



# ARCI NEWS

[www.antique-radios.org](http://www.antique-radios.org)

Affiliated AWA  
Antique Wireless Association 

Volume 43, Issue 5  
October 2023



# ARCI CALENDAR

EVENT	LOCATION	DAY & DATE	TIME
Virtual Forum	Your Computer	September 23, 2023	10:00 am
Swap Meet	American Legion	Sunday, October 1, 2023	7:30 am
Virtual Forum	Your Computer	Saturday, November 18, 2023	10:00 am
Swap Meet	American Legion	Sunday, December 3, 2023	7:30 am



American Legion Hall Meetings are located at: Post 76  
 570 S Gary Ave  
 Carol Stream, IL 60188

About ARCI Virtual Forum video sessions  
 10 AM to 11:30 AM Central time, check-in starts: 9:45 AM Central Time  
 Generally held on the 3rd Saturday in non-summer months

Agenda items (subject to change): History          Tips & Tricks  
    Technical        How-to's  
    Show & Tell    Items for sale  
    Open chat session

To find out more, email: [remote-events@antique-radios.org](mailto:remote-events@antique-radios.org)

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# WELCOME TO ARCI

## Visit ARCI on the WEB

Website: [www.antique-radios.org](http://www.antique-radios.org)

FaceBook: <https://www.facebook.com/ARCI.org>

YouTube: <https://www.youtube.com/@AntiqueRadioClubofIllinois>

## Join ARCI

<http://www.antique-radios.org/membershipinfo.html>

-or-

Use the application in this newsletter

## Leadership

President	Tom Kleinschmidt
Vice President	Tom Zaczek
Treasurer	Rudy Hecker
Secretary	Jay Stewart
Membership	Elaine Hecker
Radiofest chair	Steve Muchow
Director on-line events	Matt Pollack
ARCI News editor	Maureen Blevins

## Contact ARCI

Antique Radio Club of Illinois

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Antique Radio Club of Illinois is a registered non-profit in the state of Illinois.

# PRESIDENT'S MESSAGE

October 2023



## Radiofest 2023

Chicago weather got us again. We “cooked” in 90+<sup>0</sup> heat in 2022 and got rained on Saturday in 2023. We were watching the forecast and all looked good until it didn’t. To use the indoor ballroom at Shriners we need to make the call midday on Friday. The good news is there was an opening hour or two of dry swap meet on Saturday. The bad news is sellers had to close and protect their wares. The donation sale items got water damaged and we had to give away items way early, reducing funds that help cover *Radiofest* expenses.

### **Radiofest 2023 financials**

#### **Financial summary**

Total income	\$10,757
Total expenses	\$12,924
Gain (Loss)	(\$2,167)

#### **Top income sources**

Main auction	\$3,310
101 swap meet spaces	\$2,205
Donation sales	\$1,919
68 Memberships	\$1,700
31 Banquet tickets	\$1,240

#### **Top expenses**

Venue	\$9,860
Brochure & postage	\$1,021
Main auction	\$750
Porta Potty	\$422
Registration Tent	\$421
Truck Rental	\$330

2022 loss was \$3099, 2023 loss was \$2167. Let’s hope that is a trend!

We received a lot of thoughtful feedback from our email request on *Radiofest* 2023. The weather was the main issue. Suggestions:

1. More seminars,
2. Indoor display area / theme
3. Move the main auction to after the swap meet as in the Elgin days.
4. The volume of items in the auction – see details in separate article.
5. Would like to get banquet tickets on the day-of.
6. Participants want to feel more welcomed.
7. Liked old radio programs in the lobby.
8. Want ham station back.
9. Socializing with people.

Lots to work on, we are addressing each comment. If you are able, step up and make YOUR event even better.

### **ARCI condition**

#### **People**

258 ARCI members

875 subscribers to ARCI announcements (Mailchimp)

639 subscribers to ARCI chat room (Google Group)

Our goal is to be inclusive; bring a friend to the next swap meet.

#### **Finance**

On October 22, 2022 we had \$27,655 in the bank and October 18, 2023 we have \$26,925. We are financially sound. The main funding for the club is memberships and donation sales. It is nice when *Radiofest* makes money too, see October 2022 *ARCI News* president's message for that history.

#### **Newsletter**

*ARCI News* is published every two months. It is offered in color for free on-line in the interest of supporting and promoting the radio hobby. We mail black and white copies to those members requesting them. The printing and postage costs of four issues published through August are: February 2023: \$1067, April 2023: \$1146, June 2023: \$877, August 2023: \$931. Cost varies by number of pages and number of copies mailed. We don't want to deny those who prefer or need printed copies a print copy. It is a rising cost to be aware of.

### **Elections**

Election of officers will take place at the December meet by simple voice vote. Elections are either in October or December each year.

See you Sunday, October 1, 2023 at the American Legion Hall in Carol Stream, IL for the next swap meet!

*Tom Kleinschmidt*, President  
Antique Radio Club of Illinois

# **RADIOFEST 2023 Update**

by Steve Muchow, *RADIOFEST* Chair

*Radiofest 2023* was again held at the popular Medinah Shriners Facility in Addison, Illinois with lodging at the nearby Hilton Garden Inn. Successful changes from last year were again incorporated this year, such as first-come-first-served parking in the swap area lot and offering both on-line and mail-in pre-registration.

Those who arrived on Friday to attend the popular Friday evening auction were greeted with great weather with the forecast looking good through Saturday afternoon. The auction was, again, handled professionally and smoothly by volunteers led by Nick Tillich and John Stone. Auctioneer extraordinaire Jim Sargent returned this year and drove us through an evening of upbeat bidding. The on-screen bidding lot pictures were enhanced this year through the use of a new projector purchased by ARCI especially for the auction. It most definitely made a difference! Auction details are covered elsewhere in this issue. At the end of the auction, we left for the hotel in good weather still with a forecast of no rain until possibly later on Saturday afternoon. We did have an option in our contract with the Shriners to shift the Saturday morning outdoor swap to inside the building ... but ONLY if there was a 100% chance of rain on Saturday morning and we had to notify the venue staff well before the auction ended if we needed that option (as they need staff and time to rearrange the rooms by 7am). We could not make that decision Friday night based on the forecast.

