



The Wave Bender

March 2020



AWARD WINNING NEWSLETTER

WRARC PREZ



Hello everyone! With month two of 2020 in the books, we are well on our way to some fun in the upcoming warmer weather. I would like to get everyone thinking about some spring time station maintenance for a trouble free operating experience.

Whether a mobile or home base station there are some key components that need to be inspected. We'll start with, in my opinion, the most important part of any installation being the antenna. Without an antenna, that high priced all the bells and whistles, radio is pretty useless. Remember to check all antenna and feedline connections for an ingress of water. Good indications of this will be discoloration and/or corrosion. This is really important for mobile antennas being exposed to road salt here in NEOH and NWPA. Not to worry however, if caught soon enough this problem can be reversed. I have found that a simple cleaning with a stiff bristle brush and an electrical safe cleaning solution can remove the corrosion, and an application of dielectric compound to connections can deter the continuation of this problem.

Again with mobile antennas and road salt it is always a good idea to keep the elements and coils clean. Just using a damp rag to wipe off the salt and road grime can increase the life of an antenna.

Now feedline is another good component to take a look at. After the winter months with the crazy temperature swings we have had, coax can be put under stress it has not necessarily been rated to handle. Ice build-up like we had this year can weigh down feedline and wire antennas sometimes stretching them to the point of loosening connections or even breaking. This is a good time to check all those connections for good continuity and again an ingress of water which can lead to bigger problems. Then there are always non-weather related issues with feedline like one I personally had experience with this year. Since my current base antennas are not permanent, my coax has just been laid out across the yard, and back where I live we have a very abundant wildlife population. I'm not sure if it was a squirrel looking for buried nuts or just a deer out for a morning stroll, but one of my feedlines was found to have been partially severed. My own mistake.

Those are just a few tips to get everyone thinking, and remember if you need any help with maintenance please don't hesitate to ask any one of your Elmers.

Now that you've checked your station for operability there are many on air events spread across the next few months, I'm sure many of you will find very interesting and fun. Obviously field day is one everyone should know of, but some of my favorites include the 13 colonies special event, museum ship activations, route 66 on the air, and of course world amateur radio day. I'm not a big contestor myself, but I do enjoy getting on the air and giving some of these special stations log points.

Now of course WRARC has some major public service events that we participate with, that I'm excited to say will be here before we know it. To help everyone remember how to operate these events, we will be having "trial runs" coming up in the next few months. Possibly on air or just in person, dates haven't been set just yet, but expect them to be on Saturdays in the later mornings and early afternoons.

I also have, in the works, some hands on sessions to get everyone out to do some building and *Continued page 3*

IN THIS ISSUE

2020 Officers:

- President:** Chris Monske, WF8U wf8u@wrarc.net
- VP:** Maureen Stein, KD8NXS kd8nxs@wrarc.net
- Secretary:** Mike Cibella, KC8UNR kc8unr@wrarc.net
- Treasurer:** Bob Kramer, KE8HHH ke8hhh@wrarc.net
- Past President:** Bob Mitzel, N8RCM n8rcm@wrarc.net
- Trustees:**
 - Steve Fabry, KC8SOY kc8soy@wrarc.net
 - Darrin Cannon, N8DMC n8dmc@wrarc.net
 - Ray LaShure, K8NVY k8nvyl@wrarc.net

Appointed Positions:

- Social: Maureen Stein, KD8NXS
kd8nxs@wrarc.net
- Repeater & Nets: Steve Fabry, KC8SOY
kc8soy@wrarc.net
- Classes: Chris Monske WF8U
kd8ely@gmail.com
- Testing: Darrin Cannon, N8DMC
n8dmc@wrarc.net
- Newsletter/Web: Jane Avnet K8JAA
k8jaa@wrarc.net
- Historian: Rose Marko, KD8TII
kd8tii@wrarc.net
- Badges: Darrin Cannon, N8DMC
n8dmc@wrarc.net

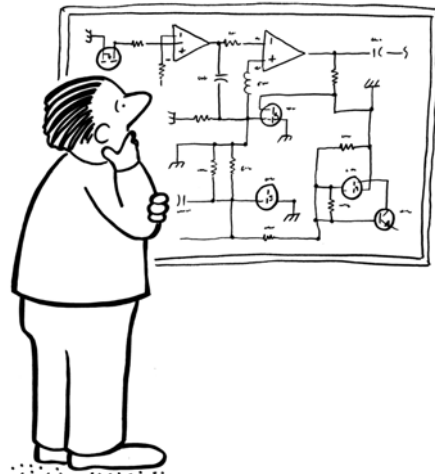
Officer's Meeting:

March 10 2019, 7:00 P.M. At Eat 'n Park,
Austintown, Eat 'n Park,
5451 Mahoning Ave
All members welcome

Members Meeting:

March 17, Davidson's
3636 Canfield Rd., Cornersburgh
Program: Elmering session

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OTHER IMPORTANT WEB SITES

THE ARRL EXAM SEARCH PAGE

<[HTTP://WWW.ARRL.ORG/FIND-AN-AMATEUR-RADIO-LICENSE-EXAM-SESSION](http://www.arrl.org/find-an-amateur-radio-license-exam-session)>

OHIO SINGLE SIDEBAND NET

<[HTTP://WWW.OSSBN.ORG/INDEX.HTML](http://www.ossbn.org/index.html)>

ANTENNA HEIGHT ABOVE AVERAGE TERRAIN (HAAT) CALCULATOR

[HTTPS://WWW.FCC.GOV/MEDIA/RADIO/HAAT-CALCULATOR](https://www.fcc.gov/media/radio/haat-calculator)



<http://www.wrarc.net/>

WRARC PREZ - CONTINUED FROM PAGE 1

operating. Some of you know that last summer I built and did some testing with an NVIS antenna. I plan on having one session to demonstrate what an NVIS antenna is and how they operate. Also digging through some of my collection of junk I found an old portable 2-meter antenna I had built using an old coffee can, if anyone is interested in seeing it or would like to build their own, please let me know.

I sure hope everyone is as excited for this upcoming year as I am, we should have a fun filled time this year.

73 de WF8U Chris

FROM OUR VP

Greetings to all. We are coming up on March and springtime will soon be here, at least according to the calendar. I hope Mother Nature gets the memo! We have lots to look forward to. For the club, this month will bring a DMR workshop and a local 2-meter contesting day, both on Saturday, March 21. More information on each will be upcoming.

The March monthly general meeting will be on Tuesday, March 17, St. Paddy's Day. Maybe Davidson's will have corned beef and cabbage on special that day. Or maybe green beer? Who knows! Our program for this meeting will be a hands on elmering session for managing our radios "on the fly." Concentrating on being able to correct small things that happen that knock us off frequency and put us out of the loop during major club activities like public service events or even during our regular Friday night nets. We can even have elmering that night for other radio related issues as well. Our more experienced hams [Elmers] will mentor the rest of us in a workshop type fashion. We are planning to bring one of our Yaesu 8900 mobile radios, a power supply, antenna, and ground plane to set up and utilize to demonstrate how to quickly address things like accidentally turning on the internet in the course of a net or public service event, or any other small things like this that can put you out of commission during an event. Please feel free to bring any of your own radio equipment with you that night, HT or mobile, any make or model, if you have any questions on its operation at all. There will likely be someone with experience on it to answer your questions, or take you through its operating process(es).



We now know the dates of all of our major public service events for 2020 for certain. The Panerathon is on Sunday, August 30, 2020 (confirmed). The Peace Race is on Sunday, October 11, 2020 and the Youngstown Marathon is on Sunday, October 25, 2020. More information on each of these will be given out closer to their event dates. Please mark these dates on your calendars now so we will all be aware of them as they approach.

Following last night's February general meeting, we know that it is OK at least for now to hold a mic in one hand and conversing on it while driving in Ohio. There is currently a big push for the legislature in Ohio to change this law to put more teeth in it. Proposed changes are to make it a primary offense to have anything (a mic included) in one hand while driving. You could be stopped and cited in the future for this. Both hands will be required to be on the wheel when this is changed in the state legislature. No one knows yet when that will likely happen. Just remember that the distracted driving law varies from state to state. Some already have tougher requirements. If you are planning a road trip in the future and will likely use your mobile radio and hand-held mic while driving to other states, it would be a good idea to research the distracted driving laws in the states you will be traveling through before you start out. I imagine you can find this information for each state online.

