

### THE OFFICIAL NEWSLETTER OF THE DVHRC

# **Club Plans for 2024**

DVHRC kicked off the year with our first meeting held January 9<sup>th</sup> via Zoom due to that night's horizontal rain and wind storm.



Please note that weather cancellations are posted on the Reflector and the website https://dyhrc.com/. by midafternoon. A download of the Zoom program updates may be required if you have not used Zoom lately and a link to meeting will be included on Reflector. The Reflector now enables larger attachments and many report improvements in its capabilities. President Jarret Brown reviewed initiatives for 2024 which promises to be a fantastic year for us! An event of great importance will be the 50<sup>th</sup>

Kutztown Radio Show L, slated for September 20- 21, 2024. Due to calendar creep, that's 5 days later this year. We'll be planning the festivities as a group at our inperson Telford meetings to come but some initial appeals include identifying an impressive raffle radio akin to former Bendix Catalin or even better! Please let us know if you see such a set offered for acquisition! Also, a special meal on Friday night will be planned. Before all that happens, Kutztown XLIX will be held on May 10 and 11. For meetings, Jarret reminds us that we are always looking for your presentation on hints and kinks you have utilized. We'll also enhance/update the member directory including a picture of each member. Jarret is planning on recording more Antique Radio Podcast programs. See the DVHRC website for his first 3 and future presentations.

# **2024 Monthly Themes**

The Board has proposed these themes for our Telford meetings. Access to these can also be found on our web page Events tab. *Images or associated documents from your flash drives can be projected on our big screen.* 

Meetings begin at 7:30 PM except August's Tailgate at Renningers.

Feb 13- Leatherette Radios.

Mar 12- Green Radios.

<u>Apr 9</u>- Kutztown XLIX Planning, Theme: Philco Radio Presentation

May\_- No Monthly Meeting.

<u>May 10 & 11</u> – Kutztown XLIX Antique Radio & Vintage Audio Show.

### **WINTER 2024**

Jun 11- How do you Display your collection.

Jul 9- Audio Gear.

<u>Aug xx- Saturday Date TBD</u>- Tailgate Swap Meet under the pavilion at Renningers, Kutztown 10AM.

<u>Sep 10</u>- Kutztown L Preparation.

<u>Sep 20 & 21</u>– **Kutztown L** 50<sup>th</sup> Antique Radio & Vintage Audio Show!

Oct 8- Store Brand or Off Name Radios.

Nov 12- Setchell-Carlson Radios.

Dec 10- Christmas Party at the Red Cedar Grille, Colmar.

## 2023 Christmas Party

DVHRC members had a festive night back on Dec. 12<sup>th</sup> at the Red Cedar Grill, Colmar. Thanks to Tom Spiegel for his organization of this event.





Delaware Valley Historic Radio Club PO Box 5053 New Britain, PA 18901 <u>www.dvhrc.com</u>

The Oscillator is the quarterly newsletter of the Delaware Valley Historic Radio Club.

Articles on radio and television history or collecting can be submitted by the 25<sup>th</sup> of month prior to quarterly issue dates of April, July, October and January to the editor at gdottor@yahoo.com.

Personal views, opinions and technical advice do not necessarily reflect those of members, officers or Board of Directors of the DVHRC, nor is the DVHRC responsible for any buying or selling transactions.

Dues are \$20 per year and can be paid at a meeting or mailed to the above address. Meetings held 2<sup>nd</sup> Tuesday of each month at Telford Community Center.

#### **DVHRC Board of Directors**

President: Jarret Brown / 610-704-0803 Jpb205@lehigh.edu Vice President: Tom Spiegel Adxymox62@netzero.com Secretary/Treasurer: Dave Snellman / 267-328-8857 dsnellman@comcast.net At Large members: Fred Saul / 484-357-6537 fsantiqueradio@dejazzd.com

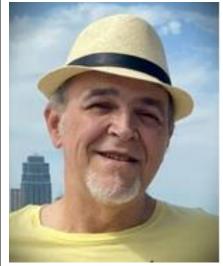
Greg Dottor / 610-844-6326 gdottor@yahoo.com



**Above:** Some nice sets were received, a just reward for participation in the Xmas exchange!

## In Memory of Ron A Ramirez

Sadly, vintage radio has lost another great one. Ron was noted as *the* expert in Philco radios and near and dear to us of DVHRC and the vintage radio community.



