



Ohio
Section
Journal

Happy Thanksgiving



- [From the Technical Coordinator](#)
- [From the Affiliated Club Coordinator](#)
- [From the Section Traffic Manager](#)
- [From the ASM](#)
- [ARES Training Update](#)
- [The Handbook Give Away](#)
- [Hamfests](#)
- [VE Testing](#)
- [ARES Connect](#)
- [From the Section Emergency Coordinator](#)
- [From the Public Information Coordinator](#)
- [From the Section Youth Coordinator](#)
- [From the State Government Liaison](#)
- [National News](#)
- [Club Corner](#)
- [DX This Week](#)
- [One Question Questionnaire](#)
- [Final.. Final..](#)



From the Technical Coordinator

Jeff Kopcak – K8JTK TC

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Hey gang,

Have you recently built something? Came up with a solution to a problem in the shack? Accomplished something new? Now, ask your club newsletter editor (or even our own Section Manager) if they are looking for content from club members. I'll bet they say "yes!" Hams are interested in good articles written by others sharing experiences with projects and adventures. You'll be surprised to find out how many other people are interested in the same thing or how it will motivate others to experiment with something similar. Believe me, it happens.



Not sure where to start? Contact the newsletter editor first. Give them some notice about your intent to write an article. It's important to find out how much space you'll have, what format to send everything (Word Doc, PDF, TXT, JPG, TIFF), and most importantly when they need it for publication. They can ask questions about the project to help jump start your thought process which will make it easier to get it down on paper. Take note of questions they ask and refer back to them if... when... you get writer's block.

Organize your thoughts and come up with some logical order to them. Chronological often works best. Jumping around and referring to events you haven't described yet will leave the reader confused and likely to move on to another article.

Introduction/problem

Answer the question "what did you try to tackle or what problem did you solve?" Wanting to build an interface for digital operation, build a portable direction finding antenna, evaluate mobile antenna mounts, build out a mesh network, learn Linux or Raspberry Pi, learn a programming language, build a timer circuit, use an SDR to add a spectrum analyzer and waterfall to an older radio, work a satellite contact, find the noise source on 40 meters – are all examples of what you might have set out to accomplish.



Research/finding a solution

How did you research the topic? Watch YouTube videos, read online posts or blogs, research in the ARRL Handbook, consult with friends or club members, attend a session or forum? Include some of the more outstanding resources you came across. Resources like a website that has a calculation tool for antenna length, tracking satellite passes, finding 6-meter openings, detailed setup and walk through video, or cloned GitHub repository.

Implementation

This is the meat and potatoes, main focus, of the article. This section should include how parts were acquired, ones that were cheaper/more expensive, better/lesser quality, substituted better parts than projects were using in your research, design changes, and trial and error antidotes.

[TOP^](#)

Diagrams used, schematics, flow charts, reference tables, and pictures are good as long as they don't take up an excessive amount of space. There probably won't be a lot of space for highly detailed graphics. If this is the case, upload high quality graphics and images to a Dropbox or Google Drive folder. Create a read only sharable link. Include that link in the article or put it at the end of the article.

Installation

Steps taken to get the project ready for final assembly and results of initial testing. How did you make the project look clean and organized? Mounting methods for the project – housing or risers/standoffs, installation issues, cable management, or system code snippets to automatically start the program. Initial test results? Did they point to a good build, point to any issues, or did you miss something along the way?

Testing

Any problems encountered, anomalies you came across, or last-minute changes? Antenna analyzer readings, triangulation techniques for foxhunting, signal strength of the next mesh node, speed tests, or were adjustments needed? Include any debugging tips that another reader is likely to encounter.

Don't be embarrassed of things you've messed up either. We have all done it. Whether its forgot a “;” at the end of a line of code and it took a half-hour or half-day to debug because the compiler though the error was somewhere else, looked at a wrong date, didn't realize the time was in UTC, let the smoke out, knocked over a propane torch... whatever the reason, it will make you appear human. Your project will stick with your reader and they'll be able to relate to problems from their own experiences. Not to mention you'll learn from your mistakes too.

Operation

What did you accomplish with your newfangled project? Did you track down that noise on 40, work moon-bounce to an exotic location, snag that DX you were hoping to get, published in a magazine because someone used your project as part of theirs, or start an industry because it was so fascinating? Final thoughts about the project. Was it worth it, would you do anything different, did it make things easier or harder?



Now that your article is written, revise, revise, and revise for spelling, grammar, and continuity.

Have others proofread and provide constructive criticism. It's hard sometimes when it's your work but they're trying to make it even better. Having peers review will help convey your message clearly and avoid making stupid mistakes. If you're still looking for examples, grab any issue of QST and follow the format of a similar article to your project. With a little work, you can become a published author and help your club out in the process!

If you would like to know more about the TC position within the Ohio Section or want to know more about the technical resources available in our section, contact myself or a Technical Specialist.

Thanks for reading

73... de Jeff – K8JTK

From the Section Emergency Coordinator

Stan Broadway, N8BHL - SEC

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SEC Report – November 2019

OHDEN 2.0

If an organization is solid and steady, doing things as it always has, that organization is not growing. Eventually it will get stale, and if a volunteer-based organization, it will see volunteers fall away and reduce their commitment. And volunteers – YOU – determine whether this thing works or not.



Today we continue to improve our training standards, to improve our accountability with ARES Connect, to improve our relationships with local agency leaders, and to improve our status as a viable communications arm for the state of Ohio and our local partners.

Eight years ago, or so, Gary Hollenbaugh, NJ8BB, had an idea that we could use new digital modes to relay messages to each other and to the state amateur station, W8SGT. So, OHDEN – the Ohio Digital Emergency Net – was founded and developed. At that time, W8SGT (The Sarge) wasn't fully developed to handle the additional load. The station has grown both in capabilities and in stature with the Ohio EMA to the point that we have digital experts on the team, and dedicated radios and antennas. Gary has become an ASEC (Assistant Section Emergency Coordinator) specifically to foster OHDEN.

Over recent years, Eldon Peterson, W5UHQ, has invested untold hours into managing the net, scheduling net controls, examining band and mode patterns, experimenting with different modes and frequencies to produce a reliable digital network that covers Ohio. Eldon basically "owned" OHDEN as his duty and concentration. We are grateful for all of that work and energy! Eldon's resignation from the Net Manager position can be used to re-birth OHDEN, and actually develop OHDEN 2.0. This will increase performance for emergencies as well as provide better service as The Sarge as an intel-gathering arm for Ohio EMA's Watch Desk.

OHDEN 2.0 – what does it look like?

Probably pretty much like it is now. It works and it's not broken, as the saying goes, so we don't need to tear it apart. But we can take this opportunity to refocus, restructure a bit, and provide for a more streamlined operation.

One of our moves comes from an analysis of traffic flow. Most of the message traffic is envisioned to flow to and from the Sarge (at the Ohio EOC). In that case it just makes sense to have The Sarge as the central point of the network. We tried that structure during the S.E.T. and it worked flawlessly. In that event, we had an "open net" running for OHDEN (no strict net control, etc.) and messages were sent to The Sarge from all over the state. It worked very well to prove the concept. Gary and I both agree it makes sense to center the net at the Ohio EOC. We will be dedicating manpower in any activation to maintain the digital side of the operation.

While we refocus the net to The Sarge, we're actually working on a concurrent program (both voice and digital) to create "Force Multipliers." These are stations around the state, perhaps one or two per district, who are excellent operators and who can step in as net control stations under many different conditions.

[TOP^](#)

In periods where someone else is NCS, these stations can serve as official relay points around the state to help pick up calls that NCS can't hear. This will become far more important over the winter months when the bands are not exactly 'hopping'. So we are looking for those operators- if you would like to be involved, please send me an email (n8bhl =at= arrl.net) and let me know!!

We believe that these simple reorganization steps will provide a solid foundation as we look into further changes... perhaps operating in a faster mode (MT63, Olivia 4 or something) while concurrently managing traffic or other operations at a different spot on the waterfall with trusty and dependable Olivia 8-500. Gary will be looking into other possibilities as well. He has always envisioned something like a "District Station" who directly interacts with The Sarge, while other stations in each district funnel traffic to their district station. If you have been on the net and have observations or suggestions, PLEASE know that they are very welcome!! Let us hear your ideas! We'll make sure any ideas are proven in concept, tried and evaluated before just randomly tossing them out there.

I want to encourage all our digital operators that this is a great time for OHDEN! Please hook up with the OHDEN page on Facebook, and get in touch with our website which is now attached to the Ohio ARRL Section web: <http://www.arrl-ohio.org> Look for the OHDEN button on the very front page. We'll be updating the information there very quickly, so give us a minute to get our act together there ☺

I think this is an exciting time, and we can take this opportunity to make some calculated growth take place. All of this will better serve our partners across Ohio!

If you're going to join any organization, it seems to me that you should act on your commitment to be a part. Yeah, it takes time and a little effort. But it's worth it! I thank those who show their commitment every day, every month! I urge those who lay back to get involved... it will be worth your time.

73, Stan N8BHL

You can view all of the SEC's monthly reports on the website.. <http://arrl-ohio.org/SEC/default.html>

From the Affiliated Club Coordinator

Tom Sly, WB8LCD - ACC

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At the November 11th PCARS meeting, we had the distinct pleasure of having Scott – N8SY – OH Section Manager, Dale – WA8EFK – Great Lakes Division Director, and, Tom – W8WTD – Great Lakes Division Vice-Director all in attendance! It was a very special



occasion as Dale and Tom were there to honor our OH Section Manager Scott with the ARRL Knight Award. I hope you will all join with us in congratulating Scott for receiving this prestigious award. It was certainly earned, and well deserved. Congratulations Scott!



Here's another thing that happened at our meeting: being it was the meeting where we have our annual election of officers, I was elected President of PCARS for the 2020 year. I only mention that to point out the fact, that as ACC I am not just someone who writes an article, I am in the trenches with all the rest of you who are club officers and club members whose goal is to make your club successful. We all face the same issues and need to connect to each other to offer support and share the ideas and activities that will make all the clubs in the OHIO Section stand out in the ARRL and to the hobby in general!

We consider Amateur Radio a "Hobby". From the dictionary, a "hobby" is an activity done *regularly* in one's leisure time for pleasure (emphasis is mine). "Amateur" comes from the French language and means "Lover of". An "amateur" generally is considered a person who pursues a particular activity or field of study independently from their source of income. Amateurs and their pursuits are also described as popular, informal, self-taught and hobbyist. Sometimes the word "amateur" is used to describe someone who is not professional, maybe even sub-standard.

Let me start by talking about *you*, the individual Ham Radio Operator. How do you see yourself? How do you think other hams see you? Finally, how do you think the general public views you, in the context of your hobby?

Unfortunately, I don't think that the general public has very much of an awareness of what Amateur Radio is, or that it even exists! (This is an issue that needs a "top down" solution, meaning the national ARRL, Divisions, Sections and local clubs need to have a structured and consistent PR strategy to get the word out to the public as to who we are and what we do.) From the general public's point of view, I think the basic perception is that we are stuck in the past, anti-social, introverted, and not a factor in today's world. They think of us in the derogatory sense of the word "amateur". As individual Hams we need to present ourselves to the public so that instead of the sub-par amateur, they see the "lover" of the art and science that make up Amateur Radio!

To accomplish that, each one of us needs to step up our game as Amateur Radio Operators! To truly be in touch with the hobby, we need to "regularly" participate in it. Get on the air, go to the club meetings, participate in the activities. This is our chosen avocation! Act like it. I know all the typical diversions that we all face that keep us away from these things. But they don't keep us off the golf course, they don't keep us from participating in amateur sports, or even being a sports spectator, hey, that's easy, just grab some snacks, sit on the comfy couch and be entertained for hours. And therein lies at least part of our problem – our entertainment-based society makes it too easy to waste our time doing essentially nothing! Ham Radio is our (my) chosen hobby. It's what I want to do and it's what I enjoy doing. But I'm easily led astray. I might think I'm too tired, don't have the time or I deserve to just sit there and vegetate. Kids and grand- kids, spouse and pets, they all make demands on our (my) time.

Almost anything in life that is important requires discipline to accomplish. Ham Radio is no different. To be a successful Ham Radio operator you need to spend time on the air! You need to discipline yourself to believe that it's important enough to do what's necessary to make it happen. One week has exactly 168 hours in it. If you committed yourself to spend 1 hour a day concentrating on your chosen hobby, Ham Radio, you would still have 161 hours every week for everything else! That 7 hours is just slightly more than 4% of your total week. You could do an hour every day, or 7 hours all on one day. It doesn't really matter, but you need to do it each and every week. It needs to become a habit. Commit to it. Prove to yourself that Ham Radio really is your hobby!

[TOP^](#)

I know that especially at first, finding that 7 hours a week is going to be a real pain. But, 2 years, 5 years, 10 years, 30 years from now, you will realize that that pain of discipline is much more bearable than the pain of regret! Besides, if you want to be a real member of the Amateur Radio community, you've got to get your call out there. You've got to be doing the things that Hams do. You've got to be learning the things that Hams know. How are you going to help your club to be successful if you can't even be successful as an individual Ham Radio operator?

Now, let me tell you some of the things that you can do, on your own, as a Ham Radio operator that will help you to be, and feel successful in the hobby. Learn. Everything we do as a Ham has a learning curve to it. If I say spend that hour "working DX", then you will have to learn as you go along, how to work DX. How to set up a station that can be successful at working DX. How to find out when and where the DX will be available, how to get confirmation that you worked the DX. Work the satellites. All the same things to learn, just a different venue. Participate in contests, work QRP, Digital, CW – all the same things to learn, just different venues. When you do all these things you will get to be known by the other hams in your community and on the air. They will get to know you as you ask for help and give help to others.

Believe me, the more successful you are in any, or all, of these activities, the more fun you will be having with your hobby, and later in life you won't have to regret that you never worked your DXCC. That you never talked to someone via a satellite or on the space station. You'll look back on all the fun you've had. Going back to the beginning of all of this, Amateur Radio is our hobby. We do it to have fun and because we "love" the art and science of radio communications.

