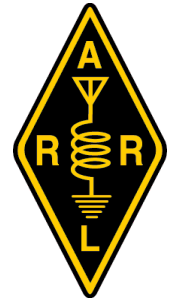




CHEESE BITS

W3CCX
CLUB MEMORIAL CALL

ARRL
Affiliated
Club



Volume LXVII

November 2024

Number 11

PREZ

SEZ:

November 2024

The cooler temperatures and shorter daylight hours are signaling the start of January VHF Contest prep season.

Now is the best time to get those antenna and tower projects underway before winter weather really does arrive! And don't forget those indoor projects we all keep putting aside for a rainy day. There has been no rain in sight for over a month and the contest count-down shows just over two months remain!

The January Contest Committee is working hard to seek out club members that need help getting on a new band or improving their current station capabilities. There are a number of ideas being discussed including holding a few practice sessions with WSJT to help club members test their logging SW integration with WSJT and verify setup and capability on each of the VHF / UHF / Microwave bands before the actual contest starts. The first step is to identify the stations that need help – please speak up and let the committee members or club officers know with what you need help.

To help jumpstart things, the November club meeting will feature a number of activities to get everyone's contest spirit rejuvenated. The meeting will feature not one but two noise figure test stations to provide attendees with the opportunity to have their LNA's and transverters for 2M to 10 GHz tested. Additionally, we will kick off contest prep season with a series of short, focused, and relevant mini presentations highlighting topics that are intended to help you improve your final score. All that plus coffee, donuts, a

special Mario Raffel, and great camaraderie – don't miss it, make plans to attend now!

Thanks to Mike Gullo WB2RVX for a very informative presentation at the October meeting on Alternative Powering Solutions for the home. The video recording of Mike's presentation is now on the Pack Rat Facebook page along with other previous meeting program presentations: <https://www.facebook.com/PackRatVHF/videos/1802581466939766> Presentation slides from this year's recent programs are also available on the packrat webpage on the Technical Article page.

Sunspots, solar flux, and solar flares seem to be peaking up again providing extensive band openings on 6M and the higher HF bands. The chance of a major flare and another Aurora event appears to be inevitable since the current sunspot cycle shows no sign of subsiding. Take advantage of the current conditions! This is a perfect opportunity to add to your DXCC, WAS, VUCC and other awards totals. Time to get Radio Active!

In case you haven't looked recently, Down East Microwave has reopened for (limited) business while they continue to work on rebuilding the damage caused by hurricane Helene and Milton. Steve and Sandra updated their webpage at the end of October with recent photos and instructions for people that are looking to make purchases.

See you soon at the meeting or on the bands.

Phil WA3NUF

Packrats **CHEESE BITS** is a monthly publication of the
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K1RZ David Petke 2 Year Director

N3RG Ray Golley 1 Year Director

WX3K Stephanie Koles 1 Year Director

PACK RAT COMMITTEES

January Contest	N3RG, N2NC, W2SJ, AA2SD
June Contest	N3YMS, WA3YUE, W2SJ
Fall Sprints	WA3NUF, W9KXI, WA3EHD, WS3O
Pack Rat Awards	WA3EHD, W2SJ
Quartermaster	Bert K3IUUV
Membership:	Ray N3RG, W2SJ, WA3GFZ

PACKRAT BEACONS - W3CCX/B

144.300 (FN21be), 222.060 (FN20tk), 432.300 (FN20tk), 903.300 (FN21be), 1296.300 (FN20dh), 2304.300 (FN20tk), 3400.300 (FN20dh), 5760.300 (FN21be), 10,368.300 (FN20tk)
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	224.580 MHz	KB3MTW Michelle Even, K3JJZ El Odd Mondays
7:00 PM	Packrat Talk Group	KA3WXV George See Packratvhf.com ON AIR for details
7:30 PM	50.150 MHz	N3RG FM29ki Ray
8:00 PM	144.245 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 or www.w3ccx.com

PACKRAT E-MAIL REFLECTORS

The Pack Rats have an E-Mail reflector that is open to Pack Rats and friends of the Pack Rats. The intent of this E-mail reflector is to have a convenient means of reaching list members on subjects of general interest to the VHF/UHF and Microwave community.