Following is an excerpt of the obituary of this kind man.

Ronald (Ron) A. Ramirez passed away peacefully with his wife by his side in his home in Ferdinand, Indiana on November 22, 2023 at the age of 63 after a long battle with cancer. He was born on April 16, 1960 to Mary (Alvey) and David Ramirez in Kansas City, Missouri.

Ron is survived by his loving wife Debbie (Recker) Ramirez. Ron has two daughters: Kandi (Jason) Tyson and Angela Ramirez and three grandchildren.

Ron obtained an associate degree in information technology. He worked as an IT specialist for many years until his recent retirement.

When Ron asked Debbie to marry him, the proposal came with a special clause: If you say yes to adding me in your life, you are also saying yes to my radio collection! Together they created a cozy mid-century home filled with Ron's collection of antique radios, furniture, and décor of the 1950s and 1960s. Ron was known as "Mr. Philco" all over the country because of his thorough knowledge of Philco radios. He published two books about them and was well known and respected by other radio collectors around the world. He started the Philco Radio website www.philcoradio.com

, official Facebook group titled "Philco Radio Enthusiasts," and he maintained a blog called "Ron's Radios." Ron was a quiet man with a witty sense of humor. He looked forward to springtime and seeing the daffodils blooming. His loyal cat, Viktor, was always by his side. Ron will be missed, but he leaves behind a legacy.

Joe Koester in his condolence stated: "Ron was a giant of a man within the Antique Radio Community. He was extremely knowledgeable and was always more than willing to share that knowledge and to help all of the other collectors. He always had a smile on his face when you met him and was a very pleasant and giving person. He has helped innumerable collectors overcome daunting technical issues. I don't know who will ever fill the void of Philco knowledge. Ron will be missed by so many of us, but he leaves a lasting legacy, and will be remembered by so many of us. Rest in Peace old friend, you did good while you were with us."

https://antiqueradios.com/forums/viewtopic. php?t=432037&hilit=philco

### Meeting of November 14, 2023

The theme was *My Favorite Console*. The idea of this meeting was to share via projection on the big screen from media files, our favorite console(s). Many of these sets have important stories behind them as we mark that special time within our hobby, lessons learned in restoration, connections with their former or perhaps new owners, exceptional technology and more. We all acknowledged the difficulty in handing off these sets to preserve for a new generation.

Terry Skelton started us out this night with a Bang & Olufsen console, acquired by his father when stationed in Frankfurt, Germany. It had been purchased @ 1964 or so at a Canadian PX. This innovative and early solid state model, although not as fancy as the Grundigs of its time, is a simple, clean design offering from this Danish company. As many of us, Terry ponders what he will do with this console someday.



Above: Terry Skelton showed a Bang & Olufsen Beomaster console, likely the 900K mounted within a mid-century modern Danish cabinet. Many B&O sets use a "Beo" naming prefix. Sadly, furniture collectors may remove the chassis for their rosewood cabinets. https://www.chairish.com/product/1480419 5/1960s-mid-century-danish-modernstereo-console-rosewood-hifi-bang-andolufsen

**Below:** The same receiver in a compact cabinet version.



https://beocentral.com/beomaster900K https://en.wikipedia.org/wiki/Bang\_%26 \_\_Olufsen



**Above:** Mike Koste showed his '37 Zenith 8-S-154 console, purchased by his wife in 1979, then and still in working order as received. http://www.tuberadioland.com/zenith8s 154h\_main.html