A Ham Radio club should have as one of its primary goals to help its members have fun with the hobby.



Regardless of their level of competence at any endeavor, most people have more fun with it when they are in an environment of helpfulness and encouragement. Every club should strive to have a culture where everyone who is a member or even a visitor is made to feel welcome. Once you get your license it should be like you've just joined a fraternity. If you're a Tri-Lam from Adams college, you should be welcomed and accepted at the Tri-Lam house on any other campus in the country, or even in the world! So, at your next club meeting, put a big smile on your face. Shake hands and/or welcome everyone to the meeting. Offer some words of encouragement, tell someone they did a good job, invite someone to over to your shack for some operating time, or just to check out your latest project! Get to know the other members of the club.

Now's the time to start building some excitement for your next year's club program. Start nailing down your meeting speakers so you can promote at least 1 or 2 months out. Even if you can't nail down speakers that far in advance, try to work up a list of topics you would like to cover at future meetings, then make sure you pull it off! The point is to be intentional about what your club will be doing. If your meetings and activities happen by accident, or just coincidence you'll find that your attendance is not intentional, but just happens by accident. Give your members a reason to mark their calendars ahead and make the club meeting a priority.

Besides the club meeting, most clubs should have at least one other activity per month. Again, it needs to be intentional, it needs to be interesting and fun, and it needs to be promoted far enough in advance that your members can put it on their personal agenda. Here's a couple things to get you started: June – Field Day. September – OH State Parks on the Air (OSPOTA). December – Club Christmas Party. That's 25% right there! Other ideas, project build day, Special Event station, Summer club picnic, Contest operations, trips to other stations.

You should have at least one Technician Class and one General upgrade class each year – get it scheduled and on your calendar so everyone can plan ahead. Nothing is etched in stone but make a plan and stick as closely to it as you can. People like to know what’s coming up and don’t like surprise changes – so put some thought into this and then make it happen.

As always, let me know what’s happening with your club. If you have a speaker, or a project or event that goes over really well, let me know so I can get the word out. No-one wants to have to reinvent the wheel. Most importantly, start your planning now to make 2020 the most fantastic year you’ve ever had. Keep it interesting and keep it fun.

“It’s time to put your butt in the chair and get on the air!”

That’s it for now. Let me know what’s on your mind. tomsly29@gmail.com

73, Tom WB8LCD

From the Public Information Coordinator

John Ross, KD8IDJ - PIC

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FROM THE PIC

ROLL THE PRESSES!!



By the time you read this, it will just about be the “unofficial” start of the Ohio Section 2020 Newsletter Contest!

If you print and mail your club’s January newsletter in December...you can start your entries into the contest. You will need two newsletters...from different months...to be entered.

You can email the newsletters or, if yours is on-line or on the web, you can send a link. The deadline for entry is June 30th, judging is in early July and the winners will be announced at the DXE Hamfest/ARRL Ohio Section Convention in Tallmadge on August 8, 2020.

The Ohio Section Newsletter Contest the oldest, longest running contest in the country and we have had many great entries and great winners. It’s a chance to show off your club’s newsletter and promote your activities and events.

Good luck to all...see you August!

[TOP^](#)

PIC PODCAST



The PIC PODCAST is still on assignment this month but in December you'll be able to hear my interview with Steve Wilson, President of Wilson Group Communications, and a judge for the Ohio Section Newsletter Contest.

Steve will talk about the newsletter contest, what he has observed for the last six years and offer some suggestions to editors and writers.

Steve is an award-winning journalist, a Pulitzer Prize nominee and a nationally recognized public relations practitioner.

It's great interview and worth the listen.

....and the winner is ONE OF OUR OWN!

Mike Love, WB8YKS, the PIO for the Southern Ohio Amateur Radio Association (SOARA) received his second ARRL Outstanding Public Information Officer Award at the club's Christmas in November dinner on November 18th.



Mike has worked hard over the last two years creating and publicizing events that that draw attention to Amateur Radio and present our hobby in the best way.

Congratulations Mike! You are great example of an ARRL PIO and we are proud to have you in the Ohio Section!

THANKS!



Saturday December 7th is SKYWARN Recognition Day... a national event to thank the many amateur radio operators that assist the National Weather Service throughout the year during storms and severe weather.

SKYWARN We have many experienced and trained hams right here in Ohio and this past year they have pretty active especially during the tornado outbreak in Dayton.

If you are a member of your local SKYWARN organization...**CONGRATULATIONS** for your efforts. We appreciate your commitment to public service and your dedication to helping the National Weather Service keeping us safe and informed.

HAPPY THANKSGIVING!!!

Yes, it's Thanksgiving...already.



It has been a great year here in the Ohio Section press room and thank you for all of your comments, suggestions and support.

[TOP^](#)

This time of year is good for me...winding down a bit and spending more time in the shack twisting the dial and listening to the world via amateur radio!

Nothing beats a dark, cold November night working the bands with a nice turkey sandwich on the bench!

Have a Great Thanksgiving!

73, John KD8IDJ

From the Section Traffic Manager

David Maynard, WA3EZN – STM

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There is an assault taking place on the future of the Winlink system and the use of Pactor.

Read more below, but first a word from some of our hard working nets.

OHIO SINGLE SIDEBAND NET

["Specializing in the first and last mile of NTS delivery in Ohio."](#)

Morning session	10:30 AM	3972.5 KHz	every day
Afternoon session	4:15 PM	3972.5 KHz	every day
Evening session	6:45 PM	3972.5 KHz	every day

OHIO HF CW TRAFFIC NETS



HF CW NETS	NET TIMES	FREQUENCY	NET MANAGERS
Buckeye Early	6:45 PM	3.580	WB8YLO
Buckeye Late	10:00 PM	3.590	WB9LBI
Ohio Slow Net	6:00 PM	3.53535	NEEDED

All net frequencies plus or minus QRM. The net information on these pages may contain errors concerning net times, dates and frequencies. I do apologize in advance for these errors and would appreciate knowing about them.

[TOP^](#)

OHIO LOCAL VHF TRAFFIC NETS

VHF NETS	NET TIMES	FREQUENCY	NET MANAGERS
BRTN	9:30 PM MON, SAT 9:30 PM WED	147.150 146.700	KD8GXL
COTN	7:15 PM DAILY	146.970	KD8TTE
MVTN	7:00 PM Mon	146.640	KC8HTP
NWOHARES	6:30 PM DAILY	147.375	N8TNV
TCTTN	9 PM Sun, Tues, Fri	147.015	WB8YYS
TATN	8:00 PM DAILY	146.670 PL123	WG8Z

BRTN	Burning River Traffic Net
COTN	Central Ohio Traffic Net
MVTN	Miami Valley Traffic Net
NWOHARES	Northwest Ohio ARES Net
TCTTN	Tri-County Traffic Training Net
TATN	Tri-State Amateur Traffic Net

There is an assault taking place on the future of the Winlink system and the use of Pactor. Here is the email sent out by RRI with information and request for action.

From: James Wades <jameswades@gmail.com>
To: Wades, James <james.wades@radio-relay.org>
Sent: Wednesday, November 6, 2019, 9:27:32 PM EST
Subject: IMPORTANT - Save our EmComm Digital Networks
PLEASE DISTRIBUTE THIS TO ALL ARES, RACES, OR OTHER PUBLIC SERVICE
COMMUNICATIONS LEADERSHIP OFFICIALS:

Does your ARES, RACES or similar local emergency communications unit use Winlink, DTN or similar digital infrastructure as a component in its preparedness and response operations? Do you have plans to do so in the future? If so, you must act now to protect this valuable asset!

Winlink and the PACTOR modes on which it is based have been around for decades and have become an extremely important tool in Amateur Radio public service communications. Two important worldwide emergency communications networks built by volunteers who donated their time and energy are predicated on its continued use. These networks, one of which is the familiar Winlink system, have been good neighbors to their fellow radio amateurs for many years.

Recently, a small cadre of individuals have sought to diminish or eliminate the Winlink program as it currently exists. Their motives are unclear. However, in doing so, they have made the PACTOR mode of communications their target. In their efforts, they have made inferences and accusations that have proven quite controversial. Most recently, they have asked the Federal Communications Commission to issue a declaratory ruling that would essentially prohibit the use of PACTOR, thereby rendering many long-standing emergency communications networks inoperative.

[TOP^](#)

Our goal is to communicate the importance of PACTOR and the networks built on its capabilities to the Federal Communications Commission. In particular; it is essential that we leverage the support of the local and state emergency management and public safety community to protect these networks from the agenda of a very small but well-funded minority of individuals.

Attached you will find a preformatted radiogram message (original email only). We respectfully ask that every Amateur Radio emergency coordinator contact his local, district or state emergency management directors, sheriffs, fire service officials, hospital agencies and other public safety officials in his jurisdiction and ask that they authorize its transmission on their behalf. It's a simple matter to pick up the telephone. Our goal is to collect a minimum of 500 to 1000 of these radiograms signed by emergency services officials throughout the United States supporting the continued use of PACTOR as an essential tool in the emergency communications field. These radiograms will be collected at a central location and included as an exhibit in a filing with the Federal Communications Commission.

YOU MUST ACT NOW TO SAVE PACTOR AND THE NETWORKS THAT RELY ON IT, INCLUDING THE WINLINK SYSTEM!! There is no time to waste.

A request for declaratory ruling to eliminate PACTOR calls for a comment deadline on December 2. This gives us only a few weeks to act and prepare a response filing. Therefore, please complete the attached radiogram form and return it by no later than November 22.

Two documents are attached. One is an example form with a standard text and simulated signature provided for guidance. The second is a fillable PDF on which you can enter the name, title and agency of the official originating the message is attached. This process only requires a few phone calls on everyone's part.

Please do NOT change the text. Simply add the required information for the signature and send the message either via a traffic net or it may be emailed directly as a completed PDF to the address shown on the form. PLEASE ACT TODAY! THERE IS NO TIME TO WASTE!

Thank you, and 73!

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On November 10, 2018 Theodore Rappaport sent the FCC a filing regarding a proposed rule change that would remove the limit on baud rate of high frequency (HF) digital transmissions. According to Rappaport there are already encoded messages that can't be read on the ham radio airwaves and this would make the problem worse. I reported on this in the January 2019 Ohio Section Journal. You can read my report at: <http://www.arrl-ohio.org/news/2019/OSJ-Jan-19.pdf>

The complaint appears to be targeting Pactor and its use in Amateur Radio. So, what is Pactor and what is the complaint all about and where is it used.

PACTOR is an evolution of both AMTOR and packet radio; its name is a portmanteau of these two technologies. PACTOR combines the bandwidth efficiency of packet radio with the error-correction (CRC) and automatic repeat request (ARQ) of AMTOR.

PACTOR is a radio modulation mode used by amateur radio operators, marine radio stations, and radio stations in isolated areas to send and receive digital information via radio. A robust network of PACTOR stations has been established to relay data between radio stations and the Internet, extending Internet access to sea based and other isolated users. PACTOR utilizes a combination of simple FSK modulation, and the ARQ protocol for robust error detection and data throughput.

[TOP^](#)

Generational improvements to PACTOR include PACTOR II, PACTOR III, and PACTOR IV which are capable of higher speed transmission. Pactor modes other than level 1 are not open source and therefore cannot be decoded by anyone who hasn't invested in a proprietary modem. PACTOR was developed by Special Communications Systems GmbH (SCS) and released to the public in 1991. It was developed in order to improve the reception of digital data when the received signal was weak or noisy.

PACTOR is most commonly used on frequencies between 1 MHz and 30 MHz.

PACTOR is a set of standardized modes used by Amateur and Marine radio operators for FSK radioteletype transfer of digital information over radio frequencies.

PACTOR radio equipment consists of an HF transceiver, a computer and a terminal node controller. Software running on the computer drives the terminal node controller. The most commonly used Amateur program for this purpose is Airmail.

PACTOR is used by Amateur Bulletin Board operators to exchange public messages, and open conversations across the world. It is also used by the NTSD (digital) portion of the ARRL's National Traffic System (NTS) to pass digital ARRL Radiograms. Newer PACTOR modes are used to transfer large binary data files and Internet E-mail, particularly via the Winlink global E-mail system.

The SailMail network transfers E-mail on behalf of Marine stations

HF data transmission by radio amateurs uses medium power (100 watts) over long distances (60 to 2500 miles). Effective radio-frequency communications over such long distances over hostile radio paths require that special attention be paid to the rate at which data is repeated and error correction. To reduce the amount of data sent, on-line data compression is utilized, along with memory ARQ error correction. By combining these open technologies, PACTOR achieves a power efficiency much greater than that of older protocols such as packet, AMTOR, or RTTY. PACTOR has a very narrow waveform and occupies the same band space as analog 300 baud packet.

Criticism

Cost is an important consideration when choosing PACTOR equipment. PACTOR I is open technology and modems can be purchased in the \$50-\$150 price range and are in ample supply. Three enhanced modes, PACTOR II, PACTOR III and PACTOR IV, are much faster but have been kept proprietary by the German company, SCS, that developed them. As a result, SCS is the only source for modems capable of these modes. The price of these modems--in some cases as much as an HF radio--discourage many potential users. As the data is compressed, and the decompression algorithm is not publicly known, the contents of PACTOR transmissions are unreadable to anyone without a PACTOR capable terminal node controller.

PACTOR Summary

Parameter	Details
Symbol rate	100 or 200 baud
Typing speed	66 wpm (300 wpm in PACTOR II)
Bandwidth	500 - 600 Hz
ITU description PACTOR	600HF1B
ITU description PACRTOR II	500HG1B

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BANDWIDTH Summary

MODE	BANDWIDTH
CW	150 HZ
SSB	3000 HZ
AM	6000 HZ
FM	5000 to 50000 HZ
PACRTOR III	2400 HZ

PACTOR III is the highest mode allowed in the US. PACTOR-III's maximum uncompressed speed is 2722 bps. Using online compression, up to 5.2 kbps is achievable. This requires an audio pass band from 400 Hz to 2600 Hz (for PACTOR-III speed level 6). The occupied bandwidth at the --40 dB points is 2.4 kHz (from 300 Hz to 2700 Hz). As can be seen here the bandwidth is greater than CW but less than SSB. So any complaint of excessive bandwidth is not a legitimate complaint.

