

#### WRARC PREZ SEZ

I would like to thank everyone for their support and involvement with Western Reserve Amateur Radio Club during 2018. I look forward to the coming year and encourage everyone to get involved with the club beyond attending meetings. There will be openings for officers on the board later this year and I hope we will have new members run and elected.

I would also like to thank Jane for the terrific job she does with our newsletter. It's one of the best in Ohio. She is a long way off in Missouri but maintains her connection with WRARC by producing the fine newsletter which we received from her every month. Thank you Jane for the outstanding job you do and your dedication to Amateur Radio.



73 Brian, AB8BL



#### IN THIS ISSUE

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201	u	Officers:
201		Officers.

President: Brian Lewis, AB8BL ab8bl@wrarc.net

VP: Maureen Stein, KD8NXS kd8nxs@wrarc.net

Secretary: Stan Adamski, KB3WPD kb3wpd@wrarc

Treasurer: Rose Marko.KD8TII kd8tii@wrarc.net

Past President: Bob Mitzel, N8RCM n8rcm@wrarc.net

Trustees:

Roy Haren, KD8IJF kd8ijf@wrarc.net Steve Fabry, KC8SOY kc8soy@wrarc.net n8dmc@wrarc.net Darrin Cannon, N8DMC

## **Appointed Positions:**

Social: Maureen Stein, KD8NXS

kd8nxs@wrarc.net

Publicity: Joe Wojtowicz, W0JO

w0jo@wrarc.net

Nets: Steve Fabry, KC8SOY

kc8soy@wrarc.net

Classes/Testing: Chris Monske WF8U

kd8ely@gmail.com

Newsletter/Web: Jane Avnet K8JAA

k8jaa@wrarc.net

Historian: Rose Marko, KD8TII

kd8tii@wrarc.net

Badges: Darrin Cannon, N8DMC

n8dmc@wrarc.net

# Officer's Meeting:

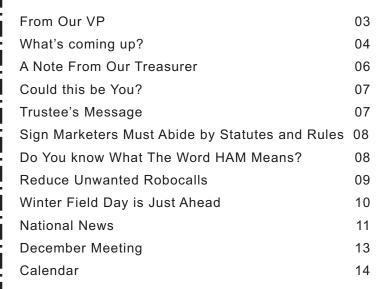
January 08, 2019, 7:00 P.M. Austintown, Eat 'n Park, 5451 Mahoning Ave All members welcome

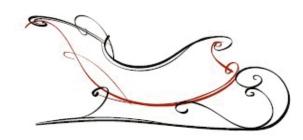
#### Members **Meeting**:

After the Holidays Dinner Meeting Sunday, January 13, 3:00 P.M.



http://www.wrarc.net/





## OTHER IMPORTANT WEB SITES

THE ARRL EXAM SEARCH PAGE

<http://www.arrl.org/find-an-amateur-radio-license-</p> FXAM-SESSION>

OHIO SINGLE SIDEBAND NET

<HTTP://WWW.OSSBN.ORG/INDEX.HTML>

ANTENNA HEIGHT ABOVE AVERAGE TERRAIN (HAAT) CALCULATOR

HTTPS://WWW.FCC.GOV/MEDIA/RADIO/HAAT-CALCULATOR

# FROM OUR VP



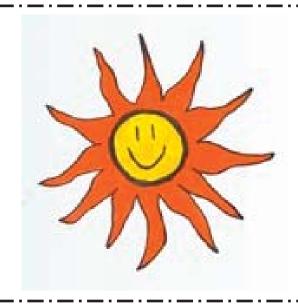
day, the nineteenth, Enjoy!

