



# CHEESE BITS

**W3CCX**  
CLUB MEMORIAL CALL

ARRL  
Affiliated  
Club



Volume LXVII

April 2024

Number 4

PREZ

April 2024

## SEZ: What Time is It?

About a month ago, George KA3WXV visited my ham shack during one of my visits to the local hospital. He commented on whether I had enough clocks. My answer was that the collection had evolved. As a starting point, here is my current ham shack clock collection.

- La Crosse "Atomic Wall Clock"
- Heathkit GC-1005 Clock
- Heathkit Amateur Radio Wall Clock
- GeoChron Atlas Clock
- Amazon Echo Dot Clock
- Intellitron Nixie Tube Clock

I started with a La Crosse "Atomic Wall Clock". When correctly set, it shows the time to the second, set by a radio signal, which can be handy for the digital modes. The drawback of the La Crosse clocks is that you cannot purchase them in a 24-hour model. Nor can you set them to Coordinated Universal Time.

As some readers already know, I am a fan of Heathkit gear. From the estate of a SK, I last, as some readers know, I am fond of Nixie tube devices. One of my favorite vendors had

purchased a Heathkit GC-1005 clock with the orange digit display. It has some quirky features (display segments not properly illuminated) but I enjoy looking at it. There are some patches to fix the missing display segments.

Looking at eBay one day, I spotted the Heathkit Amateur Radio Wall Clock. It is only disciplined by the quartz movement but I liked the dial artwork. I also own an MFJ-107B which is battery-powered and shows the time in the 24-hour format.

Getting back to seeking a 24-hour display, I purchased a GeoChron. The original GeoChron models were mechanical, but the newer versions generate a map image on a 4K monitor. The 24 hour clock display is shown in the lower left corner on a 4K television monitor. I eventually upgraded to the Atlas model, which allows one to subscribe to additional ham layers.

A while ago, I purchased an early version of the Amazon Echo Dot, which shows the hh:mm time display. The time displayed can only be the local time. The new models come in a spherical shape. I also own a Sangean WF-R27C (internet) Radio which shows the local time display.

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**W3CCX QSL CARDS:**

Bill Shaw K3EGE

**PACKRAT 222 MHz REPEATER - W3CCX/R**

222.98/224.58 MHz (PL 136.5) Hilltown, PA

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Membership Chairman: Michael KB1JEY [kb1jey-at-arrl.net](mailto:kb1jey-at-arrl.net)

**PACKRAT BEACONS - W3CCX/B**

144.300 (FN21be), 222.060 (FN20tk), 432.300(FN20tk), 903.300 (FN21be),  
1296.300 (FN20dh), 2304.300 (FN20tk), 3400.300 (Not operational),  
5760.300 (FN21be), 10,368.017 (Not operational) **Note: red = temporarily off the air**; see <https://www.packratvhf.com/index.php/on-air> for details)

**MONDAY / TUESDAY NIGHT NETS**

**VHF/UHF Monday:**

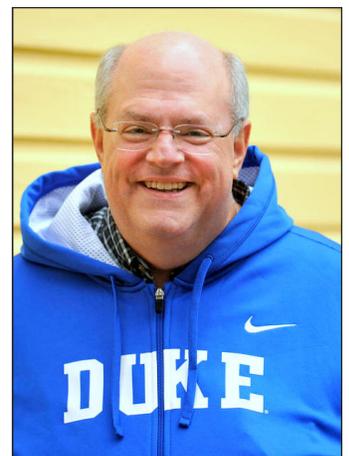
<u>TIME</u>	<u>FREQUENCY</u>	<u>NET CONTROL</u>
6:45PM	224.900 MHz	KB3MTW Michelle Even Mondays K3JJZ El Odd Mondays
7:00 PM	Packrat Talk Group	KA3WXV George See Packratvhf-dot-com ON AIR for details
7:30 PM	50.150 MHz	N3RG FM29ki Ray
8:00 PM	144.150 MHz	W2KV FN20os Dave
8:30 PM	222.125 MHz	KC3BVL FM29jw Jim
9:00 PM	432.110 MHz	WB2RVX FM29mt Mike

Visit the Mt Airy VHF Radio Club at: [www.packratvhf.com](http://www.packratvhf.com) or [www.w3ccx.com](http://www.w3ccx.com)

marked down the price of a Nixie tube clock by Intellitron by \$30 so I jumped. The tubes are not true Nixie tubes. This clock has a battery backup and is WiFi capable. The Nixie display is one of six different displays. Incidentally, Intellitron makes a 24-hour circular wall clock.

As can be seen from my collection, there is more than one clock that can be used to synchronize digital programs. There are also programs that can apply the system clock to any digital programs you might wish, such as Dimension 4.

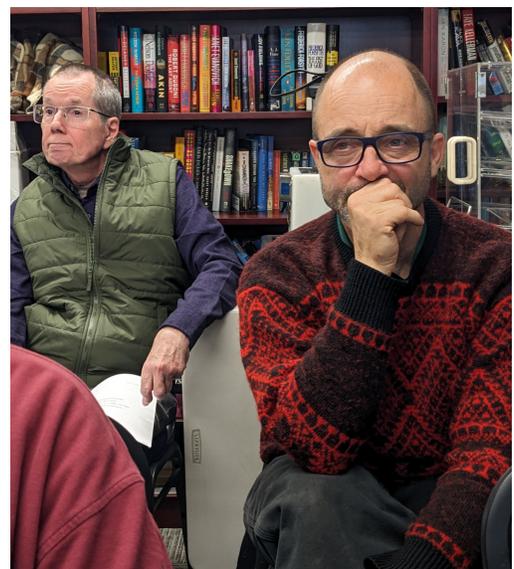
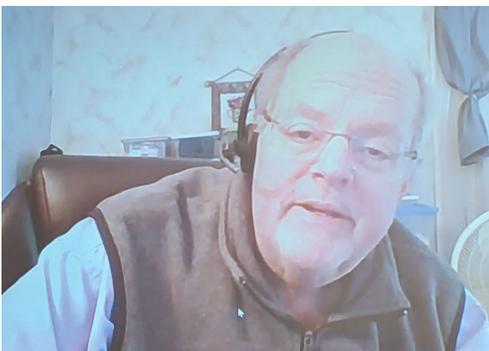
**Michael KB1JEY**



