



# The Jersey Broadcaster

NEWSLETTER OF THE NEW JERSEY ANTIQUE RADIO CLUB

October 2025

Volume 31 Issue 10



The *Jersey Broadcaster* is distributed to members of the New Jersey Antique Radio Club via email as a PDF file. Back issues of many of our newsletters are available on the club's website:




[www.njarc.org/broadcaster/](http://www.njarc.org/broadcaster/)

## Meeting Notice

Our October meeting will be held on Friday, 9/12. At the meeting, Nevell Greenough will give us his presentation entitled "The Care and Feeding of Eimac's' Big Babies."

Directions can be found on Google Maps at <https://bit.ly/4jZe8XI>. We plan to live stream the meeting on YouTube at [youtube.com/user/NJARC](https://youtube.com/user/NJARC).

## Fall Hamfest / Swapmeet



**New Jersey Antique Radio Club's**  
**Fall Swap Meet and Ham Fest**  
Antique Radios, Vintage Hi-Fi, & More!!

**Parsippany PAL Building**  
33 Baldwin Road  
Parsippany, NJ 07054  
Just off Route 46,  
Adjacent to Smith Field

**Saturday November 22<sup>nd</sup>, 2025**

**Refreshments Available**  
(40) 8 Foot Tables  
\$30.00 for members  
\$35.00 for non-members  
Reserve Additional tables \$25.00  
At the door \$30.00

**Open to the Public**  
8am to 12 noon  
Vendor setup at 7:15am  
\$8.00 Entrance Fee  
Club Donation

**For Directions**  
Visit our website: [www.njarc.org](http://www.njarc.org)  
or use your favorite phone app  
33 Baldwin Road  
Parsippany NJ 07054

**Vendors Make Your Reservations Now!**  
Contact:  
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## From the President's Workbench

Greetings Fellow Enthusiasts!

A lot to write about this past month. Many of our club members attended the semi-annual Antique Radio Show held every spring and fall at Renninger's Fairgrounds in Kutztown Pa. I was a Friday-only vendor who does not appreciate the new set-up time changes instituted last year! Friday sellers could not enter the



The President's Workbench.

pavilions until 8am and were required to line up (see photo on page 4) in rows on the large visitors parking field. Vendors had been waiting for many hours, after driving long distances, avoiding traffic, just to wait until 8am. Why?

The next new rule was "Open to the Public" at 10am! So for me, and the other vendors, we lost 2 hours of selling time! I did express my disappointment to the local management. For what it's worth. Friday's attendance was good, as is typical, thanks to the beautiful weather. Competition among vendors was heavy with many nice radios going for less-than-average prices. Communication receivers (Boat Anchors) were almost give-aways... a sign of the times!

Last Saturday evening, I attended the Annual Info-Age Wall of Honor dinner reception held in the Mar-

## Calendar of Events

October 7-11: AWA Conference, Henrietta NY

**October 10: NJARC monthly meeting, Princeton**

October 17: HARPS monthly meeting, Suffern NY

October 25: NJARC Autumn Repair Clinic, InfoAge

**November 14: NJARC monthly meeting, Princeton**

November 22: NJARC Fall Radio Show, Parsippany

**December 13: NJARC Holiday Party, Jackson**

December 19: HARPS monthly meeting/holiday party, Suffern NY

January to December 2026: More great radio-related meetings and events. Don't forget to renew your membership. If you're not yet a member, don't wait any longer to join the best darn antique radio club you'll ever want to see!

(Continued on next page.)

**THE JERSEY BROADCASTER** is the newsletter of the New Jersey Antique Radio Club (NJARC) which is dedicated to preserving the history and enhancing the knowledge of radio and related disciplines. Dues are \$25 per year and meetings are held on the second Friday of each month either at InfoAge or at Princeton University. Neither the editor nor NJARC is liable for any other use of the contents of this publication other than for information.

