![Ohio Section Journal logo] **June 2022**

From the Technical Coordinator
Jeff Kopcak – K8JTK   TC
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Hey gang,
As Technical Coordinator for the Ohio Section, I oversee the section's group of Technical Specialists. The Specialists and I are here to promote technical advances and the experimentation side of the hobby. We encourage amateurs in the section to share their technical achievements with others in QST, at club meetings, in club newsletters, at hamfests, and conventions. We're available to assist program committees in finding or providing suitable

programs for local club meetings, ARRL hamfests, and conventions within the section. When called upon, serve as advisors for RFI issues and work with ARRL officials and other appointees for technical advice.

Technical Specialists are a cadre of qualified and competent individuals here for the "advancement of the radio art," a profound obligation incurred under the rules of the FCC. TS's support myself and the section in two main areas of responsibility: Radio Frequency Interference (RFI) and Technical Information. They can specialize in one or more areas or be generalists with knowledge in many technical areas. Responsibilities range from serving as consultants or advisors to local hams or speaking at local club meetings on popular topics. In the Ohio Section, there are 14 qualified specialists able and willing to assist.

RFI/EMI (electromagnetic interference) includes harmful interference that seriously degrades, obstructs, or repeatedly interrupts a radio communication service such as ham radio or public service agencies. RFI sources range from bad power insulators, industrial control systems, other transmitters or poorly made transmitters, personal devices like computers, monitors, printers, game consoles, to grow lights, failing transformers, and poorly made transformers – including one's hams brag about getting from China for a few dollars. Our Technical Specialists can offer advice to help track down interference or locating bozo stations. Technical information is wide-ranging, everything from antennas to Zumspots.

How can we help? The knowledge and abilities of YOUR Technical Specialists are really quite impressive. Here are examples:

- Antennas (fixed, portable, and emergency operation type) and feedlines
- Antenna systems such as towers, guying, coax, and baluns
- RF and tower safety
- Grounding
- Propagation
- Electronics and circuits
- Tube technology, aka boat anchors
- Voice and data modes – including D-STAR, DMR, Fusion, NXDN, P25, APRS, IGates, packet, MT63, FT8/4, Olivia, PSK, and using programs like Fldigi
- NBEMS – Narrow Band Emergency Messaging System
- Computers, Windows and Linux, Raspberry Pi
- Embedded devices
- Networking: IP networks, AMPRNet, routers, firewalls, security, mesh, and microwave
- Repeaters, controllers, and high-profile systems
- Internet and VoIP linking systems – Echolink, AllStar, HamVoIP, DVSwitch, and PBX/Asterisk
- RFI detection from power lines and consumer devices including working with governmental agencies to track down interference
- Professional certifications such as Motorola Certified Technicians, Certified Journeyman Electronics Technician, General Radiotelephone Operator License (GROL), and Society of Broadcast Engineers (SBE) affiliations

This impressive list of qualifications is an available resource to all in the Ohio Section. Looking for guidance in one or more of these areas? Need a program for your club meeting? How about a technical talk or forum at a hamfest? Assistance or direction on a project? My contact info is near my picture and on the arrl-ohio.org website. I'll assist getting you in touch with an appropriate Technical Specialist.

Many in our section have a Hamshack Hotline extension. Hamshack Hotline is a Voice over IP system using the same technology, called a PBX (Private Branch Exchange), many businesses utilize for their phone systems. Recently, another similar service appeared called Hams Over IP (HoIP, IP as in IP address). It's not as catchy or easy to rattle off as HamShack Hotline. Best I'm able to tell, the service started around the time of Dayton. Unfortunately, like many clubs that have formed and split over the years, political issues at HH mounted and led to the formation of another service. Hams Over IP formed out of some former Hamshack Hotline admins and engineers. It's obvious from their site, this was rushed as they really only have a ticketing system and Discord linked on their site as of this writing. A Wiki can be found by searching the interwebs. BLF monitor and BLF bridge monitors are available too.