As you all know, Ray LaShure, K8NVY, has been very ill, and could certainly use all of our support, and even our company, as he is up to it. He will soon be moved from an extended care facility to home with some hospice and nursing care. His wife, Marilyn, will be his primary care giver. Please keep both of them in your thoughts and prayers at this time.

Hope to see you all at the March general meeting. Remember to wear green that day! Spoken like the true 98% Irish person that I am! Stay warm and dry the rest of this winter.

73 Maureen, KD8NXS

WHAT'S COMING UP?

- Mar. 07 YL Breakfast - PTBD
- Mar. 10 Board Meeting - Austintown Eat 'n Park
Members welcome
Ham Community Breakfast - Austintown Eat 'n Park
- Mar. 14 PI Day
- Mar. 17 Members Meeting
- Mar. 24 Ham Community Breakfast - Austintown Eat 'n Park

- Apr. 04 YL Breakfast - PTBD
- Apr. 14 Board Meeting - Austintown Eat 'n Park
Members welcome
Ham Community Breakfast - Austintown Eat 'n Park
- Apr. 21 Members Meeting
- Apr. 28 Ham Community Breakfast - Austintown Eat 'n Park



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

Fabry, Steve KC8SOY
 Haren, Roy KD8IJF
 Williams, Russ NR8W

Yaesu FT8900, FT8800, Mobile
 ???
 Electrician, tele-data, Amateur
 Extra

kc8soy@yahoo.com
 harens@juno.com
 rwilliams@neo.rr.com

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: k8jaa@arrl.net, and put WRARC on the subject line of your email.

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

March This could be you

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.

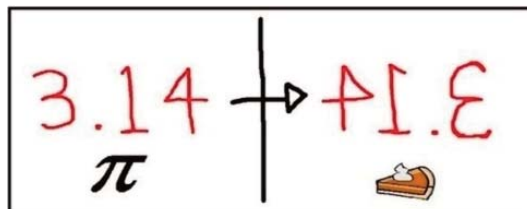
All are welcome to check in.

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, KA8DJM, W8IZC, N8SY, W5YI, the ARRL, FaceBook, and the World-Wide Web.

A NOTE FROM ROSE

Greetings all - I'm starting my article by saying at January's Board meeting, the Board members were informed by our newly elected Treasurer, Bob Kramer, KE8HHH, that his duties as Treasurer have temporarily been put on hold due to his academic scheduling until the summer break in May. I have been asked to continue as interim Treasurer until he returns. I want to let you know that even though the deadline for collecting dues has past, I and/or Maureen are still accepting them.



During January's Board meeting, one of the topics we spoke about was making a change in the membership application, by asking people who may be interested in becoming a member, who recommended them or how did they hear about our club. I have added those two questions to the top of the application, one on either side of the Western Reserve Amateur Radio Club title where you can provide your answer. We are hoping this new application will give us an insight into what Amateur Radio Operators are looking for in our club and how we can help them get started in their new adventure.

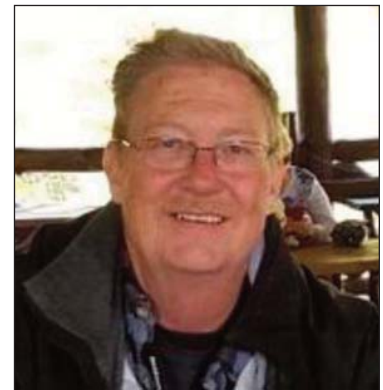
In closing, I would like to say that I am grateful to be given the opportunity to continue as Treasurer, even temporarily for a short time and I will be available for Bob, if need be, when he returns to take over the Treasurer's job.

73 Rose, KD8TII
WRARC/Treasurer *pro tem*

"Science is knowing, art is doing, and common sense is knowing and doing on the basis of experience" - Dr. Alex Shigo

MARCH TWO-METER CONTEST

MVARA is excited to announce the Mahoning Valley Two Meter Contest Saturday, March 21, 2020 from 7:00 to 10:00 P.M. We thought it would be fun to see if Valley Hams would enjoy shaking off the winter doldrums by getting on the air for a local contest. It will be an opportunity to talk to old friends and make new ones.



Old timers may remember participating in the Lou Malice Memorial Contest years ago. The MVARA 2 Meter Contest will be a similar two meter simplex contest. Stations will simply exchange grid squares as defined in the contest rules. The contest format will allow participants to evaluate their station's simplex capabilities. This information could be valuable in an emergency.

