF THERE IS NO R.F. STAGE AND NO I.F. TRAP IN THE ANTENNA CIRCUIT. WHEN YOU HEAR AN I.F. SIGNAL, TURN THE RADIO TUNING DIAL TO MAKE SURE YOU ARE NOT TUNED TO A HARMONIC. TURNING THE DIAL WILL NOT TUNE OUT THE I.F. SIGNAL. IT IS BEST TO KEEP THE RADIO DIAL AT THE LOW FREQUENCY END, TUNING AWAY FROM ANY INCOMING SIGNAL FROM THE AIR. FOR AC SETS WITH A SEPARATE OSCILLATOR TUBE, PULLING THE TUBE WILL HELP TO PREVENT INTERFERENCE FROM RADIO STATIONS.

### 3. ALIGNMENT OPERATION:

SET THE MODULATED R.F. SIGNAL GENERATOR TO THE I.F. FREQUENCY. TURN THE RADIO VOLUME CONTROL UP AND TURN THE SIGNAL GENERATOR OUTPUT AS LOW AS POSSIBLE AND STILL HEAR THE SIGNAL. TURN THE TRIMMERS (OR IRON CORES) TO PEAK OUTPUT, STARTING WITH THE INPUT (FIRST) I.F. TRANSFORMER. CONTINUE TO REDUCE THE SIGNAL GENERATOR OUTPUT TO A MINIMUM FOR PEAK READINGS. THIS MEANS TURNING THE SCALE LOWER ON THE VTVM INDICATOR. CONTINUE DOWN THE LINE WITH THE SECOND I.F. TRANSFORMER (IF USED) AND THEN THE LAST (OUTPUT) TRANSFORMER.

GO BACK AND RE-ADJUST THE FIRST I.F. TRANSFORMER. ON SOME LOW PRICED AC-DC SETS OF THE 1930's, THE OUTPUT TRANSFORMER GOING INTO THE DETECTOR CIRCUIT WILL HAVE ONLY ONE TRIMMER. OTHER SETS OF THIS ERA MAY HAVE ONE OR BOTH TRANSFORMERS MOUNTED UNDER THE CHASSIS IN THE OPEN WITH NO SHIELD CAN. IN THIS CASE, THE TRIMMERS ARE USUALLY FOUND NEARBY ON THE SIDE OF THE CHASSIS IN PAIRS.

IF YOU CANNOT FIND THE I.F. SIGNAL WITH THE GENERATOR CONNECTED TO THE CONVERTER TUBE GRID, MOVE THE CONNECTION OVER TO THE GRID OF THE FIRST I.F. TUBE. ALIGN THE SECOND (OUTPUT) TRANSFORMER AND THEN GO BACK TO THE FIRST (INPUT) TRANSFORMER. AS YOU REACH THE FINAL PEAK ADJUSTMENT, THE SIGNAL GENERATOR WILL BE AT A VERY LOW LEVEL AND YOU WILL BEGIN TO HEAR BACKGROUND "HISS" AND OUTSIDE RADIATION NOISE. THIS IS A SIGN OF GOOD CIRCUIT GAIN.

#### 4. NOTES:

A. IF YOU ENCOUNTER OSCILLATIONS, FEED-BACK OR REGENERATION SUCH AS HETERODYNING AT THE PEAK ADJUSTMENT OF THE TRIMMERS YOU MAY HAVE OUTSIDE INTERFERENCE OR A CIRCUIT FAULT. CHECK ALL OF THE BY-PASS CAPACITORS IN THE AVC CIRCUIT, SCREEN CIRCUITS, PLATE SUPPLY CIRCUITS AND EVEN THE ELECTROLYTIC FILTER CAPACITORS. THIS CAN BE DONE ON A CUT-AND-TRY BASIS BY PARALLELING A .047 Mfd. 600 VOLT CAPACITOR FROM THESE CIRCUITS TO GROUND OR NEUTRAL. FOR THE ELECTROLYTIC CAPACITORS, TRY PARALLELING A 0.1 Mfd. CAP. ALSO, LOOK FOR A MISSING OR UNGROUNDED TUBE SHIELD ON THE R.F., CONVERTER, I.F. OR DETECTOR TUBES. SUBSTITUTING AN UNSHIELDED GLASS TUBE FOR A METAL TUBE COULD CAUSE THIS PROBLEM. ALSO, LOOK FOR OPEN GRID CIRCUITS.

