



KEY KLICK'S

'IT'S 9 O' CLOCK ON MONDAY, ARIZONA EMERGENCY NET OF MARICOPA COUNTY IS NOW IN SESSION.'

By Calvin W1CLG

I have listened to that saying many times, not on the ham bands, but on my IPOD. In the September 2016 issue of QST, There was an article about reviving your ARES training. After reading the article I wanted to know more, so I went to the website of the people who wrote the article WWW.AEN-MAR.ORG, and found some really good information. I encourage all of you to go to the website and check out what there is, I will be pointing out some highlights. The website is for the Arizona Emergency Net for Maricopa County (Phoenix and a large surrounding area). The website contains scripts and recordings of past nets.

***My favorite phrase in the preamble is:** "We are here to make mistakes and learn, old grumps and sorry attitudes are not welcome, this frequency is hereby a can do how to zone." The focus on learning, and that phrase particularly, is very welcoming to new hams like myself. It makes it clear that all hams are welcome. They also tailor their training so that both experienced and new hams learn something and find it interesting. The experienced hams, not just net control, teach everyone.

Some other interesting phrases of the preamble, but I will not go into detail about them:

"Someone has to be ready, this net is dedicated to addressing that challenge"

"This net is an activity, not a separate organization"

Here are a few of the topics that were covered in the nets I listened to:

Communicating with non-hams: this net was about how to present ham radio to emergency services and event personnel (relay for life, race for the cure, police, fire, EMS, etc.), they actually simulate a bike race scenario where "hams" introduce themselves to the "event staff" and tell them what they will be doing for them, and the "event staff" replies with their expectations.

Repeater Failure: The repeater is a point resource that can be knocked down, so they practice a large-area VHF simplex net. The biggest thing to practice is relays. We learned in a recent net controlled by Zack, K1ZK that many factors go into who you can hear, such as topography, antenna gain, and power. Frank, W1AD, could hear everyone, and would have been able to relay traffic to Zack if the repeater had failed. I was mobile in West Rutland, and I could not hear anyone else, I would have needed to move to higher ground in order to hear the net.

Alternate Home Power: talking about generators, solar panels and other ways to keep your ham station going when the lights are off (Q&A type)

Disaster relief: A discussion where experienced hams share their stories of disaster relief ham communication in real life and in exercises. One ham shared a story that I would like to share with you: There was a severe thunderstorm, and lightning hit the county dispatch center, killing one of the operators, and destroying their station. Police, Fire, and EMS were everywhere during and after the storm, but they could only communicate car to car. They got ham volunteers, told them to have a VHF radio with area ham repeaters and certain simplex channels programmed, a mag mount antenna and a 3-foot long power cable ending in a cigarette lighter plug. They had a ham in every emergency vehicle in the county, and all dispatching was done through amateur radio.

MacGyver: Each station is assigned a problem, and they have to find a theoretical work-around (backup equipment is accepted). In the net I was listening to, the assigned problems by call sign, and I would have to figure out a way to solve the problem of a fuse that keeps blowing, can anyone think of what to do to get around that quickly?? I couldn't think of a safe way to do it (obviously you could skip the fuse, but that is not wise), and I was really glad when someone came on the net with a few great ideas. Try to think of a solution, and I will tell you the answer at the end of this article.

ICS system: a study group for the FEMA ICS courses (Incident Command System)

Rules of ham radio: an open discussion to remind everyone of all the rules of Ham radio, especially as they pertain to disaster relief.

Kobyashi Naru: this is a full-scale exercise simulating a major disaster; everyone comes on and calls for help start up. After 30 minutes they break from the exercise evaluate how it went and how realistic it was.

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**MARK TRAIL CHAMPIONS
NOAA WEATHER RADIO-**
THE VOICE OF THE NATIONAL WEATHER SERVICE



PREZ-SEZ

August 2018



FOREST N1BBQ

Happy August everyone!

I don't have much for everyone this month, unfortunately July was a busy month for me with not a lot of time for radio activities.

For this months meeting I have not confirmed with Chris Knox K1IP about him coming down, but if he does I will be sure to let everyone know!

Speaking of the meeting, Frank mentioned to me that Denny's was working on some renovations so there may not be a pre-meeting dinner this month. I will confirm and let everyone know in my meeting reminder email. I hope to see everyone at the meeting!