Happy New Year to all. I hope everyone had a good Christmas. It is hard to imagine that 2019 is upon us. Best wishes for a good and prosperous year for everyone. I would like to remind you that our Annual After the Holidays Dinner/Meeting is coming up on Sunday, January 13, 2019 at 3:00 P.M. in our usual meeting room at Davidson's. I will be giving them the number of attendees on or about January 7, so there is still time to be added to the list if you have not already done so. This party is for families, friends, and any guests you would like to bring. We will all be ordering individually from the menu and paying our own bills that day. No need to pay ahead. It is a fun time and is primarily a social event, although Darrin N8DMC will be officially reinstalled into the 3-year trustee position that he was reelected for. As always, this event will replace the Jan. general Tues. night meeting. We will resume our regular monthly meetings in February on the third Tues-

We have many good things to look forward to this year and it will be our ninth year. If you have not yet renewed your dues for 2019, please contact Rose, KD8TII, to do so as soon as possible. We hope everyone is coming back. You are all important! If you have not yet joined in on club activities and events, maybe this will be your year to do so. We will once again be doing the Youngstown Marathon, the Panerathon, and the Peace Race as well as our spring and fall road clean ups and the Boardman Park Family Fun Day. There are twice monthly breakfasts and our monthly evening general meetings. Maybe you would like to run for an office or board position in Nov. or give a presentation on something you are doing. You could submit a newsletter article or take a turn at a Friday night net control, or share something on the Elmer's net. So many good things to choose from! I can't think of a better New Years resolution. Just jump right in. It's the best way. Hope to see you all in 2019.

73, Maureen, KD8NXS VP/WRARC



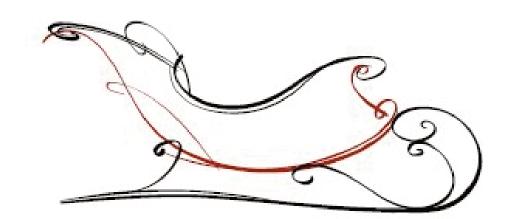


Monthly
Ham Community
Breakfast
Second and Fourth
Tuesdays
9:00 A.M.
at Boardman
Eat'n Park
Join Us!

# WHAT'S COMING UP?

YL Breakfast - Thanos Family Restaurant 9:00A.M.				
Board Meeting - Austintown Eat 'n Park				
Members welcome				
Ham Community Breakfast - Boardman Eat 'n Park				
After the Holidays Annual Dinner - Davidson's 3:00P.M.				
Ham Community Breakfast - Boardman Eat 'n Park				
Winter Field Day				
Board Meeting - Austintown Eat 'n Park				
Members welcome				
Ham Community Breakfast - Boardman Eat 'n Park				
Members meeting 7:00 P.M.				
Ham Community Breakfast - Boardman Eat 'n Park				





# CONTACT WRARC ELMERS WITH YOUR QUESTIONS - QUESTIONS@WRARC.NET

Beatty, Dave KC8WY Fabry, Steve KC8SOY Haren, Roy KD8IJF Williams, Russ NR8W Wojtowicz, Joe W0JO anything Yaesu FT8900, FT8800, Mobile

???

Electrician, tele-data, Amateur Extra

ICOM radios, D-Star

kc8wy@zoominternet.net kc8soy@yahoo.com harens@juno.com rwiliams@neo.rr.com w0jo@arrl.net

He who is afraid of asking, is afraid of learning

Used with permission

Articles from members for the Wave Bender are encouraged. They must be received by the editor by the 20th each month. Please send your articles to: <a href="mailto:k8jaa@arrl.net">k8jaa@arrl.net</a>, and put WRARC on the subject line of your email. You may also send your articles to the editor: Jane Avnet, 1440 Skyhawk Pl., Wright City, MO 63390

# Join us for the WRARC Friday night Net 9:00 P.M. KD8DWV - 145.270, PL -110.9 Upcoming Net Control Operators

Jan. 04 Ray, K8NVY Jan. 11 Joe, W0JO Jan. 18 Rose, KD8TII Jan. 25 Dennis, KA8DJM

Feb. 01 Bob, KE8HHH Feb. 08 Aiden, W0TIS

Feb. 15 This could be you, Volunteer Feb. 22 This could be you, Volunteer

If your name has never been on this list Contact Steve, KC8SOY to take a turn at Net Control 330-774-6346

WRARC Simplex Frequency 146.565

Mahoning County ARES® Nets
1st Monday 8.40 PM ET W8QLY Repeater - 146.745 (PL 110.9)
&

3rd Monday 8.40 PM ET W8QLY Repeater - 146.745 (PL 110.9)
ARES thanks MVARA for the use of their repeater

W8SGT is facilitating The Ohio HF net every Tuesday - 7:00 PM
The net is run from the State of Ohio EOC on the
Ohio ARES Admin frequency 3875 kHz LSB
moves to 7240 Khz after 20-min.
All are welcome to check in.