B. OCCASIONALLY I.F. TRANSFORMERS ARE DEFECTIVE AND MUST BE REPLACED. I CAN REMEMBER OF ONLY ONE OCCASION WHEN BOTH TRANSFORMERS HAD TO BE REPLACED. BE SURE TO REPLACE DEFECTIVE TRANSFORMERS WITH THE SAME FREQUENCY "INPUT" OR "OUTPUT" TYPES. IF THE RADIO HAS BEEN IN A DAMP AREA AND THE COILS HAVE ABSORBED MOISTURE, DRYING THEM WITH A HAIR DRYER MAY BRING THEM BACK TO LIFE.

C. CAUTION ON EARLY I.F. TRANSFORMERS MADE BEFORE THE MID-1930's: SOME TRIMMER SCREWS WERE NOT ISOLATED FROM THE TRANSFORMER CIRCUITRY AND ARE "HOT" ON THE B-PLUS PLATE SIDE AND ARE CONNECTED TO THE GRID CIRCUIT ON THE OTHER SIDE. AN INSULATED TOOL SHOULD BE USED. IF YOU USE A METAL SCREW DRIVER, TAPE THE END SO THAT IT WILL NOT SHORT THE "HOT" SCREW TO THE METAL TRANSFORMER CAN. HOWEVER, A METAL SCREW DRIVER MAY DE-TUNE THE CIRCUIT, ESPECIALLY ON THE GRID SIDE, MAKING IT DIFFICULT TO SET TO THE PEAK POSITION. IF THE TRIMMER SCREWS ARE FROZEN TRY A SMALL AMOUNT OF WD-40 OR LIGHT OIL AND LET SOAK OVERNIGHT.

#### D. TOOLS

THERE IS A WIDE VARIETY OF TOOLS NEEDED FOR SETS OF ALL AGES. MORE RECENT SETS USE THE NON-METALLIC HEX ROD DRIVERS THAT ARE AVAILABLE AT ELECTRONIC STORES. SOME TRANSFORMERS OF THE EARLY 1930's HAVE TANDEM SCREWS AND HEX BUSHINGS THAT REQUIRE THE OLD-STYLE PLASTIC HEX DRIVERS IN 1/4" AND 5/16" SIZES. LOOK FOR THESE AT A RADIO SWAP MEET OR TRY TO OBTAIN THEM FROM A SERVICE MAN FROM THAT ERA. MOST SINGLE SLOT SCREW TRIMMERS CAN BE ADJUSTED WITH A METAL SCREWDRIVER. IF NOT, USE A PLASTIC DRIVER WITH A METAL BLADE INSERT IN THE END. MY BEST TOOL OF THIS KIND IS A SIGNAL CORPS. TL-207.

PART TWO WILL COVER ANTENNA AND R.F. FRONT END ALIGNMENT.

R. S. 2-12-91



# RADIOADS !

WANTED: SPEAKER FOR SCOTT PHANTOM DELUXE/PHILHARMONIC  
FOR SALE: E. H. SCOTT MODEL 510 CONSOLE; HUGE PICK-UP ONLY, (2) AK  
KIEL TABLES W/MODEL 55 CHASSIS. MIKE CLARK, RR2 BOX 90, FRANKLIN, IN.  
46131. (317)738-4649

WANTED: GREBE SYNCROPHASE MU1, MU2, PARTS, HIPPIING BOXES. ADVERTISING,  
BATTERY BOX, ETC. FRED M. SCHULTZ, 1246 LINCOLN WAY S., LIGONIER, IN.  
46767. (219)894-3092

WANTED: SW-3 COILS, STEVE SAUER, 1274 LONDONERRY LN., GREENWOOD, IN.  
46142, (317)882-4598 EVENINGS

WANTED: PHILCO 40-155, WESLEY NEISE, (212)628-2139 EVENINGS

WANTED: RCA 5T4(1936), DAVE SMITH, BOX 81, OLNEY, ILL, 62450,  
(618)392-6601

WANTED: ZENITH BATTERY SET LIKE CRL, 1-3, OR 4R AND MATCHING AMP,  
COLLECTOR LOOKING TO FIND AT IHRS MEET 5-3-91, WADE, 657 14TH AVE.,  
PROSPECT PARIL, PA. 19076, (215)534-3477

WANTED: RME-9 RECEIVER AND 3 CABINETS FOR R-390A OR SP-600.  
DON JOHNSTON, RR1 BOX 218A, WINDFALL, IN. 46076-9706, (317)945-7735

WANTED: PHILCO, 1942 TABLE RADIO MODEL#42-350, WESLEY NEESE, 500-A  
EAST 87TH ST., NEW YORK, NEW YORK, 10128, (212)628-2139