# Our April Meeting

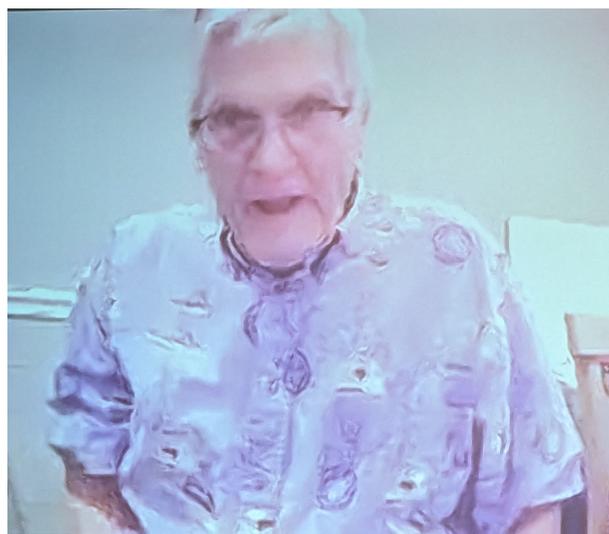
This was the annual Home Brew meeting where members are invited to show off their latest projects.

Pennsylvania Contingent

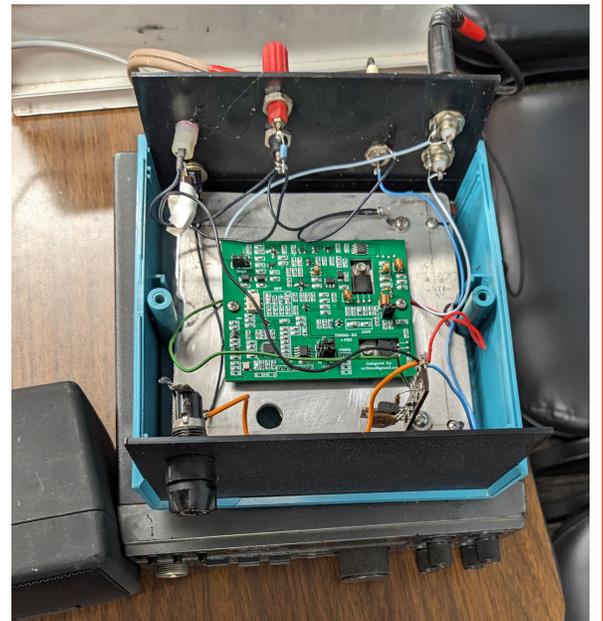
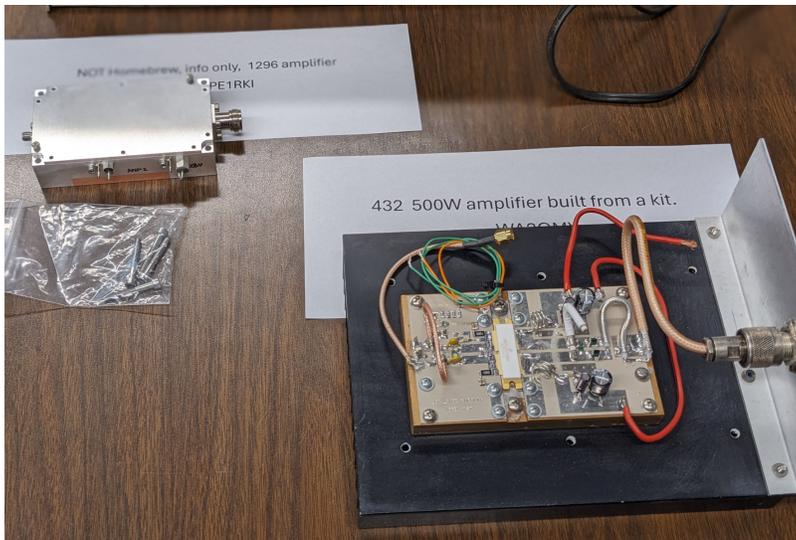
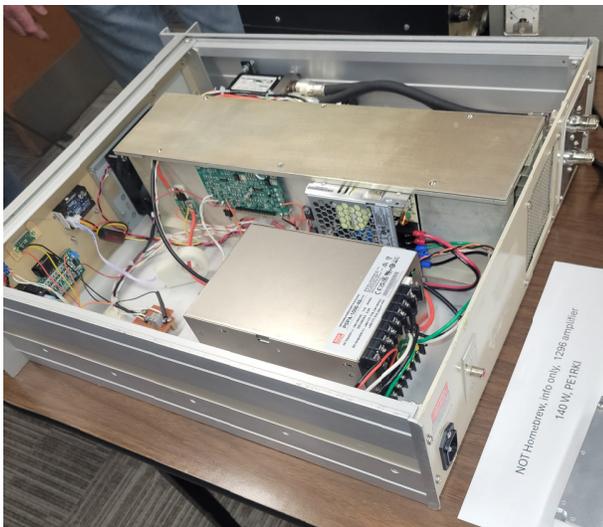