The Ohio ARES/OES Digital Emergency Net held every Tuesday at 8:00PM. held on 3585 kHz USB.

Please note all digital communications are Upper Side Band. http://www.http://ohden.org/ for net details. Net Manager Gary NJ8BB



Thanks & 73 to all of our members (and others) look forward (hopefully) to getting this newsletter every month, so keep sending those articles, jokes, and suggestions! sending those articles, jokes, and suggestions! Thanks goes out to this month's contributors; KD8TII, N8SY, W5YI, the ARRL, FaceBook, and the World-Wide Web.



#### A NOTE FROM OUR TREASURER

It's time now to say good bye to 2018 and hello to 2019. The board members, are hoping this year will be a more productive and profitable year. Our secretary, Stan KB3WPD, has come up with ways to augment the Club treasury. Stan or our president, Brian, will be discussing them at future meetings.

I am hoping we can come up with new ways to keep our present members interested in staying with WRARC and hopefully bring new faces into WRARC. Many of the same members have been volunteering their services for all the events these past few years but are now at a time when they will no longer be healthy enough to continue volunteering, especially for the road cleanups. Therefore, we are asking all members to step up and be a part of the events we will continue to do this year. We have already been asked by the three major event coordinators to come back this year to volunteer our services for the Youngstown Marathon in June, The Panerathon Race in August, and The Peace



Race in October. They let us know that we did an excellent job in assisting them and are looking forward to working with us again. Aside from these events, there is also the Boardman Family Fun Day in September and the Boardman Haunted Hayride in October. You will always have a great time and maybe learn some things from them.



RENEW

**MEMBERSHIP** 

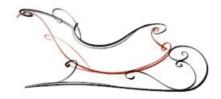


Our YL breakfasts are continuing through April 2019. December's breakfast was held at TJ's Restaurant located inside the Holiday Inn. The ladies who attended were: Rose Marko KD8TII, Shirley Boles KD8SSB, Maureen Stein, KD8NXS, Liz Beatty, KD8DWV, Nancy Brett, KD8QNY, Donna Haren, and Janet Egan. This month's breakfast will be back at Thanos Restaurant on Saturday, January 5, 2019 at 9:00 A.M. I look forward to seeing all of you again.

I am still collecting dues from any of our members who would like to renew. If you are interested in attending the meeting in January, which will be conducted at the After the Holiday Dinner Meeting on the second Sunday this month, January 13 at 3:00 P.M. I will be accepting cash or checks then. Please put them in an envelope with your name or names and the amount of the check or cash to make it easier for me to handle. If you are planning on attending, please let Maureen know via email or telephone call. If you are planning on mailing it in, you can contact me at 1(216)406-5769 and I will give you the address where you can send it.

I hope everyone had a safe Merry Christmas and Happy New Year and hope to see you at the party.

73 Rose, KD8TII WRARC/Treasurer



#### TRUSTEE'S MESSAGE

I hope everyone enjoyed our decent December weather and had a Merry Christmas! Speaking of that weather . . . a couple of our members assisted another Ham, Ray, K8NVY, with yet another antenna set up. First and foremost, I want to thank Mike, KC8UNR, for his donation of a G5RV HF antenna, coax, and his time taking Ray to the hardware store to pick up some hardware for the December second antenna project that Roy, KD8JMO, Steve, KC8SOY, and I took a beautiful day to install his donated antenna. The next few days we learned that Ray had fun using his G5RV making several contacts! At the December meeting those individuals were recognized with a certificate of appreciation signed by the President and Vice President of WRARC! WELL DONE!