WANTED: EARLY CROSLEY PARTS, SETS, HARKO, HARKO SR., CR-1, VIII, BONZO  
DOG AND OTHERS, SCOTT ALL-WAVE(2-DIAL) SPEAKER, DUPLEX PICKUP AND  
LYRIC(NY) PICKUP AND TONE ARM(NICKLE), POINTER AND KNOB FOR AERIOLA  
JUNIOR, GILFERD L. BAKER, BOX 139, 112 PEARL ST., EMDEN, IL 62635

WANTED: WILL PAY TOP DOLLAR FOR THE FOLLOWING CONSOLES !: ZENITH  
8S593, 8S594, PHILCO 42-1012, 42-1016. ALSO NEED HAMMARLUND SCHEMATIC  
BOOK AND STILL LOOKING FOR A MAGNETIC COIL WINDING MACHINE. ASK  
ABOUT CLASSIC RADIO RESTORATION KIT !, DAN HEALY, P.O. BOX 764,  
WOODACRE, CA 94973, (415)488-4596

WANTED: PARTS FOR KENNEDY TYPE 525 AMP, NEED SCHEMATIC, BINDING POSTS,  
KNOBS(DUPES O.K.), PHONE JACK LABELED "D", TYPE 214 GENERAL RADIO POT  
AT 3 OHMS, (FOR PHILCO 41-608---), ESCUTCHEAN FOR PUSH BUTTONS, DIAL  
GLASS, AND KNOBS(PC 133 F.O.S), (FOR 16MM MOTION PIC PROJECTORS), FILMS  
LAMPS, PHOTOCELLS, MAURY ZIVITZ, 8074 CLARIDGE RD., INDIANAPOLIS, IN  
46260, (317)255-7478

FOR SALE/TRADE: 30'S, 50'S, 60'S, 70'S PLASTIC TABLE RADIOS. MOST WITH  
TUBES/LINE CORDS, AM AND FM, \$2.00 EA. OR THE BUNCH FOR \$50.00, AK40  
\$40.00, RCA 5T TOMBSTONE \$55.00, RADIOLA 18 \$55.00, TUBES, 805, 872A, VT-  
127A, 6B4G, TUNGAR 195528, ALL \$8.00 EA., 18 50'S AND 60'S COLOR/BW TVS,  
GOOD FOR XFORMERS, TUBES, ETC., ALL FOR \$30.00, 5 40'S, 50'S PHILCO, RCA,  
CORONADO CONSOLES \$20.00 EA. ZENITH 35APX CHASSIS/PWR SUPPLY/SPKR  
\$25.00(TUBES EXTRA), FEDERAL MOTEL F10 ORTHOSONIC CHASSIS \$25.00,  
STEWART WARNER 300 BOX \$15.00 WANT: HOWARD A6 CHASSIS, GLENN FITCH, BOX 24  
IN 46115, (317)565-5911

WANTED: TWO CERAMIC STAND-OFF INSULATORS BEE-HIVE TYPE, HEIGHT & DIAMETER APPROX 1.5 INCHES, EARLY B ELIMINATORS OF LATE TWENTIES, WIRING DIAGRAM & RELATED MATERIAL FOR "SUPER-UNIT" SUPERHET MFD BY ALLEN T. HANSCOM, WOONSOCKET, R. I. APPROX 1924-25, TAD DROGOSKI 507 COAL VALLEY RD., CLAIRTON, PA 15025

WANTED: WORLD'S RECORD SUPER 9, WORLD'S RECORD SUPER 10 W/PANEL METERS, WORLD'S RECORD SUPER 8 RADIO AGE IDEAL MODEL, SCOTT SYMPHONY, AC OR DC MODEL, SCOTT AC-9, ALL RADIOS CIRCA LATE 1920'S, TRADE: ZENITH WALTONS RADIO, MODEL 7J232 FOR OR TOWARDS ANY OF ABOVE, OR ANY SCOTT RADIOS I DO NOT HAVE, JIM CLARK, 1292 STARBOARD, OKEMOS, MI 48864, (517)349-2249

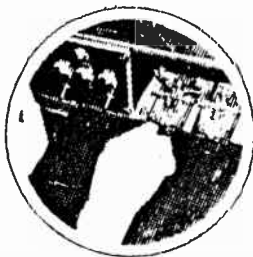
WANTED: CROSLY RADIO (1932-33), AC, 4-TUBE SUPERHET, SILVER-GRAY METAL CABINET, 7.5 X 12.5 X 7 INCHES. HAS TWO "PEEP" TYPE WINDOW DIALS, TWO KNOBS, AND ROUND SPEAKER GRILL. MISCELLANEOUS JUNKER PARTS FOR WESTINGHOUSE AERIOLA AMP (VINTAGE RADIO P. 107), ROUND METAL BASE FOR AK 2-TUBE/3-TUBE AMP ASSEMBLY, ANY JUNKER PARTS FOR AMRAD DOUBLE DECKER SERIES, JAMES DI RUZZA, 2607 OLD TROY PIKE, DAYTON OH., 45404 (513)233-5004 EVES.