Cisco SPA-514G desk phone for Hamshack Hotline and Hams Over IP

If you want to read the dirt and s-slinging, those can be found on their respective social media pages and sites. A post (group membership required) in the non-affiliated Hamshack Hotline groups.io stated "A few months ago Hamshack Hotline dismissed a number of directors of their corporation and several moderators of their facebook and discord server for reasons that remain unknown. When that happened I heard from the impacted parties as well as other supporters to create our own network, and thus Hams Over IP was born." HoIP will continue to co-exist with HH though, they are two completely different and separate networks. Existing HH extensions and trunks will continue to work as they have in the past. Here comes the "but." Those on the HHUX (experimental) server will be repurposed with a HoIP extension. One user posed they received an email from HH about the server change. Reading between the lines, the owner of the HHUX server was one of those dismissed. Their server was removed from the HH network, taken with them in the turmoil, and brought over to HoIP.

Regardless of the political landscape, I have a Hams Over IP phone extension: **100095**. HoIP doesn't (at least at this time) have a way to put a URL in the browser to configure a desk phone, such as a Cisco SPA, like HH does. It took a little effort to get my Cisco phone configured as there appears to be IP banning mechanisms on the server for failed registrations and those using VPNs.

Like HH, HoIP has "RF Link" extensions. These are reverse autopatch extensions connecting into an Asterisk server, most often an AllStar node connected to a repeater or Internet hub. The Hams Over IP extension into the Interlink System I maintain is: **15010**. Same controls are used for RF links, ***99** to TX and # to unkey/RX. A system like mine is a way to bridge not only HamShack Hotline and Hams Over IP but other networks: AllStar Link, Echolink, DMR (HBLink, BrandMeister, and TGIF), D-STAR, M-17, NXDN, P25, System Fusion, and Wires-X.

Both HamShack Hotline and Hams Over IP are now using PJSIP where one extension can ring multiple devices (up to 5, I've heard). Back when HH started, it was a requirement for an approved Cisco phone to be brought onto the network before one could receive credentials for the "unapproved devices" or experimental server used for soft phone apps like Groundwire or other VoIP hardware devices. Each device would have a different extension. Calling one extension would only ring that device, not any others. Both my HamShack Hotline (**4293**) and Hams Over IP extensions will now ring my Cisco SPA-514 in the shack and Groundwire on my smartphone. I'm unsure about consolidating extensions, might want to open a ticket with HH to find out if that's possible.

DroidStar for iOS is fini – done, no more. Development will continue on the Android and Windows versions. DroidStar is a smartphone app allowing hams to connect to ham radio digital and VoIP networks using only an app. Late last year, changes to the app removed the built-in vocoder (voice encoder). iOS, or iPhone Operating System, is a tightly controlled ecosystem of Apple mobile devices (phones, tablets, smartwatches, TV, etc.). Anyone doing development or app validation knows you cannot load an app on an Apple device out-of-nowhere. It must be loaded through the Apple App Store. A testing and feedback program called Test Flight is available to developers who pay for an Apple Developer account, $99 currently.

Most iOS users never use Test Flight as it is a beta program. The program allows users to test apps and provide feedback to the developer before an app is qualified and published in the App Store. Apple doesn't want developers to forever use Test Flight circumventing the scrutiny and validation of the App Store. Test Flight apps have a limited lifetime of 90 days. The app can be made available again, though users have to rejoin the new beta version in order to have access to the app for another 90 days. This is the mechanism DroidStar was using making a version of the app available to iPhone users – and not through the App store.

Development of the app has come to an end, at least for now. Posted on the project's Github page by the developer, the older MacBook Pro used for development is no longer eligible for the latest macOS version. Apple requires an iOS Software Development Kit (SDK) version only supposed by later versions of macOS. There are no planned upgrades to support this development effort. There is a chance someone else could maintain an iOS version as the project can be forked for continued development.

With July around the corner, my favorite event, 13 Colonies Special Event will be on the air July 1st (9 am) – July 7th (midnight). TM13COL will be making a return again this year as the third bonus stations in addition to WM3PEN and GB13COL. A station does not need to work all 13 colonies to receive a certificate. The three bonus stations do not need to be contacted for a clean sweep. Good luck!

Thanks for reading and 73… de Jeff – K8JTK

DroidStar on P25

From the Section Emergency Coordinator
Stan Broadway, N8BHL - SEC
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Spotting severe weather

It is ham radio's number one public service- spotting and reporting on severe weather that will affect our neighbors. It is an important function locally as well as statewide. It supersedes affiliations- *everybody* can serve! And, it's something most of us do without being aware of how important it can be.

Our Ohio weather has certainly tossed some serious attacks on our communities this year. There have been tornado outbreaks, severe storms, high winds and floods... and that's only with half of June gone by so far.