**Below:** Mike's next console was a 1936 Philco 116X. Dan Schwartzman restored the electronics of this unit and the set, with its passive bass radiators, and although without adjustable bandwidth, it fills up the room showing how good and AM can sound. Philco had several editions of their High Fidelity line. http://www.tuberadioland.com/philco11 6X\_main.html



**Below:** Jarett Brown showed a 1936 Stewart Warner Console model 1465 with the seven tube R-146 chassis. https://www.radiomuseum.org/r/stewart\_ wa\_1465.html



Jarret said that this radio, a real value at \$7.50, took many hours of work to strip and refinish over a year's time. Take care in understanding the hours of time involved. Jarret does most of his lacquer spraying in May and September when the drying process is aided by lower humidity. Doing so in a humid environment can lead to trapped moisture and having to start over. This console features the attractive "Magic Dial" featured in many SW products of the time. A similar radio in table form shows its spinning "magic" pointer. https://www.youtube.com/watch?v=PfU **TbDKLIaU** 

Stewart Warner was a diversified company known originally as an auto parts and speedometer manufacturer. The company suffered from overproduction of radios and had to sell off excess inventory at low prices on several occasions. Fortunately, the company's automotive parts business did better and kept the company healthy. They did produce many attractive radios in their Chicago production facility.

**Below:** Jarret is looking for one of the more attractive and rarer 1939 Stewart Warner models, the Model 91-513 "Spade" shown below, again sporting a magical feature. In addition to standard dial tuning, the set features four mechanical push-buttons for station selection, whimsically referred to by Stewart Warner as the "magic keyboard".



http://www.tuberadioland.com/stewartW arner\_91-513.html



**Above:** Bob Seiwell showed a 1931 Philco 90 lowboy in a pristine cabinet he picked up for \$40 at a (Schoolly's) Mountain Tavern, NJ sale many years ago and it still works well. Later Philco 90's utilized push-pull 47 pentodes enabling AVC as opposed to the original 45's. https://www.tuberadioland.com/philco9 0\_lowboy\_main.html



**Above:** Jiri Placek showed the massive Philco 38-690, the ultimate in the Philco Super Hi-Fi line. The 1938 \$400 price would equate to \$8,500 in 2023, certainly not a radio for the common man. Jiri purchased this from DVHRC founding father, Tony Mollittiere in 1987.

Philco 38-690XX Super 'Hi-Fi' Console Radio (1936/37)

June of 1937 with a list price of \$395 20-tubes: 14-tube tuner + 6-tube power supply and amplifier 14" woofer + 2x 6" tweeters (with crossover) + 4x 8" acoustic clarifiers automatic bass compensation (Loundness control) variable IF bandwidth (3 out of 4 IF transformers) "automatic" tuning "automatic" tuning (AFC) Philco's Foreign Tuning System 5 bands: 530-1600 kHz, 1.58-4.75 MHz, 4.7-7.4 MHz,7.35-11.6 MHz, 11.5-18.2 MHz 5 bjlit.Stator Tuning Condensor Foreign Tuning System optimizing sensitivity to tune and separate stations from noise Glass tubes only (no metal RCA) no eye tube Many of Philco's console models, including the 690XX, came fitted with a protective rear screen. However this was a very flimsy affair

and is long gone from most sets today.

http://www.tuberadioland.com/philco38-690\_main.html

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**Above**: The 38-690's control panel (having an angle of approximately 30 degrees to the vertical) was initially used on eight of their 1938 models and through extensive advertising, gave rise to the popular marketing slogan of the day: "No Squat, No Stoop, No Squint".



Jiri stated that all 20 tubes were glass Philco branded (no metal jackets) and that sensitivity at the higher SW frequencies may be attenuated and limits this set's upper coverage at 18MHz. Philco used many innovative methods (see previous link) to increase selectivity and sensitivity with varied circuit designs differentiated by band. Observers today generally agree that Philco's 1937 and 1938 690 models sound as good as, if not better than, almost anything else produced during radio's golden era, regardless of price- a tribute to Philco and the quality of their engineering. During this period, the company, under the leadership of James Skinner, was a text-book case of how to do things right, and for whom almost everything touched seemed to turn to gold.