I want to also thank those who supported me these past three years as your trustee, as I accepted yet another three-year term. I'll be sure to continue to do my very best to keep WRARC moving forward.

If you have any concerns or would like to recommend how we can do better for our club, do not hesitate to contact myself or any other members of the Board. I hope you didn't forget our New Years net that was hosted by Aiden W0TIS . . . It was a fun general rag chew net.

Did you know WRARC has the following donated equipment for members only to check out:

- Alinco Handheld DJ-195T
- Baofeng Handheld UV-5R Plus
- Kenwood 2m Transceiver TM-281A
- MAX-RAD Mag Mount Antenna OPEX AM-1043
- MFJ Switching Power Supply MFJ-4225MV
- Quancheng Handheld TG-UV2
- Wouxun Handheld KG-UVD1P
- Yaesu VHF FM Transceiver FT 2600 M
- Antenna analyzer

Now that I got all that out of the way, the only thing I can think of saying now is . . . HAPPY NEW YEAR !!! I hope all will have a great and exciting 2019!



73 for now . . .
Darrin Cannon, N8DMC
WRARC / Trustee

#### COULD THIS BE YOU?



Could this be YOU? This is the Wave Bender YOUR Newsletter. We have plenty of room for YOUR article(s)! If something is of interest to you, odds are that we all will enjoy your thoughts and activities! Have a favorite radio? Have some reminiscing to do? Maybe you have a question for one of our Elmers. OR, a Tip or Trick you learned that would help one of YOUR WRARC friends. You are warmly invited to contribute! Don't worry about writing or formality - we can help you with that. Your article could go in this spot next month!!

#### DO YOU KNOW WHAT THE WORD HAM MEANS?

The word HAM is often used by many as a shortcut for amateur radio "HAM RADIO". As radio operators we call ourselves "HAM" or "HAMS". The actual meaning of HAM is taken from the three pioneers that helped to make it possible for us all to become "HAMS".

- The letter H stands for Hertz (Heinrich Hertz) who helped to develop the theory of electromagnetic waves.
- The letter A stands for Armstrong (Edwin Howard Armstrong) who was successful in inventing FM (Frequency Modulation).
- The letter M as you may have guessed already stands for Marconi (Gugliemo Marconi) who was the first to transmit signals across the Atlantic.

H = HERTZ A = Armstrong M = Marconi



### SIGN MARKETERS MUST ABIDE BY STATUTES AND RULES

FCC Tells LED Sign Marketers to Abide by Statutes and Rules

The FCC Enforcement Bureau has called on marketers of light-emitting diode (LED) signs to ensure that these lights comply with FCC rules. Since March of this year, the agency has entered into 21 settlement agreements with companies that marketed non-compliant LED signs in violation of the Communications Act and FCC rules. The settlements yielded approximately \$850,000 in penalties, and commitments to ensure compliance with the law going forward. Adherence to the FCC's equipment authorization



and marketing rules is critical because radio frequency emissions from the signs may cause harmful interference to licensed communications, such as wireless services, the FCC said.

"In light of these recent settlements, we remind LED sign marketers of their obligations under the law," said Enforcement Bureau Chief Rosemary Harold. "The FCC takes seriously its responsibility in ensuring that energy-emitting devices like LED lights do not interfere with authorized transmissions."

LED lights are often used in digital billboards and other commercial and industrial applications, including bill-boards and large video displays in sports arenas. Given the electrical design of these lights, they may emit RF energy. Prior to being marketed in the US, LED sign models must be tested and comply with FCC technical standards and must include the proper labeling, identification, and user information disclosures. The FCC Office of Engineering and Technology (OET) oversees the equipment authorization process for RF devices, including LED signs.

The Enforcement Bureau investigated hundreds of indoor and outdoor LED sign models and discovered repeated FCC rule violations concerning the failure to market the models with the required equipment authorizations, labeling, and user information disclosures. To settle its respective investigation, each company verified that the models at issue were brought into compliance with FCC rules, agreed to pay a monetary penalty, and committed to abide by a compliance plan to improve internal procedures to avoid future violations.