Packrats@mailman.gth.net

The Pack Rats also have a **Members Only** reflector. This list consists of, and is for the use of, **only Pack Rat club members**.

Packrats-members@mailman.gth.net

See the W3CCX Web page for specific information on joining.

Packrats on Facebook

Use the browser link "www.facebook.com/PackRatVHF", or within Facebook search for the name "Mt Airy VHF Radio Club".

New Member Application

Mount Airy VHF Radio Club, Inc. Warminster, PA. APPLICATION FOR MEMBERSHIP

Call KC3NDU	Class Extra	License Expiration date 03/26/2029	Application date 9/21/24
Name Keith Lynn		E-mail address [REDACTED]	
Address 440 Old Gravity Road		Spouse Name [REDACTED]	Call* No Call
City Lake Ariel			
State Pa	Zip 18436	*(optional)	
Phone [REDACTED]	ARRL Member? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Life (check one)		
Business	Other Radio Clubs Wayne County Amateur Radio Club		
Bus. Addr.	Other Hobbies* Coin Collecting		
Cellphone	Grid Locator: FN21HL		(6 digit)
Station Equipment			
Band MHz	Radio	Output power	Antenna
A 50	Yaesu FTDX-1200	100	5 el yagi
B 144	IC-910h	100	10 el yagi
C 222			
D 432	IC-910h	75	Diamond X-300
9 903			
E 1296			
F 2304			
G 3400			
H 5760			
I 10368			
Low Band			
Applicant's reasons for joining this club:			
<p>Reason for Joining the Packrats. The above box won't allow me to write in it. I have become interested in VHF/UHF and above. I have worked some SAT qso's, vhf contests, and have become a 6m enthusiast. I am eager to learn more and need to be in the vhf environment. What better way to learn and expand in this area of the hobby than to join the Mt Airy Pack Rats. No sponsors. The only pack rats i ever met was Rick, K1DS at the EME conference. And maybe Robert W2SJ on the 6m net. If I can't gather 2 sponsors, I will continue checking in to the nets and meetings. Thank you for your time in this matter. Keith KC3NDU</p>			
Reasons for Sponsoring			
<p>Keith is a rising VHF'er whom I met at the EME meetings in NJ. He has the gear and is working to move deeper into VHF and up. He is an active VHF contester as well as an HF op as demonstrated by his QRZ page. He would be a fine addition to the club.</p>		<p>I've been in contact with Keith and sense his enthusiasm in our club for all the right reasons. I feel he'll make a good member that has already demonstrated his willingness to participate in our club activities. He understands what the Packrats are all about and wants to become one of us.</p>	
Sponsor 1 call & initials K1DS RAR		Sponsor 2 Call and initials N3RG RMG	
DO NOT WRITE BELOW THIS LINE			

October Club Meeting

October's club meeting was held on Thursday October 17. It was well attended both in person and remotely.



Among the things on display were a beautiful General Radio slotted line which was on its way to finding a new home. Instruments don't come packaged like this any more. The design of some of these older instruments is as much a mechanical marvel as an electrical instrument.



Also on display at the October meeting was the new 10 GHz beacon that is near being ready for installation.



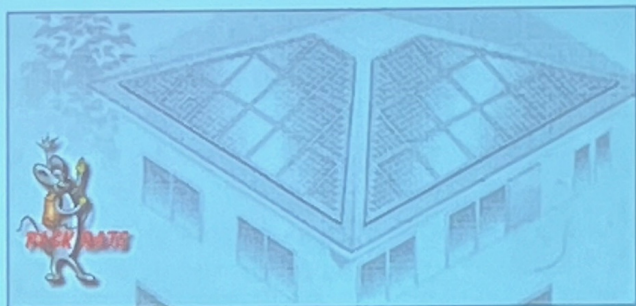
On the right is GPSDO frequency reference with the beacon controller mounted below it. On the bottom left is the carrier synthesizer that produces a signal in the 3460 MHz band that is fed to the tripler on the top right to produce the final 10 GHz signal.