According to Rappaport there are already encoded messages that can't be read on the ham radio airwaves. Here is a sample of what can be seen on a NTSD transmission without decoding software. This is a transmission in FSK OR AFSK code which has been around for decades, long before PACTOR, WINLINK or WINMORE.

Hello Larry, VE3GT

Latest Message: 16190; Last listed: 0

You have 3.4.062-B1FHIM\$]

; W4DNA de VE3GT (FN155_VE3GT 183

FA P VE3GT W5KAV W5KAV 826_VE3GT 432

F> B6

++

[01][21]MIKE SKED MARCH

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y[15]žQà¥[19]ú\$[22]#‡@ö;j€[07]ãp+½^[01]fòKwİBž[28]D'=[03]Ă—

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; W4DNA de VE3GT SK

de ve3gt

rMail-3.4.062-B2FHIM\$]

(am|em:h1z,g:EM68sm)

The complaint is that this text cannot be read by amateurs with simple receiving methods. However, they are complaining that the messages are encrypted or encoded messages and therefore not legal on ham frequencies.

Encrypted and encoded messages can be sent using any ham radio mode. If you have ever heard a number station send their string of numbers, you may be able to receive the numbers but the message is either encrypted or encoded to hide the meaning. My point here is that any ham radio mode can be used to send such messages so why pick on the Pactor program.

[TOP^](#)

I have run out of time and will have to continue on this subject at a later time. You can learn more about Factor and how to use it by searching the internet,

73

David WA3EZN

SECTION TRAFFIC MANAGER - OHIO

You can view the STM's monthly report on the website.. <http://arrl-ohio.org/stm/stm.html>

From the Section Youth Coordinator

Anthony Luscre, K8ZT - SYC

k8zt@arrl.net

Holiday Gift Ideas for Young & New Hams

Before we get started with this month's column, I want to address a question I periodically get from hams around the state about youth in Amateur Radio-- "is there a school, scouting group, youth group involved in AR near me?" Unfortunately, I often don't have a good answer. So I would like to start a statewide registry of school, scouting and youth group Amateur Radio groups around Ohio. But as usual, I will need your help. If you are the contact person for a youth-oriented AR group in Ohio please follow this [link](#) to fill out a registration form or if you know someone who is involved please share this link with them- <http://tiny.cc/osl-form>. When registering you will have complete control of what information will be shared with the public about your group. I will make the approved registration information available on the ARRL Ohio Section website on my cabinet page- www.arrl-ohio.org/syc/index.html. Now back to our normal monthly column...



'Tis the season of endless holiday shopping ads-- toys, cars, phones, clothes, etc. Though the list seems never-ending there never seems to be ads for new hams, especially young hams. This month I thought I might suggest a few ideas for items from inexpensive stocking stuffers to modestly priced items. When picking gifts some recipients are harder to buy for and each may have different tastes so please adjust as needed and maybe even ask first if they would like a particular gift. If you are the potential recipient of the gifts please feel free to print out a copy of this column and add notes for your own Santa.

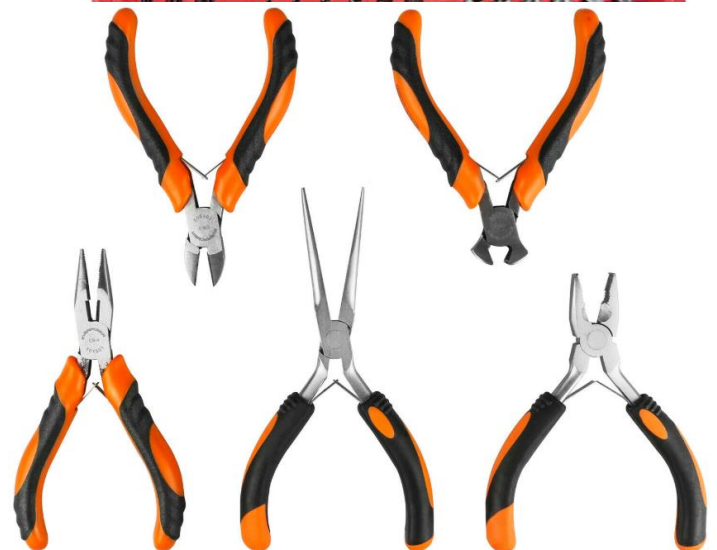
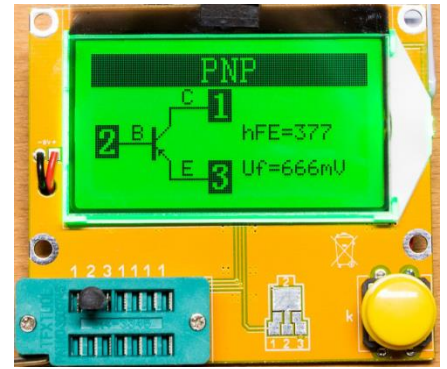
Let's start with some stocking stuffers:

1. Volt-Ohm Multimeter- probably one of the most useful pieces of test equipment the VOM can be used to measure voltage, resistance, current and circuit continuity. You can pick one up for between \$7 and \$40 depending on the quality and additional features (such as LCR features including Inductance and Capacitance). Occasionally you can even pick up one for free with coupons from [Harbor Freight](#).



[TOP^](#)

2. A 12864 Mega328 ESR Transistor, Resistor, Diode, Capacitor, Mosfet, etc. Tester. Going by a variety of names and case styles (from none at all to rather fancy) these testers allow you to test and identify a number of different types of components. These are great for sorting your junk box and salvaged free parts. Starting around \$10 and going up to \$20 you can find a variety on eBay and Amazon.
3. Multi-blade precision screwdriver set. In the 1950s all you needed was one medium slot style screwdriver. Today you will need slot, Phillips, hex, Torx, etc. bits and a variety of sizes. Prices are between \$5 and \$15.
4. Wire Cutters, Flush Cut Snippers Between \$4 and \$10 (multi-packs are great to have as these wear out)
5. Mini-pliers set \$5 to \$20



6. Inexpensive soldering kit from eBay
 - Amplified Speakers \$1.19-
https://www.ebay.com/sch/i.html?_from=R40&_trksid=m570.11313&_nkw=LM386+Super+MINI+Amplifier+Board&_sacat=0

- LM358-Electronic-Breath-Light-Training-LED-DIY-Kit-Soldering-Practice-Production- \$0.99
https://www.ebay.com/itm/LM358-Electronic-Breath-Light-Training-LED-DIY-Kit-Soldering-Practice-Production/223039892814?hash=item33ee36ad4e%3Am%3Amu8QRFk-zy-cXQ3b0_BGrjw&var=521852206012
- Digital Electronic Clock Part Module Production Kit \$3.16- <https://www.ebay.com/itm/DS3231-AT89C2051-Digital-4-6Bits-Electronic-Clock-Part-Module-Production-Kit-ASS/263885756573?hash=item3d70d1189d%3Am%3Am1hwCCI7rgEcgnvB3GBVug&var=563281666813>
- Doorbell Suite DIY Kit NE555 \$0.99- <https://www.ebay.com/itm/Perfect-Doorbell-Suite-Electronic-Production-Doorbell-Suite-DIY-Kit-NE555-GL/123151392807?hash=item1cac652027:g:gLcAAOSwCXJbBnE8>
- NE555 Oscillator Buzzer Kit 8R 0.25W Speaker (good code practice oscillator)-\$0.99-
<https://www.ebay.com/itm/NE555-Oscillator-Buzzer-Electronic-DIY-Tone-Generator-LED-Kit-8R-0-25W-Speaker/113171615899?hash=item1a598dd09b:g:fzoAAOSwZnlbWtwP>
- Mini FM Wireless Microphone DIY Kit radio \$3.58- <https://www.ebay.com/itm/Mini-FM-Wireless-Microphone-DIY-Kit-radio-Transmitter-Electronic-Circuit-500M/323328617263?hash=item4b47e32b2f%3Am%3Am0CvJzrGHfMDdKf7PMxCeRQ&var=512393605552>
- 40M CW RADIO Shortwave Transmitter/Receiver QRP Pixie Kit \$2.98-
<https://www.ebay.com/itm/40M-CW-RADIO-Shortwave-Transmitter-QRP-Pixie-Kit-Receiver-7-023-7-026MHz-E5J5/173333275180?epid=25008036679&hash=item285b77e22c:g:JTYAAOSws9BbBrAX>
- 40M CW Kit-DC9-13-8V-S-PIXIE-CW-QRP-Shortwave-Radio-Transceiver with Case\$5.29-
<https://www.ebay.com/itm/DIY-Kit-DC9-13-8V-S-PIXIE-CW-QRP-Shortwave-Radio-Transceiver-7-023Mhz-With-Ca-B3/123229450988?epid=889266685&hash=item1cb10c32ec:g:HZkAAOSwNDZbPEuJ>

7. Books

a. Technical

i. Licensing Manuals

1. [No Nonsense! Technician Class License Study Guide](#) by Dan Romanchik, KB6NU
 - a. Free PDF version <https://www.kb6nu.com/study-guides>
 - b. Kindle Version (\$9.97)
 - c. Paperback Version at Amazon (\$17.97)
 - d. Audio Book at Audible (\$14.95)
2. [ARRL Ham Radio License Manual 4th Edition](#)
3. [Gordon West Technician Class Manual](#)
4. Ham Radio School- [Ham Radio Study Guide!](#)

ii. ARRL [Operating Manual](#)

iii. ARRL- [Understanding Basic Electronics A Step-by-Step Guide to Electricity, Electronics and Simple Circuits](#)

b. Fiction

- i. Zack & Max Series (Free comic books from ICOM)
- ii. [Ada Lace, Take Me to Your Leader](#) (www.thespacegal.com/books/)
- iii. Mouse Code Paperback by Joel Howard Thurtell
- iv. [Radio Rescue](#) by Lynne Baras

- v. Cynthia Wall
 - 1. [Night Signals](#)
 - 2. [Easy Target](#)
 - 3. [Hostage in the Woods](#)
 - 4. [Disappearing Act](#)
 - 5. [A Spark to the Past](#)
 - 6. [Firewatch](#)
- vi. Walker A. Tompkins
 - 1. [Murder by QRM \(Radio Amateur's Library\)](#)
 - 2. [Death Valley QTH](#)
 - 3. [SOS at Midnight](#)
 - 4. [Grand Canyon QSO](#)
 - 5. [DX Brings Danger](#)
- vii. [The Road Home](#) by Andrew Baze
- viii. [Ghost Radio: A Novel](#) by Leopoldo Gout
- c. Nonfiction/Bio
 - i. [Contact Sport: A Story of Champions, Airwaves, and a One-Day Race around the World](#)
 - ii. [Nikola Tesla: Imagination and the Man That Invented the 20th Century](#)

Moderate priced items

1. Soldering Station. You might be saying why not go with a stocking stuffing soldering iron for under \$5? By not skimping and spending a little more money soldering can be so much more successful and less frustrating with a heat controlled soldering station. I would suggest one in the \$30 to \$75 range. Key features to look for temperature control, ESD (ElectroStatic Discharge) Safe, multiple soldering tips, iron holder and tip cleaner. Some prefer digital controls and you can even add on hot air gun and still stay in budget.



2. Heated Vacuum Desoldering Iron around \$10 to \$15

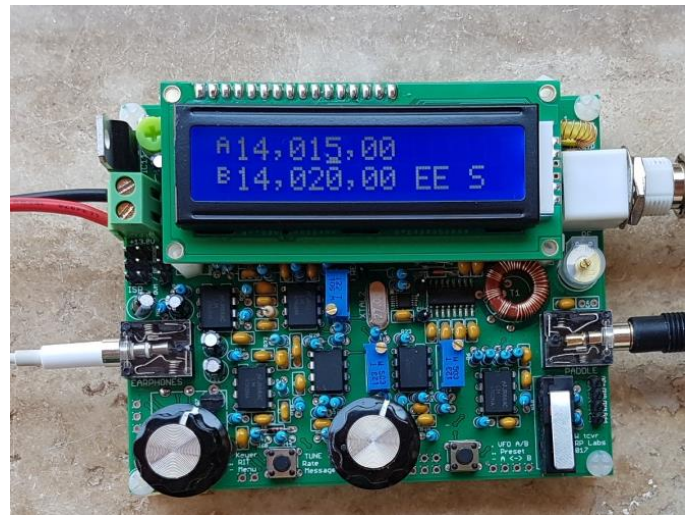


3. LCD Digital Microscope with 4.3" Screen Display and Metal Bracket great for surface mount and other detailed work. Can be used with built-in screen or via USB connection to PC. Price around \$50. Also makes a great tool for other non-radio hobbies and crafts, science projects, etc.



An [Arduino Starter kit](#) with a variety of add on sensors runs from \$15 to \$50

4. **QRP Labs- QCX 5W**, single- band, [CW transceiver](#) with built-in CW Decoder, keyer \$49 kit (\$89 built). Available for 80, 60, 40, 30, 20 or 17m bands.



This is just a small sampling of gift ideas. No matter what physical gift you choose always remember the most valuable gift you can give is your time, inspiration and guidance. So please share your time and expertise with a person or group of people, no matter their age, interested in Amateur Radio. Mentor someone, teach a class, volunteering as a VE, does a program for a local club, write an article for your club's newsletter, etc.

So, go forth, have some fun and make sure you share it with a youngster!

73, Anthony K8ZT

From the Assistant Section Manager

John Perone, W8RXX – ASM

w8rxx@arrl.net

There are a few versions of the story how we became known as "HAMS".