I admit to a personal bias about this, since it was a large weather net that got me back into ham radio in the 70's. Passing Tech and General, all I wanted was a two meter rig (crystal controlled, right?) and to participate in the net. Then, a ham co-worker introduced me to the Hurricane Watch Net on HF as a major storm tore through Florida. I was hooked... and still am. I have more than ten years in the Hurricane Net now working as Assistant Net Manager, and we in Delaware County have just launched our county-level storm spotter net as a subordinate net to Central Ohio Severe Weather Net. Our local net has a couple strong storm systems under its belt, and more hams are participating. It's gratifying to hear a need for information from a specific area and sure enough, there's someone right where we need them!

It has been busy. On June 8, six tornadoes were confirmed in Ohio, in Darke County, West Milton, Springfield, Urbana, Sardinia and Hocking County. Numerous other watches and warnings kept the nets busy. We elected to monitor the situation remotely, ready to activate the digital voice systems and HF if it got any worse. It didn't quite grow into a statewide situation and we don't want to monopolize the frequencies unnecessarily. Here is one summary from the Ohio EMA:

- Southeast Regional Counties advised they have an area near Mercerville OH with multiple trees down, including on buildings, and advised they would be evaluating damages later this afternoon. Many counties also had localized flooding.

- In Clark County local crews report downed trees on roadways, downed powerlines, and multiple trees that fell into a homes, possibly caused by a tornado-warned storm around 7:30 p.m.

- Gallia County EMA Director advised she conducted further evaluation of the Mercerville area of Gallia County this morning and had been in contact with NWS Charleston. The county had 4 homes with damage to roofs, windows, and a porch. She also advised there was damage to siding on several homes. Everyone that she has spoken with did have insurance and no injuries or displacements were reported. The NWS stated they believe the damage was caused by straight line winds according to the director.

- Damage to a barn was reported on open source media in Darke County, OH.

- In Perry County the Somerset Reservoirs secondary levee was damaged. There is no concern of failure from the primary levee at this time. Perry County EMA reports a lot of tree damage all in one direction and it appears to be from straight line winds. The Somerset Water Department has experienced damage in their reservoir area. They received approximately 2 ½ inches of water in within 40 minutes. The reservoir has 2 dams. The first is earthen with concrete spillway and the secondary is wooden with rubber lining with a concrete spillway. The secondary wooden dam failed and they have lost 2 – 8 ft concrete wall sections of the spillway.

Later, beginning around June 12, forecasters at the NWS "Storm Prediction Center" began to discuss the potential for more weather on the 13th. It wasn't a slam-dunk forecasting situation- there were many variables (multiple pressure systems, discrepancies between upper level winds, sheer, and ground heating) that made it difficult. As the hours progressed wording became more precise and it was clear we were in for a bumpy night on a very large scale. Ohio EMA called a last-minute video conference with all state departments and services (including ARES) to hear specific forecast information from the Wilmington NWS office. This situation had serious potential to become a statewide event, so we elected to open the W8SGT station at the Ohio EOC.

The first wave was a group of severe storms moving across from Richmond, IN. The second wave was an even greater batch of storms quickly maturing over WI and MI, headed down into Ohio. Had the first batch spread over more of the state the second would find not enough energy and basically smooth down. But the first wave stayed below I-70, bringing warnings and damage as it drifted slightly south... leaving all that heat energy for wave number two. And it took the bait!

Richard, KD8PHG, and I reported to the EOC around 6PM, and we would be there until about 1:30 AM on the 14th opening frequencies on 3.902, DMR 3139 and Fusion "Ohio Link". By using our phased multi-element beams at around 100' we were able to monitor spotter nets in Dayton, Bucyrus, Mansfield, Delaware, Franklin and Licking counties as the storms went through. We were also directly chatting with NWS Wilmington and Cleveland, and were

talking back and forth with the Ohio "Watch Desk" staff who were also busy monitoring the situation. We were able to convey some details of activity to them.

Here is an early morning summary from Ohio EMA:

- Holmes County - multiple power outages and some roadways are currently impassable due to downed power lines and trees. The Sheriff issued a level 3 roadway emergency limiting access to emergency personnel only. The county is currently using snow plows to move some trees of roadways.

- Ashland, Richland, and Wayne counties- no significant damages to houses, nursing homes, or any other critical facilities.

- Wayne County is under a level two emergency- meaning roadways are closed unless there is an emergency.