No 100-watt base station, no problem. There will be a low power category of 5-watts or less and a high power category of greater than 5-watts so everyone will have a level playing field. Awards will be given for the highest scoring Low Power Home, High Power Home, Low Power Rover, and High Power Rover stations at the June 11, 2020 MVARA meeting.

For contest rules and a list of rover stations and the grids they plan to activate go to www.mvara.org/Mv2mc.html

This year the contest will be dedicated to the memory of pioneer Valley Ham Lou Malice, WA8PKN, whose dedication to Amateur Radio touched the lives of all of us. Even if you never had the pleasure of knowing Lou, you are still part of his legacy. Chances are good that the Hams who inspired and encouraged you to become part of Amateur Radio were, themselves, inspired, encouraged, and trained by Lou.

We hope to hear you on the air!

Scott Wilton, KE4UHC <ke4uhc@neo.rr.com>
President/MVARA

THE AURORAL CONNECTION

"The Auroral Connection" to Be Focus of 2020 HamSCI Workshop

Registration is open for the third annual for amateur radio operators and professional scientists, Friday and Saturday, March 20 - 21, at . The theme of this year's workshop is "The Auroral Connection," and will include addresses by guest speakers, poster presentations, and demonstrations of relevant instrumentation and software. All radio amateurs, scientists, and anyone interested in ionospheric and space physics are welcome.

The workshop will serve as a team meeting for the , a National Science Foundation (NSF)-funded awarded to University of Scranton physics and electrical engineering professor Nathaniel Frissell, W2NAF. The project seeks to harness the power of a network of radio amateurs to better understand and measure the effects of weather in the upper levels of Earth's atmosphere. Through the grant, Frissell, a space physicist, will lead a collaborative team that will develop modular, multi-instrument, ground-based space science observation equipment and data collection and analysis software. He will also recruit multiple universities and ham radio users to operate the network of Personal Space Weather Stations developed.

In addition to Scranton, the Personal Space Weather Station project includes participation from TAPR; the Case Western Reserve University Amateur Radio Club, W8EDU; the University of Alabama; the New Jersey Institute of Technology Center for Solar-Terrestrial Research; MIT Haystack Observatory; Dartmouth College, and the ham radio community at large.

Noted contester and DXer Tim Duffy, K3LR, will deliver the keynote address. The chief operating officer and general manager at DX Engineering, Duffy chairs Contest University, the Dayton Contest Dinner, and the Top Band Dinner, as well as coordinates the Contest Super Suite. He is the founder and moderator of the popular RFI Reflector. Duffy serves on the ARRL Foundation Board of Directors as well as on the board of the World Wide Radio Operators Foundation (), and as chairman and president emeritus of the Radio Club of America. Other speakers at the workshop include Elizabeth MacDonald, the NASA researcher who founded and leads the project. She will discuss fundamentals of auroral physics, its optical signatures, and the Aurorasaurus citizen science project. James LaBelle, a professor of physics and astronomy at Dartmouth University and auroral radio physicist, and David Hallidy, K2DH, a retired microwave engineer who is also well-known for his work in auroral-mode propagation will also speak.

Additional information on the conference is available on the website. <<https://hamsci.org/hamsci2020>>





**Semi-Monthly
Ham Community
Breakfast
Second and Fourth
Tuesdays
9:00 A.M.
Eat 'n Park Restaurant
in Austintown
Join Us!**

PRESIDENT SIGNS PIRATE ACT

President Signs PIRATE Act to Combat Illegal Broadcasting

On January 24, President Donald Trump signed into law the "Preventing Illegal Radio Abuse Through Enforcement Act," or the PIRATE Act. The measure, which amends the Communications Act of 1934, authorizes enhanced penalties for violators. Under the new law, pirate radio broadcasters would be subject to a fine of not more than \$2 million, and violators could be fined up to \$100,000 for each day during which an offense occurs. The new law stipulates that the FCC "shall not decrease or diminish the regular enforcement efforts targeted to pirate radio broadcast stations for other times of the year."