Many sellers were out early Saturday morning and able to make sales before the rain slowly crept into the area. The outside coffee, donuts and lunch offerings by the Shriners are always welcome. I think the Donation equipment sale this year was the biggest ever and activity at the many tables was brisk all morning. Despite the plastic sheets covering many sellers' tables there were still treasures being plucked and sold from under those plastic sheets.

A little serendipity is the fact that one of our indoor presentations this year was OLD TIME RADIO programming in the lobby from 8 am until 4 pm allowing an all-day respite from the all-day rain. FM Radio host Paul Iverson and his able assistant Randy Larson presented continuous old time radio programming. I had a chance to stop in at various times and enjoyed not only the programming but also the comments and history that Paul and Randy provided throughout the day.

The second program on Saturday afternoon was "Myths and Facts in Audio and Radio Restoration" presented by Pete Nauseda. Among other things, Pete described how to choose components wisely and the impact of spray cleaners on surfaces. Pete was kind enough to donate a Sainsmart 4-channel handheld digital oscilloscope to be raffled at the presentation. A lucky winner was picked out of the enthusiastic group of 21 people.

Always a great way to close out *Radiofest* is to attend the Carl and Carolyn Knipfel Banquet. The food is always superb and this year we were treated to an evening with OLD TIME RADIO hosts from the all-day Shriner's lobby presentation, Paul Iverson and Randy Larson. Paul related stories from his many years as an FM Radio Host and his encounters with stars popular in the early years of radio entertainment. Randy Larson has worked with many well-known stars and been involved in several radio productions. Paul and Randy performed the famous Abbot and Costello comedy sketch "Who's On First". They also quizzed attendees about famous personalities and early TV and radio programs. It was an enjoyable evening... thanks to both Paul and Randy for sharing their talent with us.

So... *Radiofest 2023* is "in the books". We are fortunate to have several activities to attract collectors each year. However, we are always looking for additional activities and look to you for ideas. Please contact us at [clubinfo@antique-radios.org](mailto:clubinfo@antique-radios.org).

On a final note, I again want to thank all of the volunteers who shared the commitment to make *Radiofest 2023* a success. There is a core list of *Radiofest* Staff published in the ARCI NEWS, but there are many more that work behind the scenes. On behalf of ARCI... THANK YOU!

*Steve Muchow,*  
*Radiofest Chair*

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Excluding the weather, :- I enjoyed *Radiofest* very much.

Got to meet some friends that I haven't seen in a while, also missed friends that are no longer with us.

I think the club is doing a fantastic job with bringing our club into the 21st century.

Hats off to our newsletter editor, I think she is doing a fantastic job.

I enjoyed giving my presentation and hope to do it again next year.

I am open to the suggestions from the club members on what they would like to see presented at *Radiofest 2024*.

The online registration was great.

*Pete Nauseda*



## ABOUT THE *RADIOFEST AUCTION* - 2023

Here are some key statistics from the 2023 *Radiofest* Auction.

Year	Unique Registered Bidders	Unique Sellers	Lots Consigned
<b>2023</b>	97	38	150
<b>2022</b>	103	46	201
<b>2019</b>	135	53	249
<b>2018</b>	137	59	292

97 people representing 17 states + Canada participated in the auction this year, 150 lots were consigned, allowing the auction to close by 9:23 pm. The average sale price was \$145.

Year	Average Sale Price	Sold Lots	No Sale Rate
<b>2023</b>	\$145	119	20%
<b>2022</b>	\$213	128	36%
<b>2019</b>	\$260	177	29%
<b>2018</b>	\$170	200	31.5%

119 of the 150 lots consigned this year, sold. That means the no-sale rate was down to 20%. Of the 32 no-sale lots, 14 were radios, 5 were test equipment, 5 were stereo or speaker related, with the remainder being tubes, advertising, TV or headphones.

The total sales were \$17,280, down 36% from 2022. Here's how those figures compare to past auctions:

Year	Total Sales	% Change
<b>2023</b>	\$17,280	-36.6%
<b>2022</b>	\$27,260	-40.8%
<b>2019</b>	\$46,045	+35.2%
<b>2018</b>	\$34,050	-5.1%
<b>2017</b>	\$35,885	+9.1%
<b>2016</b>	\$32,900	+33.2%
<b>2015</b>	\$24,705	-34.6%
<b>2014</b>	\$37,783	+42.7%
<b>2013</b>	\$26,480	+4.7%
<b>2012</b>	\$25,300	+54.3%
<b>2011</b>	\$16,400	---

Compared to 2022, the percentage of items below \$100 grew significantly, contributing to the lower average sale price.

Hammer Price	Lots Sold 2023	Lots Sold 2022	Lots Sold 2019
<b>\$500 or higher</b>	8 (7%)	<b>15 (12%)</b>	<b>20 (11%)</b>
<b>\$250 ~ \$499</b>	11 (9%)	<b>21 (16%)</b>	<b>24 (14%)</b>
<b>\$100 ~ \$249</b>	22 (18%)	36 (28%)	<b>58 (33%)</b>
<b>\$50 ~ \$99</b>	<b>42 (35%)</b>	30 (23%)	45 (25%)
<b>Less than \$50</b>	<b>36 (30%)</b>	<b>26 (20%)</b>	30 (17%)

The total price of the top 15 priced lots were \$\$9,130, down from \$11,750 in 2022, and \$22,475 in 2019. ARCI's donation lots brought in an additional \$200 for the club.

