The Wave Bender

Western Reserve Amateur Radio Club

W8WRC
FOUNDED 2010
KC8SPF

February 2019

AWARD WINNING NEWSLETTER

Ohio Section

WRARC President's comments

I am writing during a snowstorm where we are expecting a foot or more of snow in Canfield. Both the new year and winter have arrived. For WRARC it was a great starting with our annual After the Holidays party attended by 37 Hams and friends. Maureen, KD8NXS, did a great job organizing the event. Darren, N8DMC, was inducted for a second three-year term as Trustee. I'm really excited about having Darren to continue his work on the Board. He's enthusiastic and has a lot of really interesting ideas. I am hopeful others will seek positions on the Board when we have nominations this fall.

In February, our monthly meeting will be very short in order to allow for testing of potential Hams. The meeting will last less than 15 minutes and there will be no 50-50.

73 Brian, AB8BL

http://www.wrarc.net/

IN THIS ISSUE

FROM OUR VP

Greetings. Here we are starting off another brand-new year. We all enjoyed a nice kickoff to the year with the After the Holidays Party. I am sure this will be a good year too. We have lots to look forward to Everyone's participation is needed in all we do.

As in other years, we will have our three major Public Service communications events. We know for sure that the date for the Panerathon will be Sunday, August 25, 2019. The date we were given at the completion of the Youngstown Marathon last year for the 2019 race was Sunday, June 1. We have heard of a possibility of the date for this race and the one for the Peace Race in the fall being changed from their usual times. So far this is speculation only and we have not received any official notice on this. The Peace Race is generally run in later October. As we find out these things for sure, we will pass along that information to you.

Something new this year too for some of our meeting nights will be the occasional licensing testing session during meeting nights in lieu of a speaker. This was the best solution to finding a new place to test. Most places that we could use would involve a rental fee to use any space. Our treasury and budget cannot afford to do this. This will happen only occasionally and most meeting nights will still have the usual format of dinner, meeting, and speaker. Testing times we will have dinner, meeting, and testing. The first one of these will be this month's meeting night on Tuesday, February 19, 2019. If you or anyone you know is ready to test to upgrade your license or to start out with the technician class license, please contact Bob Mitzel N8RCM at 575-910-1456 as soon as possible to sign up and get any needed information such as what to bring with you to test. He also needs a head count if possible to be sure of having the proper number of VEs present. Don't forget that there is the $15 FCC testing fee as well.

On another surprise note, you've probably all heard that we are losing our second and fourth Tues. morning breakfast location as Eat 'n Park in Boardman is closing for good. The date I heard was February 17. We will need to find a new spot and will let you all know when we do. 'Til next time, stay warm and dry!

73, Maureen,,KD8NXS
VP/WRARC

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. How about a shack shot or two. 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!!

I'm always asking for input by members. The following questions may give you something to think about.

What was your first station?
Origin of your unique call?
How old were you when you got interested?
How did Amateur Radio shape your life? and/or
Who was your First Elmer?   -ed
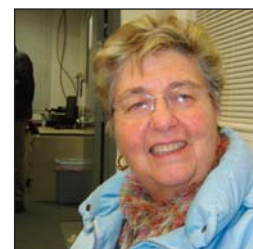
WHAT'S COMING UP?

Feb. 02   YL Brunch Bob Evans Restaurant in Boardman 1:00 P.M.
Feb. 12   Board Meeting - Austintown Eat 'n Park
                   Members welcome
             Ham Community Breakfast - Boardman Eat 'n Park
Feb. 19   Members meeting 7:00 P.M.
Feb. 26   Ham Community Breakfast - Boardman Bob Evans

Mar. 02   YL Brunch
Mar. 12   Board Meeting - Austintown Eat 'n Park
                   Members welcome
             Ham Community Breakfast - Boardman Bob Evans
Mar. 19   Members meeting 7:00 P.M.
Mar. 26   Ham Community Breakfast

OK, Show of hands...
Who's tired of snow?

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

Beatty, Dave KC8WY	anything	kc8wy@zoominternet.net
Fabry, Steve KC8SOY	Yaesu FT8900, FT8800, Mobile	kc8soy@yahoo.com
Haren, Roy KD8IJF	???	harens@juno.com
Williams, Russ NR8W	Electrician, tele-data, Amateur Extra	rwiliams@neo.rr.com
Wojtowicz, Joe W0JO	ICOM radios, D-Star	w0jo@arrl.net

He who is afraid of asking, is afraid of learning

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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. 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

Feb. 01 Bob, KE8HHH
Feb. 08 Aiden, W0TIS
Feb. 15 This could be you, Volunteer
Feb. 22 This could be you, Volunteer

If you don't see your name 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

Get on the Air

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 WORD FROM OUR TREASURER

Hello everyone, welcome to 2019! It's a new year and new things will be happening. But first, I would like to let everyone know about our After the Holidays Party which took place Sunday, January thirteenth. It wasn't as spectacular as our past parties, but it was still just as enjoyable. It took place at Davidson's Restaurant at 3:00 P.M. Each person ordered and paid for their own dinner.