The Bureau has settled 21 investigations to date, with penalties as high as \$115,000. Each settlement is available on the FCC Enforcement Bureau home page.

#### REDUCE UNWANTED ROBOCALLS

For Immediate Release

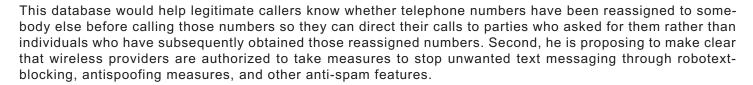
FCC CHAIRMAN PROPOSES MEASURES TO REDUCE UNWANTED ROBOCALLS AND SUPPORT BLOCKING OF SPAM ROBOTEXTS

FCC Will Consider Proposed Actions at the December Open Commission Meeting --

WASHINGTON, November 20, 2018—Federal Communications Commission Chairman

Ajit Pai today proposed measures to reduce unwanted robocalls and prevent spam text messaging.

First, he is calling on his fellow Commissioners to approve a reassigned number database.



"Combatting robocalls is our top consumer protection priority, and these proposals are a significant step forward in that effort. Today, I am calling on the FCC to take additional measures to combat these calls and also to prevent a flood of spam robotexts from clogging Americans' phones," said Chairman Pai. "Americans rely on and trust text messaging. That's why we need to act to prevent a deluge of spam texts and scam messages. I'm also proposing new rules to help reduce robocalls to reassigned numbers by creating a database that will help legitimate businesses stop calling those numbers. I hope my colleagues will join me in supporting these proposals and continuing our fight against unwanted robocalls and robotexts."

The FCC will consider these items at its next Open Commission Meeting on December 12, 2018. The draft Declaratory Ruling on text messaging would formally rule that text-messaging services are information services, not telecommunications services, thus allowing carriers to continue using robotext-blocking and anti-spoofing measures to protect consumers from unwanted text messages. This Declaratory Ruling would rule on a 2015 petition from masstexting provider Twilio and a 2007 petition from Public Knowledge. The reassigned numbers proposal would establish new rules in order to launch a database of reassigned numbers. This would help prevent accidental robocalls to numbers that are no longer assigned to consumers who signed up to receive those calls.

Robotexts appear to be a growing concern for American consumers, and the FCC is working to address them. State officials also have voiced concerns about scams and spam texts, with a bipartisan group of 20 state attorneys general asking the FCC not to disturb wireless carriers' ability to combat unwanted spam messages.

Text messaging is a heavily-relied upon communications service. For instance, 58 percent of teens with smart-phones say that messaging is their primary way of keeping in touch with close friends. To ensure such texting services remain reliable and relatively spam-free, wireless messaging providers currently apply filtering to prevent large volumes of unwanted messaging traffic or to identify potentially harmful texts. As a result, the spam rate for SMS texts is estimated at 2.8 percent whereas the spam rate for email is estimated at over 50 percent. This Declaratory Ruling would maintain and strengthen the legal foundation for this consumer-friendly filtering and would empower blocking of likely spam. The reliability of text messaging can even have life-saving impacts: NENA: The 9-1-1 Association has expressed concerns about the possible impact of spam texting on consumer reliance on carrier-supported text messaging, which is used in text-to-9-1-1 services.

Calls to reassigned numbers can be a significant problem for those receiving the unwanted calls, those missing the calls they asked for, and for legitimate businesses making calls for which they have prior consent. Millions of phone numbers are reassigned each year and oftentimes consumers do not tell their contacts of the change. To prevent mistaken calls, the draft order would establish a single, comprehensive database of reassigned numbers based on information provided by phone companies that obtain North American Numbering Plan U.S. geographic numbers. After careful, deliberate consideration of the problem, it would also

#### ROBO CALLS - CONTINUED FROM PAGE 9

con-

clude this database would be the most efficient and cost-effective solution.