**Above and Below**: Jiri's E.H. Scott Allwave 15 is even more impressive with the doors closed showing off this "Rosalyn" cabinet's Honduran mahogany panels.

E.H. Scott Allwave 15

1934 15 tubes: 12-tube tuner + 3-tube power supply and amplifier Early version with <u>Wunderlich</u> tube detector 12" Jensen speaker BFO

Static control (Squelch)

4 bands: White 540-1500 kHz, Green 1.5-4 MHz, Red 4 -10 MHz, Purple 10- 23 MHz



The Allwave 15 used a Wunderlich twin triode full wave detector. https://en.wikipedia.org/wiki/Wunderlich (v acuum\_tube)

Metal tubes enabled the SW range up to 23 MHz and a BFO allows listening to various ham modes.



**Above and Below**: Jiri Placek showed a 1936 McMurdo Silver Masterpiece V. including a Jensen 18" speaker especially designed for this set- there is also an option for a tweeter. This radio is the result of partnership with Hallicrafters. https://antiqueradios.org/gazette/silver1.htm



#### McMurdo Silver Masterpiece V

1935
 20 tubes: 14 tuner + 6 power supply and amplifier
 2x 6L6G to 18" Jensen speaker, optional tweeter eye tube
 BFO
 Holliereftere

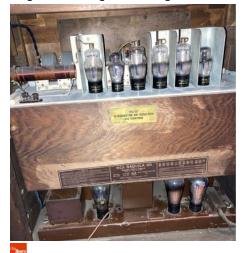
Hallicrafters
 Audio expander

Narrow / wide IF control - wide IF single stage or additional 2 IF stages for DX
 Fast / slow tuning
 5 bands: 140-420 kHz, 540-1600 kHz, 1.5-5.6 MHz, 5.7-18.5 MHz, 17-65 MHz
 metal RCA tubes (hence 65 MHz)

Metal tubes enabled reception up to 65MHz. IF amplification stages are selected; 1 of 3 for local, 3 for SW. Jiri had to work hard to sell another McMurdo via collector groups to ensure the Jensen speaker would not be cannibalized for profit & this console preserved.



**Above and Below**: Greg Dottor displayed a 1930 Radiola 80, a superhet featuring the 24 screen grid tube for increased amplification. The receiver chassis has all newer Philco tubes whereas the power supply/AF, original globes. Greg's set is missing the back original cover.





ELECTRICAL SPECIFICATIONS

EDBOTRICITE OF EOFFICIATIONS	
Frequency Rating	
Power Consumption	
Recommended Antenna Length	
Type of Circuit	
Type and Number of Radiotrons	4UY-224, 2 UY-227, 2UX-245, 1 UX-280-Total, 9
Number of Radio Frequency Stages	
Type of First Detector	
Number of Intermediate Stages	
Type of Second Detector	
Number of Audio Stages	1 (Push-Pull
Type of Rectifier	
Type of Loudspeaker	
Wattage Dissipation in L.S. Field	
L'adistorted Output	3.0 Watt

The story behind this set includesrestoration by club member Mark Hilliard for the third generation of its original owner. It had been located in the same dining room in Bangor, PA for its entire life when they requested Mark restore their grandfather's radio. Then, as this new owner was downsizing, Mark called attention to its availability and Greg made an offer to acquire. It features original cabinet with engraved wood trim and a projector dial.



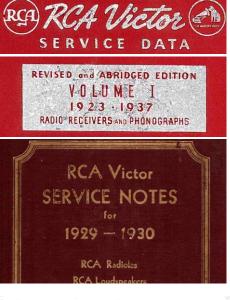
In Eric Wenaas's *Radiola- the Golden Age of RCA 1919-29,* they do include this 1930 model as the last Radiola, with RCA consoles thereafter. Mark did a thorough restoration replacing the power supply capacitors to make it a daily player. This required carefully bending sometimes brittle tabs of the enclosure, baking the unit and cleaning up potting material while saving the baseplate connections.