- Butler County EMA director and regional staff will be meeting officials from Duke Energy at the Butler County Fairgrounds (1715 Fair grove Ave, Hamilton, OH 45011) to work logistics for their requested staging area. Damage Assessment continues to be conducted county wide, the Midpoint library system is officially opening each of its branches (located in Liberty Twp., Middletown, Monroe, Trenton and West Chester Twp.) as cooling centers.

- Clinton County is reporting as of 6am this morning they have 510 AES customers without power. No ERT currently. They are working on local clearing and marking hazards as they dispatched.

- Clermont County is reporting they are monitoring power outages and damage reports. A neighborhood in Miami Township (Cross Street: Weber Road and Weber Oaks) is inaccessible due to down wires. They are working with Duke Energy to expedite this issue. There have been four structures identified with damage and multiple roads impacted due to down trees and wires.

- Warren County has at least three households with displaced individuals due to storm impacts. Damage assessment Is ongoing this morning.

- Energy: Department of Energy webpage currently not working. However, PowerOutage.US is reporting 334,572 statewide outages.

- First Energy is reporting 48,568 affected customers.

- AEP is tracking 136,062 customer outages. ERT's range from 9:30 am to midnight tonight.

- AES is reporting 10,984 customers without power.

- Washington Electric Cooperative, Inc- Ohio us reporting approximately 1,100 power outages. A majority are in Washington County, several in Noble and Monroe Counties. No ERT available.

- South Central Power Co is currently reporting 5,379 members without power in 17 counties. The largest outages are in Belmont, Harrison, Highland, Hocking, Perry, and Pike. No ERT available.

- Our partners at PUCO shared that as of 6:15am this morning that Duke Energy is reporting 93,000 customers without power. The most affected counties in their coverage is Brown (400), Butler (31,000), Clermont (5,000), Hamilton (41,000), and Warren (16,000). No ETR's are available at this time.

- First Energy has an ERT for Cuyahoga county between 8:30 and 10:30am this morning.

In nearly all of these events, ham radio operators were either directly reporting damage and severe activities or at least were in a position to confirm.

Highest regards to all who devote their time in this most important activity! Other activities in ham radio are very rewarding but cooperating to help save lives and property has to be the most important thing we all can do! Thank you!

How to be a good weather spotter

- Most important: Just **be there**! The function of a spotter net is to have eyes up in as many locations as possible. Listen for weather developments, have ways to receive alerts and when a spotter net is activated, participate!
- In order to spot, you must be able to see. If you don't have a wide and long view of the western sky, you should consider finding a safe place from which to report. You can't adequately spot from a recliner -- unless you face a large picture window to the west :-)
- Get training. Know what to look for.
- The best net is a *quiet* net. If you observe a severe element report it! If you are not under severe conditions, there is nothing to report. LISTEN and keep the air clear for those who do have a report.
- If you have a report, be professional and concise. Use as few words as required to convey what you see.
  - Your exact location (or nearby intersections)
  - Wind direction and speed
  - Other severe conditions you witness.
  - Hail in inches or specific sizes. (Quarter size is good. Marble size can mean literally anything. 2.5" is more specific!)

- o Tree fall: is it a live, viable tree? What size limb/trunk in diameter? Any wires affected or damage from the fall?

What we DO NOT need:
- Information from a public source (TV, airport listings, etc. We already have those.)
- "The sirens are sounding!" (We know)
- Lightning, unless significantly severe
- Rainfall, unless 2" per hour rate
- Generally we do not need to hear alert messages like watches and warnings, radar reports or other content- we already have that, and our operators are watching radar, thanks.

How do I get information about what's going on?
- The best advice is to LISTEN. We try during regular intervals to repeat watch and warning information, along with any updates. You should be able to catch up within ten minutes or so.
- If something really serious is actually going on, you'll hear it direct from the reporting stations- and you'll get a great idea of where it is and where it's going.

An exception to "listen" is if you have a large gathering of people (for example) who would be seriously affected. It's important to give a short description and an *exact* location. We will watch for you, and pass that on to NWS forecasters if needed so they can give us a specific alert.

Know that whether you're in the hot seat with lots of reports, or whether you're quietly watching and listening you are vital! You are also very much appreciated. Thank you!

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FROM THE PIC
John E. Ross
ARRL Ohio Section Public Information Coordinator
KD8IDJ @ ARRL.NET
614-459-4292 Home
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NEWSLETTER DEADLINE IS HERE!