Top 15 Lots	Hammer Price
Silvertone Rocket	\$2,400
Zenith 7S232 Walton	\$825
Atwater Kent Tri-fold Sign	\$600
1936 Zenith Model 5-S-127 Tombstone	\$550
Utt Williams Aeroloop Santa Anna	\$550
Zenith 12S345 Chairside 1939	\$525
Jackson Bell Model 84 Peter Pan 1932	\$525
McMurdo Silver Masterpiece III in Lyndon Cabinet	\$500
RCA Sign	\$475
Emerson Cathedral 1931	\$425
Stromberg Carlson 130U 1937	\$400
1938 Emerson AX-212 Bullseye	\$375
Atwater Kent Plaque	\$375
350B Tubes (2) National Union	\$325
Atwater Kent Lamp	\$280

Sell Price	Lot Name	NOTE: <i>pass indicates no bids or reserve not met</i>
25	Globe and Johnson Chief Deluxe Valiant	
90	Collins R-388 Receiver	
40	Drake R-8 1991 Rcvr	
35	Yaesu FT-107M XCVR	
25	Johnson RME National Sentry Preamp NC-121	
110	45 tubes (12)	
525	Zenith 12S345 Chairside 1939	
25	5U4 Tubes (Used) (Qty 14)	
pass	1949 Mitchell Lullaby Bed Lamp and Radio	
375	1938 Emerson AX-212 Bullseye	
325	350B Tubes (2) National Union	
85	2A3 Tubes (2) RCA and Philco	
25	6SN7 Tubes (16)	
180	RCA 5692 and 6SN7 Tubes (8/1/8)	
pass	Addison A-5 Catalin Courthouse 1945	
50	Scott Phantom 1937 Chassis/PSU/Speaker	
25	General Motors Ashtray Remote	
25	AWA Journals	
pass	ARRL CQ Magazines	
65	Crosley 616 Tombstone	
55	Philco 116B Tombstone 1936	
25	Motorola 52C Clock Radio	
130	Globe Battery Set w/ Speaker 1923	
60	GE H510 1991	

150 Zenith 7 tube radio 1940  
 55 Silvertone Radio 1941  
 45 RCA Radiola Floor Speaker 1929/30  
 65 Meteor Cathedral 1931  
 425 Emerson Cathedral 1931  
 pass Scott Masterpiece Warrington Cabinet  
 pass McMurdo Silver 15-17 Chassis w Speaker  
 pass Hickok Model 600 Tube Tester, untested  
 75 Hickok 750 Tester  
 25 RCA WT-110A Tube Tester  
 80 Hickok 123A Cardmatic Tube Tester  
 25 ElectroVoice T2 Horn Drivers (5)  
 40 Western Electric Racon 19 Horn Driver  
 25 Atlas Sound 4pcs Horn Driver  
 pass University Sound Altec ID-40A Drivers  
 55 Jensen M7F Speaker NF-300 Driver  
 pass Atwater Kent 19  
 pass Zenith Chairside Zephyr 9 tube  
 75 Carver SD/A-490T 1991 Ref CD Player  
 pass E.J. Rose Electro Therapy 1930s Quack Med  
 160 Scott Double Stereo Dealer Sign 70s  
 50 Sylvania Tubes 1960s Case  
 150 Scott Chrome Tube Radio Amp Speaker 1920  
 200 RCA AP-100L Mini Console TV 1959  
 65 Toshiba 7TH 425 Fan Wall Radio  
 140 General Electric 78 Player 1930 Childs RP w Records  
 60 1932 Philco Model 71, not-working  
 70 1932 Belmont Model 60; working  
 65 1932 Philco Model 81, working  
 70 1932 Philco Model 81  
 75 1932 GE Model Rt52  
 25 1947 RCA Model 60, TV service caddy, late 1940's  
 30 1932 Crosley Model 56TP, not working  
 pass 1922 Kennedy 220/525, 2 pieces, untested  
 pass 1948 Hickok Model 532, tube tester; working  
 50 1970 Zenith Sign, 1970's working  
 160 1937 Zenith Model 5-J217, Cube Radio, working  
 550 1936 Zenith Model 5-S-127, Tombstone, working  
 100 Early 50's Electro-Voice Model 650, Microphone, working  
 250 2001 Weltron, yellow, working  
 25 1934 Philco Model 60 Cathedral, working  
 55 1933 RCA Model 120 Cathedral

70 1924 Ware Model Type T, Table Top  
 40 1936 Crosley Model 167 Cathedral  
 50 1925 Sparton Model 5-26, Table Top  
 25 Stewart Warner Model 301-A, Short Wave Converter  
 55 1933 Philco Jr Model 80, Cathedral  
 40 933 RCA Model 121, Cathedral  
 275 Atwater Kent 555 1933  
 600 Atwater Kent Tri-fold Sign  
 525 Jackson Bell Model 84 Peter Pan 1932  
 550 Utt Williams Aeroloop Santa Anna  
 pass Army Air Force Headset  
 pass DeForest D-10  
 375 Atwater Kent Plaque  
 pass Atwater Kent Lampshade  
 55 1939-1941 Stromberg Carlson Model 410H  
 120 Amico Moonship SR-7 solid state, AM, working  
 25 Hewlett Packard 1200B, 500 KHz oscilloscope; working  
 pass 1945 Belmont Boulevard 1st pocket radio, great condition  
 pass Admiral 398-6M Gloriton Onyx Beetle  
 150 Atwater Kent 206 tombstone 1934  
 70 Box of Solder on Rolls  
 60 Box of Solder on Rolls  
 70 Box of Solder on Rolls  
 60 Box of Solder on Rolls  
 70 Box of Solder on Rolls  
 55 Box of Solder on Rolls  
 pass EV SP12B 1970s 12" 2 way Speakers  
 pass Hallicrafters R274-FFR SX-73 1951 RCVR  
 pass Dayrad Countertop Tube Tester 1934  
 25 Concord AM/FM/SW 60s German Radio  
 50 Hallicrafters Airline 1946 7" B&W TV  
 50 RCA 630 10" B&W TV  
 pass Pioneer 737 AM/FM Stereo Receiver 1975  
 pass National 7" TV 1947  
 pass RCA 891R Transmitter Tube 1965  
 pass Raytheon Image Orthicon 1956  
 25 Meck 60 Watt AM Transmitter 1943  
 40 Guild Spice Chest Radio  
 65 Grebe Syncrophase  
 400 Stromberg Carlson 130U 1937  
 25 Philco 920  
 40 Lafalette C-117