After dinner the meeting commenced. Brian, AB8BL, started with a few trivia questions then continued with introducing the Board Members. Next, Darrin, N8DMC, asked everyone for a minute of silence for our four SK's (Silent Keys). They were: Bill Wolfe, KA8TZX, who passed away June 30, 2015; John Fabry, KC8SPF, who is the brother of Steve Fabry, KD8SOP, who passed away April 23, 2016; Frank Crozier, KD8YZE, who passed away December 24, 2016 and John (Jack) Chapman, WA8GLF, who passed away January 11, 2017. There was one more SK, Jim Aylward, KC8PD, who helped form WRARC, passed away August 17, 2017. Next topic was something the Board Members voted on, making Al and Jane Avnet Honorary Members of WRARC.

After the Board Members finished with their reports, we had the 50/50 drawing and the winner was Kevin Stein, KD8NXR. We finished with drawings for the 50/50 prizes. Darrin put on a slide show featuring photos from 2010, the beginning of the WRARC until last year, 2018. We had a total of between 35 and 40 members and their families. All in all, it turned out to be a pretty good turnout.

Getting down to "brass tacks." We have been invited back to assist in the three main events this year by the individual committee members. So, we, the board members, are asking any and all WRARC members or anyone who has a AMATEUR RADIO LICENSE, to please volunteer your time for these events. All three of the events, the Panerathon Race, the Youngstown Marathon and the Youngstown Peace Race, are large races and require plenty of volunteers to be stationed at different locations throughout the races. It can't be just the regular 20 to 25 persons involved each time. We need more and new members to help out. PLEASE, think about becoming actively involved this year.

Our January YL Breakfast turned out pretty good. Maureen, KD8NXS, Rose, KD8TII, Donna Haren, and Janet Egan showed up with their husbands The husbands who came along were Dennis Marko, KA8DJM, Bill Egan, KD8HCQ, and Roy Haren KD8IJF. I reserved a table for eight and there turned out to be seven of us.

We decided to try something different for February's breakfast, and it will be a luncheon for the YL club. It will be held at Bob Evans Restaurant in Boardman on Saturday, February 2. Hopefully we'll do a luncheon again in March. Until then, I hope everyone has a safe 2019 year.

73 Rose KD8TII
WRARC /Treasurer

"Live your life every day with no regrets, it'll be worth it."

USE YOUR LICENSE TO SERVE THE COMMUNITY - VOLUNTEER

SWAP 'N SHOP

FOR SALE

Item	Price
20a 12v Homebrew supply	$ 10
5 gal plastic gas can & spout	$ 5
ARRL Ham Manual 1975	$ 2
Bird Moddel 43 Watt meter no slug	$150
B&K Precision PS-500 Prescaler	$ 5
Devry Institute VTVM	$ 5
Eico Mod 1064S variable bench supply	$ 10
Fluke Mod 8030A Dgitial Multi Meter	$ 10
Heathkit capacitor checker IT-11	$ 75
Heathkit FET checker IT-121	$ 20
Heathkit HW-2036 2mtr mobile&pwer supply	$ 20
Heathkit IM 5228 VTVM	$ 5
Heathkit Ocilloscope calibrator IG-4505	$ 10
Icom 02AT with batteries,mic, ant	$ 20
Icom 02AT with batteries,mic, ant	$ 20
Icom 2AT with batteries, ant	$ 10
Icom 2AT with batteries, ant	$ 10
Icom 4AT with batteries	$ 10
Icom IC-756 ProII service manual	$ 10
Micronta VOM	$ 5
Olson SWR & Power meter	$ 5
Power Sonic 6v battery charger	$ 5
Realistic HTX 202 s meter HT	$ 20
Timex Sinclair 1000 computer	$ 15
Winradio WR-G31DDC Excalibur SDR rcvr	$500
Hewlett Packard 5381A freq counter	$ 40
Daiwa CN-101L swr/pwr meter 1.8-150 mhz	$ 45
Ten Tec Argonaut II	$400
Kenwood TM-241 moblie 2 meter xcvr	$ 40
Realistic Pro-2005 400 chan scanner rcvr	$ 40
Kent Single Paddle CW key	$100
DSI Model 3550 550mhz frequency counter	$ 30
Large 12 inch Quatz 24 hour clock	$ 10

Contact Frank Sole if interested, call or email
Phone 330-360-1551
<younghotdog@yahoo.com>

THANK YOU

Darrin thanks Aiden, W0TIS, for initiating and hosting the club's inaugural New Year's Eve Net. Aiden did a fine job conducting the net, recording 22 check-ins 10 of which were WRARC members. He directed rag-chew sessions like a seasoned Ham.