Midnight June 30 is just days away and that's the deadline for the 2022 Ohio Section Newsletter Contest.

All entries must be here by midnight to be eligible to participate and you'll need two copies of newsletters from different months. You can send copies of your newsletter or a link to your club's website where they can be viewed…but all needs to be submitted by midnight June 30.

The judges will begin their work right after the July 4th holiday and winner will be announced at the Columbus Hamfest on Saturday August 6. The location is the Aladdin Shrine Temple on Grove city.

There has been a steady increase of submissions the past few weeks so this's contest is shaping up to be one of the biggest yet.

The judges are ready…get you entries in…and we'll have a great time on August 6 . GOOD LUCK!!!

ANTENNAS UP!

While we usually talk about writing, journalism, and media here in the PIC COLUMN I was remined this also the time of year to talk about our antennas…or antenni…or aerial…which ever you prefer.

The warmer (and hotter) months are good times for making sure one the most important parts of your equipment are good for the long run. Antennas are fickle. They seem to perfectly work one day and not at the next. Making sure connectors are tight and waterproofed, grounds are all good and there is lightening protection are easier to spot during nice, calm weather.

Just this past month we have had some strong storms and incredible heat putting our equipment to the test during weather and power emergencies. Now is the time to take at look your antenna system and make repairs so you can be on the when it counts. So, take nice dry afternoon and look up…and down…to make sure you signal has a place to go!

NOW BACK TO JOURNALISM

I learned last week there is a good chance another large commercial newspaper will shut down at the end of the year.

We have seen this trend over the past years with smaller newspapers merging or being absorbed by my larger papers. Often communities are left without a newspaper and that means communicating about amateur radio is more difficult.

You might want to think ahead about you current contacts and talk to them about any upcoming changes or different ways to send you messages. Things usually happen very quickly and it's best to have an alternate plan…and contacts…ahead of time. Same thing for radio and television stations. Usually, broadcast facilities are very fluid and fast to make changes without a lot of notice.

There are many great ways to communicate with other hams but informing the whole town or community will need some creative approaches. Start now so all your important messages can get through.

From the Section Youth Coordinator
*Anthony Luscre, K8ZT - SYC*
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VHF/UHF 101- Getting Started on VHF with Your New Tech License

Three One-Hour Sessions

Starting in July, I will be co-presenting with Marty Woll, N6VI, a series of three sessions covering almost all aspects of getting on VHF/UHF for new hams. The sessions will be held on three consecutive Wednesdays- July 6th, 13th & 20th at 9 PM Eastern Time.

We will start with acquiring your radio-
- Choices to make {Analog or Digital {DMR, D-Star, Fusion, Single Band {usually 2M} vs. Dual Band {2M/70 cm}, etc.)
- Different types of radios (Handheld {HT}, Mobile or Base, etc.)
- Where to acquire
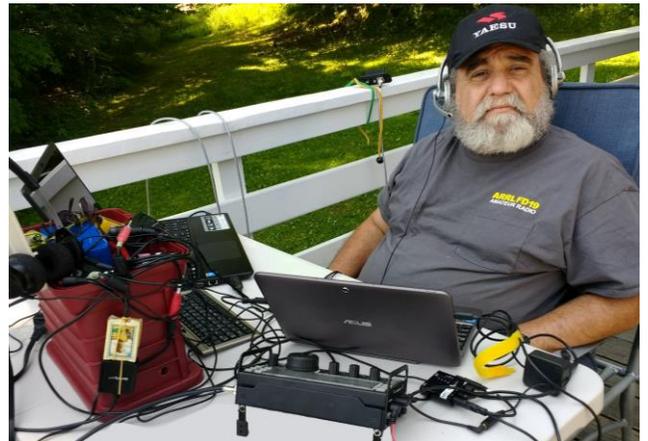
Setting Up your radio
- Simplex contacts
- Repeater contacts
- Extending your range

Going Mobile
- Radios
- Antennas
- Installation

Base Stations
- Radios
- Antennas
- Feedlines

Life Beyond the Local Repeater
- Extending your range
  - Enhancing your HTs antenna
  - External antennas
- Modes beyond FM
  - SSB
  - CW
  - Digital Sound Card Modes (FT8/FT4)
  - Wi-Fi
  - Images
- Other Activities
  - Simplex
  - DMR
  - Other Bands (VHF, UHF, Microwaves)
  - Contesting
    - Home
    - Portable
    - Roving
  - SOTA/POTA
  - EmComm
  - VARA FM
  - EchoLink
  - Satellites
  - APRS
  - Fox Hunting
  - EME (Earth-Moon-Earth)
  - Repeaters
    - Crossband repeating