The slotted waveguide antenna is shown mounted on top of the 4.4 W power amplifier. To the left of the amplifier is the heat sink for the amplifier.

The presentation for the meeting was a talk on Alternate Power for The Home given by or own Mike Gullo, WB2RVX, who owns Solar Solutions LLC of Voorhees, NJ. Mike presented a brief history of photovoltaic cells and their evolution to the point where they are practical for use powering homes. He also covered development of the inverters that are used to convert the DC produced by the PV cells to AC for use in homes and the battery storage systems that are becoming available for home use.

Alternative power for the Home



October 17, 2024

Outline

- Intro/Disclosures
- Solar
- PV Timeline
- How does it work
- Solar Modules
- Inverters (RFI/EMI)
- Why do we need this?
- Generators
- Storage



November Meeting

VHF Contest Planning

GET READY for Jan VHF Contest 2025

Calling all fellow Pack RATS



ARRL VHF Contest January 18-20, 2025
Contest Period: Begins 1900 UTC Saturday,
ends 0359 UTC Monday.

Ben Wilson Senior Activity Center November 21st
Noise Figure Measuring Session
(test all bands 144Mhz to 10GHz)

Please RSVP with (equipment, number of items & bands to be tested):



Contest Planning- Promote Weak Signal-Check Your Equipment

www.packratvhf.com

Note from the Editor

Please continue to send in material that you feel is appropriate and if you have not yet sent anything in please consider doing so. Send submissions to cheesebits@packratvhf.com. Please do not send submissions to my personal email account as they are likely to get lost and not make it into Cheese Bits.

Again I want to thank all of the contributing authors and photographers. If you submit photographs please include some text explaining what is going on in the picture. Special thanks to my wife Melanie who proof reads each issue and offers corrections.

Tom KA3FQS

Members Activities

Jim **KC3BVL**

Parks on the Moon, POTA stands for parks on the air. As POTA sounds like the fun it is, I imagined Parks on the Moon sounds like at least as much fun.

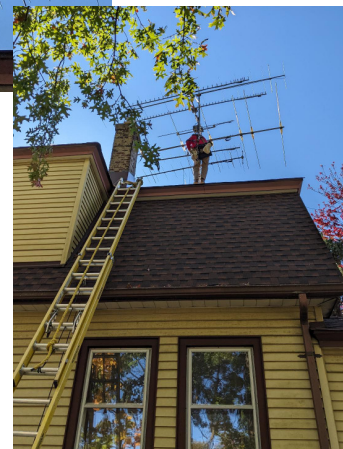
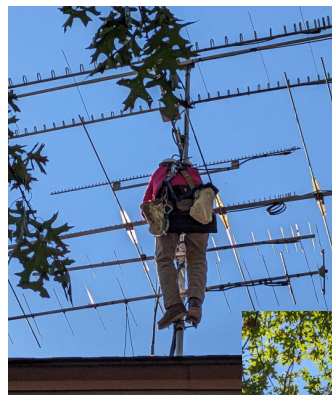
Louis WA3EBS and I gathered together a portable 1296 EME station and set it up in his back yard. 2 x 33 yagi, 50 watts and ic9700. We picked weekend of EME contest Oct 19th and 20th, and worked Colorado station K0PRT with their 60 foot dish early Sunday morning.

The next step is setting up 1296 EME station in a POTA park and make 10 terrestrial contacts this Saturday October 26th.



Lenny **W2BVH**

Late summer, my antennas came off so the roofers could put on a new roof. When it came time for the antennas to go back up, I discovered that the fiberglass crossbar holding the 3 microwave antennas had weakened to the point of failure. I replaced it with 1" schedule 40 aluminum pipe. I also took the opportunity to mount a fourth microwave antenna (3.4GHz) on the crossbar and also offset the 1.2GHz antenna from its mounting plate by 4". Hopefully the offset will improve the pattern. It took several visits by Warren (WB2ONA) and his crew (Danny & Sydney) to get things squared away. Thanks guys! I finally got back on 1296 again last night (10/21) and worked K1PXE, WZ1V, WA2LTM, W2RMX. Great to be back! Now it's time to turn all the pieces I have in the basement into a 3.4GHz rig for the new antenna. It should happen some time this winter.