Mark then placed capacitors on a breadboard, connected to the base plate and slid back into a slotted wooden box arrangement.



This power supply did not utilize electrolytics and the enclosure included only capacitors unlike its predecessor Radiola 66 which also contained an output choke. There exists a tremendous amount of detailed repair resources for the Radiola 80 including the following:





Technical Lesson 45

GENERAL ELECTRIC MODEL H-31 - WESTINGHOUSE MODEL WR-5 RADIOLA MODEL 80 - GRAYBAR MODEL 700

<u>INTERCENTION</u>. These models are nina-tube a-oppreted screen grid superhadrodyne radio receivers. The electrical specifications of these various models are the same; they differ only in cabinet design. Included in the cabinet is an improved dynamic type reproducer unit which, together with the context s a unlity of reproduction closely approaching the original.

**Above & Below**: Not just pretty cabinets, Radiolas are supported by at least 3 sources with detailed pictorials & service procedures. RCA Institute Tech. Lesson #45 for the Radiola 80 covered 30 pages including an "exam".

#### EXAMINATION - LESSON 45

- 1. (a) How would you test a by-pass condenser? (b) A filter condenser?
- What comprises the "tuned" circuit in these receivers and what purpose does it serve?
- 3. What is the advantage of the "Local-Distant" switch?
- How may very loud signal strength from near-by powerful stations be reduced?
- What is likely to be the result of a defective detector tube?
   If the five adjustable condensers are out of adjustment what likely will be the result?
- will be the result?
  7. If any of the by-pass condensers in the receiver assembly are "open" what will be the result?
- 8. What will be the result of a grounded filament lead?
- 9. What are the noticeable effects of a microphonic detector tube?
- 10. What is the purpose of the second detector?



**Above**: Keith Seiwell displayed one of his first console restorations that he acquired for \$40 while stationed in Kansas. This Philco 41-290 was a good player and not in Kansas anymore. https://philcoradio.com/gallery2/1941a/#Model 4 1-290X



**Above:** Keith acquired the Zenith 9-S-262 at the Kutztown Radio show in rough condition but restored to be a keeper.

#### https://www.radiomuseum.org/r/zenith\_9s262\_9\_s\_ 262\_ch5905.html

**Below:** While stationed at the Pentagon, Keith bought this Zenith 8-S-359. When restored by MAARC member Milt Margolis, it turned out to be one of Keith's favorites. He sold it to his neighbor who had admired it https://www.radiomuseum.org/r/zenith\_8s359 <u>8 s\_359\_ch5807.html</u>



**Below:** Here is Keith's 1936 Zenith 5-S-029. He purchased from Stan Saeger and it had been painted white- quite a chore to remove along with fabricating portion of a broken grill via a mirrored method of matching and joining the to the good portions. The grill cloth is not the original pattern but correct color. http://www.tuberadioland.com/zenith5-S-029 main.html



**Below:** Keith also showed a 1937 Zenith 10-S-153. He purchased at Kutztown and this is a "daily driver" in his office. The sides may have been toned darker than the original but the grill doth is accurate to the original. http://www.tuberadioland.com/zenith10-S-153\_main.html

http://mcclellans.com/Zenith5S29.htm

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All of our consoles have a story to tell. Continuation of these stories for a new generation of users will prove to be a challenge but well worth our efforts. Whether it be what was learned in restoration and repairs, schematics and service media, history of the model and manufacturer. it will be wellworth our efforts to document this in notebooks or digital media to be passed along to their next owners. The 1935-1938 years seem to be the peak when circuit engineering, tube technology, audio guality and cabinet design made the 30's a truly golden era of consoles. More ordinary styling and value engineering would later supplant these beauties as the 30's came to an end. Installing devices such as Bluetooth or other wireless devices in a non-invasive way, while maintaining the original appearance of our consoles, may also make these more appealing to future owners. In the meantime, there is no better time to acquire an awesome console or donate one to a museum showing off this golden era and period in history.