100 Western Electric Black 1924  
 90 American 10D Black Speaker  
 45 Mantola 1930s  
 25 Philco 14LZX Chairside  
 45 Majestic 1931/32 Ad Poster  
 200 RCA 66X7 Catalin 1948  
 55 Crosley 56TD 1965  
 35 Motorola 5X1 Circle Grille  
 55 Crosley E10W 1964  
 2400 Silvertone Rocket  
 150 Abbotsware Horse with Saddle  
 pass Eico Tube Tester  
 270 Remler Scottie  
 240 Airite 1935  
 280 Atwater Kent Lamp  
 25 Radio Station Programs 33RPM 2 stacks  
 25 Radio Station Programs 33RPM w/ Commercials  
 50 Telefunken 5261W Deluxe 70s SW/AM/FM  
 75 Telefunken 5216W Deluxe 70s Restored  
 500 McMurdo Silver Masterpiece III in Lyndon Cab  
 80 Philco 16B Tombstone  
 25 Pair of EV Coax Speakers w Crossover  
 pass 2 Midwest Chassis  
 130 Crosley Model 11-100U; not working  
 100 Pla-Pal, wood & deco metal grill; not working  
 120 Shure Model 55s, original; working  
 25 Transcription records (3)  
 100 Fisher MXP-100; working  
 25 1930's Jackson Model 635 tube tester  
 pass Kenwood Model KF-8011, audio de-noiser tape; working  
 pass Numark Model TC4100 Stereo Tape Deck, calibrator mixer; working  
 pass 1937 Supreme Model 85  
 pass 1925 FADA Neutropyne; working  
 pass 1960's Knight space spanner; kinda working  
 85 1912 Believe it is a DUCK, Original loose coupler, original  
 50 1959 Continental 6 Transistor  
 825 Zenith 7S232 Walton  
 230 Kennedy 110  
 475 RCA Sign  
 200 Fada 652 catalin  
 250 Airline Lone Ranger  
 45 Emerson Tombstone

# RADIOFEST UPDATES

RADIOFEST 2023 Photos

photos by Daniel Schoo











# ARCI ONLINE

By Tom Zaczek

## **ARCI VIRTUAL FORUM #26**

**SATURDAY SEPTEMBER 23, 2023, 10AM CT**

*If you are reading this after September 23rd, please note the next Virtual Forum is November 18th, 2023.*

Join in on your computer, pad or phone to be a part of our Virtual Forum Video Meetings. You don't need to be an ARCI member!

***ARCI's Virtual Forum continues on!*** Join in to watch and interact with presentations in the areas of radio restoration, company history, and technology, just to name just a few. Also, there are short "Show and Tells" presented! **See the upcoming September 23rd agenda below!**

**How to join in:** Stay tuned to the emails from ARCI for the registration link for this meeting. We send one out a week or two before and the day before the Virtual Forum.

Almost immediately after registering, you will receive a confirmation email containing the link required to join the meeting. **IMPORTANT-** You need to receive the confirmation email back because this link gets you into the meeting when the time comes. So, if you don't receive the confirmation email, it could be in your spam folder.

Reminder: ARCI is on YouTube. If you can't attend the meeting, you can watch it on-line later! Prior Virtual Forums are available on ARCI's own YouTube channel: <https://www.youtube.com/channel/UCyMw9QGrcvquC1vZBvHWbQ>

Check it out! Each video has a "table of contents" (where it says SHOW MORE) beneath the main video window that you can click on and go directly to that topic or presentation, so it's easy to watch just one specific presentation. Visit ARCI's YouTube channel where you can click the free "subscribe" button and get notified when a new video comes out.

There is now also a new complete index of all the prior presentations with links that go right to the specific presentation. On the YouTube home page linked above, go to the "ABOUT" tab and under "LINKS" you will see the link to this index. Here it is: [Full Index of Presentations](#) After clicking this link if you do not go direct to the index, please click the "GO TO SITE" link that appears.

**AGENDA** (may be revised without notice)

9:45 AM – OPTIONAL PRE-MEETING – Time to get logged-in and troubleshoot any access issues.

10:00 AM – Meeting Agenda

- **INTRODUCTION** – *Tom Zaczek*
- **WE'RE ON YOU TUBE** – *Matt Pollack*
- **PRESENTATIONS:** we have three outstanding presentations lined up:

**The Pavek Museum** - Nina Larson of the Pavek museum in Minnesota will take us through an overview of the museum and show us some unique and interesting exhibits.

**A Collection of Repwood Radios** - Forrest Wagner has a unique collection of repwood radios. You don't see many repwood radios these days at our swap meets and out in the wild, so tune in for a look at this fine collection.

**The Philips 203/204U of 1941** - Robert Lozier brings another in-depth look at a radio of historical significance. This was Philip's first AC/DC radio made under the German occupation of Western Europe. You won't want to miss this!