Members Activities

Dave Petke **K1RZ**

Here is my successful submission email to ARRL for the 10 GHz and Up contest third weekends of August and September.

Here are my soapbox comments for the Contest.

The August-September 2024 10 GHz and Up Contest

August Weekend Block Island RI FN41EE. With close friends Dale AF1T, Steve K3WHC and Mickie W1MKY. A location we've operated at together since 2018. Great Fun! Preliminary operations through the week before showed our gear was working fine, including 24 GHz. Some highlights. On Saturday start of the contest included working Maggie KE2AIZ and her dad Andy K0SM on 10 GHz CW early morning in FN12EV at 531 km. Great to see Maggie doing so well with the CW. The upsurge of the 24 GHz activity was also exciting to experience. Through the weekend I worked K1OR, K1CA, K1ZZ, K1FMS and KC0IYT on both 10 and 24 GHz Saturday morning all in FN42AD at 111 km. In my fairly limited 4 years on 24 GHz experience, this is by far the most stations I've worked off the island in August on 24 GHz. Let's keep this trend going. And thanks to Fred K1FMS for pushing out some newer 24 GHz capabilities to others in New England. Sunday was mostly all rainscatter. There were a lot of rain cells showing good solutions on rainscatter.com through a good part of the day. Thanks Andy K0SM for making this tool available on both laptops and smart phones. Speaking of rain, our team was rained off the air at about 2350 UTC. I should have watched the WX radar too. Through this weekend (and the whole contest), my best DX was 711 km on 10 GHz with Kevin VE3KH in FN03CG.

Saturday September 21 at Hogback Overlook on Skyline Drive in northern VA at FM08us. With close friends John N9ZL and Bill W2RMA. Bill and I were up on the overlook as early as possible since some other groups would also be on early. Problem. But, in the dark Bill and I thought we were on Hogback, but we were actually at another overlook which was 3 miles east of Hogback. Fortunately our partner John came to our rescue and helped us all get re-located to the right site. Oh my. Anyway a little while later we were up and making contacts at the actual Hogback Overlook. Ha ha. This site allowed us to work many contacts in Ontario, including: VE3KH, VE3SMA, VA3ELE+VA3TO+VE3SST(2) and VE3DS. We also worked Peter WW2Y and Al KB3SIG at FN21EF. And later we worked Al W9KXI in FN12LE for his first Rainscatter QSO ever! Way to go Al. And we finished out the day working Eric WG3K (now an old hand at 10 GHz Portable ops) at FM19UA and Maurice K3EJJ at FM19OF (also the builder of the Maryland K3EJJ and the Virginia W3IP/K3EJJ 10 GHz beacons).

Sunday September 22 at Blue Knob FN00rg in WPA with Bill W2RMA and I. Having been there before a few times we experienced the thickest fog before sun up that we'd ever seen, actually stopping on the road to investigate with flashlights to be sure we were actually still heading up the access road. We were joined by our long time WPA friend Kip K3IP (ex-N2XRE). Kip helped us both in many ways through the hours of his visit. Thanks Kip. Hoping you'll be on 10 GHz too for your next visit. Our first contacts were with the energetic group of K8ZR, K2DH, K2UA, and N2MG. Good signals from all. Followed soon by VA3ELE, VE3SST and VA3TO. You guys have it