We thank the Board for the fowollowing: Al Avnet, AB8AA, and Jane Avnet, K8JAA, Honorary Lifetime Memberships in the WRARC in recognition of their service towards (help) establishing the club, mentoring its members, and maintaining the monthly Newsletter. Such motion was seconded by Roy, KD8IJF, motion carried.   *Al & Jane*
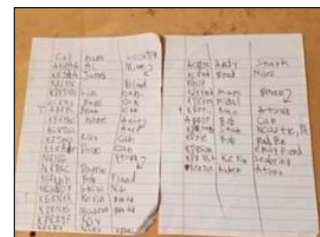
> "It is dangerous to be right in matters on which the established authorities are wrong."
> Voltaire,

EXCESSIVE ANTENNA APPLICATION FEES

Court Rules Excessive Antenna Application Fees Violated Reasonable Accommodation

Long-pending Amateur Radio antenna litigation that ARRL helped to fund has finally borne fruit. The Supreme Court of the State of New York, Appellate Division: Second Judicial Department has ruled in the case of Myles Landstein, N2EHG, that the Town of LaGrange, New York, not only overstepped its state-granted authority by assessing excessive fees, but violated the limited federal preemption PRB-1 in the process. PRB-1 requires municipalities and states to "reasonably" accommodate Amateur Radio antennas and to apply the "minimum practicable regulation" in handling Amateur Radio antenna applications. The ruling is slated to be published as a case decision. Landstein, who lives in the Bronx, had wanted to erect a 70-foot antenna support structure for a multioperator station in the Hamlet of Lagrangeville; the Town of LaGrange has a 35-foot height limit.

"This case, which goes back to 2013, was about applying PRB-1 to a situation in which a municipality attempted to thwart the installation and maintenance of ham radio antennas by imposing excessive permit application costs on the ham applicant," said communications attorney Chris Imlay, W3KD, who is familiar with the case. Imlay said the FCC has refused to clarify the cost-prohibition issue as it relates to PRB-1's "minimum practicable regulation" and reasonable accommodation provisions of PRB-1.

"The Town incurred more than $17,000 in legal consulting fees in connection with [Landstein's] applications, and informed the petitioner that he was required to reimburse the Town for these fees before any determination would be made with respect to the applications," the court decision recounted. "The Town subsequently, as 'an accommodation to the petitioner,' reduced the amount...to...$5,874, but also required the petitioner to maintain a minimum advance continuing escrow balance of at least $1,000 to cover the Town's future consulting costs..."

"We hold that, because the Town did not limit the consulting fees charged to the petitioner to those necessary to the decision-making function of the town's Planning Board and Zoning Board of Appeals, the town exceeded its state-granted authority by requiring payment of the consulting fees and, moreover, violated a rule promulgated by the [FCC]," the court concluded.

Given the significant delay, Imlay said both he and Landstein had lost hope that the case would ever be resolved in Landstein's favor -- and in the favor of radio amateurs in New York, generally -- much less be a case that would "create favorable precedent for Amateur Radio."

"ARRL originally was drawn to this case, because New York is the only state that, due to a very old case decision, has held that Amateur Radio antennas are not necessarily a 'normal accessory use' to residential real property," Imlay explained. "Because the issue in the case dealt with both that issue and the issue of cost prohibitions in the permitting process relative to the cost of the antenna installation, we decided to fund the case." Landstein lost at trial, and an appeal was filed in about 2015, for which ARRL provided memoranda of law about the cost-prohibition issue. "The antenna at issue and the support structure was to cost no more than $1,000," Imlay said.

The court concluded that the town "may not use its land-use regulatory authority to construct 'hoop after hoop' for the petitioner to jump through in order to erect his radio antenna tower [and] cannot impose unreasonable expenses so as to create an insurmountable financial barrier to the pursuit of the project. In this context, not only must the consultant fees be reasonable..., but the underlying services must be necessarily related to those municipal regulatory functions which are not preempted by federal law."

(from arrl and other sources)

Government Shutdown and Exam Maker Update Summary:

Government Shutdown Impacts Amateur Radio License Applications According to the FCC public notice statement: Aside from a few emergency and auction filing systems, all other Commission electronic filing systems will be unavailable to the public until normal agency operations resume.

Therefore, the FCC is not processing any Amateur license applications during the shutdown which includes individual, club, and exam session (new and upgrade) applications.