- **SHOW & TELL, TIPS & TECHNIQUES** 1-to-3-minute *informal* presentation of something you'd like to share with the meeting ... Join in and spend a few minutes to show your item, a helpful tip, radio restoration technique, or how you solved a tough restoration problem.
- **ARCI SWAP MEETS** - An update on the upcoming swap meet and on the one we just held
- **ITEMS WANTED----ITEMS FOR SALE** If you want to offer something for sale OR see if others have what you're looking for, please use this time to discuss it.
- **OPEN SESSION:** Non-moderated chat session as time permits.

12:00 Noon – Close

### **Planned ARCI live Virtual Forum video meets**

After September, the last of 2023's Virtual Forums is November 18, 2023.

We are planning 5 Virtual Forums for 2024. They are *generally* on the 3rd Saturday of the month. We take most of the summer off so as not to compete so much with vacations and travel to other clubs' events. Also, in months where ARCI has an "in person" swap meet, we are not scheduling a Virtual Forum.

Here is the 2024 plan, exact dates will be firmed up in the December newsletter: January, March, May September and November.

## Be a presenter!

We have seen so many great presentations this past year by folks that *never* made a presentation before! You can do this! The Virtual Forum meeting team can help you learn how to make a Power-Point presentation, or prepare some simple photo slides. We can help you dry-run it on Zoom. It's easy! Share your project and passion with a 10-minute or longer presentation. Take that first step and send an email with your presentation idea to [remote-events@antique-radios.org](mailto:remote-events@antique-radios.org) .

## Become a member of ARCI!

These meets are open to everyone interested in antique radio. You do not need to be a member of ARCI. If you like these meets, your support of the organization is truly appreciated. Please consider joining. Your membership dues help support the club's activities. Click this link for the membership form: [Antique Radio Club of Illinois \(antique-radios.org\)](https://antique-radios.org) or [membership form editable pdf](#) or use the form on the last page of this newsletter.

I look forward to the upcoming meetings and hope you get a chance to attend. I encourage you to be a presenter to share your experiences, knowledge, and passions about these old radios!

~ Tom Zaczek

**The ARCI Virtual Forum Team:** Tom Kleinschmidt, Bill Cohn, Matt Pollack and Tom Zaczek are the ARCI On-Line Meeting Team and can be reached via email at [remote-events@antiqueradios.org](mailto:remote-events@antiqueradios.org)

## ***ARCI VIRTUAL FORUM #27***

**SATURDAY NOVEMBER 18, 2023  
10AM CT**

### **Remembering ARCI members who have passed**

*MARTIN LINKE  
SEPTEMBER 03, 2023*

Marty worked his way up to an amateur radio antenna sales manager and obtained his amateur license WD9ABG. When his employer, Avanti, was sold to Antenna Specialists, Marty and a friend became owners of Dytec Inc., a successful electronics rep company. Marty was with Dytec until his passing on September 03, 2023. Marty's avocation was restoring All American Five tube receivers and similar portable transistor radios. He was always an upbeat guy with a wonderful dry sense of humor. Marty had recently been in poor health and spent the better part of the last month in the hospital.



## RADIO TECHNOLOGY BASICS

This is from the Official Radio Service Manual, Volume 6 by Radcraft Publications, Inc. 1936, page 1200. Note: This information is valid for all tube manufacturers.

Raytheon tubes can be used as replacement for tubes of other manufacturers as follows:

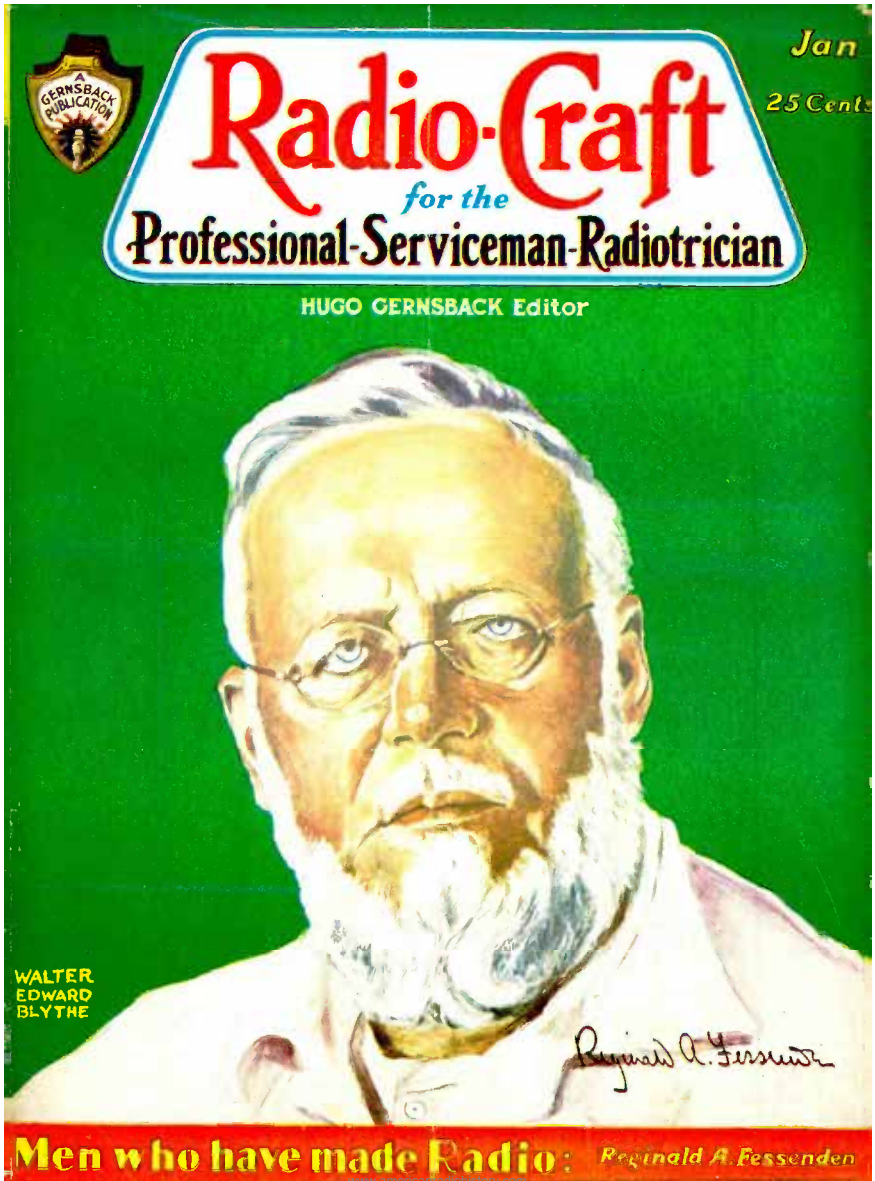
- A. Tube types having the same RMA type numbers (with a letter between two numbers—as 6A7) are interchangeable.
- B. On standard tube types with two or three figure type numbers, the last two figures form the significant type numbers regardless of letter prefixes. For example, the Raytheon 45 will replace UX-245, CX-345, or SX-245 tubes.
- C. Types differing in number by the suffix letters "A", "C", "H", "MG", or "V" are interchangeable in general, regardless of this letter. For example the 12A may replace a 112 or 112A, the 2A3 may replace a 2A3H, and the 6A8 may replace a 6A8G or 6A8MG.
- D. Shielded types distinguished by the added letter "S" may or may not be interchangeable with types without this letter suffix.
- E. Exceptions to the above tubes are types RA-1, RE-1, SO-1, KR-20, KR-22, 43MG, 59B, 132B, Kellog 401, 432A, 482B, 481, 431A and 25Z5MG which do not correspond with types 1-V 20, 22, etc. The 01A (201A) is not interchangeable with the 1-V or 1, and the WX-12 is not interchangeable with the 12A (112A). Types 57AS, 58AS, 183, and 485 may be replaced only by Raytheon tubes bearing the same full type numbers.