WANTED: 1936 DELCO CONSOLE MODEL R-1117, OR R-1117(A), MAX A. FRETZ 323 FIELD ST., FORT WAYNE, IN. 46805, (219)483-5223

TRADE: MOST ANY RADIO I HAVE FOR A "LEWIS 3-STAGE RECEIVER" MADE BY WESTERN COIL & ELECTRICAL CO., RACINE, WIS, (1922), ALSO WANT "RADIODYNES" IN ANY CONDITION AND WILL USUALLY PAY YOUR PRICE FOR A MODEL I DON'T HAVE, ERIC SANDERS, 3295 W. 246TH ST., SHERIDAN, IN 46069, (317)758-4988



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**THIS IS YOUR LAST BULLETIN UNTIL  
YOU PAY 1991 DUES !!!**

\*\*\*\*\* WINTER MEET 1991 \*\*\*\*\*  
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THE IHRS HELD IT'S ANNUAL WINTER MEETING ON FEB. 23, 1991 IN INDIANAPOLIS, IN. AN ENERGETIC SWAP MEET WAS ENJOYED BY ALL. THANKS GO TO BOB & INEZ SHUCK FOR THEIR SUPERB ORGANIZATIONAL EFFORT! DITTO THANKS GO TO EDNA YANCER, DIANE HEATHCOTE, AND MARILYN JOHNSTON, OUR "TROOPS" AT THE FRONT DESK, FOR THEIR VOLUNTEER SUPPORT!

THE WEATHER COOPERATED NICELY (SUNNY & FAIR) AND TWELVE "FAVORITE" RADIOS WERE DISPLAYED IN THE POPULAR VOTE CONTEST.

ROSS SMITH'S FAVORITE (A KENNEDY 281 & 521 AMP) WAS ALSO VOTED THE ATTENDANT'S FAVORITE, WITH A CLOSE SECOND GOING TO LIONEL HAID'S ZENITH "GOLDEN TRIANGLE" CLOCK RADIO. THE DRAMATIC CONTRAST BETWEEN THESE TWO RADIOS SPEAKS TO THE WIDE VARIETY OF INTERESTS PRESENT WITHIN OUR CLUB !!!



ACTIVITIES AT THE FEBRUARY MEET IN INDIANAPOLIS.

\*\*\*\*\* IHRS MEMORIAL \*\*\*\*\*  
\*\*\*\*\*

IHRS MEMBER PRESTON E. YOUNG OF ALBION, IN. PASSED AWAY NOV. 26, 1990. PRESTON WAS BUILDING AND REPAIRING RADIOS WHEN IN HIGH SCHOOL IN THE EARLY 1930'S. HE HAD BEEN IN RADIO AND TV REPAIR FROM 1934 UNTIL HIS DEATH.

IHRS MEMBER LLOYD FURROW W8IX, PASSED AWAY DEC. 12, 1990. HAM RADIO WAS A BIG PART OF HIS LIFE. HE WAS LICENSED IN APRIL 1917, AND WAS CONTINUOUSLY LICENSED AND "ON THE AIR" FROM THAT TIME. (EXCEPT FOR 5 YEARS DURING WWII WHEN HE SERVED AS A NAVAL COM. OFFICER) HE WAS 91 YEARS OLD. HE IS SURVIVED BY HIS WIFE ALMA FURROW, 144 PROSPECT, DAYTON, OH 45415

IHRS MEMBER DEAN THURNALL PASSED AWAY DEC. 23, 1990 AT AGE 57. HE WAS RETIRED FROM C & W TRUCKING. DEAN WAS A MEMBER OF THE CROSLY ASSOCIATION. HIS MAIN INTERESTS WERE CROSLY RADIOS & CARS.

IN ADDITION TO HIS WIDOW MARY THURNALL, HE IS SURVIVED BY ELEVEN CHILDREN, TWENTY-THREE GRANDCHILDREN, AND ONE GREAT-GRANDCHILD. HE IS BURIED AT DANVILLE, INDIANA.  
(MARY THURNALL, P.O. BOX 85, DANVILLE, IN. 46122)