## **Upcoming Regional Events**

Following are some excellent programs and a reason to have multiple club memberships in our region's clubs! Paste links into your browser to load. Also view regional hamfest events via:

https://www.arrl.org/hamfests/search/page:1/L ocation.division\_id:AT/model:Event

NJARC Repair Clinic Saturday, Feb. 17, 2024 10 am to 4 pm. InfoAge Science and History Museums, 2201 Marconi Rd, Wall Township, NJ 07719- Building 9032A. Contact Rich Lee for reservation. Next one May 4<sup>th</sup>. (Contact info available on) http://njarc.org/clubprograms.html#worksho ps

## JD's Antique & Vintage Radio Electronics Auction(s) Saturday,

**Febraury 24, 2024 Preview at 8 am,** <u>Auction starts 9.</u> Jackson Mills Vol Fire Company Banquet Hall 465 N County Line Rd Jackson NJ 08527. Over 275 lots, including some very nice radios! See pictures anytime. <u>https://jdauctionsllc.com/default.aspx?JDAuctionservices&p=1\_JD's Antique & Vintage Radio</u> Electronics Auction

Saturday, <u>March 23, 2024 \*Kutztown\*</u> <u>Preview 8 am, Auction starts 10.</u> Renninger's Farmers Mkt- White Rm, 740 Noble St., Kutztown, PA 19530. Stay tuned for more incl April 20, Jackson NJ! <u>https://jdauctionsllc.com</u>

#### NJARC Spring Swap Meet and Ham

*Fest* Saturday, March 16, 2024 8 am to 12 pm. <u>Check contacts below</u>. Vendor setup at 7:15AM. \$7 entrance fee. \$35 vendor fee (\$30 for members). <u>(40) 8 ft. tables available,</u> <u>Reserve additional tables for \$25 or</u> <u>at door \$30</u>. <u>Where:</u> Parsippany PAL Building, 33 Baldwin Rd., Parsippany, NJ 07054 (just off Rt 46).

http://www.njarc.org/www.njarc.org/imag es/njarcSpring2024%20swapmeet.jpg Email: <u>radiorich@prodigy.net</u> (Rich) or <u>salb203@aol.com</u> (Sal)

2024 Warminster Hamfest Sunday, May 5, 2024 Gates open 7AM. Bucks Community College, Lower Bucks Campus, 1304 Veterans Highway (Route 413), Bristol, PA 19007. <u>http://wp.k3dn.org/wp-</u> content/uploads/2024/02/2024-warminsterhamfest-flyer.pdf

**Kutztown Radio and Audio Show** XLIX (49) Friday, 05.10.24 through Saturday, 05,11,24 opens 7AM on those days; Vendor setup starts 12 noon Thursday. Early buyers will not be permitted on Thursday without a dealer tag. Free parking and free admission for shoppers. Auction is Friday 5.10 at 5:30 in white room, Preview at 4:30. Where: Renningers Farmer's Market, 740 Noble St., Kutztown, PA 19530. Antique radios, parts, and related items. Audio and Ham welcome. Tables, electric available. Dealer spaces 10' x 10' incl. table \$50, extra tables \$10. Exhibitor reservation advised: Phone M-Th 570.385.0104; F-S 610.683.6848. See links at: www.dvhrc.org and see updated FAQ listing below. https://www.dvhrc.com/Kutztown 10 <u>l.pdf</u>

#### MAARC RadioActivity 2024

Thursday, 06.13.24 5PM through Saturday, 06.15.24 5PM. Byzantium Event and Conference Center, 2747 Riva Rd, Annapolis, MD 21401. https://maarc.org/event/radioactivity-2024/