The FCC CORES registration system is one of the few systems that remains available to the public and is not affected by the shutdown. Applicants can still register in CORES and be assigned an FCC Registration Number (FRN). https://apps.fcc.gov/coresWeb/publicHome.do

 Additionally, information included in the FCC public notice outlined how licenses that will expire while the FCC is closed will be handled. If a license has just expired or is about to expire, the ham can file the renewal application and continue to operate while the FCC is closed. The filed application will remain in limbo until the FCC is back to work.If the Amateur waits until the FCC reopens, then they will have two days to submit the renewal before their license is considered expired in the FCC database.

The FCC public notice did not specifically address licenses that had expired and were near the end of the 2-year grace period other than to state, "We are not automatically extending the deadlines, but we will consider whether it is appropriate to do so once normal operations resume."

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Amateur Radio Applications in Limbo as Partial Shutdown Continues

The FCC is not processing any Amateur Radio applications as the partial government shutdown approaches its fourth week. The FCC suspended "most operations" at mid-day on Thursday, January 3, although an appearance of activity continues. For radio amateurs, the shutdown means that, while the Universal Licensing System (ULS) continues to accept applications for all valid purposes, the FCC will not review or act upon them until the funding stalemate is resolved. This includes Volunteer Examiner Coordinator test session batch files as well as modification, renewal, and vanity call sign applications filed by individual licensees. Amateur Radio newcomers who have passed the required examinations will have to wait until the shutdown concludes to receive a call sign and authorization to operate. License upgrades are also on hold.

"Due to a lapse in funding, the operations of the Federal Communications Commission will be limited with no system support. We regret any inconvenience, " the FCC says on the ULS home page. This

**Semi-Monthly
Ham Community
Breakfast
Second and Fourth
Tuesdays
February12 Eat n Parkin, Boardman
February 26 Bob Evans, Boardman
9:00 A.M.
Join Us!**

means very limited human intervention while the shutdown continues, and if a system breaks down, it will not be repaired until after employees are back on the payroll. At this point, 262 of 1,437 FCC employees (excepting contractors) remain on the job, as are FCC Commissioners.

The Antideficiency Act prohibits FCC and other federal employees from working until funds are available to pay them; they may not even volunteer, check their email, or attend meetings. While the law doesn't directly affect FCC automated filing databases, some of these cannot operate without regular human intervention. The Commission has emphasized that it will undertake any activities necessary for the protection of life and property during the funding lapse. That includes the High Frequency Direction Finding (HFDF) Center in Maryland, considered essential.

The FCC website remains up, and the FCC Daily Digest of its activity continues to be posted, but the website is not being updated, and the only items it contains are those related to spectrum auctions, activity that is funded through auction proceeds, not government funds. The Electronic Comment Filing System (ECFS) will also accept posts, but filings will not be reviewed or processed until after normal operations return.

The FCC spelled out the overall impact of the funding lapse in a January 2 Public Notice. Using available funds, the agency was able to maintain a business-as-usual posture until that date. The FCC released an updated Plan for Orderly Shutdown Due to Lapse of Congressional Appropriations on January 9. The resumption of normal operations will also be announced on the FCC's website

New Book from ARRL - Grounding and Bonding for the Radio Amateur by Ward Silver, N0AX $22.95
Here's a tip directly from the book...

Proper Station Grounding is Important.
Operating Safety
No matter how good your lightning protection system is, you must not be in electrical contact with the radio equipment during a lightning strike event. Even assuming there is no current flowing between the radios in your radio room, the voltage of all equipment will be raised above ground potential. If you are touching any piece of equipment, including a microphone, key or keyboard during the strike event, you are now the path of least impedance from the equipment to whatever grund you are standing on. this ground path can be through the rebar in a concrete floor or to a nearby electrical wire or water pipe.

Consider getting a storm warning device capable of alerting you when lightning activity is within 10-miles of your station. When the alarm sounds, leave the radio room. If your lightning protection system is designed and installed properly, you may leave the equipment connected and powered on - but you muust leave the room and not be near the equipment. Alternatively, if you have only 1 or 2 feed lines or cables and do not have a fully functional lightning protection and grounding system, disconnect and place them outside of the building, preferably connected to a ground rod.

Every station needs a good ground:
electrical safety, lightening protection, and RF management.

*   AC safety: protects against shock hazards from ac-powered equipment by providing a safe path for current when a fault in wiring or insulation occurs.
*   Lightning protection: keeps all equipment at the same voltage during transients from lighting and dissipate the lightning's charge in the Earth, routing it away from equipment.
*   RF management: prevents unwanted RF currents and voltages from disrupting the normal functions of equipment (also known as RF interference or RFI).

MORSE CODE AND THE PHONETIC ALPHABET

Morse code is a very efficient mode of radio communication because it can be done with very low power and very simple transmitters and receivers. A Morse code radio signal will get through with one tenth of the power required for voice communications.