FM Simplex Frequencies

- Different suggested channel spacing by state

2 M Channel Spacing- 15 kHz vs. 20 kHz
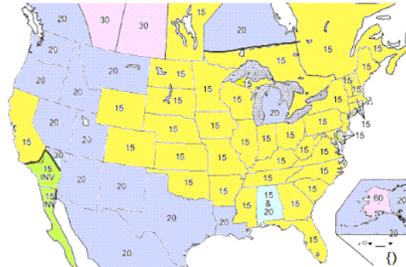
2 M FM Simplex (15 & 20 kHz Channelization)				
	146.400	146.505	147.405	147.510
	146.415	146.520	147.420	147.525
	146.430	146.535	147.435	147.540
15	146.445	146.550	147.450	147.555
	146.460	146.565	147.465	147.570
	146.475	146.580	147.480	147.585
	146.490	146.595	147.495	
	146.400	146.500	147.400	147.500
	146.420	146.520	147.420	147.520
20	146.440	146.540	147.440	147.540
	146.460	146.560	147.460	147.560
	146.480	146.580	147.480	147.580
	* Same	146.600	* National Calling Freq	

- ■ Simplex repeater
- ■ Setting up a duplex repeater

All three sessions are free and will also be recorded. They are sponsored by the RATPAC group, which has over 200 recorded previous sessions on a wide variety of Amateur Radio topics- tiny.cc/ratpac-list. The Zoom link to attend the meetings is
https://us02web.zoom.us/j/2128884758?pwd=VTE0ajAraG0rMyticmtwN2ZCdHZ3Zz09
Meeting ID: 212 888 4758
Passcode: WEDNESDAY

That's it for this month; I hope you got a chance to work Field Day. I was at W8VPV, mainly operating CW.
73,
Anthony, K8ZT (k8zt@arrl.net)

From the Section Traffic Manager
David Maynard, WA3EZN – STM
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Message Handling

Radiograms are sent via a network of ham radio operators affiliated with either the National Traffic System (NTS), sponsored by the American Radio Relay League, or Radio Relay International.

These organizations exist to meet two principle objectives:

1. Rapid movement of traffic from origin to destination.
2. Training amateur operators to handle written traffic and participate in directed nets.

Traffic nets operate daily and consists of four different net levels: AREA, REGION, SECTION, and LOCAL

The four levels operate in an orderly time sequence to make a definite flow pattern for traffic, from origin to destination.

Who can participate? - Any licensed radio amateur with an interest in traffic handling.

The ARRL Radiogram

The ARRL provides a standard form for all radiograms transmitted via the NTS. This uniformity ensures that NTS operators can quickly and efficiently handle traffic.

Download PDF version of the Radiogram form:
http://www.arrl.org/files/file/Public%20Service/RADIOGRAM-2011.pdf

Additional Field Service forms here: http://www.arrl.org/public-service-field-services-forms

Every radiogram message originated and handled should contain the following 4 main components:

1. PREAMBLE
The Preamble includes information used to prioritize and track the message and ensure
 its accuracy.

2. ADDRESS
This includes the name, address, city, state, ZIP, and telephone number of the intended
recipient, as complete as possible. (Note that punctuation is not used in the Addresss
section).

3. TEXT
The message information, limited to 25 words or less if possible. Normal punctuation
characters are not used in the text. A question mark is sent as QUERY, while DASH is
sent for a hyphen. The letter X is used as a period, (but never afetr the last group of the
 text), and counts as a word when figuring the Check. The letter R is used in place of a
decimal in mixed figure groups. For example (146R52 for 146.52).

4. SIGNATURE
The name of the party for whom the message was originated. This may include
additional information such as Amateur Radio call sign, title, address, phone number,
and so on.

Preamble

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
A	B	C	D	E	F	G	H

A.   **NUMBER -** This indicates the serial number of the message. It is assigned by the Station of Origin and never changed. Numbering is necessary because hams may handle dozens of messages daily, and without a

numbering system it would be difficult to identify any given message.

B. **PRECEDENCE -** Determines the order in which traffic is passed. Assign each message a Precedence of R (Routine), W (Welfare), P (Priority) or EMERGENCY.