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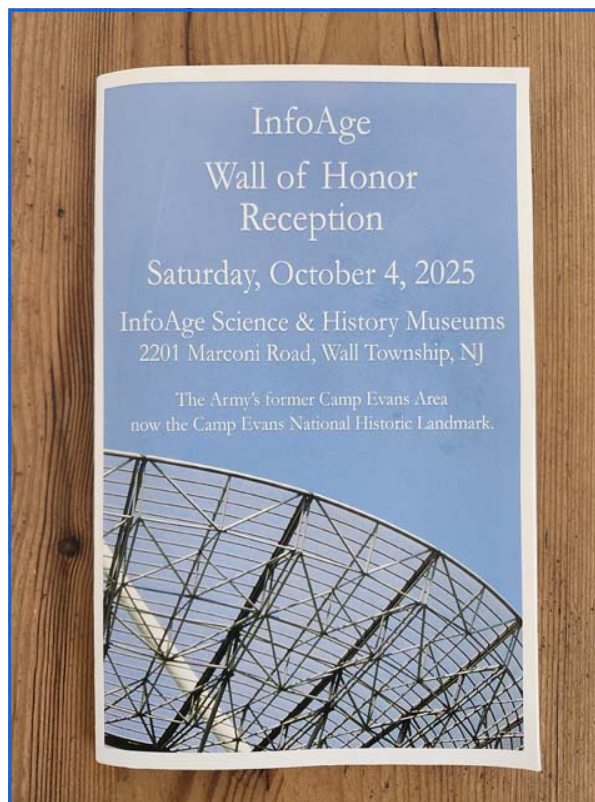
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## President's Workbench

(Continued)

coni Hotel dining room. Inductees to the Wall of Honor come from people both military and civilian who were outstanding in their work accomplishments at Fort Monmouth and Camp Evans, now our InfoAge campus.



Program booklet for the event

This year's inductees were Anthony Lisuzzo, Division of Intelligence and Information Warfare, and Robert Zanzalari, Division of Electronic Warfare Survivability. This year's *Chairman's Award* was presented to New Jersey Senator Vin Gopal, who rallied his local constituents in the room. Senator Gopal has been a big supporter of InfoAge, which has received significant grant support from the state of New Jersey due to his efforts.

But for members of NJARC, the most important award, *The Patriots Award* was presented to our own curator of the Radio Technology Museum, Ray Chase! Ray went on to speak of his history with InfoAge, the RTM and his long interest in Radar technology. Ray was also serenaded by the eager crowd, to *Happy Birthday* to Ray, it coincidentally being his 93<sup>rd</sup> birthday that day!

(Continued on next page.)



## President's Workbench (Continued)

There was a 50/50 raffle drawing and a Silent Auction of multiple gifts. My favorite gift being a one night tour of InfoAge with a Paranormal Investigation team including a complimentary EMF Meter!

Since this was a special occasion for Ray and our club, a number of NJARC members attended. Present were Florence and Harry Klancer, Jules Bellisio, Tom Sedergran, James Marandi, Dave Sica (the videographer for the evening) and your president, who provided sound reinforcement via our club's new PA system. A good time was had by all!

— Richard Lee, Pres. NJARC



Ray Chase and his Patriots Award



Senator Vin Gopal

(Continued on next page.)

President's Workbench  
(Continued)



Florence Klancer won the 50/50 raffle and generously donated it back to InfoAge!



Are they singing Happy Birthday to me?



An interesting remote Seeburg speaker



Waiting for... what? At 7am. In Kutztown.



## Theoretics Demystified

Fred Wawra

Let's go to the basics for those just getting started with electronics and some of the test equipment needed to 'look inside' the circuitry involved.

The first piece of test equipment beginner needs is a meter which measures voltage, current and resistance, the volt ohm meter or VOM. With it you can check power supplies, check for proper voltages and current in circuits and, with the resistance 'ohm meter' ranges on the meter you can verify that resistors have the proper resistance according to their markings. Most resistors have their design resistance marked using a color code system. Below is an example of the resistor color code chart. If you plan to do a lot of work with electronics, it's a great idea to memorize the colors and the numbers that they represent. This chart applies to discrete resistors with wire leads. The small surface mount resistors are usually marked with a number or sometimes not at all. There are charts to help you decipher the numbers too. All this makes it doubly important to have a good meter on hand. Most meters today are digital but there are a number of analog meters, meaning a meter with a face scale and a moving pointer that many still prefer over the digital types. Analog meters are the best for seeing changes in voltage, current or resistance in an ongoing pattern.

(Continued on next page.)

## Meeting Review

At our August meeting, NJARC member club member Dr. Joe Wilkes gave his presentation "Ham Radio Propagation." It was an inspiring, fact-filled look at how radio signals work and you would probably be amazed at how Joe made a difficult-to-understand subject easy to visualize.

There was also a "Grab 'n' Go" event at our museum storage area, with many items surplus to the museum's needs available for free to members.

If you missed the meeting, you can watch a recording of the live webcast on the club's YouTube channel: <https://bit.ly/3yZ5yoR>.