Members Activities

going on. Steve K3WHC was also out at FN10qb and we worked easily on 10 GHz at 165 km. We tried for some time on 24 GHz and Steve heard me briefly when I tried tilting up to get to the cooler air-moisture for less attenuation, but I was increasing the elevation angle while transmitting and was unable to re-find the elevation angle needed to make that contact. Possibly complicating the successful solution a bit was the fact that while Steve was in the sunshine, I was in the heavy fog. More practice needed. Heavy fog most of the day, with max visibility no more than ¼ mile. In spite of being “almost wet” all day, Bill and I had a good time there and worked a number of stations in NY, ONT, MD, PA, NJ, and RI. Sunday evening back at home QTH FM19JH. First worked the locals, some of whom I had worked from other grids this weekend, including K3EJJ, N3RG, N3FL, WB2RVX, WB2ONA, W8ZN and K3TUF. Then some DX with Jeff W2FU (FN13GF), Dale AF1T and Mickie W1MKY (FN41QK on airplane scatter), and finishing off through the continued energetic efforts of N2MG, K2DH, K8ZR and K2UA in FN23bf, on the shores of a lake in WNY – which I would have thought would be a lower and less good location – but their experience was it is a great site!

We are already planning to activate the same locations again next year. Thanks everyone who worked us and looked for us, and got on to work one of the most fun activities of the year – the 10 GHz and Up Contest. Thanks ARRL for your sponsorship. 73, Dave K1RZ

Band	Mode	QSOs	Pts	Unq	Pt/Q
10000	CW	120	45692	59	380.8
10000	USB	34	6015	15	176.9
24000	CW	7	1146	7	163.7
47000	USB	2	54	2	27.0
122000	CW	2	90	2	45.0
Light	CW	2	90	2	45.0
Total	Both	167	53090	87	317.9

Score : 61,787

The Wayback Machine

In CHEESE BITS, November, 1974. Vol. XVI, #11
de Bert, **K3IUU** (*author's comments in italics*)

“Our Prez Sez”. Prez Ron, **W3RJW** highlighted the outstanding Hamarama that the club held in the drive-in at Street Rd and Rt 611. He noted “over 1000 registered guests, and row after row of tail-gaters.” He thanked all the workers and reminded the team to put next year, first Sunday in October, in their calendars. He closed with a new cryptogram, repeated here. Give it a try without peeking at the answer on the web. OTO JZF PGPC HZYOPC HSD SLO EZ NWPLY VTYR VZY'D WTEEPC MZI?

Calendar of Events. November 2, the Warminster club auction at the Township Building on Gibson Ave. (*Small world, 50 years later the Packrats held an auction in Warminster at the Senior Center!*) Nov 21, club meeting at the library, highlight's to be Doc's silent auction and the Mario raffle (*still going strong after 50 years*). Dec 19, a “closed” club meeting. Only members permitted. Here's where the strategy and plans for the January contest were finalized.

Ham Radio Book donation. The club presented a collection of books and manuals to the Southampton Free library. The head librarian Ms. Foster sent a note to the club as follows: “We have added the books you donated to our collection, with acknowledgement indicated therein. We thank you for your generous donation.” (*My recollection is that these were ARRL publications. Maybe we should consider a similar donation again, to the Warminster library?*)

VHF Report. Joe, **W2EIF** noted a good aurora opening in the middle of September, that provided contacts through 432. A similar one in October was not as productive, with nothing heard above two meters. Joe regularly copies **K1WHS** in Maine on tropo, with signals at S-7 or better. Joe reminded members to check out their gear prior to the upcoming January contest, noting that “strange things happen when they sit idle for any length of time!”

This is Your Life (Part #4, Plans for Incorporation). In this issue, Frankie, **W3SAO** continued to present the history of the Packrats. In 1957, The Prez, Ozzie, **W3FSC** announced plans for a club project to get the members on six meters (*early club activity was fostered on two meters using available surplus equipment*). A quote was received for club insurance, and the agent was asked to provide a complete policy description. Plans were announced for a Packrat Net to be run each Monday at 8:00pm on 144.2 (*Still in effect today, with the recent frequency change to 144.245*). Net control station would be Frankie, **W3SAO**. On May 15, **W3FSC** announced the club had purchased the Insurance Policy to protect the club and its members during club functions. Several members attended a meeting at Radio station **WFIL** in Flourtown and developed a 13-week plan to train Boy Scouts interested in Ham Radio. (To be continued.)