The FCC is to submit to the House Committee on Energy and Commerce and the Senate Committee on Commerce, Science, and Transportation a report summarizing the implementation of this section and associated enforcement activities for the previous fiscal year. The new law also requires "annual sweeps," during which FCC personnel will be assigned to "focus specific and sustained attention on the elimination of pirate radio broadcasting within the top five radio markets identified as prevalent for such broadcasts." The Commission also "shall conduct monitoring sweeps to ascertain whether the pirate radio broadcasting identified by enforcement sweeps is continuing and whether additional pirate radio broadcasting is occurring."

Under the new law, the FCC will change its rules so that it proceeds directly to issuance of a *Notice of Apparent Liability (NAL)* without first issuing a *Notice of Unlicensed Operation (NOUO)*.

The FCC will develop and publish a database of all licensed AM and FM broadcasters, accessible directly from the FCC home page. The FCC is also required to publish a list of "all entities that have received a Notice of Unlicensed Operation, Notice of Apparent Liability, or forfeiture order," as well as "each entity...operating without a Commission license or authorization."

The law defines pirate radio broadcasting as transmitting within the AM and FM bands without an FCC license, but excluding unlicensed operations in compliance with Part 15.



ARLB007 FCC INVITES COMMENTS

ARLB007 FCC Invites Comments on 5.9 GHz Proceeding

Newington CT February 14, 2020

To all radio amateurs

The FCC has invited comments on a Notice of Proposed Rule Making (NPRM) in WT Docket 19-138, which aid the FCC would take "a fresh and comprehensive look" at the rules for the 5.9 GHz band. The FCC proposes to make 5.850 - 5.895 GHz available for unlicensed operations and to authorize transportation-related communication technologies to use 5.895 - 5.925 GHz.



WT Docket 19-138 files can be found online in PDF format at, <https://www.fcc.gov/ecfs/filing/1217200308588> .

The FCC is not proposing to delete or otherwise amend the 5-centimeter secondary amateur radio allocation at 5.650 - 5.925GHz, part of which includes the 75 Megahertz under consideration.

Comments are due by March 6, and reply comments are due by April 6. ARRL will be filing comments supporting no change to 5.850 - 5.925 GHz for amateurs, as included in the FCC proposal.



UNDERSEA EXPEDITION PLANNED

Undersea Expedition Planned to Retrieve Titanic's Radio Gear

The company with sole rights to salvage artifacts from the RMS Titanic has gone to court to gain permission to carry out a "surgical removal and retrieval" of the Marconi radio equipment on the ship, a Washington Post reports. The Titanic sank in 1912 on its maiden voyage after striking an iceberg in the North Atlantic. As the radio room filled with water, radio operator Jack Phillips transmitted, "Come at once. We have struck a berg. It's a CQD, old man," and other frantic messages for help, using the spark transmitter on board. CQD was ultimately replaced with SOS -- which Phillips also used -- as the universal distress call. The passenger liner RMS Carpathia responded and rescued 705 of the passengers.



**A recreation of the
Titanic radio room.**

As might be expected, the deteriorating Marconi equipment is in poor shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the Titanic, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster, including Phillips. The wreck sits on the ocean floor some 2 1/2 miles beneath the surface, remaining undiscovered until 1985.

A just-signed treaty between the UK and the US grants both countries authority to allow or deny access to the wreck and to remove items found outside the vessel. "This momentous agreement with the United States to preserve the wreck means it will be treated with the sensitivity and respect owed to the final resting place of more than 1,500 lives," British Transport and Maritime Minister Nusrat Ghani said in a statement.

The request to enter the rapidly disintegrating wreck was filed in US District Court in Eastern Virginia by RMS Titanic, Inc. of Atlanta, Georgia, which said that it hopes to restore the Titanic radio transmitter to operating condition, if it is allowed to go forward.

The company plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub that would perforate the hull and retrieve the radio equipment.



FAR INVITES 2020 - 2021 SCHOLARSHIP APPLICATIONS

Foundation for Amateur Radio Invites 2020 - 2021 Scholarship Applications

The Foundation for Amateur Radio Inc. (FAR) has invited applications for the 2020 – 2021 academic year for the scholarships it administers. Applications must be submitted via the online form. Several questions ask for essay responses. The deadline for initial submissions is April 30, 2020. Applicants may amend their applications until May 7.