## Men Who Made Radio

*Sorry ladies, it was a male dominated world a century ago.*

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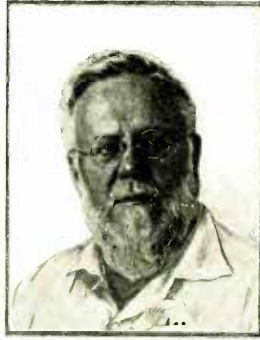
# Men Who Made Radio—Reginald A. Fessenden

THE FOURTH OF A SERIES

**I**N the ranks of the scientists and inventors who have made radio what it is today, it is hard to classify the subject of this brief sketch as belonging more to one division than to the other. In both roles, he has been one of the most striking figures; and his versatility, be it said, has extended throughout many fields. There is little which he has touched, in the field of knowledge, to which he has not made distinct contributions. Yet, pre-eminent among Professor Fessenden's achievements are the developments which he made in the art of radio telephony—that department of radio most interesting for the layman, because it includes broadcasting.

Reginald A. Fessenden was born in Milton, Province of Quebec, Canada, although of Colonial American ancestry. While yet a very young man, he became associated with Edison, as an electrical engineer, and later as chief chemist. He later worked with the Westinghouse Company; and in 1893 became professor of electrical engineering in the Western University of Pennsylvania, at Pittsburgh. Here, as early as 1895, he began experimental work with radio waves (or "Hertzian," as they were then known). In 1899 he there made radio-telegraph demonstrations with the idea of facilitating the work of the Weather Bu-

reau. He soon became associated with that organization; and later the technical guide of the National Electric Signaling Co., one



of the rival organizations which were then pushing the development of "wireless telegraphy."

But Dr. Fessenden, a master of the dynamics of sound—among many other things—saw possibilities in "wireless" of more than telegraphy. The Hertzian waves used in spark telegraphy rose and fell in "damped" oscillation; Fessenden conceived the possibility of generating undamped or "continuous" waves, and imposing upon them the modulations of speech. In 1901 he accomplished this feat, and his was the first human voice to be borne into space on a radio "carrier." To this success, he added that of the rectifying electrolytic detector, the successor of the coherer and the precursor of the crystal and the tube. So, also, Fessenden conceived and patented the idea of the radio-frequency alternator. He worked in this field for years, increasing more and more the world's knowledge of radio, and in 1909 added the rotary spark-gap to his previous inventions, thereby extending the range of "wireless" signals. Among his earlier suggestions we find, as well, the use of the principle of heterodyning; which was compelled, however, to wait the development of the tube oscillating circuit for its perfected application. In 1909 Fessenden successfully demonstrated radio telephone operation between Brant Rock, Massachusetts, and Washington.

(Continued on page 336)

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January, 1930

### Reginald A. Fessenden

*(Continued from page 309)*

Replacing his radio-communication work by other activities, Dr. Fessenden has since devoted a considerable portion of his time and genius to the subjects of navigation and signalling at sea. How well he succeeded in this field may be shown by the fact that, less than a month ago, the medal for promotion of safety of life at sea, awarded to him by the American Museum of Safety, was bestowed upon Dr. Fessenden for more than a dozen nautical safety devices: including the fathometer, which permits taking soundings without the use of a line, by reflection of sound waves; direction finders; and many other electrical and sonic inventions. The medal was received at an official gathering in New York by his son, Major Reginald A. Fessenden, Jr., in the absence of the doctor, who is now in Bermuda, the scene of his earliest post-college activities.

It may be of interest to know that, in addition to many works on mathematics and other forms of pure science, as well as its applications, Dr. Fessenden has made contributions to archeology and to ancient history. The interests of his restless and inquiring mind, in fact, have been almost universal; but no other branch of human activity, after all, is so deeply indebted to him for practical contributions as the science and art of radio telephony.