### **AWA Shares**

Each month there will be a wellresearched presentation via Zoom including a question and answer session. It is free and you don't have to be an AWA member! AWA Webinar Wednesdays will be held the <u>third Wednesday. of each month</u> and the next one on <u>Feb.21, 2024 at 8 PM</u> is entitled "Rhode Island Made Radios" presented by Len Arzoomanian. See the following link to participate in this & future shares! <u>https://www.antiquewireless.org/homepage/aw</u> <u>a-shares/</u>

2024 AWA Spring Meet Saturday

May 5, 2024. The annual AWA Spring Meet, Flea Market & Auction will be held at Veteran's Park in Bloomfield, NY. This is just across the road from the AWA Museum, 6925 State Route 5, just east of the intersection of Routes 5 & 20 and Route 444. AWA will be operating a Museum Bargain Table and a large Museum Book Sale in the former AWA Annex building located in the park. As part of the meet, AWA will hold an Auction of duplicate and surplus items from the Museum's artifacts. See more details at: https://www.antiquewireless.org/homepag e/2024-spring-meet/

2024 AWA Annual Conference

Tuesday, October 1 to Saturday October 5, 2024. To be held at the RIT Inn and Conference Center, 5257 W Henrietta Rd, Henrietta, NY 14467. Details will be made vailable at a later date via AWA website: https://www.antiquewireless.org/homepag e/annual-conference/

## Some Housekeeping Notes

Web references herein may need to be copied or <u>manually entered</u> into your browser if they do not work by clicking pdf link. We are always looking for a good story to publish, especially projects and technical fare which are harder to come by. Please forward them to <u>gdottor@yahoo.com</u>

# Meeting of January 9, 2024

This night's theme was *Best of* 2023.as shared via Zoom. Dean Reonieri documented a mystery radio he acquired. It is a 1972 solid state educational kit unbuilt which he then completely assembled. There is no trace of this kit to be found via internet. *Below Mystery Radio Details- a progressive educational format Fabri-TekSP 311A: 6-Transistor Hand wired kit:* 

#### Dean's 2023 Mystery\* Radio

Fabri-Tek SP 311A: 6-Transistor Hand –Wired Radio Kit

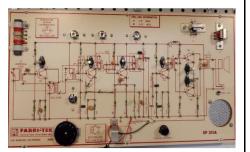
Manufactured by Fabri-Tek Education Systems; Los Angeles, CA
 Consists of:
 Silk-Screened Hardboard Panel
 Package of Parts/Components
 Student Lab Manual
 Documentation from 1972
 Purchased: March 2023
 Adamstown, PA Antique Mall

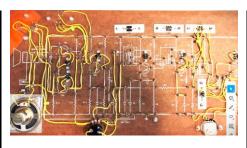
\*It's a mystery: There's no information about this kit on the Web, YouTube, etc.

## Student Lab Manual

- Detailed Step-by-Step Assembly
- Section Technical Theory Presented
- Section-by-Section Resistance and Voltage Tests: Go-No Go
- Start at the Audio Output and Finish at the RF Section

**Below** Mystery Radio as assembled. Silk screen board required drilling holes to insert numerous vector clips with bus wires and connections made below the board. "Drill it Yourself!"





Current Status: January 8, 2024

#### • Assembly Complete

- Original Electrolytic Capacitors Replaced
- All 6 Transistors Checked for Gain
- Audio Section is Working
- There are some RF Section Gremlins preventing AM reception  $\otimes$

\*Any information about this kit would be greatly appreciated! Dean had a drill press for these many points enabling insertion of vector clips but in hindsight wished he had not assembled the set in entirety without the "educational" status checkpoints. All transistors test OK and although IF color conventions were incorrect, this was considered. If anyone has an idea for Dean on what to seek out, you can contact him or this editor for a pdf copy a closer look. These kits seem to be akin to earlier Graymark branded hollow and solid state edu-kits also from southern Cal and promoted by your local HS science teacher. https://www.radiomuseum.org/m/graymark \_usa\_en\_1.html

**Below** Jarret Brown was presented with this cool radio puzzle- !,000 pieces of familiar eye candy sets- maybe this year's summer family vacation activity!