Moonbounce Try Successful. On 10/12/1974, Al, **K2UYH** (*recent SK*) was assisted by **WB2HHH** and set up a 1kW 432 MHz Moonbounce station in

the driveway of Ron, **WA3AXV (W3RJW)** in Churchville. Intended as a test prior to a Kentucky expedition, the test was successful and Al heard his home station near Princeton, NJ. The antenna was a 108-element array of Yagi's. Two photographs show the equipment and operators during the test.

Official Bulletin Nr 505 From ARRL Headquarters. October 17, 1974 to all Radio Amateurs BT: The 1975 International DX competition will feature several rules changes recommended by the contest advisory committee. A number of additional categories have been added. Full details in QST. "Please spread the word." (*Now if we could get the committee to resolve some of the dissatisfaction with the current VHF contest, we might all be happy.*)

145 MHz AM Activity, by K3ZSG (now W0RSJ). Bill reported an interesting statistic. The previous decline in AM activity has recently reversed, and a large number of stations may be found between 145 and 145.8 MHz, using AM. Partly due to crowded simplex channels on FM, and partly due to some frequent DX stations from different states (e.g., **K1SAK** in Rhode Island on 145.025, and **W4JFU** in Virginia) who are on nightly. He reports that in the past year of his nightly operations he logged over 435 different stations (non-contest) on 2-meter AM. (*How times change!!*)

Electronic Exchange moving. A popular source for parts and equipment, Electronic Exchange announced a new location in Souderton, PA. They provided a map and directions to the new location, and commented "Even though we are moving to larger quarters, we intend to continue the same

personalized service which we have tried to render in the past. Your support of this new endeavor would be greatly appreciated." The store was run by Gordon, **K3AIG**. (*Alas, as with many other electronic supply locations in our area, this is another "thing that isn't there anymore."*)

Swap Shoppe. By Ray, W3ZRR. (*Always nostalgia. Now we use the club reflector.*) For sale by Stan, **K3IPM**, an RCA 50MHz Amplifier for SSB, CW and FM. Featuring a pair of 4-125A's in the final, with a 1,700-volt, 500 mA power supply. In a 5' commercial cabinet, with 3 spare tubes. A bargain at \$100! From Walt (no call), a collection of QST's from 1944 to 1957 plus 67 and 68. From Dom DeRosa, a Heathkit HM102 SWR bridge for \$20, and an HF linear using an 813 for \$40. Also, a Heathkit 5-inch model 10W-145, triggered lab scope (like new) for \$100. And if you needed a pet, someone offered Great Pyrenees puppies from a champion line!

Ads. *This issue included 24 "business card" ads, including many from HAM businesses that are "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 1/4 page from Beko and a 1/2 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. (6 double sided, 8-1/2 x 11" sheets). (Don't forget, current postage went to 73-cents in July of 2024! And a penny*

... Wayback cont'd

postcard now costs 56-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) and read the full issue scanned by **K3IUUV** (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 **K3IUUV** (comments or corrections to: K3IUUV@ARRL.net)



Mystery Module



Rummaging through a junk box I came across this power amplifier module. I have been unable to find any data on it and would like the assistance of anyone who might know what it is.

Tom **KA3FQS**

Tech Notes from Lenny **W2BVH**

Just about everything you might want to know about designing coaxial power splitters

http://dg7ybn.de/Splitters/coax_online_calc.htm

Watch "TSP #251 - Agilent 50GHz PSA Includes a nice teardown of the electro mechanical attenuators

<https://youtu.be/LpMzHS4v9U8?si=OahBea6CO1YExSFE>

The Anytone AT-D878 HT (a fairly pricey --\$250-- rig) has new firmware which tracks satellites and lists the ones that are currently in view. You can pick one you're interested in from the list, press PTT and go. (Or so they claim).

<https://anytone.org/wp/2024/09/19/anytone-at-d878-now-has-automatic-satellite-tracking/>

Regularly Scheduled On The Air Events

VHF/UHF Monday - Every Monday except holidays and contest nights the following nets are held, 224.58 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, 144.245 MHz USB NCS W2KV FN20os at 8:00 PM, 222.125 MHz USB NCS KC3BVL FM29jw at 8:30 PM, 432.110 USB NCS WB2RVX FM29mt at 9:00 PM.

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 .

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.