Morse code uses combinations of long and short sounds, usually represented and spoken as "dah" and "dit." The duration of a dah is three times longer than the duration of a dit. The silent space between the dits and dahs in a letter is the same duration as a dit. The silent space between letters is the same duration as a dah. All but the final dit is usually abbreviated as di because that's sort of how it sounds.

You will notice that there are no dots and dashes in this table. The reason is that we do not want to be responsible for getting you started on a bad habit. Do not try to learn Morse code by trying to memorize a table of dots and dashes. "A" sounds like "didah" not "dot dash."

"So what's the big deal?" you ask. If you memorize the dots-and-dashes you will know Morse code by sight. Morse code is, however, an aural (by ear) format. If you learns dots and dashes then you will hear the sound and have to mentally translate from sound to visual dots and dashes and then to letters. This translation step, as simple as it seems, will really hold you up. It will almost certainly prevent you from ever being able to copy a Morse code message at rates of 5 words-per-minute or higher.

Letter	Morse code sound	Phonetic Alphabet used on voice" "phone" modes to spell
A	didah	Alpha
B	dahdididit	Bravo
C	dahdidahdit	Charlie
D	dahdidit	Delta
E	dit	Echo
F	dididahdit	Foxtrot
G	dahdahdit	Golf
H	didididit	Hotel
I	didit	India
J	didahdah	Juliet
K	dahdidah	Kilo
L	didahdidit	Lima
M	dahdah	Mike
N	dahdit	November
O	dahdahdah	Oscar ("Os-cah')
P	didahdahdit	Papa
Q	dahdahdidah	Quebec ("Ke-bec')
R	didahdit	Romeo
S	dididit	Sierra
T	dah	Tango
U	dididah	Uniform
V	didididah	Victor
W	didahdah	Whiskey
X	dahdididah	X-ray
Y	dahdidahdah	Yankee
Z	dahdahdidit	Zulu
1	didahdahdahdah	"wun"
2	dididahdahdah	"two"
3	didididahdah	"tree"
4	dididididah	"fow-er"
5	dididididi	"fife"
6	dahdidididit	"six"
7	dahdahdididit	"seven"
8	dahdahdahdidit	"ate"
9	dahdahdahdahdit	"nine-er"

OHIO SECTION

Spotlight: The ARRL Ohio Section, Not Just Home to the Dayton Hamvention® The Ohio ARES program has more than 1,500 active members with over 780 members meeting the National Incident Management System (NIMS) requirements by completing the required four basic Incident Command System courses (ICS 100, 200, 700 and 800). Members have a total of over 7,600 NIMS courses logged as of the end of 2018.

Ohio ARES had employed advanced on-line EC/DEC monthly reporting along with an on-line monthly report card for their ARES members to use, a system which is currently being replaced with the new national ARES Connect system being rolled out now. The Ohio Section was one of four Beta Test sites for the new ARES Connect and was the first to actually start using the system this past June. More than 720 volunteers are registered and logging their service hours into the system. Projections for the 2018 end of year totals looked strong: more than 6,000 events and well over 60,000 hours registered into the ARES Connect/Ohio system.

Ohio ARES' Partnerships Partnering with the Emergency Management Association of Ohio (EMAO) has been beneficial to Ohio Section ARES by giving ARES officials direct contact with all 88 EMA Directors in the state. This partnership has given ARES the opportunity to speak and participate in Association meetings and conferences, as well as play an active role in the organization. As an active member, the Ohio Section Manager directly participates as a member of the Education Committee.

The Ohio Section has also been an active partner in the Ohio Public/Private/Partnership (OP3). OP3 is an effort to serve Ohioans before, during and after a disaster. The Ohio Department of Public Safety created OP3 to provide the opportunity for state and local government agencies, businesses, associations, Ohio Colleges and Universities and non-profits to engage in crisis disaster protection, planning, response and recovery efforts, which will promote business continuity, speed recovery, improve the quality of life and build a safer Ohio for all its citizens.Being partnered with OP3 has also given ARES direct access to a statewide credentialing system - the Emergency Partner Credentialing System (EPCS) -- that ARES used during the Republican National Convention in 2016. It has also given ARES exposure to many government agencies and businesses that normally may not have considered the Amateur Service as a resource.OP3 has also given Emergency Coordinators, District Emergency Coordinators and other leadership officials access to the Safer Ohio Awareness Report (SOAR), a publication produced by the Ohio Department of Homeland Security and the Ohio Department of Public Safety. Sent out twice a day, it gives ARES leadership a heads-up on all related activities in the state, as well as a summary of all activities around the country and world.