73

Forest N1BBQ

Mark your Calendar; OctoberFeast October 9, 2018



SIGNIFICANT CHANGES IN STORE FOR FT8 AND MSK144 WITH WSJT-X VERSION 2.0

07/25/2018 WSJT-X co-developer Joe Taylor, K1JT, has announced that major changes are coming to the FT8 and MSK144 digital protocols when WSJT-X version 2.0 arrives in a few months. Taylor said version 2.0 should be ready for prime time by January.

“Much of the necessary programming is finished,” Taylor said in a post to the Packrats reflector. “Many of the new features have been tested on the air, and we find them to work well.” Taylor was quick to point out that the new capabilities are not yet publicly available, not even in beta form. He said that he, Steve Franke, K9AN, and Bill Somerville, G4WJS, have been developing “enhanced versions of the MSK144 and FT8 protocols that extend the message payload to 77 bits.” **Continued page # 4**



AUG/SEPT 2018 GMWS ARES NET CONTROL SCHEDULE:

The GMWS ARES Net is held Monday evenings starting at 7:30 PM on the 147.045 repeater (+/- 600 kHz, PL=100Hz). Please check the schedule to see if a given net is for training, or “rag chew.” Note you can also find the *complete* ARES Net Control Schedule on the GMWS web site at www.gmws.net, use the ARES link in the “Upcoming Events and Amateur News” section of the home page. It is possible that the schedule will change, so check the web site often for updates.

ATT NC Op's...PLEASE SEND A REPORT TO FOREST N1BBQ LISTING CALLS OF PARTICIPANTS OR NEWS. TECHIEFOREST@GMAIL.COM

06 AUG	ZACH K1ZK	TR
13 AUG	ANN MARY AB1CH	RC
20 AUG	CALVIN W1CLG	TR
27 AUG	BEN KC1HHE	RC

03 SEPT	FOREST N1BBQ	HOLIDAY
10 SEPT	SCOTT W1SBW	RC
17 SEPT	CALVIN W1CLG	TR
24 SEPT	Steve W1SFR	RC
01 OCT	ANN MARY AB1CH	TR

[Ed note: NC slots in bold denote a change in scheduling]

TEN YEARS AGO AT GREEN MOUNTAIN WIRELESS



In 2008 we were hearing the progression of reports from Dudley Woodbridge near Cody Wyoming about our GMWS past president, Deb NNIC-SK. Deb had provided a strong connection between GMWS and regional ARRL events. She had a practice of accompanying a person's name with their call sign in conversation.

-There was reference to work going on with the base for the tower that supported our rotating beam antenna 20 years ago. There was a narrow EOC in a too-small room just east of the entrance to the Red Cross Building on Strongs Ave. Today we continue to float and adapt.

-There were announcements in 2008 about the MS Bike Tour based in Castleton and the Vermont Sun Half Triathlon based at Branbury State Park on Lake Dunmore, both using ham operators. The first weekend in October was to be the big statewide Boy Scout Camporee at the Camp Plymouth State Park in October. This had been a Green Mountain Council Boy Scout Camp that became a state park.

- In many GMWS years the Fox Hunt or hidden transmitter locating game demonstrated that capability especially useful for new hams. They had a Fox Hunt at the small Hamfest at the Old Lantern in Charlotte. My clues had me turning left up a hill toward the source while others kept going straight. Small satisfaction.

WHAT THE HECK IS IT? - FUNKEYER PRICE: \$20.00 -

FUN on the Bus with the FUNKeYer!

What the heck is it? The FUNKeYer is a simple Morse code keyer with a bit of a twist. It does NOT require a soldering iron to build it. It also has a two FUN Morse code game modes and another two modes where it acts as a simple keyer. I have designed it with machined pin sockets for inserting the parts, pre-soldered the sockets AND cut and pre-bent all the parts for easy insertion without (hardly) any tools at all. Builders with nimble challenged fingers will find a small pair of needle nose pliers quite useful..and builders with *ocular noseemum the teenie tiny numbers and letters syndrome* would find a small lighted hand magnifier a welcome sight. A

small flat bladed jewelers screwdriver to nudge pins into holes can also come in handy...BUT you WILL NOT need a soldering iron!