You can catch it and all the other great Radio Wild videos on his YouTube channel: [www.youtube.com/@Radiowild](http://www.youtube.com/@Radiowild). The Swapmeet video is: [youtu.be/ILf-PHBhfPg?si=xBYLJLMUcZkjRueU](https://youtu.be/ILf-PHBhfPg?si=xBYLJLMUcZkjRueU)

## YouTube Links

WLW 500 kw AM Broadcast Station Operating Procedures <https://youtu.be/y1u0bHx83Vw>

The Transistor: a 1953 documentary anticipating its coming impact on technology <https://youtu.be/V9xUQWo4vN0>

Everything you always wanted to know about 45rpm <https://youtu.be/XTG-bSl8Ra8>

"Throw It Away" Culture in the USA <https://youtu.be/pXGlybglr28>

Kutztown Antique Radio Show and Swap, Fall 2025 <https://youtu.be/HTz3vuRxWb8>

Zenith Radio Corporation Research: The Long Corridor 1955 <https://youtu.be/anvked512qs>

Antennas and Grounding Part 1: <https://youtu.be/4x8XVcdquvc> Part 2: <https://youtu.be/B9oovIlewN8>

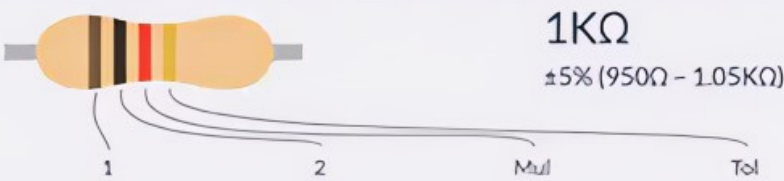
The Secret Ham Radio Operators Who Helped Crack Enigma <https://youtu.be/EL1aRpNBA2I>

Remagnetizing Headphones <https://youtu.be/GA8cer8Bf2I>

How they made Ampex Tape Recorders <https://youtu.be/o-AfaZSHMYy>

## Theoretics Demystified (Continued)

### 4 Band Resistor Color Code Chart



	1	2	Multi	Tol
Black	0	0	$\times 10^0$	
Brown	1	1	$\times 10^1$	$\pm 1\%$
Red	2	2	$\times 10^2$	$\pm 2\%$
Orange	3	3	$\times 10^3$	$\pm 3\%$
Yellow	4	4	$\times 10^4$	$\pm 4\%$
Green	5	5	$\times 10^5$	$\pm 0.5\%$
Blue	6	6	$\times 10^6$	$\pm 0.25\%$
Violet	7	7	$\times 10^7$	$\pm 0.1\%$
Grey	8	8	$\times 10^8$	$\pm 0.05\%$
White	9	9	$\times 10^9$	
			$\times 10^{-1}$	$\pm 5\%$
			$\times 10^{-2}$	$\pm 10\%$

This is the most common type for general electronics.

#### Band Reading Guide:

- 1<sup>st</sup> Band: First significant digit
- 2<sup>nd</sup> Band: Second significant digit
- 3<sup>rd</sup> Band: Multiplier
- 4<sup>th</sup> Band: Tolerance

Large high-power resistors usually have their resistance and sometimes the wattage printed directly on them. Aside from resistance, meters measure AC and DC voltages, and most measure at least the lower ranges of current encountered in most electronic equipment and radios. More on test equipment next time.

## Archiving Our Past, Modernizing Our Present

Matt Reynolds

### Part 1 – Archiving our Past

Most of you know I've been quite busy on a couple different fronts for the club. I've gotten a lot of enjoyment and enrichment from being an NJARC member and these are a few ways I am trying to give back. Here's what I've been up to.

For the last few years I have been wanting to make sure that the knowledge that the club collectively possesses isn't lost to time. You may recall I did a newsletter drive, to try and get a copy of every issue we ever made, which I believe I did, and I believe was successful. (Incidentally, these will finally be available on our website soon...) It's been on my mind for about the same amount of time to get our *video* history preserved as well. Phil Vourtsis, and later Dave Sica, put a lot of time and energy over the years into recording our meetings and making the tapes available to the members, but no format lasts forever, and they needed converting and digitizing, but that's a lot of work, and it wasn't a priority for anybody to do it. Well, I wanted to watch them anyway so...