The Ohio Section is also partnered with the Ohio Responds Volunteer Registry, the state's online system for managing public health and medical disaster responder-volunteers. The system also supports a variety of personnel who may be called-up during disasters, all-hazard response efforts and public health activities. This partnership has given Ohio ARES access to free liability insurance.

The Ohio Section is also a member of the Ohio Voluntary Organizations Active in Disasters (VOAD). The Ohio VOAD is the state chapter of the National VOAD of which the ARRL is a member-organization.

Ohio's SKYWARN program directly serves two National Weather Service Offices, one in Cleveland and the other in Wilmington. Both offices have a full complement of Amateur Radio equipment to receive the latest observations from the trained amateurs/spotters in the field.
With SEC Stan Broadway, N8BHL, (a COML and DHS Auxiliary Communications course certificate holder) at the helm, ARES is the most popular and active section program: 96 ARES leaders serve as Assistant Section Emergency Coordinators, District Emergency Coordinators, Assistant District Emergency Coordinators and Emergency Coordinators.

The Annual Ohio ARES Conference was held on April 7, where ARRL Great Lakes Division Director Dale Williams, WA8EFK, introduced participants to the new ARES Connect system. (Williams also serves as chairman of the ARRL Public Service Enhancement Working Group). There were 130 in attendance. Ohio formally kicked off the ARES Connect system to all 88 counties in late June. Hard work continues on getting

OHIO SECTION - CONTINUED FROM PAGE 12

ARES members registered on the new system to realize its benefits.

The 3rd Annual Ohio ARES VHF Simplex Contest was held in January, which was highly successful in promoting the ability of hams to communicate on VHF simplex. [The 2019 Simplex Contest was held last Saturday, January 12, with the purpose of testing and plotting coverage areas using simplex signals, so that In the event of an "all is down" emergency, simplex capability can be used to pass messages.]

Major 2018 Activations
February saw 17 Ohio counties flooded. There were also tornadoes, which kept Ohio SKYWARN program members busy. ARES groups supported many county EOCs and Red Cross shelters, police and fire stations.

Northeast Ohio ARES operators responded to an activation for damage assessment and participated in two major exercises all on Wednesday, August 15. The Youngstown area was hit by weekend storms and ARES was notified that the county needed help performing damage assessment for a large area. Over a dozen ARES operators responded along with a contingent of CERT volunteers from a neighboring county. The volunteers held a short briefing, then began the long task of going door to door to inquire about damages. There were 416 homes evaluated for damage and 74 streets walked. Four homes were destroyed, one had severe damage and the remaining 411 homes sustained minor damage.The call came when other northeast Ohio counties were already involved in two major exercises - one at the Cleveland Burke Lakefront Airport where six ARES volunteers assumed the task of tracking patient transport in a multi-casualty drill. The other involved nearby Lake, Geauga and Ashtabula counties as the state conducted an exercise involving the Perry Nuclear Power Plant. More than two dozen Amateurs were there, and five amateurs were at the State of Ohio's EOC station, W8SGT, with the day long exercises. -- excerpted from the 2018 Ohio Yearbook, Scott Yonally, N8SY, Ohio Section Manager

ARRL ARES E-Letter 1/16/19

MORSE CODE - CONTINUED FROM PAGE 11

0	dahdahdahdahdah	"zero" (not "oh")
.	didahdidahdidah	"period," "decimal," or "dot," depending on context
,	dahdahdididahdah	"comma"
/	dahdididahdit	"stroke" or "slant bar" depending on where used

Darrin Cannon, N8DMC

Amateur Radio Operator   "Amateur means we're simply professional volunteers"   ARRL reflector

NOTE FROM OUR 3-YEAR TRUSTEE

Wow how time flies by. It's Newsletter time again, speaking of which. Jane takes great pride in our newsletter even while living afar. As part of the Board, I brought up a motion in which was voted on to induct both Al and Jane Avnet to become honorary members. It was graciously passed without hesitation. We miss them both and from what I hear, they are currently adding onto their home which means a good possibility that Al will be getting the radios set up so we may one day say hello to them on HF. Can't wait to hear you both!!

The After the Holidays dinner was a nice turnout. I'm not sure exactly how many attended, possibly 32 from what I heard from another. One of the first things we did before anything else, was to honor the silent keys that are no longer with us today, as a moment of silence was observed. I do want to thank Steve Fabry, KC8SOY, for bringing the video picture collage file to the party and to the Steins for bringing the projector and laptop to show the folks there to enjoy. It sure brought back some nice memories for all to see all the events we participate in.

For those who do not live in Ohio and live somewhere else that is warm . . . We envy you! I speak for myself, but I think we could all agree Winter arrived in one day!! Recently I went to a Home Depot where I only saw two snow blowers left. I'm thinking those are probably going to be sold the next day, even though they were stickered at $1100. The boy working there told me that they are not going to be receiving any more 'till next season. I hope you all own one, if not… Happy shoveling! Yuk. Who's ready for Spring!?! THIS HAM IS!!!