Robocalls and robotexts are limited by the Telephone Consumer Protection Act. The FCC has repeatedly established that text messages are considered a type of call under the law and thus must abide by all restrictions on robocalls to mobile phones. For information on the restrictions on robocalls and robotexts, visit www.fcc.gov/robocalls. In addition, manipulation of caller ID information – or spoofing – is limited by the Truth in Caller ID Act: https://www.fcc.gov/spoofing

# WINTER FIELD DAY IS JUST AHEAD

Field Day is not just for summertime anymore. Winter Field Day, sponsored by the Winter Field Day Association (WFDA), will take place over the January 28-29 weekend, and it can be a terrific time to prep for ARRL Field Day in June. The annual event's stated purpose is to encourage emergency operating preparedness in the winter, but it's also an excuse to get out of the house and enjoy the great outdoors. According to the WFDA, getting ready for emergency communication in a winter environment is just as important as the preparations and practice that take place each June during ARRL Field Day, and — let's face it — it's not cold and snowy everywhere during the winter months. Your local climate could be quite the opposite.

"Don't let those winter doldrums keep you locked up in the house," the WFDA says. "Get out and play some radio!" The WFDA said it believes that maintaining operating skills should not be limited to fair-weather scenarios.

The event, which got its start in 2007, is not restricted to North America. All Amateur Radio operators around the world are invited to participate, and there are three entry categories — indoor, outdoor, and home. The rules are similar to those for ARRL Field Day. Operation will take place on all HF bands except 12, 17, 30, and 60 meters, as well as on VHF, UHF, and satellite. The event runs 24 hours. US and Canadian stations exchange call sign, operating category, and ARRL or RAC section.

The WFDA encourages both group and solo operation, and if you're not up for an outdoor winter adventure involving Amateur Radio, you can operate from the comfort of your shack. As the WFDA says on its Facebook page, "The object is winter fun!"





Dave De Simio, WA8GCF Mike Austin, KC8WUX Joe Woitowicz, W0JO Russ Williams, NR8W Aiden Divelbiss. W0TIS KA8DJM Dennis Marko, KD8PBW Ted Balog. Dave Beatty. KC8WY Liz Beatty, KD8DWV



#### NATIONAL NEWS

(from arrl and other sources)

### AMSAT's Fox-1Cliff Amateur Radio CubeSat Launched Successfully

[UPDATED: 2018-12-04 @ 1320 UTC] SpaceX has announced that the SSO-A: Small-Sat Express mission carrying AMSAT's Fox-1Cliff CubeSat has been deployed into orbit. A SpaceX Falcon 9 vehicle carried Fox-1Cliff and several other satellites into space on December 3 at approximately 1334 UTC from Vandenberg Air Force Base in California, following a 1-day launch delay. (See the launch on YouTube.) According to AMSAT, at approximately 0030 UTC on December 4, several stations in Brazil — including PS8MT, PT9BM, and PT2AP — reported hearing the voice beacon "Fox-1Cliff Safe Mode," confirming that the satellite was alive.

"Just before 0040 UTC, AMSAT Fox-1 Team Member Burns Fisher, WB1FJ, was the first to submit and upload telemetry to the AMSAT servers," AMSAT reported on its website. "Initial telemetry values show the satellite to be in good health. Thanks to the 29 stations that contributed telemetry during Fox-1Cliff's initial orbits."

The Fox-1Cliff downlink for FM voice and data-under-voice (DUV) is 145.920 MHz. Uplinks are 435.300 and 1267.300 MHz.



In addition to Fox-1Cliff, the SSO-A mission carried several other Amateur Radio satellites, including FUNcube on ESEO, JY1-SAT, K2SAT, and ExseedSat. The reusable Falcon 9 vehicle launched 64 payloads in all.

Fox-1Cliff carries the Fox-1 U/v FM repeater, AMSAT's L-Band Downshifter, the flight spare of the AO-85 Vanderbilt University Low Energy Proton (LEP) radiation experiment, and the standard Fox-1 Penn State University-Erie MEMS gyroscope experiment. Virginia Tech provided a video graphics array camera that's similar to the one on AO-92 but which will provide images at a higher 640 × 480 resolution.