Tom Lager received an Advent Radio kit where a component was added each day leading up to a functional FM radio. This (may be) a close facsimile with a box to open and install components to a breadboard each of 24 days. Tom promised to bring the set for which he adapted an antenna when we have our next Telford meeting.





https://eight-innovation.com/advent-calendars/

**Below** Terry Skelton acquired a Bang & Olefsen BM-5 stereo ribbon microphone from an acquaintance leaving the classical recording industry having done work for RCA and NBC. This mic features twin figure 8 ribbon elements which can be swiveled to best capture the recorded source when mounted to the correct holder. (Facsimile image shown).



**Next Page:** In reference to Greg Dottor's Minerva Tropic Master restoration by Tom Lager (see Fall Oscillator), Tom related that the Cricut vinyl cutter system had been used to cut the specialized vinyl labeling to emulate the

painted/screen painted image on the original. https://cricut.com/en-us/cutting-machines



There are many models of the Cricut machine but in this case a vinyl media was cut as a reproduction of an image file of the Minerva logo. In addition to vinyl, various media including stickers and heat transfers are possible (reverse image). There may be a chance to use one from a local library tech center or crafter who owns one and is familiar to its operation. Tutorials abound- here's one: https://www.youtube.com/watch?v=Yhyd6oldR

Jarett also had a few comments about painting metal since 2023 was the first time he had tried this on a small \$5 flea market find, a metal Silvertone metal 4 tubeTRF receiver in fairly rough condition.



**Above:** This Silvertone was stripped via an immersion bath in lacquer thinner for a few hours (or more). **Below:** Original finish and gunk can be scraped followed by use of dental tools to pick out crevices &cracks, smooth imperfections and a steel wool rub down resulted in clean metal ready for paint. You can't use this method with a wood cabinet!





Above: Close up of dental and scraping tools. **Below:** Final result is a handsome compact metal set in sage green. Painting metal requires several coats and at a distance of 12 to 14 inches. He used a folding ruler faced down to assure the distance was maintained uniformly. You must only paint from the top and not sides, just doing the surface facing up or running might occur. You need to let each topical application dry for at least 15 minutes, rotate the various surfaces to face up and paint each section sequentially. When the initial coverage looks good and is dry, lightly go over with 4.0 steel wool just to remove small stuff such as dust, eyelashes, small insects, etc. that may have attached during drying. Then a second coating is sprayed at a later time with no further rub down with steel wool. The paint used was a gloss enamel with primer to eliminate priming although with certain plastics, priming might still be advised. Since the bakelite knobs were drab, Jarett used toner (toned lacquer spray) followed by a coat of clear lacquer to make them "pop". Make sure to wipe off excess toner on the initial step. This can also help out when you get a replacement knob which does not match coloration vs. the others on your set. The chassis was restored with new caps and finally, a reproduction sticker was purchased for this set.

https://www.youtube.com/watch?v=8N2HU7Q2J9U



The group finally discussed the Victrola Museum which is located in <u>Dover, Delaware</u>. The Johnson Victrola Museum is a tribute to

Delaware's native son, Eldridge Reeves Johnson, who founded the Victor Talking Machine Company in 1901. Exhibits include phonographs, recordings, memorabilia, trademarks, objects, and paintings that highlight Mr. Johnson's successful business enterprises and chronicle the development of the soundrecording industry. See more at:

https://history.delaware.gov/johnson-victrolamuseum/history/

https://www.c-span.org/video/?313904-1/johnson-victrola-museum



## I always wanted to be in a Museum so check me out here at MBC! Imortallity!

### https://www.radiohalloffame.com/garyowens

Please ignore the additional page hereafter due to an unsolvable section break conversion error. The editor may be able to correct this in the future but don't bet on it. Seems as if all electrons did not fit!