All applicants must hold a valid amateur radio license and be enrolled or accepted for enrollment at an accredited university, college, or technical school. Applicants attending school outside the US must provide a brochure describing the school. Students do not apply for specific scholarships; each application will be considered for all of the scholarships for which the applicant is qualified. QCWA scholarships and the Chichester Memorial Scholarship all require recommendations to be awarded. Data entered onto the application goes directly into an encrypted, password-protected PDF file available only to the review committee. No part of the application is stored online. is available on the FAR website, or contact , telephone 443-812-4403

More information is available on the FAR website, or contact Dave Prestel, W8AJR, telephone (443) 812-4403.



TYQSL

TyQSL - a Web based Logbook that started as little project



(By:Manuel, DO5TY/ Submitted and edited by Gregory Drezdzon, WD9FTZ)

When I got my Ham Radio License in 2018, my search for a simple and modern Logbook solution ended without any decent result. Therefore, I started to make my own little web application to log my QSOs, that had features I missed in other solutions so far.

After a while, some of my friendly Ham Radio friends asked me if they could also use my online logbook. With that, the project got more grown-up and many things were fixed after feedback from other Hams. After a whole remake of the software in late 2019 to Jan. 2020, the online logbook, named tyQSL, is now out of beta. It can be used on any device or platform that has a modern web browser and an Internet connection. Anyone that likes it can join for free

On <https://tyqsl.eu> where you can also find more information.



Mike Malarky, W8IWD
Tom Sly, WB8LCD
Carol Gottesman, KD8NFD



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, or one larger, next month!!

SKYWARN SPOTTER TRAINING POSTPONED

Due to a staffing shortage, the NWS office in Cleveland will not be holding any resident (in person) Skywarn classes for Spring 2020. We are looking at alternate options and will update accordingly. If you have any additional questions please contact Sarah Jamison at sarah.jamison@noaa.gov.

Please stay tuned to their website for updates. https://www.weather.gov/cle/SKYWARN_schedule

ARRL GREAT LAKES DIVISION CONVENTION

March/14-15/2020 | Toledo Hamfest, &
 ARRL Great Lakes Division Convention
 Location: Perrysburg, OH
 Sponsor: Toledo Mobile Radio Association
 Website: <http://www.toledoglc.org/>
 Talk-In: 147.270+ (PL 103.5)

**Great Lakes Division Awards Time..**

Hey Gang,

It's time once again to ask you to send in your nominations for the following Division Awards. The awards will be given out at the Great Lakes Division Convention, but your nominations need to be sent in now!

Got someone in mind for any of the awards below? Send your nominations to Tom, W8WTD at w8wtd@arrl.org as soon as possible. Please be sure to have a goodly amount of information about the person you are nominating. This really helps the selection committee in their selection process.

Here's a list along with a description of each of the Division Awards.

GEORGE S. WILSON III W4OYI LIFETIME ACHIEVEMENT AWARD

The Radio Amateur in the Great Lakes Division whose lifetime achievement record merits recognition for outstanding contribution to the Amateur Radio Service. The nominee is active on the air and in Amateur Radio organizations. The Wilson recipient is an all-around Amateur whose lifetime activities, attitudes, and achievements might serve as an example to others. At the time of nomination, nominees must have been licensed Radio Amateurs for at least 30 years and be at least 50 years of age. Emphasis is placed on service to others rather than self, diversity of Amateur Radio interests and Activities, evidence of continuing self-challenge via Amateur Radio, and outstanding contributions to Amateur Radio. Devotion to Amateur Radio is balanced with attention to work responsibilities and family life. This award is presented at the discretion of the Awards Committee and Director. The recipient must be a current ARRL member.

GREAT LAKES DIVISION AMATEUR OF THE YEAR AWARD

The Radio Amateur in the Great Lakes Division whose outstanding record in the year preceding nomination merits recognition for contribution to the Amateur Radio Service. The Amateur of the Year, is an all-around Amateur, whose activities, attitudes and achievements may serve as a guiding example to others.

Devotion to Amateur Radio is balanced with attention to work responsibilities and family life. The Amateur of the Year exemplifies the "Amateur's Code." In selecting the award recipient, emphasis is placed on service to others rather than self, diversity of Amateur Radio interest and activities, evidence of continuing self-challenge and outstanding contributions to Amateur Radio. The recipient must be a current ARRL member.