# Our April Meeting

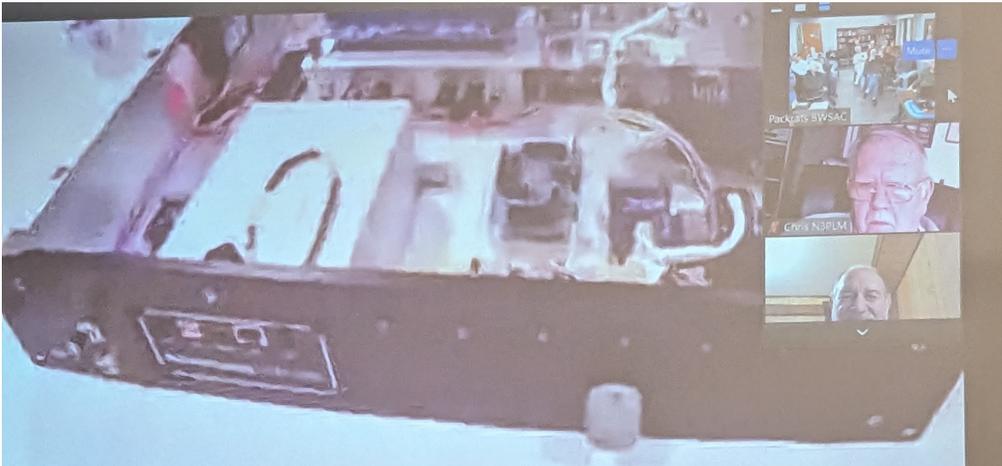
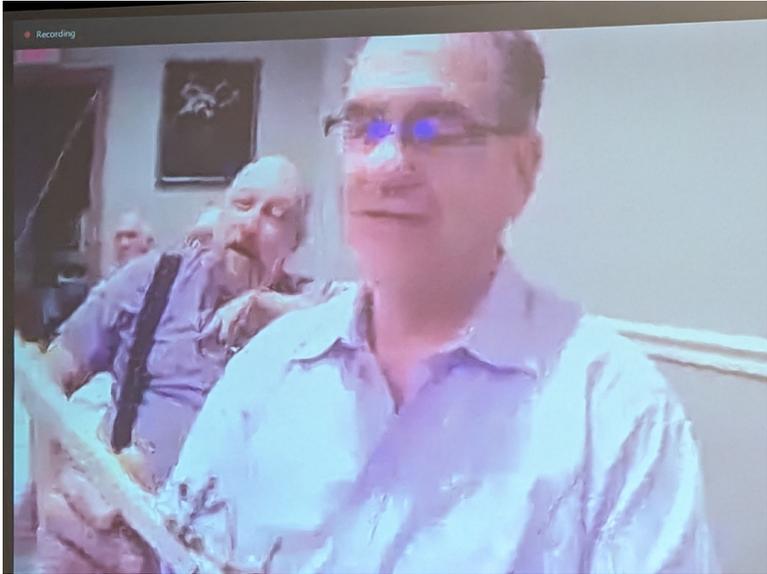
New Jersey Contingent



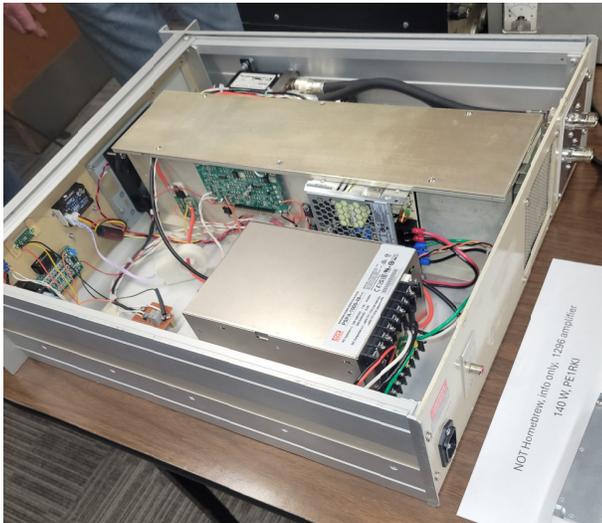
# Some Homebrew Projects from Pennsylvania



# Some Homebrew Projects from New Jersey



# Homebrew Projects Award Winners



**Workmanship Award**—222 MHz 250 W power amplifier. This was a collaboration between George, KA3WXV, and Tom, KA3FQS. The project was built in an old traveling wave tube amplifier chassis which provided a nice cooling channel for the amplifier heat spreader. The fabrication was done in the KA3FQS workshop and the amplifier has become a component of the KA3FQS station.



**Most Unique Award**— 6 band Pluto portable Transceiver. Jim built this multiband microwave transceiver based on work developed by other amateurs. While others may have contributed to the electrical design this is not a plug and play system so much work was done by Jim to get the system running. Apparently what caught the eye of the judges was the unique mechanical design of this project which features a cigar box as the central element of the packaging.



**Best Restoration Award**— Ocean Hopper SW receiver. Bill, WF1L restored an old three tube superregen shortwave receiver. Unfortunately I could not find a picture of this project but I did get a chance to handle it at the meeting. The chassis was rust free and all of the wiring was neatly done. The circuit appears to have borrowed from the All American Five, except those were superhets, in that it has no power transformer and uses a 35W4 rectifier tube and a 50C5 audio power amplifier. Very nice workmanship. (Picture from the web)

# *Who is the longest contiguous member of the Packrats?*

According to the Membership History file created by Bert K3IUV, that honor currently goes to Walt Bohlmann, K3BPP. Walt became the 63rd member of the Mt Airy VHF Radio Club on 3/18/1959 when he was approved as a much younger student member. He has maintained his membership in the club ever since.

Walt became a full member a few years later and went on to a successful 39-year career at AEL/ BAE Systems working as an antenna design engineer. Walt 's participation in the packrats included being the June contest microwave captain for many years when the W3CCX contest station operated from Hilltown, PA. He also was a member of the Packrat contingent that maintained and operated W3CCX/3 the EME station in the 1970 's in Revere, PA and more famously from Barranquilla, Colombia operating the Pack Rats expeditionary EME station HK1TL.

Walt moved out of the area a number of years ago but is still active and stays in touch with many of the longtime members of the club. He has recently started signing his email correspondence with an added statement attesting to being the longest contiguous member of the Packrat 's.

While we wish Walt a long and happy reign as the longest club member, succession is eventually inevitable. Who will be the next current member to claim this prestigious honor?