The 4 modes of operation are:

Mode#1: The FUNKeYer 2 BUTTON KEYER THE main mode for FUN on the Bus

When you apply 9 volt battery power for the first time, the FUNKeYer starts up in Mode#1. It spins its wheels until you press the middle white button tactile switch which serves as the memory switch. Let it spin a bit as it is randomizing internally. Press the button and the FUNKeYer will beep once to tell you it is now in Mode#1. The side tone frequency will be set randomly between 500 and 2000Hz. It also picks a random 7 letter secret word from an internal table. Now you can send dits and dahs to

your hearts content on the red topped tactile switches and the FUNKeYer will complete each dit and dah perfectly as per the speed setting on the trimmer potentiometer. Take away the power and reapply and it will automatically power up in Mode#1 with the same side tone frequency and secret word. *FUN: With 55 FUNKeYers built and running on the bus, the audio of all the side tones and call signs and secret words will cram the cilia in your ear with signals like a pileup at a Dxpediton!* Pick a signal and follow it for a bit to sort the secret word and call sign out from the din. Move on to another station... who can dig out the most stations?

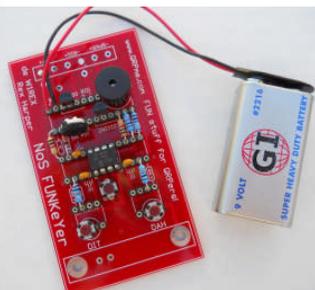
Mode#2: The FUNKeYer straight key keyer ... If you find it challenging to send Morse code using the coordination of two fingers then Mode#2 might be more to your liking. Power the unit down, then PRESS & HOLD all three push buttons while you reapply power will cause the FUNKeYer to change modes. Once power is up again, release all the buttons and the FUNKeYer will sound out with 2 quick beeps telling you it is now in Mode#2. This is the straight key mode. It still has a random side tone frequency and secret word but now the dah switch works as a straight key. **FUN-KEYER CONTINUED Pg# 6**

Pressing the memory switch causes the FUNKeYer to send the secret word.....then add you call sign to make a BBQSO. Use the 2 button paddle mode or the straight key mode. Give a sharp listen for the neighboring sounds and secret words and try to pick out the calls and words that go together from the audio pileup...

Mode#3: 2 button keyer is back to being a regular 2 button keyer with the side tone frequency = 700Hz and the memory button = CQ CQ CQ DE

Mode#4: straight key is again similar to Mode#3 but with straight key operation instead of 2

Continued Pg #7 Are you still with me?...





GREEN MOUNTAIN WIRELESS SOCIETY MINUTES

Regular meeting minutes 10-July-2018

Meeting called to order at 19:03 with 16 members present. Pledge of allegiance and introductions around the room. Motion to approve minutes as printed in Key Clicks. Moved and seconded, Approved. Secretary Report Caid W1CX: No report; Treasurer: Rick N1UF, We are solvent. Vice President Report: Rich WB2RUM: No report. President Report; Forest N1BBQ: See new business. Forest is Looking for feedback on/from the new net control operators. Net control is good practice for emergency communication. Good job everyone on coverage and switching keep up the good work! Calvin W1CLG has an old copy of QST with net control ideas in it.

- Repeater link coverage IRLP? All Star? Scott W1SBC got into the net on Monday from 10 miles north of Whitehall! Ann Mary AB1CH and Ben N1UUK are writing the net control schedule.
- Field Day! Feedback from the other stations was reported on the GOTA radio we will relocate the GOTA antenna farther south west next year and see if that helps. GOTA made a TON of points this year Calvin W1CLG's nephew made 20 contacts!!! Nice job!
- Repeater project: who wants to help? Forest N1BBQ will send out a doodle and pick three dates and see what works best and go from there. He also has an old VELCO rack enclosure maybe we will use it? We will discuss it at a later date. We are looking to have a "brainstorming" meeting at the repeater site one of these evenings stay tuned for details.
- Fall meeting ideas. DMR, repeater project presentation by Chris Knox KI1P maybe August/September. RACES for November/December meeting will contact Robin N1WWW and talk to Gerry WY2Y also.
- Net check-in-awards: We are thinking about running from October to September so the results can be calculated and the awards can be given out at OctoberFeast. Calvin's, W1CLG, nephew would like to receive QSL cards from anyone that works him on the eater. And Calvin found one of his grandfather's QSL cards, the original W1CLG, inside an old tool box in their barn! Very cool!!!
- Octoberfeast! Coming up!!!!