TECHNICAL ACHIEVEMENT AWARD

The Radio Amateur(s) in the Great Lakes Division whose technical excellence exemplifies "continuation of the Amateur's proven ability to contribute to the advancement of the radio art" and whose attitude exemplifies the highest dedication to service to others and to science rather than self. Particular value will be placed on evidence of continuing contributions to the Amateur Radio Service. Groups of two or more Amateurs may be nominated for a joint award in this category. Technical achievement may be demonstrated through activities such as the following: publications, research and development, creativity in hardware, software and firmware systems design and implementation, technical instruction, application of advanced technology to public service communications. This award is presented at the discretion of the Awards Committee and Director. The recipient(s) must be a current ARRL member

DX ACHIEVEMENT AWARD

The radio amateur(s) in the Great Lakes Division who has dedicated time, talent and service to Dxing. The award is given especially in recognition of an exemplary lifetime DX record. Recipients are active on the air and in DX Amateur Radio organizations. The DX achievement recipient is also an all-around Amateur whose lifetime, ethical DX activities, good operating practices and notable achievements of the recipient *Continued page 12*

CONVENTION - CONTINUED FROM PAGE 11

might be viewed as examples to follow by others. At the time of nomination, nominees must have been licensed Radio Amateurs for at least 20 years and be at least 50 years of age. Emphasis is placed on DX totals (Honor Roll, DXCC Challenge, etc), DXpeditions served on, Elmering/Mentoring other DXers plus other outstanding DX related accomplishments. Devotion to Amateur Radio is balanced with attention to work responsibilities, and to civic and family life. This award is presented at the discretion of the Awards Committee and Director. The recipient(s) must be a current ARRL member.

YOUNG RADIO AMATEUR OF THE YEAR AWARD

Presented to a young radio amateur in the Great Lakes Division, 18 years of age or younger, in recognition of a record of outstanding contributions to the Amateur Radio Service. This record consists of activities and achievements in Amateur Radio, which may include support of the community through Amateur Radio, ability to recruit fellow students into Amateur Radio, scholastic achievement and extracurricular activities. The Young Amateur of the Year is enthusiastic and shows potential for leadership and further achievement. This award is presented at the discretion of the Awards Committee and Director.

JOSEPH J. PHILLIPS, K8QOE, NEWSLETTER AWARD

This award will be given to the highest scoring newsletter submitted in Great Lakes Division competition to the newsletter review committee. Each newsletter for the contest will have been declared newsletter-of-the-year for the Section it represents during the present year; however, when the timing of the Division Convention occurs too early in the year to permit selection of a newsletter for the year, winners for the previous year may be submitted. (ed note.. Ohio's Newsletter winner has already been selected. It is the Radiogram from PCARS.)

Great Lakes Convention Banquet

Hey Gang, The clock is ticking fast to get your reservations for the Convention Banquet. If you are planning on going now is the time to get those reservations in to assure your seat at the banquet. Go to: <http://www.toledoglc.org/> for all the details on the banquet as well as the hamfest too!

Wouff Hong Ceremony

A Wouff Hong Ceremony will be held just after the ARRL Banquet on Saturday, March 14th If you are interested in being inducted into the Royal Order of the Wouff Hong we need you to pre-register. This will assure you that you will have a seat at the Conclave.

from the PostScript – February 10th Edition

PostScript is produced as a weekly newsletter. I want to thank everyone that has contributed articles and ideas to make this an even better news source. I sincerely hope that you have enjoyed this edition and will encourage your friends to join with you in receiving the latest news and information about the Ohio Section, and news and events happening around the world! Scott, N8SY..



FEBRUARY MEETING



March 2020

PREPAREDNESS LEADS TO READINESS - MATT W8DEC



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 ARES Net 8:30 PM 146.745 PL 110.9	3	4	5	6 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	7
8 Spring Ahead 	9	10 Ham Breakfast Eat'n Park Austintown 8:30 A.M. Board Meeting Eat'n Park Austintown 7:00 P.M.	11	12 Blame Someone Else Day -- >	13 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	14 
15	16 ARES Net 8:30 PM 146.745 PL 110.9	17 WRARC Meeting 7:00 P.M. 	18	19 First Day of 	20 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	21  WaveBender Articles Due
22	23	24 Eat'n Park Austintown 8:30 A.M. Ham Community Breakfast	25	26	27 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	28
29	30	31	4/1 		WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	