The answer to that question is unknown at this time but the potential candidates can be found within the Membership History file located in the members only section of the Packrat webpage that is available to all members of the club.

While you are rummaging around in the history file, please note any questions and corrections you can validate and send a note to Bert (K3IUV) who is still maintaining the file.

Happy hunting, no wagering please!

**Phil WA3NUF**

# Notes from our Editor Emeritus

Lenny **W2BVH**

**Don't Try This At Home or Anywhere Else**— Lenny, W2BVH, sent a pointer to a YouTube video where a couple of guys try cooking a hotdog by touching it to an AM broadcast tower. This is, needless to say, very dangerous, RF burns can have some long term very bad effects. What was left of the hot dog did not look very appealing or edible.

Here is the pointer [https://youtu.be/GgDxXDV4\\_hc?si=hXrCWP3YHBijB1wL](https://youtu.be/GgDxXDV4_hc?si=hXrCWP3YHBijB1wL)

**ARRL HANDBOOK Summary**—Here is a ham booklet available for download. Kind of a summary of the ARRL Handbook. Maybe worth mentioning in CB if you agree it's worthwhile. <https://github.com/NoelM/hambooklet/releases/download/2024/booklet.pdf>

**Logging Program Summary**—Here is the url of a blog by n1jur. It's a quick capsule of the features, pros and cons of popular logging programs.

<https://www.n1jur.com/blog/category/Ham+Radio+Software>

## A Note Regarding Spectrum Auctions

Input from Phil **WA3NUF**

Phil sent an article entitled “Republicans introduce spectrum pipeline bill that favors high-power licensed use. The gist of the article is that the FCC’s authority to sell radio spectrum expired last year. Some senators have introduced a bill that would not only reauthorize the FCC to sell radio spectrum to the likes of mobile phone companies but also mandates that they sell 1250 MHz of bandwidth between 1.3-13.2 GHz within the first six years of the laws eight year life span.

Interested parties can find the text of the article at: [https://www.google.com/url?](https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://www.rcrwireless.com/20240311/featured/republican-introduce-spectrum-pipeline-bill-that-favors-high-power-licensed-use&ved=2ahUKEwjwta6Jg66FAxVPjYkEHe9iDnQQFnoECBUQAQ&usg=AOvVaw1KvEHrtdipJR98a8AJfJHN)

[sa=t&source=web&rct=j&opi=89978449&url=https://www.rcrwireless.com/20240311/featured/republican-introduce-spectrum-pipeline-bill-that-favors-high-power-licensed-use&ved=2ahUKEwjwta6Jg66FAxVPjYkEHe9iDnQQFnoECBUQAQ&usg=AOvVaw1KvEHrtdipJR98a8AJfJHN](https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://www.rcrwireless.com/20240311/featured/republican-introduce-spectrum-pipeline-bill-that-favors-high-power-licensed-use&ved=2ahUKEwjwta6Jg66FAxVPjYkEHe9iDnQQFnoECBUQAQ&usg=AOvVaw1KvEHrtdipJR98a8AJfJHN)

This is a rather cumbersome URL so if you can't copy it directly you can find it by searching on “rcr wireless Kelly hill spectrum pipeline”.

# *The Wayback Machine*

In CHEESE BITS, April,  
1974. Vol. XVI, # 4

de Bert, **K3IUU** (*author's comments in italics*)

**"Our Prez Sez"**. Prez Dick Huntzinger, **W3FQD** started with the sad news that an outstanding member, Mario **K3UJD** had passed away suddenly on March 4, 1974. (*See my later commentary for more info. Recent members that did not know Mario may have wondered about the "Mario Table" and other references.*) Dick continued with a reminder about the upcoming Ladies Night Banquet at the Buck Hotel on May 1<sup>st</sup>. He noted also that the June contest chairman will be Dave, **WA3JUF** (*now our Treasurer, W3KM*).

**Calendar.** April 18, regular Packrat meeting in Southampton. Speaker to be Tony Slapowski, **WB2MTU**, with topic "Personalities behind the scene in the Space Program." April 26-28, Dayton Hamfest (*It's been around a long time*). May 4, Ladies night at the Buck Hotel. (*Club Officers – Will we ever resurrect this club tradition? What are we waiting for?*) May 16, Packrat meeting, with topic ARRL night and nominations for next year officers. June 8-9, the VHF QSO party, and the club will again operate from Hilltown. August 11, the annual Packrat picnic at the Ft Washington State Park.

**New Products of Interest to Hams.** **W3NSI**, Lynn somehow always managed to find at least 3 interesting new items. This issue included: **1). Dynascan** Corp has introduced a new 220 FM Transmitter/Receiver. Inspection suggests it is a copy of the **Midland 13-509** that many of us were using at the time. Selectable 1 or 10-w output, selling for \$250. **2). Midland 13-505** 2-meter FM Transmitter/Rec. This is the 2-meter version of the popular rig. Now provides 30-w output, and supplied with crystals for 3 of the 12 selections. Price is

\$300. **3). Regency Electronics HRT-2.** **Regency** has adapted their marine band handheld transceiver for use on 2-meters. The unit will provide 2.2-watts out, and has 5 selectable channels. Price \$180.

**SIX Meter Report.** Rich, **K3ACR** reported light activity this month, but noted that on most evenings you will find a great deal of activity on 50.4. There has also been increased activity on CW by operators working scatter contacts, as well as some that are looking to upgrade their license level.