#### Phase I – Analog Video Tapes

After our Summer Swap Meet this year I finally had time to go searching for the Tech Talk loaner tapes. It has been several years since Phil stopped bringing them to every meeting, and nobody was 100% sure where they were. With help, I tracked them down to some cabinets in the Radio Repair Shop (after opening every desk/file cabinet drawer in the museum.) I came home with **38** VHS tapes. I could finally get to work, and based on the amount of tapes I had quite a lot to do.

I had been collecting the equipment to do the transfer for several years while I was waiting on getting the tapes. (Scopes and TBC courtesy Dave Sica). Now I could hook it all up and get started.

Many of you have asked how I'm doing this, and what I'm using so let me give you a rough idea:

1. The tapes are played on a VCR (In this instance, a combo DVD-Recorder Unit.)
2. The video output is fed into two Leader Scopes – one is a Waveform Monitor, and the other is an NTSC Vector Scope. Both devices have two channels, so I can look at the before and after the TBC if I so choose. Over time I will learn more about the importance of these. In the meantime, they just look cool.
3. The output of the VCR loops through the scopes and goes into the Time Base Corrector (TBC). This device is essential to stabilize the picture coming out of the tapes so that the signal coming into the digitizer is compliant enough to be captured cleanly. I tried doing this without one for awhile, but the condition of the tapes was causing many recordings to fail. It doesn't happen anymore with the TBC.
4. The Output can be compared on the scopes if necessary, as can the effects of changing settings on the TBC.
5. The tiny box on top of the Sencore TV analyzer is a Sony DVMC-DA2 Media Converter. I am taking the analog video out, and sending out via analog to:
6. The Trinitron PVM for live viewing during the capture, and via IEE-1394 (Firewire) into an older Intel-based Mac Book Pro for capture.



(Continued on next page.)

## Archiving Our Past, Modernizing Our Present

(Continued)

7. The files are captured as .MOV and saved on two separate USB Hard Drives (one attached to a NAS) for safety. .MOV is used, as the video is transferred via the Firewire as DV, and .MOV can contain that DV data without re-encoding the video. In other words, it's lossless.
8. I edit the files on my Windows 10 laptop using a program called ShotCut, which is an open-source video editing tool. I found it to be the best open-source tool for handling both the older .mov and Standard Definition resolution video and newer HD formats for exporting. I do not do much editing on the videos, we have far too many for me to spend a lot of time on them. I clip the front and back (there are no chapters on VHS and no timecodes written on the labels) to get the start and ends clean, and affix our standard animation to the front. If there is a speed issue I adjust the play back.
9. If the audio is super terrible, I do some minor cleanup in Audacity and marry the cleaned up sound back with the imported video in ShotCut.
10. The final edited .mp4 goes back to the two usb drives and gets uploaded to YouTube.
11. I email you all a link to the YouTube file on "Throwback Thursday," post it to our Social Media, and update our future presentation index/directory for the updated website (more to come on that in Part 2.)

By the time you read this article, I will have finished the first pass on all of the analog VHS tapes we have found so far (a few need done again now that I have the TBC working.) Based on the original list provided by Dave of what presentations were on each, **I've learned that we are missing 14 of those tapes.** If you have them, please give them to me. I promise no late fees or punishment will be administered to you/yours.

We *should* have backups of all the tapes on Digital-8 tapes, but that's a whole other kettle of fish, which I'll soon be tackling.

### Phase 2 – Digital 8 Tapes

At one point there was a duplicate of every one of the Tech Talk VHS Tapes on Digital 8 Tapes. Additionally, from 2008 until later in the 2010s when it was more feasible to record all the digital content directly to a computer, our presentations were recorded onto Digital 8 Tape:



Digital 8 Camcorder





## Archiving Our Past, Modernizing Our Present

(Continued)

Unlike with Analog Video Capture, for Digital 8 you *copy* the data off of the tape, bit by bit, in real time playback over Firewire to a computer. While in theory, this means you get 100% of the quality of the content back, with it being digital it's often an "all or nothing" process, so we are hoping the tapes have held up and that the aging machines used to play them back are cooperative enough to save the content before it is too late.

I have started the process of cataloging the tapes that have been found so far, and comparing against what we are still missing, and will soon start transferring these tapes to a computer, where I can edit and share them just like I have been doing with the VHS tapes.



The author, searching for the tapes in {REDACTED}'s basement.

### Part 2 – Attracting Our Future

I will cover Part 2 in-depth in an article next month. A quick summary:

- An update on ongoing activities to modernize our club's webpage.
- More actively participating in social media.
- Activities to market NJARC to more people and demographics.
- Our ongoing need for content.



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### — Fall Swap Meet and Ham Fest —

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