Here is one that perhaps makes sense. This comes from the Florida Skip Magazine way back in 1959.

Have you ever wondered why radio amateurs are called "HAMS?" Well, it goes like this: The word "HAM" as applied to 1908 was the station call of the first amateur wireless stations operated by some amateurs of the Harvard Radio Club. They were ALBERT HYMAN, BOB ALMY and POGGIE MURRAY.



At first they called their station "HYMAN-ALMY-MURRAY". Tapping out such a long name in code soon became tiresome and called for a revision. They changed it to "HY-AL-MU," using the first two letters of each of their names. Early in 1901 some confusion resulted between signals from amateur wireless station "HYALMU" and a Mexican ship named "HYALMO." They then decided to use only the first letter of each name, and the station call became "HAM."

In the early pioneer days of unregulated radio amateur operators picked their own frequency and call-letters. Then, as now, some amateurs had better signals than commercial stations. The resulting interference came to the attention of congressional committees in Washington and Congress gave much time to proposed legislation designed to critically limit amateur radio activity. In 1911 ALBERT HYMAN chose the controversial WIRELESS REGULATION BILL as the topic for his Thesis at Harvard.

His instructor insisted that a copy be sent to Senator David I. Walsh, a member of one of the committees hearing the bill. The Senator was so impressed with the thesis is that he asked HYMAN to appear before the committee. ALBERT HYMAN took the stand and described how the little station was built and almost cried when he told the crowded committee room that if the bill went through that they would have to close down the station because they could not afford the license fees and all the other requirements which the bill imposed on amateur stations.

Congressional debate began on the WIRELESS REGULATION BILL and little station "HAM" became the symbol for all the little amateur stations in the country crying to be saved from the menace and greed of the big commercial stations who didn't want them around. The BILL finally got to the floor of Congress and every speaker talked about the "...poor little station HAM." That's how it all started. You will find the whole story in the Congressional Record.

Nation-wide publicity associated station ""HAM" with amateur radio operators. From that day to this, and probably until the end of time in radio an amateur is a "HAM."

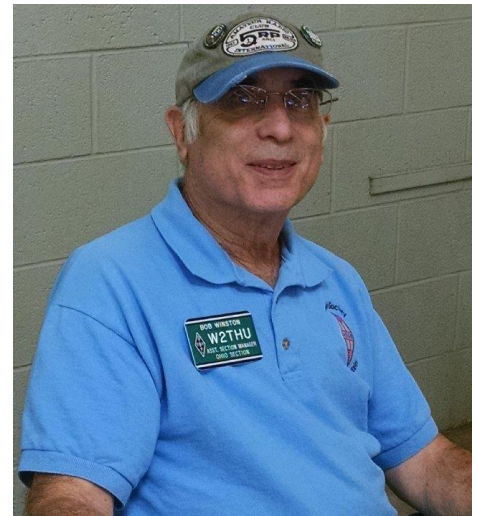
73, John W8RXX

From the State Government Liaison

Bob Winston W2THU – SGL

w2thu@arrl.net

Greetings from Perry Township here in Lake County, Ohio. The good news is that I haven't received any reports of legislation that might affect our amateur radio operations. If you have, please advise. Also, I am still looking for more Local Government Liaison (LGL) volunteers who can monitor their local legislative bodies to identify any legislation that may be harmful to our hobby. The goal, as stated before, is to have one LGL for each of Ohio's 88 counties. Let me know of your interest or any questions about the program.



Recently, I was visiting my family in Madison, Wisconsin for an extended weekend. In the 1960s I was a member of the Badger Amateur Radio Society. This student club operates W9YT, on the campus of the University of Wisconsin and I have very fond memories of operating that college station while working on my graduate degree. I reached out to the current president Skyler Hagen, KC9UOT to gain access to the shack. Fortunately, Skyler was available to let me in and we had a very nice eyeball QSO on the top floor of the Engineering Research Building. The antenna farm is right outside the shack, approximately 160 feet above local terrain, with an enviable view of the entire campus, including the state capital building about a mile to the east. I am reminded of W8EDU, the ham station at Case Western Reserve University in Cleveland which is similarly situated on the top of Glennan, which is also an engineering building on the CWRU campus.



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As mentioned in a previous article, my interest in seeing W9YT remain active extends to all college amateur radio stations. The ARRL has supported this goal through the Collegiate Amateur Radio Initiative (CARI). Check out the Facebook group, ARRLCARI to see which colleges and universities are active and how they are promoting ham radio. You can start with W8EDU right here in Ohio. Is your favorite college on the air?

Happy Thanksgiving to all!

Best 73, **Bob, W2THU**

ARES Training Update

Jim Yoder, W8ERW – ARES Data Manager

w8erw@arrl.net

ARES Training Update

When you think of it, Amateur Radio is an extremely diverse and broad subject. We hams can play radio with just about anything imaginable. Technology is no stranger to the Hamshack. When we see a need, we go find something to satisfy it. Sometimes it's quite simple and often does not require circuitry to accomplish the desired effect. We can hang an antenna just about anywhere with a bow and arrow, slingshot or spud gun launcher. Repurpose is more often than not the answer when we find a void or a problem in our pursuit of this wonderful hobby.



I've been playing a lot with the AREDN MESH network (a repurpose of off the shelf Wi-Fi routers) and when deployed in the field, there is often no internet access. Normally this may not be much of an issue. Sometimes though and especially when using one of the digital modes, accurate timing is important. Timing is a benefit of having internet access as most devices will acquire an accurate time reference directly from the internet, (NTP Server). One alternative to gaining an accurate time reference can be had utilizing a Raspberry Pi, real time clock module and a GPS hat. There are many sources readily available now for all three elements of this solution.

Another means which has additional benefits is to use a cellular data hotspot. Both Amazon and eBay have many of these available. They provide cellular data (internet access) via the device and a SIM card from AT&T or other cellular service. Unlimited access plans are available for anywhere from \$36 to \$65 a month. The speeds offered aren't as fast as what your cable provider offers, but it works well and I find that I can consistently see speeds of around 15 MBPS. I've been using my device in an orange plastic ammo can for several months. The hotspot acquires a cellular data connection on the AT&T 4G network and also provides a router with Wi-Fi, all in a small footprint with diversity antennas, 2 each for cellular and Wi-Fi. I connect my AREDN MESH node and a Hamshack Hotline phone to one of the 4 wired ports and have 2 ports left for other devices as may be necessary. The AREDN MESH node also provides wired ports with internet access. I have found this package useful when mobile and while traveling. The AREDN MESH node is configured with a tunnel connection back to my shack and our local county network. It also supports the DMR Hotspot nicely.

No, it isn't quite Amateur Radio. The intent is to make something work where it ordinarily would not and add to our bag of tricks and readiness capability.

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We are wary of anything that could go away during an emergency situation and while this solution is Internet, it is also mobile and capable of moving out of the affected area and maintaining internet connectivity. A well designed AREDN MESH network also incorporates an internet connection at most of the stationary nodes making internet access diverse and redundant to each of the MESH connected nodes.

Our training numbers continue to increase although the 2019 numbers are not near as large as 2018. We have plenty of room for growth however as ARES Connect registrations are increasing as well and the new members mostly have not begun to work on their NIMS training. Advancement to Level 3 is slowing also as are completion of the several advanced course certifications.

My guess is that we have many more Ohio Hams involved in ARES than are registered with ARES Connect and that we probably have quite a few Hams who have not submitted certificates that they may have already obtained. Let's make a push in the last two months of this year to run all these numbers up and once again show the world how Ohio Hams meet a challenge.

As of this writing, I have logged 8,834 certificates in the ARES training database. I also issued a challenge this week to get us over the 9,000 mark by year end. Along with that challenge there is an incentive and the Ohio Amateur who submits the 9,000th training certificate will be receiving a prize suitable for the achievement. I have not yet decided what exactly the prize will be, but it will be something worth your effort for helping attain the goal I've set. I suggest you submit your certificates early as those lurkers who have not submitted certificates, they already have will be coming out of the woodwork. So, my fellow Amateurs, let's kick this out of the park for year end and see just how high we can go. All certificates count. If you have many, submit a FEMA transcript and save yourself some time. Dig them out of your files or get on the FEMA website and request a transcript. Keep me busy the rest of the year as I enter all the course completions into the ARES training database.

As always, your questions and or concerns are welcome. I also extend my best wishes for a wonderful and joyous Holiday season to each of you and your families along with my sincere thank you for the tremendous effort and ARES support that is always evident in our Ohio Section.

73 and may God Bless,

Jim W8ERW
w8erw@arrl.net

National News
(from arrl and other sources)

Ohio's State EOC Turning 25

The State of Ohio Emergency Operations Center (EOC) has turned 25 and we're celebrating with an Open House and Dedication Ceremony... And you are invited.



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WHAT: Ohio EOC's 25th Anniversary Open House

WHEN: 11 a.m. to 3 p.m. Tuesday, Dec. 10. Ohio EMA Executive Director Sima Merick will preside over a Dedication Ceremony at 1:30 p.m.

WHERE: State of Ohio EOC, 2855 West Dublin-Granville Road, Columbus, Ohio 43215.

WHY: Ground-breaking for the facility occurred in 1993 and the ribbon cutting took place in the fall of 1994. This year Open House and Dedication Ceremony will celebrate the partnerships that went into the construction and modifications of this facility that have taken place over the last quarter of a century.

#####

Nominations Invited for CWops Award for Advancing the Art of CW



CWops is now accepting nominations for its Award for Advancing the Art of CW for 2020. The award recognizes individuals, groups, or organizations that have made the greatest contribution(s) toward advancing the art or practice of radio communication by Morse code. Candidates for the award may be authors of publications related to CW; CW recruiters, trainers, mentors, coaches, and instructors; public advocates of CW; organizers of CW activities; designers and inventors who advance the art or practice of CW, and other contributors to the art or practice of CW. The award is not limited to radio amateurs or their

organizations.

Email nominations with a **copy** to the CWops secretary. To be considered, a nomination must be received by March 18, 2020. It should include name(s) and call sign(s), if applicable, of nominee(s), and complete contact information. A detailed explanation supporting the nomination should be included along with the name, telephone number, email address, and call sign of the person submitting the nomination. An award presentation will take place at the 2020 **Dayton Hamvention®**.

#####

Melissa Stemmer Joins ARRL Headquarters as Development Manager

Connecticut native Melissa Stemmer has joined the ARRL Headquarters staff as Development Manager. Born and raised in Waterbury, Stemmer earned a bachelor's degree in pharmacy from the University of Connecticut in 1998, and she worked in that field for more than 15 years. After deciding that a career change was in order, Stemmer went back to school, earning a master's in organizational leadership in 2015 from Quinnipiac University.



"I am so excited to be on this journey at ARRL, and I am looking forward to getting to know everyone," Stemmer said

Before coming to ARRL, she was the development director at Seven Angels Theatre in Waterbury. In September 2015, Stemmer signed on as coordinator of the theatre's annual High School Halo Awards — the largest high school theatre award program in Connecticut.

During her tenure at Seven Angels Theatre, Stemmer was an active member of the Waterbury Regional Chamber and the Waterbury Exchange Club. She served on the executive committee and governing council of the Arts and Culture Collaborative of the Waterbury Region and was a member of the Young Professionals Task Force of the Waterbury Region.

#####

ARRL Legislative Advocacy Committee Drafting New Bill Addressing Antenna Restrictions

The ARRL Board of Directors Legislative Advocacy Committee is in the process of drafting a new bill to address the issue of private land-use restrictions on amateur radio antennas. The proposed legislation would be the successor to the Amateur Radio Parity Act.

The Legislative Advocacy Committee, chaired by Pacific Division Director Jim Tiemstra, K6JAT, will report to the Board soon, once plans are fleshed out. Tiemstra told the ARRL Executive Committee (EC) on October 12 in Aurora, Colorado, that Advocacy Committee members have traveled to Washington to meet on multiple occasions with members of Congress and their staffs to inform them of the committee's plans.

ARRL Washington Counsel Dave Siddall, K3ZJ, told the EC last month that he understands the conditional exemption of amateur radio licensees from the RF exposure measurement requirements in the FCC's Part 97 Amateur Service rules is proposed to be removed. A *Report and Order* in FCC Docket WT 13-84 is making the rounds that, if adopted, would make amateur licensees subject to the same requirements as all other FCC licensees. The *Report and Order* is expected to be released before year's end.

Siddall also reported to the EC that the FCC is poised to address the 60-meter band amateur allocation adopted at World Radiocommunication Conference 2015 (WRC-15). The National Telecommunications and Information Administration (NTIA), on behalf of US government primary users of the band, has insisted that the maximum permitted power for radio amateurs must not exceed that agreed to at WRC-15 — 15 W effective isotropic radiated power (EIRP) or 9.1 W ERP — despite the fact that Canada has authorized its amateur licensees to use 100 W, and eliminate the current discrete channels, which ARRL's petition proposed to retain. NTIA oversees federal government frequency allocations and users.

The Handbook Give Away

Hey Gang,



Thanksgiving is coming up very soon and I want to do something special to celebrate! So, we're gonna' have a special drawing just for Thanksgiving! Now, here's the really cool thing, if you register early and before Thanksgiving, you'll be registered for the end of the month drawing as well! Oh, and YES, the drawings will be for the new 2020 softcover ARRL Handbook!



Is there a catch? Nope! I want to get everyone checking in to the Ohio Section website as often as possible, and in order to register each month, you have to visit the website often! There's nothing else to it. I pay all expenses and I usually "Give Away" more than just a Handbook too!!

[TOP^](#)



Many of you ask me just how do I know when the drawing is on? Well, that's easy all you need to do is check in on the Ohio Section Website on a regular basis and watch for the big **RED** Arrow that will appear soon on the left side of the page. This is the sign that the drawing is on and you need to get registered. So, keep a sharp eye out on the website and check in often!