**VHF Report.** Joe, **W2EIF** noted that **W3QKV** and **W3VXJ** have been active on weekends, "contacting some of the long-haul stations on six-meters." Chuck, **WA1KIR** in E Mass was active during the **Itchykoo Park VHF Contest** (*anyone have any memories or knowledge about this club? If so, please let me know.*), but reported little activity. **W2KFC/4** and **W4YEB** in Virginia are both putting in nice signals to our area on 2-meters. Member Rich, **K2EVW** is running schedules with **K4EJQ** in Tennessee and is hearing snippets of signals. Joe closed with this comment. "If you want a band active, get on and make it active!" (*Still true, 50 years later!*)

**25<sup>th</sup> Armed Forces Day Tests.** On May 18<sup>th</sup>, the 25<sup>th</sup> anniversary of these tests will be observed. MARS and Amateur Radio stations will conduct communication tests using CW, RTTY and SSB signals. Special certificates will be issued to stations with confirmed communications and reception of messages. A very special certificate is available to anyone that can demonstrate participation in all 25 years. (*I don't know if any were awarded!*)

**Silence ....from Ivyland.** This was the title of a tribute article to Mario, **K3UJD**, penned by Dave, **W3ZD**. As noted earlier, Mario died suddenly from heart complications earlier in March. He was an outstanding Ham in every respect, and was sorely missed by all of us. I

feel it useful to refresh this tribute 50 years later, and I am repeating it verbatim here

"In the early morning hours of March 4, 1974, the "Packrats" suffered a severe and saddening loss in the passing of one of our best liked and most important members, MARIO W. FONTANA, **K3UJD**,

The death of Mario was a sad blow to all his family and friends, following a two-week period in intensive care at Abington Hospital after a heart illness, more severe than anyone realized. He alone may have known, for he did not want to be left alone. He told me each time I visited that he was very sick, but the last visit found him responding very little to medication, and from there on it was all down-hill.

It is a long way from that chance meeting with Mario on the sidewalks of the Phila. Naval Base twenty-seven years ago, to the laying of flowers on his casket at the Holy Cross Cemetery in Yeadon, PA. So many things stand out in that association that to recall them in a few words is hopeless. I don't know where to begin. Aso, tears fill my eyes when I think of him on a personal level so let me just try to outline his impact on the club.

Mario was a newcomer to Ham Radio, just over ten years, but his rise was spectacular. He went from a Ham tech to video and single sideband on 432 with home-built cameras and rf gear in less than a year. He seemed to engulf the hobby. He built more gear and got into more different aspects of the game at the same time than anybody I knew. He was very innovative and extremely clever and probably a lot smarter than most of us yet he put nobody down. He disliked to assume any position of leadership, yet he was a leader who was in there doing. He built gear that at times seemed to have a true ham flavor, lacking professional polish here and there, but when he saw the need for a first-class job, few could touch him. He was thinking all the time, and this attention to thought and logic saved many a job both in work and hobby areas. The club 432 converter is a masterful copy job, re-engineered by Mario and pushed to the last nut and bolt. These units, when they come up for sale, will always

be popular.

Two areas of sterling activity for the club stand out. The June contest, and his monthly raffle. How can we possibly think of the UHF tent without Mario and those pink shorts (*which he always wore in June*)? What two or three men will come forth and take over the patter and ticket sales for the raffle? Yet, how do we measure loss? Next to impossible. His technical and personable contributions to everything he came into contact with are endless.

All we can say is that Mario will be sadly missed by his family, his business associates, club members and friends. Here passed a man, the likes of which the world could use many more of. **Born:** July 23, 1921. **Died:** March 4, 1974. **Age:** 52."

*(We still honor Mario and his many contributions when we announce "The Mario Raffle" at most club meetings. Now you know a little more about the name source. Here's another Mario "fact" from my own recollections. Mario would make custom front panels, frequently rack-mountable, for many of his projects. After all the drilling was done, he took the panels to Al Million's auto repair on Bristol Rd in Ivyland. Al was a good friend of his, and would put the panels into his paint booth. Whatever color paint was being used for the next car repair would also be used on Mario's panels. So that is why he had the most colorful projects on display!) RIP good friend.*

### **Official Bulletin Nr 471 from ARRL.**

This bulletin (3/14/74) noted that the **ARRL** Emergency Communications Advisory committee is continuing a study of RACES in support of FCC docket 19723. Committee members welcome comments from all interested parties

**Technical Topic – Counter circuits.** A short article by Frank, **W3BVD** discussed the use of digital circuits to design various counters. He showed a nice design for a "selectable"

frequency divider with 6 stages. Using the 7497 IC, the input frequency can be divided as determined by the selection switch. Schematic and operation were included.

**Membership.** Visitors at the March meeting included **W2HX** (BB) A.G.Wentzel, **K2SMZ** John, **W3CIL** Pete, **K3ATL** Frank, **WA3RCN** Lew, **WA3BKP** Dave, and **WA3IWT** Richard. A membership application was submitted and read for **W2HX** BB Wentzel.

**Tidbits.** A reminder to "send your list of instruction manuals to EI, **K3JJZ**. He is compiling an index of availability and wants to include all that are available." (*EI whatever happened to the list?*)

**Amateur Television Today.** Ron, **K3ZKO** highlighted recent Ham TV activity in the Philadelphia area. He noted that Friday night is designated for the ATV net, operating on 439.25 MHz. Alternate net controls are Ron, **K3ZKO** and Ron, **WA3AXV** (now **W3RJW**). He also reported that the first licensed ATV repeater is now in operation, in the Washington, DC area. And he recommended **A5** magazine for those interested in getting involved with amateur TV.

**Swap Shoppe. By W3ZRR.** (*Always nostalgia.*)  
*Now we use the club reflector.* For sale by Tom, **W3WIJ**. A Swan 250C with power supply and Turner ptt mike. Complete station, \$450. Will ship. From Steve, **WA3KNM**, a **Collins** 100-watt AM transmitter covering 108 to 156 MHz, \$95. A **Collins** 648 receiver with digital readout covering 100 kHz to 20 MHz, \$55. And a **General Radio** Antenna Impedance Bridge for \$25. From Bob, **WA3CRX**, a National NC-183D receiver, a **Hallicrafters** HT40 Transmitter and a **Vibroflex** key. All in good condition, "reasonable." From Rich, **K3ACR**, a collection of **Clegg** equipment including **Interceptor** for \$250, **Zeus** for \$200, **Apollo** for \$100 and a **Venus** for \$250. Also listed briefly were items from Mario's estate, to be shown next month.