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This article first appeared in the December 1929 issue of *Radio-Craft* magazine, page 247. EdNote: It is recreated here for ease of reading. View the original at <https://worldradiohistory.com/Archive-Radio-Craft/1930s/Radio-Craft-1930-01.pdf>



## Emergency Broadcast System

**On Wednesday, October 4, 2023** a test is planned of the nation's Emergency Alert system, to ensure everything is working correctly in the event of a national disaster or an attack. Every cellphone, TV and radio in the US should blare out the jarring electronic warning of an emergency alert, accompanied by a notice something like: "This is a nationwide test of the Emergency Alert System, issued by the Federal Emergency Management Agency, covering the United States from 14:20 to 14:50 hours ET. This is only a test. No action is required by the public." On cellphones, it will come as a short text message: "THIS IS A TEST of the National Wireless Emergency Alert System. No action is needed." Phones on which the main menu is set to Spanish will see the message in Spanish.

The message will go out at the same moment across every time zone in the U.S (12:20 p.m. Central time). It will go out only once, and will last about a minute. Should there be "widespread severe weather or other significant events," it could be postponed to the backup testing date of Oct. 11.

The first national emergency broadcasting system in the U.S. was created in 1951 under President Harry S. Truman. CONELRAD (Control of Electromagnetic Radiation) was intended to allow continuous broadcast of civil defense information using radio stations to warn the nation in the event of war, threat of war, enemy attack or other grave national crisis.

CONELRAD was replaced by the Emergency Broadcast System (EBS) in August 1963, and was later replaced by the Emergency Alert System (EAS) in 1997.

The first nationwide test of the EAS took place November 9, 2011. That check revealed problems that could have meant not everyone would hear the alert in the event of a real emergency. The system was subsequently improved and strengthened.

The upcoming test on Oct. 4 will be the 7th nationwide test sent to radios and televisions, the 3rd to consumer cellphones and the second to all cellular devices.

Although the system was never used for a national emergency, it has been activated more than 20,000 times between 1976 and 1996 to broadcast civil emergency messages and warnings of severe weather hazards.

Mistaken messages have occasionally been sent out that triggered false alarms at local levels, especially in the 1950s when the system was new. The most recent false alarm was in 2018 when the Hawaii Management Agency system sent an alert warning of a ballistic missile threat. It took 38 minutes to clarify that during a shift change, someone had selected the wrong item on a computer.

## Refurbishing a Zenith 9H882R LP

*by Bob Lang*

I had the opportunity to refurbish a Zenith chairside radio phonograph. Tracy (the owner) asked ARCI for assistance as it was his father and mother's unit. They were married in 1948 and obtained the Zenith in 1949. Tracy said it is a sentimental unit that his dad would always sit next to after work. He made the journey from Bloomington to see if it could be fixed.



*Push button  
switch*

It was unique in that the phonograph has a motorized lift that slides out from the side cabinet of the radio. The push button switch above the radio dial, operates the motorized phonograph unit to have it slide in / out.

To review the unit, you must force open the side door. This provides a general review of the internal workings and access to the phonograph.



The challenge was to get to the radio; this was the main request by the owner - to have it working. You must pivot the radio cabinet on the narrow side opposite the pivoting door, then physically turn the motor drive unit, to extend out the phonograph. There is no easy access to get around the lift mechanism without doing this.

Once extended you must remove the drive screw from the phonograph, but you MUST lock the pivoting mechanism in place before removing the drive screw from the phonograph. I did this by wrapping solid wire around the metal parts and not on plastic slides.



The slide holder that the screw fit into the phonograph had both grommets missing and the material disintegrated away. (left)

Once this was taken care of, access to the radio was available. It was removed and worked on separately.

This chassis had a stamped model of 9H982r. There was no listing of this and asking for assistance from ARCI provided directions on a 9H882r. This was spot-on with the circuit diagrams, given the power supply circuit installed. The serial started with a D240xxx which has no listing.



Reviewing the schematic and seeing where I could place a 3-wire cord and fuse had limited access. But there was a small section that I was able to place it in. I always provide protection to limit any shock hazard if one were to occur.

Unit must be removed from the unit to be able to work on it. Now I could remove the brittle cord and install the new cord and fuse. I also noted the proper model number for future reference



Replacing the power supply capacitor was extremely challenging based on how the parts were so compact. One electrolytic was under the volume control and the other was under the slide switch.



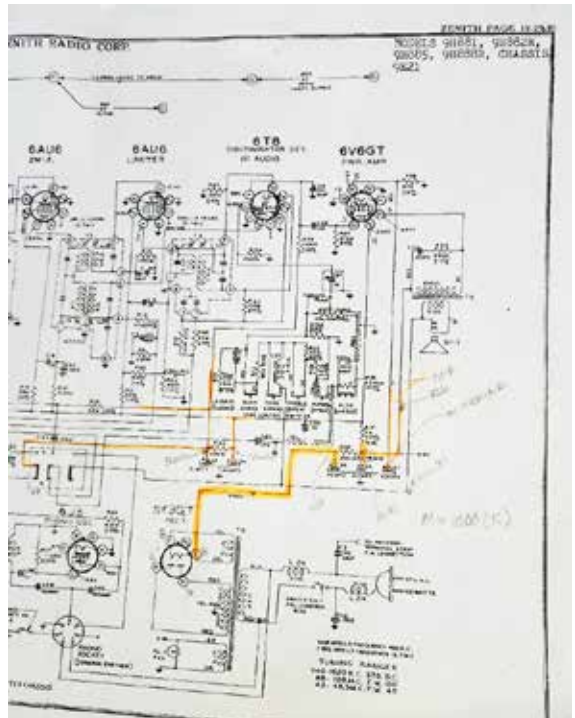
The only option was to remove the existing capacitors to reduce the amount of wire disturbance. I removed the capacitors and placed terminal strips and added individual ones to meet the power supply requirements.