Club Corner

This is YOUR corner of the newsletter. Send me what your club is doing and I'll make sure that it gets in. Got a special event or club project that you want everyone to know about? Send it to me!. Need help with a project? Send it to me.

Let me know what you club is up to. Are you going to have a special guest at your meeting or are you having a special anniversary? Just sent it to: n8sy@n8sy.com



#####

Skywarn Recognition Day 2020 - THE FINAL YEAR AT HOPKINS

Skywarn Recognition Day will be taking place nationally on Saturday, **December 7th, 2019** for 24 hours starting at 0000Z (Friday, Dec 6th, 7:00 PM Eastern until Saturday, Dec 7th, 7:00 PM Eastern). The NWS Cleveland Office will be participating from 12:00 PM until 7:00 PM on Saturday, December 7th, 2019. We will be operating under the call sign WX8CLE and will be active on UHF, VHF, and HF (HF bands to be determined later). We will also periodically spin the dial on local repeaters.



Just like last year, we will operate UHF/VHF inside the office and HF outside in the new vehicle. Anyone interested in attending is encouraged to sign up here, but since we will be partially operating from outside, last minute walk ins are welcome. Access to the inside of the building will be restricted based on attendance as the operating area can only accommodate a certain number of people at once.

Additionally, any sort of severe weather event could potentially result in us cancelling the operation. Those who sign up will be advised of any last-minute changes, or we can be contacted on the Skywarn simplex frequency of 146.475 (we will do our best to keep a radio on this the entire time).

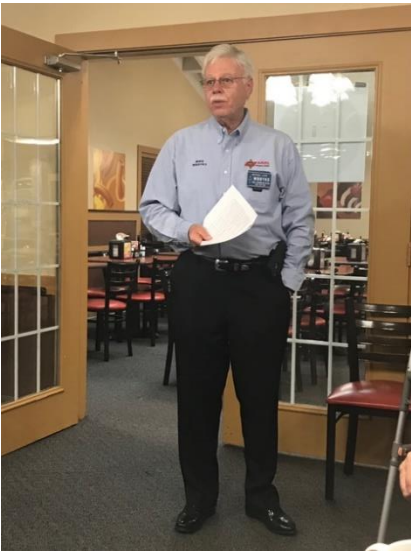
When you arrive on site, please check in with the operators in the vehicle. They will then arrange access to the building should you desire to come inside. if no one is present, call us on 146.475 simplex.

As you may know, the Cleveland NWS office will be relocating in spring 2020 so this will be the last time to operate from the office at the airport!

The address for the National Weather Service Cleveland is 5301 W Hangar Rd, Cleveland, OH 44135. This is off of Brookpark Rd, between NASA and Hopkins, behind the UPS hangar.

#####

Southern Ohio Amateur Radio Association's (SOARA) "Christmas in November" Dinner



The Southern Ohio Amateur Radio Association's "Christmas in November" dinner was a huge success last night. There were 24 attending the dinner who sat around the table enjoying a banquet of delicious food and sharing stories with one another. It is that one time of year that we are able to assemble and enjoy one another's company.

The SOARA officers for 2020 (same as 2019) were introduced.

Tim Nicely AC8VQ, President
Jerry Locker W8HIC, Vice President
Dave Bruce KD8NYN, Treasurer
James Reneau N4REN, Secretary
Trustees: Tim Nicely AC8VQ and Randy France KD8VRU



The program provided updates from:
Arthur J. Pierson
N8LRO 2009 Ironton
Lawrence County
Memorial Day Parade
Commander and Past
SOARA President
Fred Jones WA4SWF
Lawrence County,

Kentucky ARES PIO Eddie Jenkins N8URU Lawrence County,
Ohio ARES, EC Jeff Slattery N8SUZ Ohio Section ARES District 8 EC James Rowe N8TVO Net Manager and
2020 Ironton Lawrence County Memorial Day Parade Commander and past SOARA President





Scott Yonally N8SY Ohio Section Manager was the keynote speaker for the evening.

Mike Love WB8YKS served as Master of Ceremonies.



Additionally, there were three special presentations: Scott Yonally, N8SY Ohio Section Manger, Jeff Slattery, Ohio Section Amateur Radio Emergency Service District 8 Emergency Coordinator and Michael Love WB8YKS, Public Information Officer.

#####

PCARS - Center of Hope Contribution



Thanks to everyone who contributed to the Center of Hope this year!!

With the support of individual and business donations and our November 50/50 we were able to give the Center \$8,350.

The presentation was made at our club site on Tuesday November 20th. Mark Frisone, Executive Director, was ear to ear smiles as we made the presentation. He said it would help feed a lot of people in need in Portage county and expressed

thanks for the on-going support PCARS has given to the Center of Hope

I would also like to thank Nick AC8QG and Paul KE8EGF for joining me in the presentation.

#####

Ironton Lions Club Christmas Parade, Monday, December 2, 2019

The Ironton Lions Club Christmas parade will take place on Monday, December 2, 2019. As in the past, the Southern Ohio Amateur Radio Association (SOARA) and Amateur Radio Emergency Service (ARES) members are requested to provide communications to assist with the coordination of the event as well as safety.

James Rowe, N8TVO is the Communications Liaison. He has requested that HAM's meet at the parking lot between fourth and Railroad Streets at 5 PM.



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This is a rain or shine parade; therefore, he recommends dressing accordingly. We will be using the downtown SOARA 440 repeater frequency 444.625 tone 103.

Eddie Jenkins ARES, EC, said “We also consider this event to be a cold weather exercise. It is a wonderful opportunity to go through our ham gear and clothing to ensure that we have everything we need in the event of an emergency activation during cold weather.”

This is a fantastic event and one that normally draws several kids, said James Rowe. He went on to say, “Santa, of course, will be there as well. As far as I know there will not be any ham gear given away that evening but maybe there will be something under your tree on, December 25.”

Once again, this is a wonderful opportunity for SOARA and ARES members to display to the public what they do best, said Keith Brooks N8DKB Assistant, EC.

Please plan on participating and advise James Rowe N8TVO, Parade Communications liaison.
N8TVO@yahoo.com

All Hams Welcome! Please share!!

#####

Be Kind To Your Housekeeper When Traveling



As a license exam volunteer living in Dayton, I was delighted at last year's Hamvention attendance of 34,000 plus. A large majority of attendees traveled from out-of-town, as I did for decades before retiring here. Many thousands stayed at our local hotels. A portion of those may not travel regularly.

This is a gentle reminder to Hamvention visitors to remember your hotel housekeepers. They have strenuous jobs, receive low pay and room occupants demand high standards.

A daily cash tip left in your room (housekeepers may change each day) of \$2 or \$3 is both customary and the right thing to do. Throw in an extra buck at a high-end hotel, if you leave the room messy or it has three or more occupants. All those who work hard to make Dayton's busiest visitor weekend more enjoyable should remember hams as the appreciative and thoughtful guys and gals.

Neil D. Friedman, N3DF
Dayton, Ohio

#####

Mike Love, WB8YKS Named “Outstanding PIO” for the Ohio Section

At their annual Christmas in November party Scott Yonally, N8SY the Ohio Section Manager presented the “Outstanding PIO” award to Mike Love, WB8YKS.

Mike has been the Public Information Officer (PIO) for the Southern Ohio Amateur Radio Association (SOARA) for several years. Yonally noted that Mike’s excellent work with the clubs in the area, as well as being the inspiration for several really successful special events “Covered Bridges in Ohio” and “Court Houses on the Air” made him stand out above and beyond all other PIO’s.



As the award describes *“Mike has dedicated his time, talents and services to clubs in his area and to the Ohio Section of the ARRL in a manner that exemplifies the spirit of Amateur Radio and Public Service”*

Yonally also noted that this was the second year in a row that Mike has been presented this award, which speaks volumes about the great work that Mike continues to do.

Upcoming Hamfests for 2019

12/07/2019 | Fulton County ARC Winterfest

Location: Delta, OH

Sponsor: Fulton County Amateur Radio Club

Website: <http://k8bxq.org/hamfest>

Upcoming 2020 Hamfests

01/19/2020 | Sunday Creek Annual Hamfest

Location: Nelsonville, OH

Sponsor: Sunday Creek Amateur Radio Federation

01/26/2020 | Tusco Amateur Radio Club's 30th Annual Hamfest, Electronics and Computer Show

Location: Strasburg, OH

Sponsor: Tusco Amateur Radio Club

Website: <http://www.tuscoarc.org>

02/16/2020 | Mansfield Mid-Winter Hamfest

Location: Mansfield, OH

Sponsor: Intercity Amateur Radio Club

Website: <http://WWW.IARC.CLUB>



DX This Week

(from Bill, AJ8B)

DX This Week – LU7YS Interview

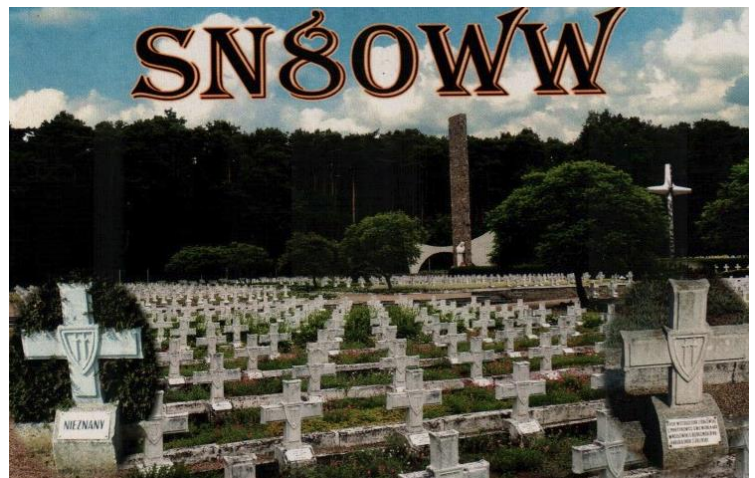
Bill AJ8B (aj8b@arrl.net, @AJ8B, or www.aj8b.com)

CWOPs Member #1567



DX Spots that originated in the Midwest included Afghanistan, Alaska, Antigua & Barbuda, Australia, Belgium, Bonaire, Bulgaria, Ceuta & Melilla, China, Cocos (Keeling) Islands, Cyprus, European Russia, Faroe Islands, Fiji, Finland, Ghana, Greece, Hungary, Indonesia, Japan, Kuwait, Latvia, Madagascar, Marquesas Islands, Martinique, Mauritania, Mauritius, Micronesia, Niger, Nigeria, Oman, Poland, Qatar, Republic of Korea, Reunion Island, Saba & St. Eustatius, Saudi Arabia, Sicily, Slovenia, Sweden, Tanzania, Temotu Province, Trinidad & Tobago, Ukraine, Vanuatu, Vatican City, and Vietnam. Remnants of Cycle 25 are starting to appear. I can't wait!

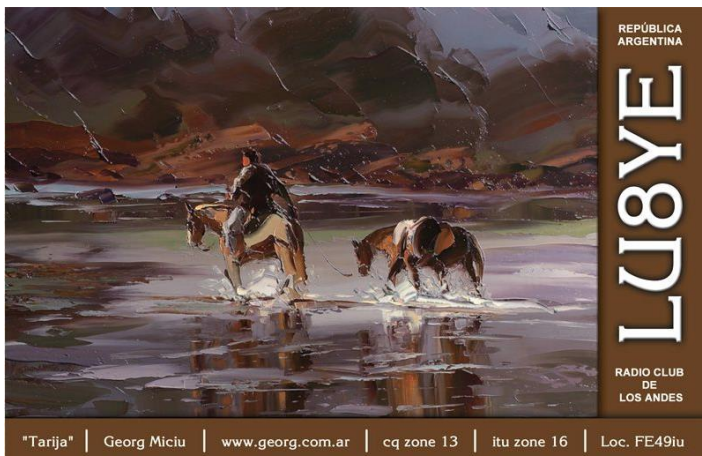
This week, the mailman delivered ZS2PE – South Africa, ON4ADN – Belgium, VK3DQ – Australia, DL3DXX – Germany, and SN80WW - Poland. (Pictured) The SN80WW QSL card is a commemorative card celebrating the 80th anniversary of the start of the Second World War.



What did you get? Send me an image and some details!

This week I am including the interview with LU7YS, Sergio. I have worked LU8YE many times and have worked many of the members of this club as well. There are three characteristics to this group of talented amateurs—They are all excellent operators, they have excellent signals and they have outstanding QSL cards! Please visit their qrz.com webpage and look at the excellent pictures. You can contact them at lu8ye@hotmail.com. Thanks to the SWODXA DX Group for permission to reprint this interview.

Interview with Sergio-LU7YS of LU8YE—Radio Club de los Andes



AJ8B: How did you first get interested in amateur radio?

LU8YE: I started listening radio amateurs when I was 13 years old (1977) in the 40-meter band in AM with a tube broadcast receiver

AJ8B: When did you get on the air?

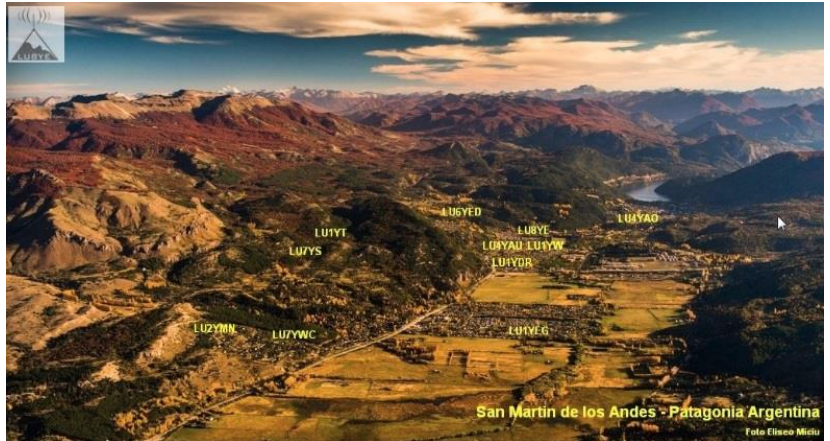
LU8YE: The first QSOs were in 1978 when I did the course to obtain the license of the Radio Club in my city, in 80 meters AM

AJ8B: How was the Radio Club de Los Andes formed?