**Ads.** *This issue included 24 "business card" ads, including many from HAM businesses that are "no longer there." A full-page ad was included from "Electronic Exchange" in North Wales, another business that is "no longer there." Also*

*included was the half page back cover ad from club member Ham Buerger; however, no sale details were included. I note the current Cheese Bits Ad complement includes only 4 small ads, a ¼ page from Beko and a ½ page from Down East. If you'd like to join them, contact the ad chairman, Bob, **W2SJ**.*

**Miscellany.** *Postage for this issue was a single 8-cent "Flag" stamp. (9double sided, 8-½ x 11" sheets). (Don't forget, current postage went to 68-cents in January, and a penny postcard now costs 51-cents!) As usual, many other "folksy" comments about members, their families, and activities were included in this edition of Cheese Bits. If interested, or for more detail on any of the above items, visit our website ([www.W3CCX.COM](http://www.W3CCX.COM)) and read the full issue scanned by **K3IUV** (me), and posted on the website by Bill, **WS3O**, our webmaster. I have also posted the club Officers history, club Membership history, and Packrat Inventory (updated frequently) on the **W3CCX** website. These files are password protected, and only accessible to registered members. Are you registered? I hope you enjoyed reading these bits of nostalgia as much as I did in writing the article. If yes, you might let me know. Thanks to those that did.*

*thirty,* de **K3IUV** (comments or corrections to: [K3IUV@ARRL.net](mailto:K3IUV@ARRL.net))



# Regularly Scheduled On The Air Events

**VHF/UHF Monday** - Every Monday except holidays and contest nights the following nets are held, 224.9 MHz FM Repeater at 6:45, Packrat Talk Group DMR net at 7:00 PM, 50.150 MHz USB NCS N3RG FM29ki at 7:30 PM, 144.150 MHz USB NCS W2KV FN20os at 8:00

**1296 MHz Activity Night**—There's an informal 1296 activity night in the NY/NJ/PA/CT region (and beyond) every Monday night starting around 9:30 pm (or so) on 1296.110. No coordination, just jump in and say hello W2BVH

**222 MHz Activity Night**—There's been an informal 222 activity night in the Northeast (and beyond) every Tuesday night starting around 7 pm (or so) Eastern Time. ON4KST is being used by some to coordinate Q's when direct CQ's are weak. W2BVH

**KC3BVL UHF+ Tuesday Net**—Packrat, Jim KC3BVL conducts a Tuesday night net with schedule as follows: 7:30PM—903.100, 8:00PM—1296.100, 8:30PM— 2304.100

**KC3BVL VHF Friday Net**—Packrat, Jim KC3BVL conducts a Friday night net with schedule as follows: 7:30PM-144.160, 8:00PM-50.160, 8:30PM- 222.150, 9:00PM-432.160

## Links to other Activities

Reminder: there are 3 FT8 VHF / UHF Activity Contests each month. For info see: <http://www.ft8activity.eu/index.php/en/>

For those interested in an online "Contest Only" event calendar for VHF+, see <https://www.qsl.net/n2sln/contestcalendar.html>

Here's a Meteor Shower Calendar showing the dates for all the Meteor Showers in 2024. They're correct for our location in the Northeast. <https://www.timeanddate.com/astronomy/meteor-shower/list.html>

The Packrat web page now has a dedicated tab for the Fall Sprints <https://www.packratvhf.com/index.php/fall-sprints>. This page will be used for Fall Sprint announcements, Sprint Rules publication, sprint awards recognition and other sprint news of interest. Check back as work progresses.

From Phil **WA3NUF**

**47th EASTERN VHF/UHF/MICROWAVE CONFERENCE:  
APRIL 19-21, 2024  
Hilton Garden Inn (860)-688-6400  
555 Corporate Drive, Windsor, CT 06095  
(I91 exit 38 to Day Hill Rd.)**

4/18/24 **THURSDAY** Early Arrivers  
6-9pm Meet in bar

4/19/24 **FRIDAY** LODGING  
12:30pm Early Arrivers Lunch - meet K1MAP (413-222-9292) in Lobby  
2:00-5pm Afternoon Workshop TBD  
6:00pm HOSPITALITY ROOM (BYOB due to Hotel rules)  
7:30pm Indoor SWAP/SELL & VENDORS.

4/20/24 **SATURDAY** REGISTRATION, TALKS, AUCTIONS, TEST LAB , VENDORS & MORE.

Schedule Details Coming SOON  
7:30am REGISTRATION BEGINS  
8:15am OPENING ANNOUNCEMENTS  
8:30am TALKS BEGIN (see SCHEDULE):  
11:30pm LUNCH (Grinders at Jim's Restaurant)  
1:15pm TALKS RESUME  
4:15pm TALKS CONCLUDE  
5:00pm NEWS MEETING - W2AAU  
5:30pm Pre-Banquet Hospitality Room  
7:00pm BANQUET BUFFET (7 PM - 8:30 PM)  
8:20pm Tom Kirby Award Presentation  
9:00pm DOOR PRIZE EXTRAVAGANZA, Michele Clement W1MKY and Don Twombly W1FKF

Schedule Details Coming SOON  
Super Test Lab up to 122 GHz

4/21/23 **SUNDAY**  
9:00-11am VHF+MW SWAP/SELL at Vintage Radio & Communications Museum

**\*\*NO EARLYBIRDS\*\*** & VENDORS (8AM setup),  
(included with Registration- Please contact Mark Casey K1MAPfor details)

EVERY REGISTRANT IS ELIGIBLE FOR PRIZE DRAWINGS.