Meeting adjourned @ 18:54 Respectfully submitted by GMWS secretary Caid W1CX

Continued from page #2... FT8 and MSK144 - "Don't rush to download something," he cautioned. "There is more testing and code optimization to do." He said current plans call for a beta-testing period "probably starting in mid- to-late September," with a full release "possible a couple of months later." Taylor ticked off a few possibilities WSJT-X version 2.0 will bring to the table: ARRL Field Day operation with standard Field Day exchanges; ARRL RTTY Roundup operation with standard contest exchanges; North American VHF contest operation with full support of grid exchanges and Rover (/R) call signs; European VHF contest operation with the exchange of six-digit grids, QSO serial numbers, and portable (/P) call signs; Better and more user-friendly support for compound and nonstandard call signs; A special "telemetry" message format for exchanging arbitrary information up to 71 bits; Support for the existing "FT8 DXpedition Mode," with a more powerful DXpedition Mode possible too; "All of these features work seamlessly and automatically," Taylor said. "No 'contest mode' checkboxes are needed. In most situations, decoding sensitivity will be slightly better than at present for FT8; for MSK144 it will sometimes be about 0.5 dB worse. Occupied bandwidths will be the same as they are now, and false-decode rates will be significantly lower." Taylor said WSJT-X version 2.0 will be available in time for users to digest the new documentation and to practice it before actually getting on the air with it, but he offered one important caveat. "The new protocols cannot be backward compatible with the existing ones," he said in his post. "We will probably provide some temporary 'bilingual' capability for FT8, but not for MSK144. It will be essential for users to upgrade to version 2.0 in order to use the new features and communicate with others who have made the upgrade." Taylor promised "plenty of advance notice" about the transition period and a must-upgrade-by date. [Ed note: this article has been edited for space allowances. AB1CH]



NOAA WEATHER RADIO ALL HAZARDS

NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

-Working with the Federal Communication Commission's (FCC) Emergency Alert System, NWR is an "All Hazards" radio network, making it your single source for comprehensive weather and emergency information. In conjunction with Federal, State, and Local Emergency Managers and other public officials, NWR also broadcasts warning and post-event information for all types of hazards – including natural (such as earthquakes or avalanches), environmental (such as chemical releases or oil spills), and public safety (such as AMBER alerts or 911 Telephone outages).

-Known as the "Voice of NOAA's National Weather Service," NWR is provided as a public service by the National Oceanic and Atmospheric Administration (NOAA), part of the Department of Commerce. NWR includes 1025 transmitters, covering all 50 states, adjacent coastal waters, Puerto Rico, the U.S. Virgin Islands, and the U.S. Pacific Territories. NWR requires a special radio receiver or scanner capable of picking up the signal. Broadcasts are found in the VHF public service band at these seven frequencies (MHz) (see below). For those in Rutland County Vermont with a NOAA receiver with SAME decoder, the Rutland County Code is 050021

162.400	162.425	162.450	162.475	162.500	162.525	162.550
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Vermont Ham Radio Operators:

Vermont Division of Emergency
Management & Homeland Security



RADIO
AMATEUR
CIVIL
EMERGENCY
SERVICE



IS RACES FOR YOU?

In an emergency, Vermont RACES members are deployed to one of these fully-equipped RACES stations:

- 6 Vermont Hospitals;
- 11 Vermont Department of Health Offices;
- Vermont Agency of Transportation VTrans district offices;
- Vermont Army National Guard Joint Operations Center;
- National Weather Service – Burlington;
- VEM-RACES Mobile Communications Trailers

RACES operates HF/VHF/UHF and digital equipment, sending crucial messages to other stations.

RACES volunteers fall under the authority of the Vermont Division of Emergency Management and Homeland Security. Since this is an official body, candidates must first complete and submit an application.

TRAINING AND PRACTICE

RACES volunteers are expected to maintain their existing skills, learn new ones, and partner with other members. Official training activities consist of:

- Regional on-air nets (still getting going)
- Focused practice at nearby stations
- Annual Operations and Training Conference
- Bi-annual state-wide emergency simulations
- Detailed on-line Field Operations guides

WHY MAKE THE COMMITMENT?

Providing Emergency Communications to served agencies alone should be enough of a reason to join RACES, but also consider improving your communications skills by courses, training with some of the most skilled operators as well as regular practicing your communication skills. See what fellow hams have said about being RACES members by turning to page 5!

Continued from Page 1: They have a live feed going on at <https://www.broadcastify.com/listen/ctid/100/web>. The feed listens to the 147.2400 MHz repeater. (On that site you can also find a live feed of the W2WCR linked repeater system). In the event of a repeater failure, or a repeater failure drill, the live feed is listening to the frequency they use simplex, so you should be able to hear some of the net.