KC3BVL UHF+ Wednesday Net—Packrat, Jim KC3BVL conducts a Wednesday 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

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

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

Meteor Shower Calendar for 2024 - 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>

Upcoming Events

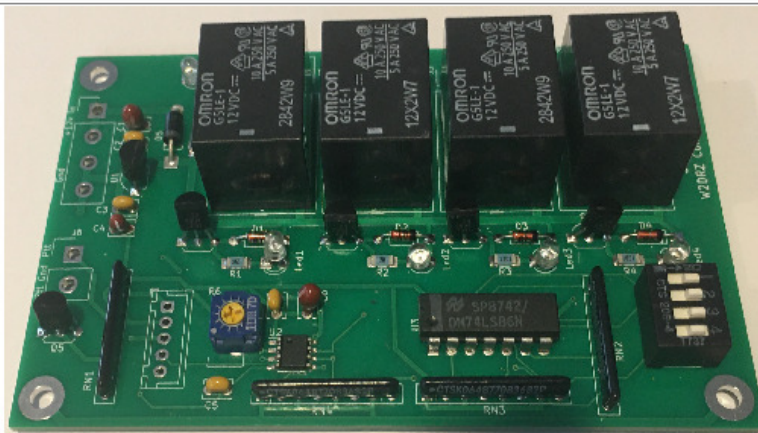
November Club Meeting—The upcoming club meeting will feature presentations on getting ready for January VHF contest. A special workshop will be held to measure the noise figure of preamps and transverters.

Straight Key Night—This annual event will be held as usual on January 1 from 0000 UTC through 2359 UTC for all of you old time radio telegraphers.

ARRL January VHF Contest—This is one of the two major contests in which the club participates. It will be held on January 18—20. 2025.

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

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

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HLV-1400* 4,300	HLV-770* 3,150	HLV-800* 4,950	
HLV-2000* 5,250	HLV-1470* 4,580		