LU8YE: The Radio Club de los Andes was formed in 1985 due to the interest generated by the installation of a VHF repeater on the Chapelco mountain

AJ8B: There is a beautiful picture of the valley on the LU8YE QRZ.com webpage. It would appear that you have excellent take off angles in all directions. What is propagation like for you?

LU8YE: The location of the Radio Club is quite good, we have a low noise level and in general we have no difficulties to contact everyone, of course we are at 40° south latitude and that is the point that complicates us, the furthest from the line of Ecuador the propagation conditions are less favorable



AJ8B: You are an extremely accomplished contester. Any secret to your success that you can share?

LU8YE: I think the passion for the activity, insistence and learning have helped me, fortunately I still have the same enthusiasm as in the beginning

AJ8B: Describe what your favorite band:

LU8YE: 80 meters is my favorite band for DX contacts in CW, from Argentina we are few HAM's in this band and I have very good possibilities from here, I am always in band every day, anyway, each and every one of the bands excites me, each one has its particularity, difficulty and benefit

AJ8B: What advice do you have for those of us trying to break pileups to work DX?

LU8YE: You always have to try to understand how the operator of that DX station works, you have to be patient and find the right strategy, although there is always some luck for you to listen to us, know how to locate us on the correct frequency and call at the right time it is indicated

AJ8B: Any QSLing hints?

LU8YE: LoTW is the answer, stop accumulating boxes and boxes of cards and stop spending money on shipments

AJ8B: What coaching/advice would you give new amateurs?

LU8YE: Listen and listen, pay attention to how those who stand out, respect the rules and participate in the most contests, a lot of radio and passion are the secret

AJ8B: You have open invitations to join the team for a weekend contest, hotel accommodations listed on the website as well as beautiful pictures of the surrounding area. Have you gotten many visiting hams?

LU8YE: We received many Hams from Argentina and Chile, they have visited us from Italy, Netherlands and USA, Patagonia is magical and attracts many people from all over the world, we want the Ham's to discover this wonderful place and our culture that It stands out for friendship and affection.

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AJ8B: I have been fortunate enough to work many of the club members and they all have paintings from Georg Miciu on their QSL cards. What is the local connection to this talented artist?

LU8YE: Georg as well as being a great artist is a fantastic and humble person, when we have asked him for images of his works for the QSL cards he has put all his collection at disposal, in his youth his study partner was Ham and he has very good memories of amateur radio

AJ8B: Thanks for taking the time to answer my questions. Is there anything you would like to share with us?

LU8YE: Our small Radio Club we have built with effort, passion and love, we invite the HAM of the world to visit our city in the wonderful Patagonia and they can access our radio station and enjoy our dinners with delicious homemade meals with great Argentine wines, It is without doubt a tempting offer!

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Here is an update from Bernie, W3UR, of the DailyDX and the WeeklyDX, the best source for DX information. (<http://www.dailydx.com/>) Bernie has this to report:

FM – Martinique - TO5A is the special call for the ARRL SSB Contest March 7-8, 2020. Operator F5VHJ plans to go single op all band. QSL to his home QTH, F5VHJ that is, or go through LoTW or OQRS. Within the USA, you may QSL to WA6WPG.

5B – Cyprus - 5B60 is a special prefix Cypriot hams may use during all of 2020. CARS president 5B4AHZ says 2020 is a special year for the island, 60 years since its establishment as an independent nation.

VK9 – Cocos (Keeling) Island - The VK9CZ has been pirated on 40 meters. Many US stations worked this one on 40M FT8 between 2130-2230Z November 13. None of those are in the actual VK9CZ log.

T3 – Western Kiribati - [T30ET](#) from Tarawa Atoll is planned for March 18 to April 2. This appears to be a major DXpedition. 5B4ALX says departure is March 15 via Singapore, Brisbane, and the Solomons. The operator plans to be on the air the same day he arrives, March 18. Alex will have two stations with seven antennas to choose from, a low-angle VDA and monobanders. One station will be dedicated to FT8 and FT4 throughout the day. There will be a focus on NA and EU on the greyline on 160, 80, 20 and 17. The QSL will be high quality and four sided. There will be an “instant LoTW upload” for donors and real-time log online. Seeking donations, Alex explains the benefits, free OQRS for donors of more than 5 euros, free LoTW upload, priority LoTW updates for the top donors, and a personalized certificate of appreciation via email for donations of more than 15 euros. Foundations and corporate donors will have their name printed on the QSL, and there will be a free video for download for top donors. The gear is 100 kilograms, an expensive proposition, 15,000 USD cost for the shipping. The 425 DX News adds that T30ET will operate FT8 using a multi-answer protocol that is not to be confused with the fox and hound mode, focusing on 20M in the daytime and 40 at night (7-17Z). Adding to the above QSL info, not only LoTW but also via IZ4AMS.

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5Z – Kenya - Updating our August 21 story about 5I5TT and 5I4ZZ, ARRL DXCC has approved the operation for credit and the LoTW certificate has been received. 5I5TT will be on CW, SSB and RTTY and 5I4ZZ on FT8. The operation is from the offshore island, Zanzibar, in February 2020 (February 4-18). There will be nine operators on four stations. You can do their [survey](#) to show which bands and modes you'd like. The original operator list was I2YSB, I1FQH, I1HJT, I2PJA, IK2CIO, IK2CKR, IK2DIA, IK2HKT, IW1ARB and JA3USA. That was 10 operators, as reported in August (and five stations). That has now changed to nine ops, four stations; I1FQH has apparently dropped out.)

Antarctic Activity Week (AAW) - As the DDX has reported in the past, many special callsigns not from Antarctica will be on for “AAW,” an annual event to publicize scientific and other activities on-going on the icy southern continent. The special callsigns typically have “AAW” as their callsign prefix. The next AAW is February 10-17. Organizers note that now is the time to get your special callsign and register it with the event organizers. This is the 17th annual event. The Worldwide Antarctic Program, “WAP,” organized it. WAP updates its [list of planned worldwide participants](#) here:

FO/m – Marquesas Islands - The TX7T team continues their operations from Hiva Oa. Saturday night their local time they reported things were slow and steady as they continued to add 160M QSOs to the log. Their short beverage was helpful, but they still were not able to work any Europe, with three more nights of 160M operations and hoping for good conditions. The 160M antennas will be taken down after their sunrise Tuesday. They had limited openings on 12 and 10, mostly to South America but with a few US and JA. That was between 2100-0000Z. F6BCW, Didier, will stay on Hiva Oa another week, planning CW activity with antennas for 80, 40, 20 and 15 and a part-time effort in the CQWW CW. The rest of the team leaves for home at local noon tomorrow (local time). Some will spend another evening in Papeete, Tahiti. K5PI, Robert, will fly to Fakarava (OC-066) for scuba diving and casual operating with a multiband vertical on the beach, to operate on 40, 20, 15 and 10 and part-time in the CQWW CW.

G – United Kingdom - The “Worked All Counties of the UK” is a new program. Noting the “[Most Wanted DX Plaques](#)” program, M0OXO says there will be plaques available for Worked All Counties of England, Ireland, Scotland, Wales and all territories of the United Kingdom. More info is [here](#). More details will be released soon.

ZD8 - Ascension Island - N4WTN, Darrin, has been on the South Atlantic island since October 1st, on a work assignment. He has just received the ZD8DRP callsign from the government and plans to be on the air soon, but we have no reports of activity from him yet.

CWops – the CW Operators’ Club - January is the 10th anniversary of the forming of this club that promotes the use of CW in Amateur Radio. There are now 2,000 members worldwide. A month-long on-air event is being promoted, in January 2020, from 00Z January 1 to 2359Z January 31, on 160, 80, 40, 20, 15 and 10M. Exchange signal report and, if you have it, member number. Also encouraged are things like name, state/province, etc. There is a scoring system, and special club calls will be on the air, such as K3CWO, GB10CWO and N5A. Here is a [list](#) of those and more info on the scoring system, etc.

9J – Zambia - LA7THA will be joined by nine others, LA3BO, LA3MHA, LA8OM, LA9KKA, LA9VPA, LB8DC, DK6SP, OE5CWO and OE7PGI, under the [9J2LA](#) callsign March 5-15. They plan CW, SSB, FT8 and “some RTTY” on 160-6. The 425 DX News reports the QSLing will be through M0OXO’s OQRS, with a logsearch on Club Log too.

5H – Tanzania - [5H3DX](#) will be back on the air, February 16 to March 16 “give or take a few days.” NK8O, Chas, says. At this point is not sure if N8AX will be able to join him there in Zinga. The rig is a KX3 and KXPA 100 to a delta loop and 20M vertical, planning to operate on 40, 30, 20, 17, 15, 12 and 10M, CW, PSK31, FT8 and “possibly SSB.” To cover the QSL and postage cost, a donation via [PayPal](#) is suggested and notify NK8O of the QSO details. You may also request direct, via NK8O’s QTH or use LoTW. Club Log daily updates are planned. This is a holiday style operation, “other responsibilities allowing.”

VU – India - A special operation will pay homage to Acharya Jagadish Chandra Bose. This annual activity for the “father of wireless communications” will be on his birth date, November 30 and continuing to December 16. VU2JOS says these are some stations that will be on the air: AU3JCB by VU2XPN; AU5JCB by VU2EVU; and AU2JCB by VU2DSI. Some target frequencies to start your search are 28545, 28510, 28490, 21235, 21310, 21350, 14210, 14250, 14310, 7040, 7150 and 3710. FM activity will be on 50800, 51500 and 29700. QSL direct to VU2DSI:

Surabhi Meherabad
Ahmednagar 414006
INDIA

Send 2 IRCs to cover postage.

DX news

ARLD046 DX news

This week's bulletin was made possible with information provided by LU3MAM, W2GD, W3UR, The Daily DX, the OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

CYPRUS, 5B. Rumen, LZ1MS will be QRV as 5B4AGU as a Single Op/Single Band on 40 meter entry in the CQ World Wide DX CW contest. QSL to home call.

NIGERIA, 5N. Bodo, DF8DX and Rene, DL2JRM are QRV as 5N7Q from Abuja until November 25. Activity is on 160 to 10 meters using CW, SSB, RTTY and FT8. This includes being an entry in the CQ World Wide DX CW contest. QSL via DF8DX.

GHANA, 9G. Members of the Slovenia Contest Club are QRV as 9G5W until November 27. Activity is on 160 to 10 meters using CW, SSB, RTTY and other digital modes. This includes being an entry in the CQ World Wide DX CW contest. QSL via LoTW.

TONGA, A3. Masa, JA0RQV will be QRV as A35JP from Tongatapu Island, IOTA OC-049, beginning November 24 while involved in an international project. Activity will be on 160 to 6 meters using CW, SSB and FT8. He also plans to activate the IOTA references OC-191, OC-123, OC-064, and OC-169 during his stay. QSL to home call.

CAPE VERDE, D4. Eric, OE4AAC is QRV as D4CC from Sal Island, IOTA AF-086, until November 30. Activity is on 40 to 10 meters using CW and some FT8. This includes being an entry in the CQ World Wide DX CW contest. QSL to home call.

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WALLIS AND FUTUNA ISLANDS, FW. Nobuaki, JA0JHQ will be QRV as FW/M0JHQ from Wallis Island, IOTA OC-054, from November 23 to 27. Activity will be on 160 to 10 meters using CW and FT8. QSL direct to home call.

TEMOTU PROVINCE, H40. Rob, N7QT and Grant, KZ1W are QRV as H40KT and H40TT, respectively, from Pigeon Island, IOTA OC-065, until November 28. Activity is on 160 to 10 meters using CW, SSB, RTTY and FT8. This includes being an entry as H40KT in the CQ World Wide DX CW contest. QSL via M0URX.

THAILAND, HS. A large group of operators will be QRV as HS0ZAR during the CQ World Wide DX CW contest. QSL via K3ZO.

VATICAN, HV. Francesco, IK0FVC and Roberto, IK0PRG will be QRV as HV0A for about half a day on November 23 during the CQ World Wide DX CW contest. QSL direct to IK0FVC.

SARDINIA, IS0. Tony, LZ5EE, Ivailo, LZ5VV, Chav, LZ1ABC and Chavdar, LZ1AQ will be QRV as IS0/LZ5F in the CQ World Wide DX CW contest. QSL via operators' instructions.

ARGENTINA, LU. A group of operators will be QRV as LS2D as a Multi/1 entry in the CQ World Wide DX CW contest. QSL via EC6DX.

ARUBA, P4. John, W2GD is QRV as P40W until November 25. Activity is on the HF bands with an emphasis on CW. This includes being a Single Op/All Band entry in the CQ World Wide DX CW contest. QSL via N2MM.

SURINAME, PZ. Some members of the Minnesota Wireless Association will be QRV as PZ5W from Lelydorp in the CQ World Wide DX CW contest. QSL via N0AT.

ANTIGUA AND BARBUDA, V2. Bud, AA3B is QRV as V26K from Antigua, IOTA NA-100, until November 26. Activity is on the HF bands with an emphasis on CW. This includes being a Single Op/All Band/Low Power entry in the CQ World Wide DX CW contest. QSL direct to home call.

NAMIBIA, V5. Uli, DM5EE will be QRV as V55A from Windhoek during the CQ World Wide DX CW contest. Activity will be on 80 to 10 meters. QSL via M0OXO.

MICRONESIA, V6. Al, K7AR is QRV as V63AR from Pohnpei, IOTA OC-010, until November 26. Activity is on the HF bands using CW, SSB and FT8. This includes being an entry in the CQ World Wide DX CW contest. QSL to home call.

BRUNEI, V8. Hajime, JO1RUR will be QRV as V85RH during the CQ World Wide DX CW contest. QSL via LoTW.