MacGyver 101 answer: The problem is that you have a fuse that keeps blowing, you replace it and it blows again.

Solutions:

1. Make sure it is the right fuse (I came up with that one). When I was assigned a radio for Civil Air Patrol, I hooked it up to test it, and it turned on, but when I switched to the weather channel, it died. I pulled out the fuse, and it was a 1-amp fuse! I had a fuse for my ham radio, so I put that in, and I could receive fine, but when I went to transmit, the fuse blew. I finally consulted the radio manual, and discovered that a 15-amp fuse is necessary. So make sure you have the right fuse
2. Turn down the RF power output of the radio. If you have a variable power supply, you can reduce the voltage from 13.8 to slightly more than 12.
Cool your devices (because the fan requires a certain amount of current)

WHAT DO RACES MEMBERS HAVE TO SAY ABOUT THEIR EXPERIENCES:



(Left) Ed Guild W1OKH Burlington. "I like to always be doing new things."

(Right) Stephen-West-Fisher, N4IK Concord. "My regular job is in the Northeast Regional Hospital, so it's pretty simple to keep up with the equipment in the station and work



(Above Right) Jane English KD6PCE Calais. "It's fun to "play with my radio toys" and to meet some interesting people whose everyday worlds are very different from mine."

(Right) Jeff Pugh N1MZE Jonesville.

"I like helping others. I have been a firefighter for 30 years, and public service is a family tradition.



(Left) John Clift W1LXI South Burlington. "I like doing that kind of stuff, using my specialized talents to

HAM RADIO INNOVATIONS

In my travels around the ham radio world I have seen some, IMHO!, neat adaptations and heard some wild stories; like the ham in AZ who told me, "in the desert he charged up an abandon section of telegraph line and tuned it to operate his radio." I questioned that one, but when you get to thinking about things our brother and sister hams pull off, I must wonder.

At LobsterCon this past month we had an antenna made from Woven Electric fence wire. The kind that would be used for horse fences. (Ed: Ann Mary, AB1CH)



WHAT YOU CAN DO WITH HAM RADIO

Becoming an Amateur Radio operator is just the beginning. Many hams who enjoy the hobby often ask, "How can I get more involved?" Explore how you can get involved with Amateur Radio and how ARRL can help.

<http://www.arrl.org/get-involved>

-You will find links to webpages showcasing events, lifelong learning opportunities, youth activities, hamfests and conventions, social media, clubs, nets and more. You do not have to have expensive radios or antennas to get involved and have fun with ham radio.



BE A HAM RADIO VOLUNTEER EXAMINER

Volunteer Examiners (VEs) are licensed radio amateurs holding a General Class license or higher, who offer their time to administer the FCC licensing tests.



The ARRL's VEC program has a long standing tradition of serving the Amateur Radio community and the FCC with integrity and expertise. As the largest VEC in the nation, we operate as a knowledgeable information source for a wide-range of licensing issues.

ARRL accredited Volunteer Examiners (VEs) support us around the country by offering exam opportunities in their local communities and helping exam candidates fulfill their Amateur Radio aspirations.

Service and volunteerism are vital parts of our Amateur Radio culture. VEs give so generously of their time, energy and skill to our community. The ARRL hopes that you will embark on this rewarding journey and become an ARRL Volunteer Examiner!

Volunteer Examiners (VEs) are US licensed Radio Amateurs holding a General Class license or higher, who offer their time to administer the FCC licensing exams through a FCC authorized Volunteer Examiner Coordinator (VEC) organization. The ARRL VEC is the largest VEC organization in the US. A team of three or more ARRL VEs are able to test candidates applying for a new license or upgrading an existing license. <http://www.arrl.org/volunteer-examiners>

(From Page 3) button keyer operation. FUNKeYer Build on YouTube—search You Tube

Documentation: FUNKeYer Build Guide ... <http://www.qrpme.com/docs/FUNKeYer%20Build%20Guide.pdf>

FUNKeYer Schematic <http://www.qrpme.com/docs/FUNKeYer%20Schematic.pdf>

Editor's thoughts: I think this kind of building things is fun albeit maybe a bit simple or too plain for some, I would like to start a fun get together time and have build-a-thons. This one is simple and doesn't require soldering. It is a useful tool to learn collaboration and Morse code. We will be stronger for the sharing of knowledge. So who is interested? If there is interest I will make arrangements with our Prez, Forest N1BBQ to make further plans. If I do not hear from anyone I will assume there is no interest. Please email me at AnnMaryR802@gmail.com [Ed Note: This is a new email so please check your contact lists TY]