***P_{out} in Watts • WSJT Full Output Rated • 220 MHz and 70 MHz models on request**

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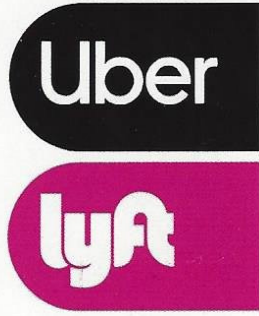
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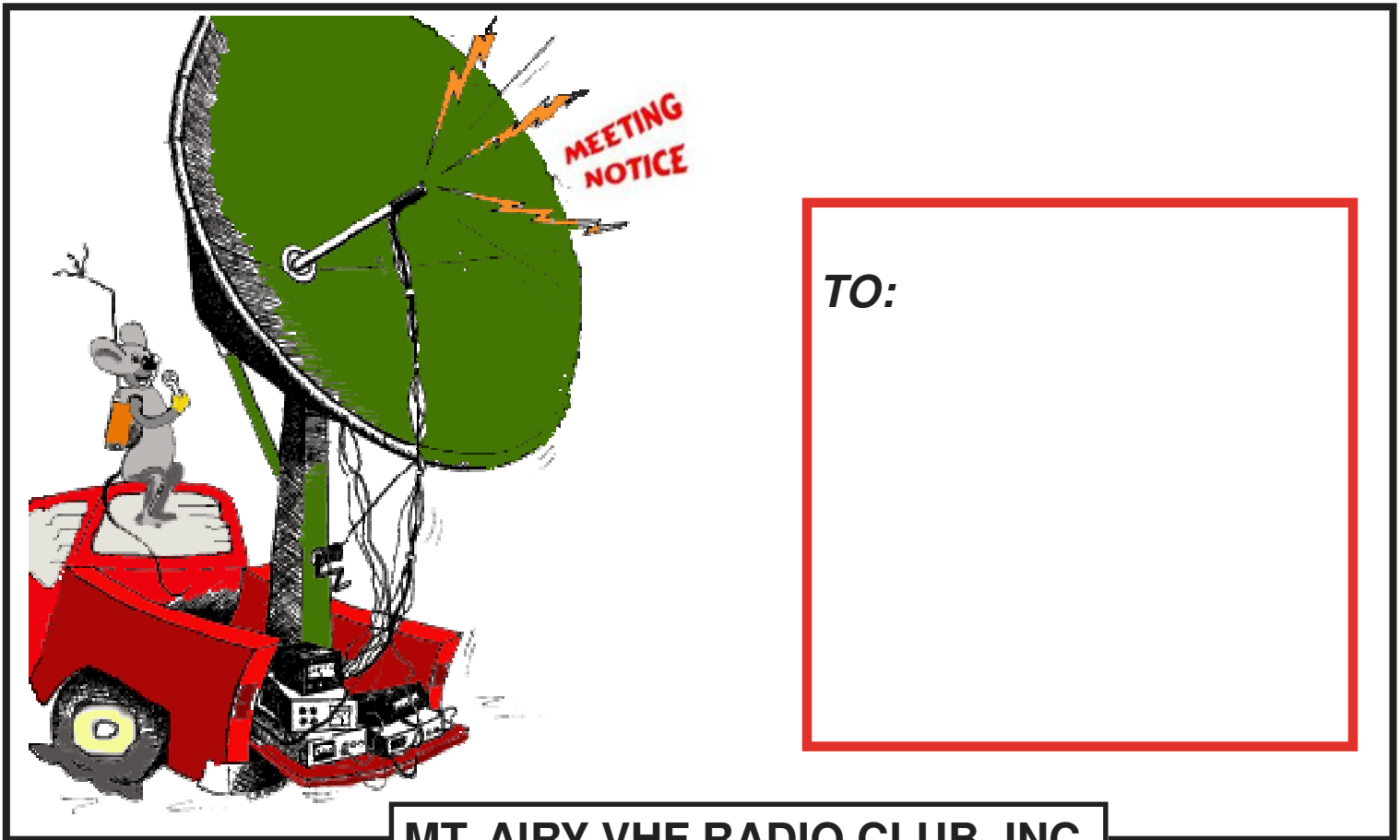
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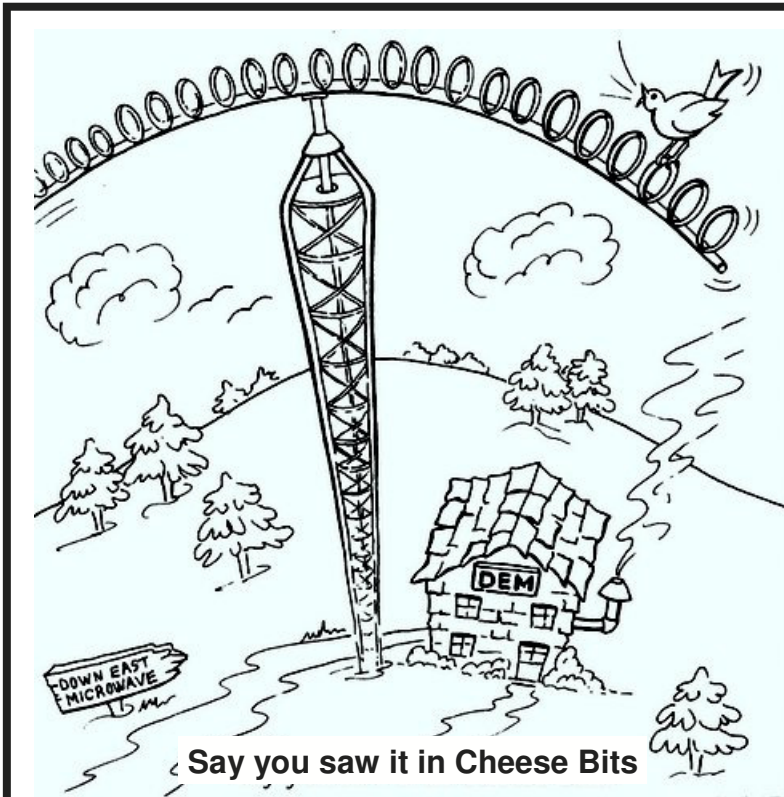
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