LORD HOWE ISLAND, VK9L. Michael, DF8AN is QRV as VK9LQ until November 27. Activity is on 160 to 6 meters using CW, RTTY and various digital modes, including FT8 in DX-pedition mode. QSL to home call.

VIET NAM, XV. Mats, SM6LRR is QRV as XV9D until November 30. Activity is on 40 to 20 meters. This includes being a Single Op/Single Band entry on 40 meters in the CQ World Wide DX CW contest. QSL direct to EA5GL. In addition, look for Sven, HB9DXB to be QRV as XV9DXB in the CQ World Wide DX CW contest. QSL via EB7DX.

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INDONESIA, YB. Members of Grobex Team Contest Indonesia will be QRV as 7A2A in the CQ World Wide DX CW contest. QSL direct to YB2DX. In addition, special event station 8H11TS will be QRV from Java Island, IOTA OC-021, from November 24 to 27 to celebrate the 11th anniversary of South Tangerang as an autonomous city. QSL via operators' instructions.

THIS WEEKEND ON THE RADIO. The CQ Worldwide DX CW Contest and QCX CW Challenge are on tap for this upcoming weekend.

The CWops Mini-CWT CW Test, UKEICC 80-Meter CW Contest, SKCC CW Sprint and Phone Fray are scheduled for November 27.

The Canadian National Parks on the Air, CNPOTA, operating event runs for the entire year of 2019, with special stations active from Canada's parks and historic sites.

Please see November QST, page 89, and the ARRL and WA7BNM Contest Web Sites for details.

Special Events

- **11/30/2019 | The First Pilgrim Landing at Plymouth**

Nov 30-Dec 1, 1300Z-1700Z, NI1X, Plymouth, MA. Whitman Amateur Radio Club. 18.160 14.260 7.260 3.860. Certificate. Whitman ARC, P.O. Box 48, Whitman, MA 02382. Times Are Daily. EchoLink: WA1NPO-R, IRLP:8691 www.wa1npo.org

- **11/30/2019 | W9CAP - Civil Air Patrol Special Event**

Nov 30-Dec 1, 1200Z-2359Z, W9CAP, West Chicago, IL. Illinois Wing Civil Air Patrol Amateur Radio Club. 7.225 MHz LSB 14.250 MHz USB 18.125 MHz USB 28.450 MHz USB. QSL. Capt. Gary Brown, PO Box 4027, Saint Charles, IL 60174. <https://ilwg.cap.gov/members/wing-staff-areas-administration/communications/w9cap>

- **12/01/2019 | W2W – Pearl Harbor Day Commemoration**

Dec 1-Dec 8, 1300Z-2200Z, W2W, Baltimore, MD. Amateur Radio Club of the National Electronics Museum (ARCNEM). 14.241 14.041 7.241 7.041. Certificate & QSL. W2W - Pearl Harbor Special Event, PO Box 1693, MS 4015, Baltimore, MD 21203. Amateur Radio Club of the National Electronics Museum (ARCNEM) will operate W2W in commemoration of the anniversary of Pearl Harbor Day and the role of electronics in WWII. Primary operation will be Dec 6-Dec 8 with additional operation possible during the Dec 1-Dec 5 period, as operator availability permits. Operation on 80M (3.541, 3.841) and digital modes possible during event. Frequencies +/- according to QRM. QSL and Certificate available via SASE; details at ww-2.us

- **12/01/2019 | YP-XMAS spreading Christmas cheer for the 4th year**

Dec 1-Dec 31, 0000Z-2359Z, YP2XMAS, Timisoara, ROMANIA. The Romanian Radioclub Association A.R.R.. 3.710 7.130 14.252 1.852. Certificate. Sorin Barbu, YO2MSB, blv. Cetatii no. 62 sc. A ap. 27, Timisoara 300653, ROMANIA. Santa Claus and his Ham Radio elves will be operating from YO again in 2019 for the fourth consecutive year. While a number of countries organize Christmas activities, in Romania hams from every call sign district will be on the air the entire month of December. They will be using special event call signs approved by the Romanian telcomm authorities: YP2XMAS through YP9XMAS. Look for them on all bands, not only in SSB and CW but also FM (UHF/VHF) and even FT8.

Those who make a QSO with at least three different YP-XMAS callsigns will get their own Christmas present -- upon submitting a log extract, they will receive a special event certificate sent to them electronically at no charge. And, of course, everyone is entitled to a hardcopy QSL upon request. www.qrz.com/db/YP2XMAS

- **12/05/2019 | Pearl Harbor Remembrance Day**

Dec 5-Dec 10, 0000Z-0000Z, W5W, Cleburne, TX. Club KC5NX. 14.225 14.045 7.225 7.045. QSL. Club KC5NX, 9200 Summit Court West, Cleburne, TX 76033-8212. Club KC5NX will be on the air again this year as W5W to bring to remembrance the December 07,1942 loss at Pearl Harbor.... The damage done, the lives lost, and the coming together of the American People at that time.... Multi-operators will be covering most bands and modes.... Special request ? we look forward to them...
club.kc5nx@gmail.com www.qrz.com/db/kc5nx

- **12/06/2019 | 125 Years - Ripley's Crookedest Street, Snake Alley**

Dec 6-Dec 7, 1600Z-2200Z, W0FUN, Burlington, Iowa. Iowa Radiosport Society. 14.240 14.059 7.220 7.059. QSL. Iowa Radiosport Society, P.O. Box 73, Denmark, IA 52624-0073.

- **12/07/2019 | 80th Anniversary of the Sikorsky VS-300 Helicopter**

Dec 7-Dec 15, 0000Z-2359Z, K1S, Stratford, CT. Stratford Amateur Radio Club SARC. 18.150 14.240 7.230 3.925. QSL. SARC c/o Dave Arruzza, 32 Benz Street, Ansonia, CT 06401. SASE for commemorative QSL card.

- **12/07/2019 | Pearl Harbor Day Memorial**

Dec 7, 1600Z-2200Z, K7UAZ, Tucson, AZ. Oro Valley ARC. 14.250 USB 7.035 CW. Certificate. send, email, to qsl@tucsonhamradio.org. From the USS Arizona Memorial on the University of Arizona campus. For certificate, email to qsl@tucsonhamradio.org. No paper QSLs, please. TucsonHamRadio.org

- **12/07/2019 | Skywarn Recognition Day**

Dec 7, 0000Z-2359Z, N0W, Fruita, CO. Mesa County Skywarn. 14.286 7.235 3.990. Certificate & QSL. Al Acker, WA4HND, 1685 Mae Ct., Fruita, CO 81521. WA4HND@GMAIL.COM

- **12/09/2019 | Tuscaloosa, Alabama 200th Birthday Celebration**

Dec 9-Dec 15, 0000Z-0000Z, N4T, Tuscaloosa, AL. Tuscaloosa area operators. 21.335 14.235 7.235 3.935. QSL. Kirk Junkin, Tuscaloosa 200 Birthday Event, PO Box 21174, Tuscaloosa, AL 35402-1174. Multi-Operators will be on-air from different areas of the city during the week of December 9 - 15th, 2019, celebrating the Bicentennial Birthday of Tuscaloosa, Alabama, with N4T. All HF bands/modes, including FT4/FT8, as well as 6M and 2M contacts will be available. Check website and DX-spotting sites for exact frequencies and times. Plans to operate from downtown Tuscaloosa on Friday, December 13th (the actual birthday) and Saturday, December 14th, weather and conditions permitting. <https://www.bamaradio.biz>

- **12/12/2019 | WX3MAS Special Event**

Dec 12-Dec 15, 1400Z-2200Z, WX3MAS, Nazareth, PA. Christmas City Amateur Radio Club. CW and PSK31 on 20 and 40 meters; 14.265 7.270 3.850. QSL. Christmas City Amateur Radio Club, 14 Gracedale Ave, Greystone Building, Nazareth, PA 18064. 50 Anniversary! Christmas City ARC and the Delaware-Lehigh ARC. . Send QSL and SASE (A6 size or larger for 4"x 6" card) to WX3MAS, 14 Gracedale Ave, Greystone Building, Nazareth, PA 18064. Operation details at www.dlarc.org

[TOP^](#)

- **12/14/2019 | Bethlehem on the Air**

Dec 14-Dec 15, 1500Z-0000Z, W9WWI, New Washington, IN. Clark County Amateur Radio Club of Southern Indiana . 14.250 7.200; All Bands, All Modes. Certificate. Clark County Amateur Radio Club, W9WWI, Richard Humphrey Secretary , 4208 Perry Crossing Road, Sellersburg, IN 47172. In celebration of the holiday season. Look for us on FT8, n9dprh@gmail.com or www.clarkcountyarc.org

ARRL Contest Corner

An expanded, downloadable version of *QST*'s [Contest Corral](#) is available as a PDF. Check the sponsor's Web site for information on operating time restrictions and other instructions.



V.E. Test Sessions

For the latest testing site information please >> [Click Here](#) << The ARRL site tracks all of the VE testing sites that register with them, including W5YI and Laurel. ARRL gives you a number of different ways of sorting to find that site that is closest to you as well.



One Question Questionnaire



Hey Gang,

“Survey Says” - Bedroom 25.34% - Basement 34.25% - Garage 0.00% - Living Room 5.48% - Other 34.93%... Ok, I’m guessing that the ones that answered “Other” at least have a shack that is somewhat warm and comfy.

I’ve got another NEW – one question – for you on the Ohio Section Website! Since this week is Thanksgiving and a huge family day...

“Do you operate your station with your Thanksgiving guests in the shack?”

You’ll find the “One Question” questionnaire on the Ohio Section Website! <http://arrloho.org> It’s all in fun and it’s not a scientific survey in any way, but we are learning some things that we didn’t know from these questions. I hope that you are enjoying answering these “One Question” questionnaires.

ARES Connect

ADMINS – please make sure to go into all of the events that you have setup no later than 7 days after they have ended and approve the hours your volunteers have typed in that they did.

I'm noticing a number of events that aren't getting hours credited because the Admin isn't going back and approving hours. This is a necessary step that everyone setting up events must do. Be sure to get your hours entered in by no later than the 7th of the next month.

ARES Connect

Enter ARES Connect

With all of the additions to ARES Connect that we now have, there is absolutely no longer any excuses for all of you to not use the system!!

ARES Connect Helpful Instructions

I'm setting a goal for all of you out there. **Let's get everyone in the Ohio Section on ARES Connect before the end of this year!!!** Simply go to: <https://arrl.volunteerhub.com/lp/oh/> and get yourself registered and using the system.

Here's the top 10 hours earners so far for November:

	Name	Events	Hours
1	Diane Warner (KE8HLD)	21	75.00
2	James Yoder (w8erw)	14	73.00
3	Greg Dersarkisian (KD8SSJ)	21	72.50
4	Bret Stemen (KD8SCL)	21	57.50
5	Richard Wynkoop (KD8PHG)	5	53.00
6	Christopher Domenick (KC8CAD)	17	52.50
7	Mark Griggs (KB8YMN)	5	51.50
8	John Hilliard (w8of)	20	51.50
9	Dan Stahl (KC8PBU)	45	51.11
10	James Sage (AC8FR)	1	48.00

Why is this so important? Hey, I am just going to say this... The end of the year is coming up fast, and now with the ability to catch yourself up on past events, there's gonna' be a very special "End of the Year" award for the person with the most hours in 2019! . Will that be you? You now can make that happen!

Admins... If you are wondering how to get an overview of all of your events you can simply go into reports and using the new Event by Participation by Event (version 2) you can not only see who registered for your event, but you also can see if he/she has inputted their hours for it as well. Take advantage of this new report to help you get the time entered into your events.

I'm also seeing a number of recurring events created but no activity reported for them. Please, if this event is no longer needed, let me know and I can delete it from the masters. I know that many of you setup recurring events to learn how, but if they aren't going to be used, let's get them cleared out. Also... If you are setting up events, please don't set a limit for how many folks can sign-up unless absolutely necessary. This causes issues when doing reports. It's also counter-productive since the reason for you to list the event is to get as many volunteers as you can to attend. When you set limits, it discourages folks from signing up.

[TOP^](#)

Special NIMS Training Available

Below is information on upcoming ICS-300/ICS-400 classes for those interested.

Please be advised that we have listed the following ICS courses on the Ohio EMA Public Safety Training Campus (PSTC) website for students to register for the courses;

<https://trainingcampus.dps.ohio.gov/cm/cm710/pstc/>

Feel free to share these course offerings with the targeted audiences.

Course ID	Name	Session	Location	Enroll
ICS300OttawaCoDec2019	ICS-300 Intermediate ICS	December 3 - 5, 2019	Magruder Hospital 615 Fulton Street Port Clinton, OH 43452	Enroll
ICS300FranklinCoUpperArlingtonDec2019	ICS-300 Intermediate ICS	December 3 - 5, 2019	Upper Arlington Fire Station 72 3861 Reed Road Upper Arlington, Ohio 43220	Enroll
ICS300AshtabulaCoDec2019	ICS-300 Intermediate ICS	December 3 - 5, 2019	Ashtabula County Engineers Office 186 East Satin Street Jefferson, Ohio 44047	Enroll
ICS300LorainCoJan2020	ICS-300 Intermediate ICS	January 7 - 9, 2020	Oberlin Fire Department 430 South Main Street Oberlin, OH 44074	Enroll
ICS300PrebleCoJan2020	ICS-300 Intermediate ICS	January 11, 12 & 18, 2020	Eaton City Fire Department, Station 2 391 West Lexington Road Eaton, Ohio 45320	Enroll
ICS400AshtabulaCoJan2020	ICS-400 Advanced ICS	January 13 - 14, 2020	Ashtabula County Engineers Office 186 East Satin Street Jefferson, Ohio 44047	Enroll
ICS300MahoningCoJan2020	ICS-300 Intermediate ICS	January 13 - 15, 2020	Boardman Fire Department, Station 71 7440 Market Street Boardman, OH 44512	Enroll
ICS400OttawaCoJan2020	ICS-400 Advanced ICS	January 16 - 17, 2020	Magruder Hospital 615 Fulton Street Port Clinton, OH 43452	Enroll

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Campbell County Kentucky Office of Emergency Management Upcoming Training



James E. Sparks, Deputy Director of Operations
Campbell County Fiscal Court
Office of Emergency Management, Unit 2152

O: 859-547-3152 · C: 859-743-4136 · F: 859-635-3132

<http://www.campbellcountyky.gov>

Campbell County Kentucky Office of Emergency Management **FREE**
Training Opportunities

Working with the Media: A Short Course for Emergency Responders
(AWR-209) – January 22, 2020 – RDPC / Register:
<https://qrgo.page.link/o2Gs>

Isolation and Quarantine for Communities (MGT-433) – February 19, 2020 – RDPC / ****Tentative/Requested****

Hazardous Weather Preparedness for Campuses (AWR-332) – March 4, 2020 – (NDPTC) /
****Tentative/Requested****

Readiness: Training Identification and Preparedness Planning (MGT-418) – March 11-12, 2020 - TEEX /
Register: <https://train.ncbrt.lsu.edu/Student/Register?ClassID=26374>

Registration Password: NCBRT418 If you have trained with NCBRT before, enter your FEMA SID, Last Name, and First Name. If your training record is found, your registration form will be pre-filled for you. Otherwise, click Register as New Person to fill out a blank registration form.