NEW ENGLAND DIVISION CONVENTION



09/08 - 10/2017 ARRL HAMFEST/CONVENTION Boxboro Regency Hotel & Conference Center,. General Admission grants access to the Flea Market, Forums & Classes, Vendors, and the Theatrical Screening! It also grants you an opportunity to win one of our fabulous Door Prizes. It's just \$15, good for all three days, and special free admission for full-time students with student ID. General Admission tickets will also be available in advance or at the convention. Admission is reduced to \$10 on Sunday at 11 AM (no advanced purchase available), allowing you some extra shots at the final door prizes! Location 242 Adams Place, Boxborough, MA. Website: <http://boxboro.org>, Sponsored by FEMARA, with Talk-In: 147.27+; Contact: Mike, K1TWF Phone: 978-250-1235 Email: k1twf@arrl.net <http://boxboro.org/tickets>
[Ed note: Even , if you do not plan to attend the web site is worth a go-see. AB1CH]

UPCOMING 2018 CONTESTS

<p>August 2-3 <u>August UHF</u> 16-17 <u>10 GHz & Up – Round 1</u> 17 <u>Rookie Roundup – RTTY</u></p>	<p>September 13-15 <u>September VHF</u> 20-21 <u>10 GHz & Up– Round 2</u></p>
<p>October 2018 15-19 <u>School Club Roundup</u> 27-28 <u>EME - 50 to 1296 MHz</u></p>	<p>November 2018 3-5 <u>Nov. Sweepstakes – CW</u> 17-19 <u>Nov. Sweepstakes – Phone</u> 24-25 <u>EME - 50 to 1296 MHz</u> 11/30-12/2 <u>160 Meter</u></p>
<p>December 2018 11/30-12/2 <u>160 Meter</u> 8-9 <u>10 Meter</u> 16 <u>Rookie Roundup–CW</u></p>	



The Maritime Mobile Service Network
 "Serving Maritime Mobiles and Deployed Military Since 1968!"
 12:00 p.m. - 10:00 p.m. ET on 14,300.00 MHz
 Where Emergency Communications is a Commitment!



MARK YOUR CALENDAR ~NETS:

- FIND NETS ON ANY TOPIC OF YOUR INTEREST; [HTTP://WWW.ARRL.ORG/ARRL-NET-DIRECTORY-SEARCH](http://WWW.ARRL.ORG/ARRL-NET-DIRECTORY-SEARCH)
- A LIST OF NORTHEAST HF NETS AND THEIR TIMES CAN BE FOUND AT:
[HTTP://RJMERE.COM/NETS.HTML](http://RJMERE.COM/NETS.HTML)
- **THE ROOSTER NET** 3.990 MHZ - 6:00AM EVERYDAY
- EVERY MONDAY:**
 ZONE #3 VT RACES NET, 444.550 (+PL 110.9) 6:30 PM
 GMWS/ARES NET, 147.045, 7:30 PM
 GMWS/W1AD 10M NET 28.333 8PM (BANDS PERMITTING)
 DMR NEW ENGLAND NET (NE TALK GROUP 3181) NEDECN.ORG
- EVERY DAY:**
 VERMONT PHONE TRAFFIC NET, 3857 MHZ, 7:30 PM
 VT/NH TRAFFIC NET, 3539, 7:00 PM
 NEW ENGLAND PHONE NET, 3955 6:30 AM
- EVERY SUNDAY:**
 VERMONT PHONE EMERGENCY NET, 3976, 8:00 AM
 ACARA ROUNDTABLE 147.36 (100 Hz) 8:00 PM
 (ALL TIMES ARE LOCAL)
- UPCOMING VE SESSIONS:**
 BURLINGTON AREA VE - RALPH KD1R CALL 802-878-6454
 GMWS CONTACT TIM WA1VT

MANY THANKS TO OUR CONTRIBUTORS!!

JEFF, N1YTY; FRANK, W1AD; CALVIN, W1CLG; J. NOYES KB1NBO (ED. CVARC INC. QFQ NEWSLETTER) FOREST N1BBQ; CAID W1CX



PO BOX 84
 Rutland VT 05702

OCTOBER FEAST
OCTOBER 9, 2018
MARK YOUR CALENDAR