Fox-1Cliff is named in honor of long-time AMSAT member, contributor, and benefactor Cliff Buttschardt, K7RR (SK), who died in 2006. His contributions to AMSAT and other Amateur Satellite programs — including his service as an adviser during the initial development of the CubeSat specification at California Polytechnic State University — earned him the Lifetime Achievement Award from Project OSCAR in 2006.

AMSAT is asking Amateur Radio satellite enthusiasts to listen for Fox-1Cliff's telemetry for the initial 72 – 96 hours as on-orbit checkout gets under way.

"If you are capturing telemetry with FoxTelem, please be sure that "Upload to Server" is checked in your settings and your Ground Station Params are filled in as well," AMSAT said in advance of the launch. In the initial Safe Mode or Beacon Mode after startup, the transmitter is limited to 10 seconds on time followed by a 2-minute off cycle. "You will hear Veronica announcing 'Fox-1Cliff Safe Mode,' while in Beacon Mode," AMSAT said, noting that the on-orbit check-out procedure will be similar to Fox-1D and could be completed in as few as 7 days.

"It is very important, not to mention just plain good Amateur operating practice, to refrain from using the transponder uplink, so we can do the on orbit tests, including when we turn on transponder mode for testing," AMSAT said. "AMSAT will make it broadly known when the tests are complete and the transponder is available for all to use." — Thanks to SpaceX and AMSAT Vice President-Engineering Jerry Buxton, NOJY



## 02/16/2019 MVARA 100TH ANNIVERSARY

Feb 16-Feb 18, 2300Z-2300Z, W8QLY, Youngstown, OH. Mahoning Valley Amateur Radio Association. 14.220 7.220 3.922.

Certificate & QSL. MVARA, 125 W McKinley Way, P.O. Box 14141, Youngstown, OH 44512. https://goo.gl/forms/2uNZfO6zRx1YPoWw2 to request your certificate/qsl. www.qrz.com/db/w8qly or www.mvara.org

Yes officer, I did see the 'speed limit' sign, I just didn't see you.

Junk - It's something you keep for years, and then throw away three weeks before you need it!



WINDOWS: Please enter your new password

USER: cabbage

WINDOWS: Sorry, the password must be more than 8 characters.

USER: boiled cabbage

WINDOWS: Sorry, the password must contain 1 numerical character.

USER: 1 boiled cabbage

WINDOWS: Sorry, the password cannot have blank spaces.

USER: 50bloodyboiledcabbage

MINDOWS: Sorry, the password must contain at least one upper case character

USER: 50BLOODYboiledcabbages

WINDOWS: Sorry, the password cannot use more than one upper case character consecutively.

USER: 50BloodyBoiledCabbagesShovedUpYourAssIfYouDon'tGiveMeAccessNow!

| WINDOWS: Sorry, the password cannot contain punctuation.

USER: ReallyPissedOff50BloodyBoiledCabbagesShovedUpYourAssIfYouDontGiveMeAccessNow

WINDOWS: Sorry, that password is already in use

DECEMBER MEETING



PAGE 13

# January 2019 PREPAREDNESS LEADS TO READINESS - MATT W8DEC



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
-			2	3 Fruitcake Toss Day	WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	5 YL Breakfast
Letter Writing Week	7 ARES Net 8:30 PM Orthodox Christmas Day	8 Ham Breakfast Eat'n Park Boardman 8:30 A.M. Board Meeting Eat'n Park Austintown 7:00 P.M.	9	10 Bittersweet Chocolate Day	WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	12
Annual After the Holidays Meeting 3:00 P.M	14	15	National Nothing Day	17	18 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	National Popcorn Day
WaveBender Input Due	21 ARES Net 8:30 PM 146.745 PL 110.9	Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	23	24	25 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	26
27	28	National Cornchip Day	30	31	WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	