With the weather being so cold lately, here is a tip . . . Do Not leave your hand held radios in your vehicle if possible. If you do, I recommend you take the batteries out of the radios and also remove the antennas when you bring them inside the house. This will acclimate them back to temp as there might be a bit of sweat on the components when they enter a warm environment.

Now, I did save the best for last . . . I was inducted for another three years as your WRARC Trustee at the After the Holidays party. I look forward to continue to do the best I can for OUR Club. Don't hesitate to call upon me with your ideas or interests so that we may know what you would like to get out of the club, such as learning something new, how to operate your radios or if you need help putting up that new antenna you got from Santa.

73 for now!
Darrin Cannon, N8DMC
WRARC/Trustee

WHAT: AMATEUR RADIO TESTING SESSION (IN LEIU OF A GUEST SPEAKER)

WHEN: FEBRUARY 19, 2019

TIME: PLEASE BE THERE AT 6:45 PM

WHERE: DAVIDSON'S RESTURANT 3636 Canfield Rd, Canfield, OH 44406

COST: $15.00 CASH

BRING: TECHNICIAN EXAM: YOU WILL NEED A VALID ID.

GENERAL OR EXTRA CLASS: CURRENT COPY OF YOUR AMATUER RADIO LICENSE & AN FRN NUMBER IF YOU HAVE ONE.

IMPORTANT PLEASE DO NOT CONTACT THE RESTURANT FOR INFORMATION

YOU MAY TELEPHONE BOB MITZEL AT (575) 910-1456

OR EMAIL N8RCM@WRARC.NET

ARES NET NOTES

2019 has brought some changes and additions to ARES nets in Ohio and across the country.

•   OHDEN. The Ohio Digital Emergency Network is a digital net that normally meets on Tuesday at 7:45pm. Band conditions have been poor and they have moved the net to Sunday at 3:00pm. They also announced the addition of a 160M net at the regular Tuesday time. Details are below:

Due to the continued long skip being experienced on 80 meters during the Ohio Digital Emergency Net(OHDEN) training sessions @2145 local time each Tuesday; OHDEN will temporarily go to Sunday afternoons at 3:00 - 4:00PM. Training will remain on the prime frequency of 3584.5KHz USB +1500Hz. Tests show that this time has much better propagation throughout the state and should allow the best propagation currently possible on 80-meter band.

At the same time, Eldon, W5UHQ, is going to start an experimental Olivia /FT8 net on 1805.000 USB +1500 Hz during the normal time slot of 2145 – 2245 on Tuesdays. The objective of the 160-meter net will be to perform signal reports and check for traffic quality circuits on 160 meters from county to county and hopefully county to SEOC. Hopefully we can get more stations active on this frequency and as many county control stations as possible to try out their capability. Tests thus far have been great from border to border. These changes will be in effect from Jan 15 until March 12 (start of daylight savings time). These changes should allow all members interested in improving the 160-meter readiness of this critical statewide connection under all conditions of solar impacted propagation.

•   Also announced for 2019 is a continuing net by FEMA aimed at testing/improving interoperability. The details were contained in a bulletin from ARRL:

ARLX001 Third Wednesday Monthly Communications Exercises Set

FEMA Region 10 will conduct monthly communications exercises
(COMMEX) on the third Wednesday of each month, starting on January 16, 1730 - 1900 UTC. Amateur Radio operators are invited to take part. The intent of these exercises is to test and exercise interoperable communication (federal/state/local/tribal/Amateur Radio) during a major disaster in which the communication infrastructure is significantly damaged or destroyed.

FEMA Region 10 will use the call sign WGY910. Other stations associated with agencies and organizations that provide response support in accordance with the National Response Framework are encouraged to participate.

The COMMEX will use these "dial" or "window" frequencies on 60 meters - including 5,330.5 kHz, 5,346.5 kHz, 5,357.0 kHz, 5,371.5 kHz, and 5,403.5 kHz - as part of the exercise. The area of operation is the continental US.

73, Dave Brett, KD8NZF
EC/Mahoning County

February, 2019
Celebrate with Us,
We're Nine!

WE ARE NINE- HISTORY

At our first meeting, February 16, 2010, the President talked about the direction we felt the club should go. He wanted all members involved in making the club effective. He'd like to see speakers or a workshop at every meeting. More Ham related activities such as T-hunts, local contests and sprints. He emphasized Field Day and suggested we get a start on that now.