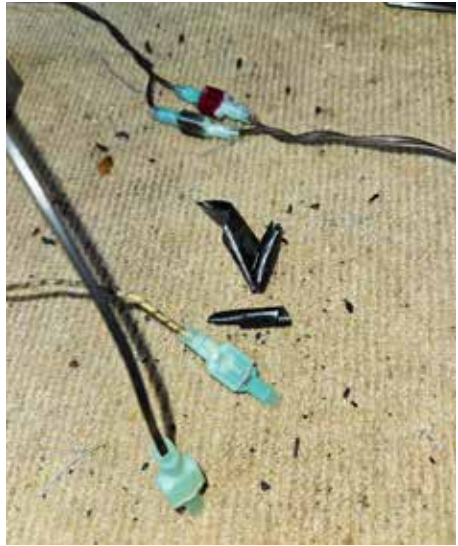
Some additional capacitors were changed, as well as the brittle hook up wire was replaced.



Verification of capacitor wiring was highlighted; I also placed a fuse in-line with the main transformer on the red/black wire. This provided some protection for the power transformer and radio. The phonograph then hooks up the main power lines.



I added removable insulated lugs to allow for the speaker and antenna to be disconnected when needed.



Here is the strain relief and fuse added to the chassis with additional connections to the new capacitors

Here are some of the brittle wires that were replaced with new.





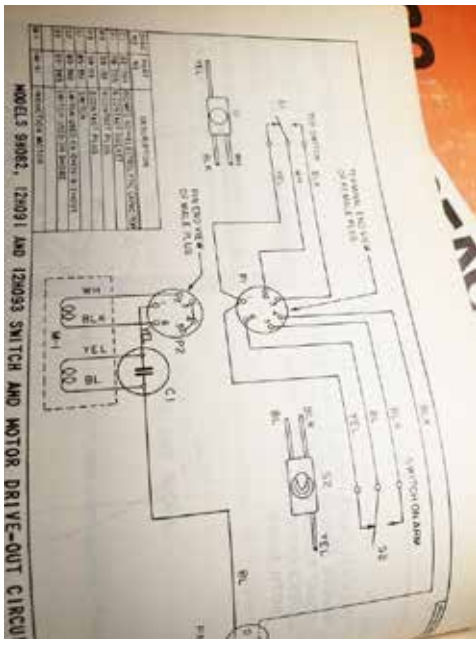
Testing the radio and verifying calibration was done. It played well on FM and AM on the test bench. Installing it in the cabinet and verifying operation provided an annoying chirping noise on FM band. It was found that a Wi-Fi booster in the garage was the issue with the interference. Removing this eliminated the noise and it operated as needed.



I hope this provided some insight on addressing a radio like this and some of the issues to be aware of.

On a side note, since the owner did not want the motorized unit to be reviewed that was left as is. I verified that P3 did have 120v and informed the owner about it.

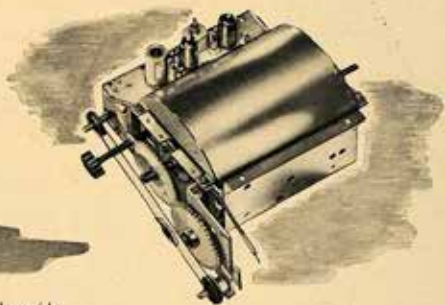
I reached out to ARCI as I wanted to help him with a schematic of it. Tom Kleinschmidt was able to provide directions with this and it is called a motor drive out unit. I provided this information to the owner for his back up.



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TIME, JANUARY 29, 1951

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A business card for 'Just Radios' featuring a vintage radio on the left and electronic components (a capacitor and a resistor) on the right. The text on the card includes the company name, contact information for David and Babylyn Cantelon, and a website and email address.

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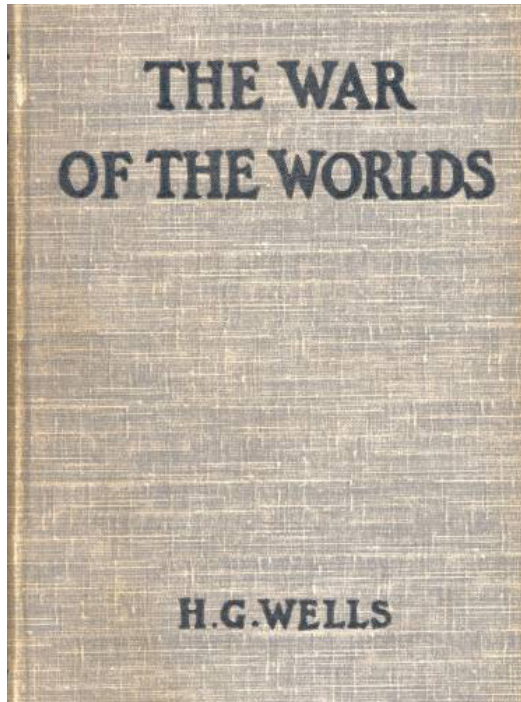
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The War Of The Worlds first edition cover.

The War of the Worlds is a science fiction novel by English author H. G. Wells. It was written between 1895 and 1897, and originally serialised in Pearson's Magazine in the UK and Cosmopolitan magazine in the US in 1897. The full novel was first published in hardcover in 1898 by William Heinemann.

*About our cover: A youthful Orson Welles*

*October brings Halloween and the anniversary of the 1938 Halloween Eve broadcast of The War Of The Worlds by Orson Welles, which has undoubtedly become the most famous unintended 'misinformation' ever broadcast.*



# ARCI NEWS

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