Evacuation and Re-Entry Planning Course – March 25-26, 2020 / ****Requested through KYEM Training Division****

Pediatric Disaster Response and Emergency Preparedness (MGT-439) – April 8-9, 2020 / TEEX / Register:
<https://qrgo.page.link/GFf4>

Debris Management Planning Course – April 15-17, 2020 / ****Requested through KYEM Training Division****

Intermediate ICS-300 for Expanding Incidents w/Forms (MGT-904) – April 22-24, 2020 / TEEX /
Register: <https://qrgo.page.link/HzT2>

Disaster Preparedness for Hospitals and Healthcare Organizations within the Community Infrastructure
(MGT341) – May 13-14, 2020 / ****Requested****

Advanced ICS-400 Command and General Staff-Complex Incidents (MGT-905) – May 27-28, 2020 /
TEEX / **Approved******

Surviving an Active Threat: Run. Hide. Fight. (PER-375) w/TTT – June 10-11, 2020 – (NCBRT)
****Tentative****

NIMS ICS All-Hazards Position Specific Incident Commander E/L 950 – June 22-26, 2020 – KYEM
- ****Requested through KYEM Training Branch / Tentative****

Disaster Resilience for Small Businesses and Organizations – July 8, 2020 – (NDPTC) / ****Requested****

Emergency Planning Course – July 14-15, 2020 / ****Requested through KYEM Training Division****

[TOP^](#)

Disaster Management for Water and Wastewater Utilities (MGT-343) – July 22-23, 2020 / ****Requested****

Mitigation for Emergency Managers Course – August 5-7, 2020 / ****Requested through KYEM Training Division****

Volunteer Reception Center Management Course – September 15-16, 2020 / ****Requested through KYEM Training Division****

Intermediate ICS-300 for Expanding Incidents w/Forms – September 23-25, 2020 / **Requested**

Advanced ICS-400 Command and General Staff-Complex Incidents – October 21-22, 2020 / **Requested**

Follow us on Facebook @CampbellCoKYEmergencyManagement and Twitter @CampbellCoOEM

Visit our Training Calendar at the below link for all our FREE training opportunities with training announcements and registration information.

Click here;

https://calendar.google.com/calendar/embed?src=brbq8bhmk0ikhtp0k6ivjpdack%40group.calendar.google.com&ctz=America%2FNew_York

Feel free to share with your staff, departments and contacts. Thanks!

Swap & Shop Has Come to the Ohio Section Website



Hey Gang,

Have you taken a look at the **Swap & Shop** page on the Ohio Section webpage yet?? Here's a link that will take you there... <http://arrl-ohio.org/sm/s-s.html>

There's already been some great activity going on up there. Do you have equipment that you just don't need or want anymore? Here's a great venue to advertise it, and it's FREE!! No, it won't be listed in this newsletter because it would take up way too much space, so your ad will only appear on the website.

It is there for any individual to post equipment Wanted / For Sale or Give-Away. No licensed vehicles/trailers or business advertising will be posted.

Postings are text only (no pictures or graphics) will be posted for a maximum of 1 month from date posting and require a contact phone number or email within the posting.

Send your Wanted / For Sale or Give-Away post to: swap@arrlohio.org

Want to Share your Club Newsletter With Others?



Is your club's newsletter available to share? I've got a new webpage that has links to all of the known websites where club newsletters can be accessed throughout Ohio.

Now, as we all know when any list is published, it's outdated immediately. That's ok, just send me the link to your club's newsletter and I'll get it on the webpage – n8sy@n8sy.com

Here's the link: http://arrl-ohio.org/club_link/links-to-newsletters.html Remember, we're all here to help each other. What a great way to share the news about Amateur Radio!!

Final.. Final..



Hey Gang...

What crazy week this has been! Last Monday night I went to the Southern Ohio Amateur Radio Association's "Christmas in November" banquet to not only do a presentation for them, but to give out a very special award to Mike Love, WB8YKS, as he was selected by John, KD8IDJ our Public Information Coordinator and myself to receive the "Outstanding PIO" Award here in Ohio.

Well, things were going to plan until Mike called me up to the front of the room and presented me with a "Special

Recognition" award from the club. WOW..!! What a really fantastic surprise that was! Thanks everyone. It is now hanging alongside the Knight award on my shack wall.



A lot of this past week was spent getting things buttoned up for the winter. I still have to get all the holes for my coax runs that I drilled through the brick sealed up yet, but it's coming along.

Janie and I have also been working on getting things ready for Thanksgiving around here. Thanksgiving Day has really become a memorable time for me as that it was just 6 years ago on Thanksgiving Day that I slipped in our driveway and broke my ankle in 2 places. I couldn't stand or even feel my foot. Since I was sent out by Janie to quickly clear the little bit of snow off of the drive so that our guests wouldn't slip and fall, I hadn't even bothered to put a coat on (*never figured that anything like this would happen*). Now, here I lay almost in the street, can't stand up or walk, I just laid there like a wounded turkey (*pun intended*). I figured if I yelled loud enough that I would get at least one neighbor's attention. Nope.. I yelled at the top of my lungs for the better part of 20 minutes, not a blooming sole was around or could seem to hear me. Finally, Janie opened up the door in the garage and yelled out for me wanting to know why I wasn't back in the house helping her with dinner.

[TOP^](#)

Boy, I had a few choice words, but all that came out was... yes, you guessed it.. “Help! I’ve fallen and can’t get up!!” Boy, you talk about just how helpless you have to feel to start reciting stupid TV commercials. Well, after she finally got the idea that I wasn’t malingering she came down and helped me literally crawl back up the drive. She called the township squad and when they got there they were munching on (*you guessed it..*) turkey! The paramedic had a blast cutting off my new boots. She said that she loves to see the expression on her patient’s face when she does it. I had just gotten those boots for my birthday a few weeks before. This was my first time wearing them. Now it’s the last. She took a hard look at my ankle and said that you’ve done a number on this for sure, you’re gonna’ be in a cast for a while.

Well, it really hurt when she ruined my new boot, but what really had me upset is that in all my life I had never broken a bone. I’ve had a few greenstick fractures, but never anything like this before. So, off to the hospital we went. The squad run was fun, we ran with lights and sirens. The Chief was driving, and he insisted that we arrive at the hospital in style. I guess he wanted to make sure that everyone in the entire county knew that he was transporting someone that had a broken ankle. Wow.. I knew that having a broken anything is somewhat serious, but to run with lights and siren..?? I still think it was a little over the top. I will say this though, it’s kinda’ funny on how all the neighbors now all of a sudden come out to look and see what’s happened.

Anyway, I get to the hospital and that’s when the really bad news hits... keep in mind that I did this on Thanksgiving morning (*before the turkey had been served*). So, this kid got nothing for Thanksgiving that year, and I do mean nothing. Normally I skip breakfast on that day so that I don’t feel overstuffed after the big meal. Now, since I was going to be operated on the day after Thanksgiving the folks at the hospital thought it would be prudent if I just didn’t eat anything before my operation! So, I got to fast while everyone in the entire country pigged out on a great turkey dinner!

Now, if that was bad enough, as anyone knows that has gone through surgery, you have to be cleaned out from top to bottom before surgery. So, the only thing I had to eat (*drink*) was that yucky stuff that they give you to make you nice and clean inside. Oh, they make sure that you have enough of that stuff to fill you up. They give you an entire gallon of it to drink before midnight.

The next morning bright and early they come in and make sure that you’ve had your fill of that gucky stuff and that you’re clean enough to be operated on. Then they roll you down to the operating room and that’s it until you wake back up. Once you’ve woken up, that’s when they tell you that you now have a bunch of new hardware installed. I ended up with an 8-inch titanium plate installed in my right leg. To hold it all together they also installed a dozen screws. I was in a cast for 8 weeks while I healed. I learned quickly that crutches aren’t all that some folks make them out to be. They get in the way every time you sit down. You may think you’ve got them secured in an upright position where they just can’t fall, but it never fails, as soon as your butt hits the chair, the crutches hit the floor, and of course they then slide under a table or chair where it’s really hard to retrieve them. I ended up putting a string on them so that no matter where they fell, I could simply pull on the string and get them back.

Thankfully my surgeon was really good and got everything back in place and I can walk without too much of a limp.

Now, today I hear that we’re possibly gonna’ have some snow for Thanksgiving Day. Guess who ISN’T going out in the drive to clear it off. To heck with that, I’ve got grandkids that just love to do things for Grandpa’!!

Sliding down the band a bit... I know that this sounds like a broken record, and I apologize to the folks that are registered, but for some they still are sitting on the fence as to getting themselves registered in ARES Connect.

So, I am addressing those who are still sitting (that fence post has to be getting awful painful by now), we've had quite a few advancements with ARES Connect recently. These advancements are to help you the user and Admin get the events entered and hours registered better. Our goal is to get everyone in the Ohio Section registered and using this new system by the end of the year! We want no one left behind. Hey, it's time to ease the pain from that picket fence, get registered, and start using this great new system!

Oh, there's another feature that I want to tell you about. If you've registered for an event and you forget to log your hours for that event after 24 hours, the system can, and if setup correctly, send you an email thanking you for your participation. But, here's what I want you to really pay particular attention to... there will also be a link in that email that if you click on it will take you directly to the area to get your hours logged!! Wow... this is a real bonus, as that even if you forget to log your hours the system will remind you and even make it convenient for you to log them.

Sliding down the band a bit more... Have you gotten on the air lately? With winter here now, there's really no excuse for not getting on the air. I am still hearing from some of you that you just haven't taken the time yet to do anything with that newly acquired license. Why not? Do you need help? Hey, my best advice for you is to seek out a club and go and listen. You'll be amazed at how much knowledge is floating around that is just looking for a place to land. You got it, ON YOU!. Have fun with it! Get on the Air!!!

Don't know where the clubs are? Hey, here's a link to our 117 ARRL Affiliated Clubs in Ohio...
<http://arrl-ohio.org/sm/affiliated-clubs.html>

Is your club doing any special activities that you'd like the Section to know about? As you can see by the posts in the Club Corner, many clubs are already taking advantage of getting the word out to over 8,000 readers every week.

Whelp... That's going to do it for this time around. Stay safe, enjoy the sunshine while we have it, and most of all... have FUN!!

73,

Scott, N8SY

New Amateur Radio Podcasts

Hey gang have you heard the new Podcast that the ARRL is putting out? It's called "So Now What?" It's a great way to learn about Amateur Radio for sure.. Here's the link: <http://www.arrl.org/so-now-what>

We also have a local Podcast by none other than own Pat Morrow, N8OQP – he now has his own radio station (internet broadcasting) that is doing broadcasts daily. You can find his Amateur Radio Podcast at:
https://www.spreaker.com/show/radio-active_2



And let's not forget all those other Podcast shows on Twit.tv – Here's the link to them:
https://twit.tv/shows?gclid=CjwKCAjw3c_tBRA4EiwAICs8CiOMJ-_zsH1XpXuJeO8NRjzbye2iss4XmwWwer72QZx1tWkm9QDFUhoCCZIQAvD_BwE

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Back Issues of the PostScript and Ohio Section Journal (OSJ)

Hey, did you know that PostScript and Ohio Section Journal (OSJ) are archived on the website? You can go back and look at any edition simply by clicking:

<http://arrrl-ohio.org/news/index.html>



Chit – Chat, and All That!

Do you know someone that's not getting these Newsletters? Please, forward a copy of this Newsletter over to them and have them "[Opt-In](#)" to start receiving them. Heck, just have them send me an email n8sy@n8sy.com and I'll get them added to the Ohio Section Emailing list. We now have over 8,000 folks receiving these newsletters weekly. Quite impressive, I'd say!



I urge all of you to make sure that everyone, regardless of whether they are a League member or not, get signed up to receive these weekly Newsletters. You can always "Opt-Out" at any time if you feel this is not what you were expecting. It's fun and very informative.

Hey, did you know that PostScript and Ohio Section Journal (OSJ) are archived on the website? You can go back and look at any edition simply by clicking:

<http://arrrl-ohio.org/news/index.html>

The pictures throughout this newsletter are from various sources. Take a good look at them, you just might be in one of those pictures! "SMILE...!!!!!"

Got questions, concerns or would just like to sit and chat awhile? Heck, I'll even buy the coffee!! Give me a call at (419) 512-4445 or email me at: n8sy@n8sy.com



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The Ohio Section Journal (OSJ) is produced as a comprehensive look at all the programs within the Ohio Section. I sincerely hope that you have enjoyed this edition of the OSJ and will encourage your friends to join with you in receiving the latest news and information about the Ohio Section, and from around the world!