The President passed out proposed mission statement and constitution and bylaws. He asked everyone to look them over and make suggestions to improve them. He asked for suggestions for a club name. The suggestions were:

>   Mahoning Amateur Radio Association
>   Tri-City Amateur Radio Association
>   Tri-County Amateur Radio Association
>   Western Reserve Amateur Radio Association (There was already a local club with that name)
>   Valley Amateur Radio Association
>   Amateur Radio Association/Amateur Radio Service/Amateur Radio Club

He asked for suggestions for the name of the newsletter:

>   Wave Bender
>   Pass Band
>   Sky Grabber
>   Scope
>   Intermod

Other ideas will be considered for club name and newsletter. Ideas for workshops were:

>   Use of test equipment,
>   tweak old radios,
>   help new Hams get up to speed with their equipment, i.e. be Elmers,

The group agreed to meet the third Tuesday of the month.

Founding members and the posts they volunteered to hold:

Al Avnet, AB8AA	President
Roy Haren, KD8IJF	VP
Jane Avnet, K8JAA	Secretary- Newsletter
Matt Pateray, KD8AMG	Treasurer
John Fabry, KC8SPF (SK)	Badges - Site liaison
Russ Williams, ex-KD8LDY	Trustee (NR8W)
Steve Fabry, KC8SOY	Trustee
Ted Filmer, KD8IJE	Trustee
Karl Brandt, ND8DX	
Kevin Stein, KD8NXR	
Maureen Stein, KD8NXS	

AFTER THE HOLIDAYS PARTY JANUARY 2019

On Sunday, January 13, 2019, we had our ninth annual After the Holidays Party at Davidson's in our usual meeting room. As always, everyone had a good time socializing and the mood was upbeat. Brian, AB8BL, gave us a round of fun holiday related trivia. Everyone had fun guessing the answers. There was lots of conversation and laughter at every table. We replayed our video slide show from a few years ago and had it playing. Thank you to Steve, KC8SOY, and Darrin, N8DMC, for replaying it for us. It's fun to look back over the years at things we did in the past. How much younger we all looked!

Certainly it was good that we picked the second Sunday and not the third of the month due to the extreme weather on the third weekend. While we had a snowstorm the night before, it was not bad enough to affect the Sun. party day. Close call! At the outset of the meeting portion, we had a moment of silence and reading of the names and call signs of each of our silent keys. They are all missed and we acknowledge their contributions to WRARC. We also missed having Al, AB8AA, and Jane, K8JAA, with us. We wish they could have been there, but Missouri is a long way off! The business meeting was brief and Darrin, N8DMC, was reinstalled to his second three-year term as trustee.

Those who came out to enjoy the afternoon with us were the following members: Stan Adamski, KB3WPD; Bob Kramer, KE8HHH; Bob Mitzel, N8RCM; Dennis Marko, KA8DJM; Rose Marko, KD8TII; Russ Williams, NR8W; Steve Fabry, KC8SOY; Darrin Cannon, N8DMC; Ted Filmer, KD8IJE; Roy Haren, KD8IJF; Rocky LeRoy, W8RKY; Ray LaShure, K8NVY; Mike Cibella, KC8UNR; Shirley Boles, KD8SSB; Bill Egan, KD8HCQ; Brian Lewis, AB8BL; Roy Dyckman, KD8JMO; Aiden Divelbiss, W0TIS; Joe Wojtowicz, W0JO; Dave Beatty, KC8WY; Liz Beatty, KD8DWV; Mike Stein, KD8YML; Kevin Stein KD8NXR; Mark Stein KD8YMK, and myself, Maureen Stein, KD8NXS. Guests who joined us were: Bob McCully, AB8OP, Nancy Williams, Cathy Dunaway, Janet Egan, Donna Haren, Betsy Kramer, Corrie Kramer, Kent Kramer, Bob Wilkeson, Adam Divelbiss, Katie Wilson, and Marko Divelbiss. Thanks to all for coming out and kicking off the new year with us.

73 Maureen, KD8NXS
WRARC/Social Secretary

February 2019

PREPAREDNESS LEADS TO READINESS - MATT W8DEC

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	**2** YL Brunch
3 Super Bowl L111	**4** ARES Net 8:30 PM 146.745 PL 110.9	**5** Chinese New Year	**6**	**7**	**8** WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	**9** Read in the Bathtub Day
10	**11**	**12** Ham Breakfast Eat'n Park Boardman 8:30 A.M. Board Meeting Eat'n Park Austintown 7:00 P.M.	**13** World Radio Day	**14** Valentine's Day	**15** WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	**16**
17 Daytona 500	**18** ARES Net 8:30 PM 146.745 PL 110.9	**19** WRARC Meeting 7:00 P.M	**20** WaveBender Input Due	**21**	**22** WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	**23**
24	**25**	**26** 8:30 A.M. Ham Community Breakfast	**27**	**28** This is a not leap year day! --->	WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	