More info at [https://www.newsvhf.com/latest\\_newsletter.pdf](https://www.newsvhf.com/latest_newsletter.pdf)



# Sussex Amateur Radio Association

## - APRIL 20, 2024 -



# Delmarva Amateur Radio & Electronics EXPO

**Centrally and conveniently located...within 2 to 3 hours of major cities:**

Baltimore, Philadelphia, Wilmington, Washington DC, and Virginia Beach as well as Eastern PA and Southern NJ

**NO SALES TAX - MORE VALUE FOR VENDORS AND GUESTS - FREE PARKING**

**Bring The Family And Enjoy A Weekend At The Beach!**

### Past Vendors & Exhibitors

ARRL  
 Beebe Hospital  
 Fisher Cable  
 Call Stuff  
 Direct Tools  
 GnG Electronics  
 Satellite Sam  
 Hamsource.com  
 HRO (Ham Radio Outlet)  
 Magnum Electronics  
 Quicksilver Radio  
 Redicall Communication  
 The RF Connection  
 Towaco Imaging  
 Verizon

### Events & Attractions

ARRL State Convention  
 Tail Gating  
 Great Food  
 Blood Pressure Testing  
 Chinese Auction  
 Raffle...Big Prizes!  
 License Testing  
 Guest Speakers/Forums  
 QSL Card Bureau/Card Checking  
 Door Prizes!

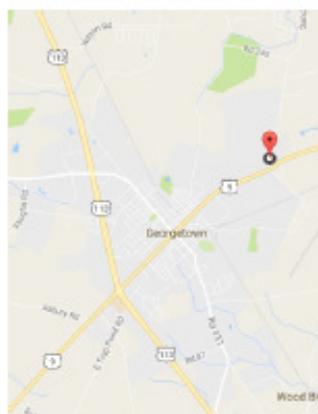
**Guests Pay \$8 To Enter!**  
(Under 18 FREE!)

**Inside spaces \$15.00 - 1st Table**  
**Tailgaters : \$15.00 - First Space**

**For Information  
Contact Jamie, W3UC  
(410) 202-7690**

hamfestdelaware@gmail.com

### HAMFEST LOCATION:



**Cheer Community Center**  
20520 Sand Hill Rd.  
Georgetown, DE 19947

### HOST HOTEL:

Tru Hotel by Hilton  
301 College Park Drive  
Georgetown, DE 19947  
(302) 515-2100  
www.hilton.com

**JOIN US IN TAX FREE DELAWARE!**

**Gates open at 6:00 A.M.**  
**Expo begins at 8:00 A.M.**

### Schedule

6:00 AM	Gates Open
7:30 AM	Tailgating
8:00 AM	Indoor expo venue opens Restaurant available
12:00 PM	FCC testing -No test fee, pre-registration required Last test seating at 12:30 PM

### Speakers Forums

ARRL Update  
Others

**TALK-IN: SARA Repeater**

147.090 mHz PL 156.7

*Schedule subject to change*

The Delmarva Amateur Radio Electronics EXPO is sponsored by Sussex Amateur Radio Association



**www.radioelectronicsexpo.com**

Follow us on Facebook at Delmarva Amateur Radio & Electronics

Call for Papers and Presentations for the 47th Eastern VHF/UHF/Microwave Conference, April 19-20, 2024, in Windsor, CT. Sponsored by the North East Weak Signal Group (NEWS).

details at <http://www.newsvhf.com/>

Presentations or papers are welcome on VHF, UHF, microwaves, and higher. All aspects welcome, technical and non-technical - operating, contesting, homebrewing, roving, software, EME, surplus, antennas, test equipment, amplifiers, SDR, 47 GHz superregen, attracting lightning, whatever.

Send submissions and questions to:  
w1ghz <at> [arrl.net](mailto:w1ghz@arrl.net)

**Hamfest season starting and many Hamfests to attend. Some NJ Hamfests**

April 20, 2024 Splitrock ARA Landing, NJ <https://splitrockara.org/hamfest/>

## **45th Annual Sussex Hamfest July 14, 2024**

Sussex County Fair Grounds, 37 Plains Road Augusta, NJ 07822  
GPS Lat. / Long: 41o 08' 10.2" x 74o 43' 01.9" (decimal 41.136200 x -74.717233)

Indoor sales, Tailgating, VE Session, refreshments and Door Prizes.

- Admission \$8
- Indoor Tables \$25
- Tailgate Space \$25 includes One (\$8) Admission
- Each Additional person \$8

**Phone: 973-862-8124 - Email: [hamfest@scarcnj.org](mailto:hamfest@scarcnj.org)**

**International EME 2024 Conference**—August 9<sup>th</sup> to 11<sup>th</sup>, 2024 TCNJ Trenton, NJ <https://eme2024trenton.org/>

**EME101 An Intro to EME**—A full day course Friday August 9<sup>th</sup>, 2024 TCNJ Trenton, NJ <https://eme2024trenton.org/eme101/>

### ***PLEASE SEND IN 2024 DUES***

Club dues are due as of Jan 1st, 2024. Go to [https://www.qsl.net/w3km/MtAiryRC\\_Dues.htm](https://www.qsl.net/w3km/MtAiryRC_Dues.htm) and use the "check here" link to see if you already paid. If not, enter your callsign and click on "PayPal"

**Dave *W3KM***

# WARMINSTER AMATEUR RADIO CLUB

## 2024 HAMFEST & ARRL EPA SECTION CONVENTION

Sunday, May 5, 2024 (rain or shine)

Gate opens at 7 am (6 am for vendors)

### LOCATION:

Bucks County Community College -  
Lower Bucks Campus  
1304 Veteran's Hwy (Route 413)  
Bristol, PA 19007

### GPS Coordinates:

Latitude: 40.112755 | Longitude: -74.876504

Talk-in 147.09+ (131.8) / 443.95+ (131.8)

- New & Used Ham Radio & PC Equipment
- Equipment check-out table
- VE Testing at 10:00 am
- DXCC card checking
- Door prizes every hour
- Food service available
- Presentations:
  - 8:30 am - AREDN MESH Networks Overview & Demo
  - 10:30 am - ARRL Atlantic Division/EPA Section Forum

- Gate admission: \$8/person
- Unlicensed spouses & under 13 free
- Student free with valid ID
- Tailgating: \$10/car-width space (plus admission)
- Indoor tables: \$20/table (plus admission)
- Handicap parking available

## Dayton Hamvention 2024

### When is the show?

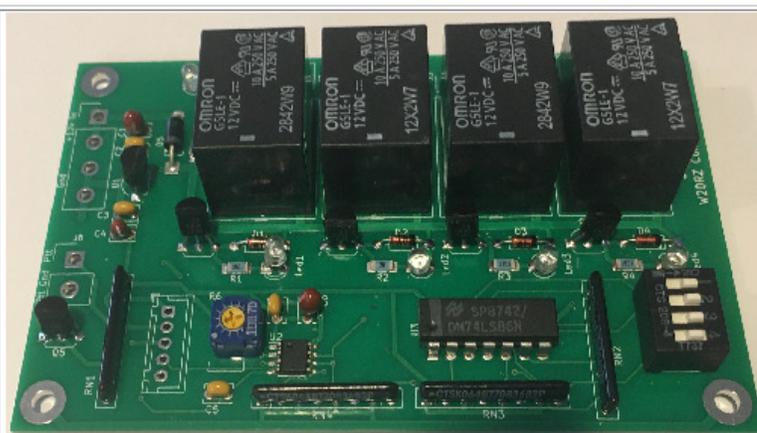
Friday	May 17th	9:00 AM – 5:00 PM
Saturday	May 18th	9:00 AM – 5:00 PM
Sunday	May 19th	9:00 AM – 1:00 PM

### Where is the show?

Greene County Fair and Expo Center  
[210 Fairground Road, Xenia 45385](#)  
Coordinates are 39.702 N – 83.9420 W

## W2DRZ Controllers New Product Announcements

### SEQ-3 Sequencer



Our Sequencers, SEQ1 and SEQ2, have proven quite popular and we have sold almost all that have been made. But we discovered a small problem with the original design that caused a random time delay when activating or releasing the PTT line. The delay is not very noticeable except when using slow sequence rates. But we felt that this required a new design. The new design uses an interrupt driven microprocessor that instantly responds to changes on the PTT input.

Savings on board cost and component reduction have allowed us to reduce the price from the original \$67 to \$59 for the new SEQ3.

See our web pages for full information about these sequencers: [www.w2drzControllers.k2txb.net/NewProducts.htm](http://www.w2drzControllers.k2txb.net/NewProducts.htm)

### Kenwood TS-2000 services

*We are now able to offer some limited repair service for owners of the venerable Kenwood TS-2000 transceiver.*

1. Repair failed back lighting of the digital display, by installing LED lights (with necessary circuit changes).
2. Replace old backup battery.
3. Adjust master oscillator to be within 20 Hz of correct frequency on 2 meters. (for higher bands the error will be greater due to increased drift with fan operation).
4. Fan Modifications.
5. Fix incorrect 1296 MHz output module bias, in early models.
6. Fixing other faults, details to be worked out, but on a case-by-case basis.
7. See our service page for more details: [www.w2drzControllers.k2txb.net/Services](http://www.w2drzControllers.k2txb.net/Services)

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**Instant ON • Built-In Preamp Sequencer • Overdrive...Temp. & VSWR Protected**

144 – 148 MHz	430 – 440 MHz	1270 – 1300 MHz	70 – 440 MHz
HLV-1000* 3,100	HLV-550* 2,900	HLV-350* 3,200	All models also available as LPD version with 1 mW P <sub>in</sub> for SDRs
HLV-1400* 4,300	HLV-770* 3,150	HLV-800* 4,950	
HLV-2000* 5,250	HLV-1470* 4,580		

**\*P<sub>out</sub> in Watts • WSJT Full Output Rated • 220 MHz and 70 MHz models on request**

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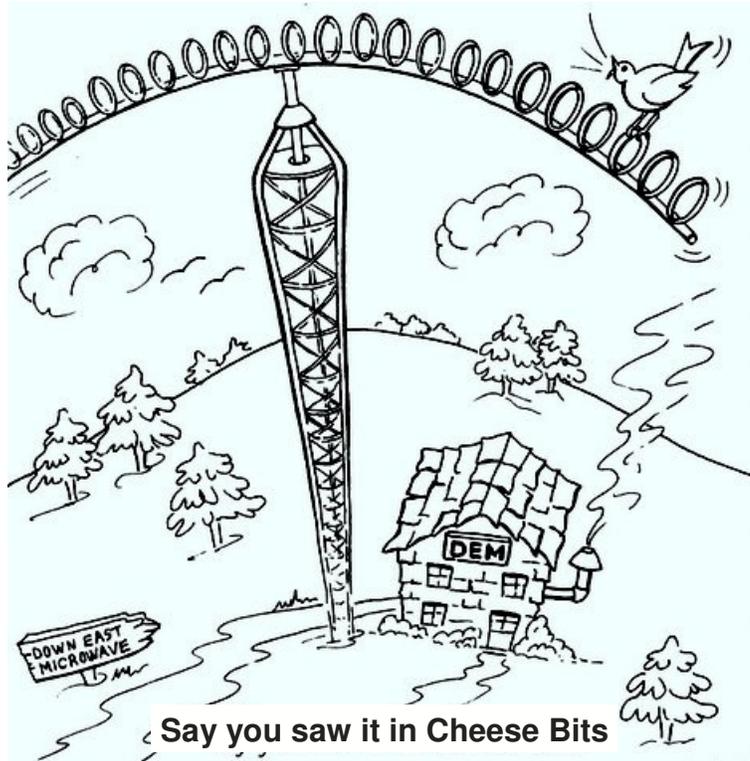
Hours: Monday-Friday 9:30am-5:30pm Eastern  
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Ambler PA 19002



**TO:**

**MT. AIRY VHF RADIO CLUB, INC.**



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