C. **HX (Handling Instructions) -** Optional, used only if a specific need is present. Handling instructions are detailed below.

D. **STATION OF ORIGIN** - The call sign of the station originating (creating) the message.

E. **CHECK** - The number of words or word groups contained in the Body of the message. (A word group is defined as any group of 1 or more consecutive characters with no interrupting spaces).

F. **PLACE OF ORIGIN** - The location (city and state) of the party for whom the message was created and not necessarily the location of the Station of Origin.

G. **TIME FILED** - Optional, used only when the filing time has some importance relative to the Precedence, Handling Instructions or Message Body.

H. **DATE -** The date the message was first sent via NTS system, not the date the operator first wrote the message.

Precedence

EMERGENCY - Any message having life and death urgency to any person or group of persons, that is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instructions vital to relief efforts for the stricken populance in emergency areas. On CW and digital modes, this designation will always be spelled out. When in doubt, do not use this designation.

PRIORITY - Abbreviated as P on CW and digital modes. This classification is for important messages having a specific time limit. Official messages not covered in the emergency category, press dispatches and emergency-related traffic not of the utmost urgency.

WELFARE - Abbreviated as W on CW and digital modes. This classification refers to an inquiry about the health and welfare of an individual in the disaster area, or to an advisory from the disaster area that indicates "all is well." Welfare traffic is handled only after all emergency and priority traffic is cleared. The American Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

ROUTINE - Abbreviated as R on CW and digital modes. Most traffic in normal times will bear this designation. In disaster situations, traffic labeled routine should be handled last or not at all, when circuits are busy with higher-precedence traffic.

Handling Instructions

Handling Instructions (HX) convey special instructions to operators handling and delivering the message. The instruction is inserted in the message Preamble between the Precedence and the Station of Origin. Its use is optional with the originating stations, but once inserted it is mandatory with all relaying stations.

PROSIGN INSTRUCTION

HXA - (Followed by number). Collect land line delivery authorized by addressee within _____ miles. (If no number, authorization is unlimited).

HXB - (Followed by number). Cancel message if not delivered within _____ hours of filing time; service originating station.

HXC - Report date and time of delivery. (TOD) to originating station.

HXD - Report to originating station the identity of station from which received, plus date and time. Report identity of station to which relayed, plus date and time, or if delivered, report date, time and method of delivery.

HXE - Delivering station get reply from addressee, originate message back.

HXF - (Followed by number). Hold delivery until _____ (date).

HXG - Delivery by mail or landline toll call not required. If toll or other expense involved, cancel message and service originating station.

Address

The name, call sign (if going to a ham), street address or P.O. Box, city, state (abbreviated) and ZIP code of the person the message is being sent to. Clear, complete addresses are desirable. Include in the address of your message all matter that is necessary to enable operators to identify, contact, or locate the addressee.

Telephone Number: Be sure to include the area code and double-check the number!!

Note - Digital and Packet NTS messages are routed via ZIP code.

Received At

This Radio Message was Received at: Your station identification.

Message Body

TEXT: The message information, limited to 25 words or less, if possible. Normal punctuation characters are not used in the text. A question mark is sent as QUERY, while DASH is sent for a hyphen. The letter X is used as a period (but never after the last group of the text), and counts as a word when figuring the CHECK.

The letter R is used in place of a decimal in mixed figure groups. Example: 146R52 instead of 146.52

SIGNATURE: There is no "Signature" field. Just write it in below the text; Name and call sign of author - include phone number if not a ham or if not known on an NTS net.

Received From

Call sign or individual from whom you received the message and date and time of receipt. Time may be either your local time or UTC time. Make sure the date agrees with the time. (Remember UTC time is ahead of EST and can cause the date to roll forward).

Sent To

Call sign you sent to or passed the message to, or to whom you delivered it, with date and time. Also good to note delivery method for your own reference. (i.e., via phone or left on voice mail). Always leave your call

back number if message was left on voice mail!

Numbered Radiograms

Numbered radiograms are an efficient way to convey common messages. The letters ARL are inserted in the preamble in the check and in the text before spelled-out numbers. Note that some ARL texts include insertion of information.

Link to complete list of Numbered Radiograms, http://www.arrl.org/files/file/Public%20Service/FSD_3.pdf

The ICS-213 Message Format

The ICS-213 message form is the standard format used by FEMA and EmComm organizations. The **General Message (ICS- 213)** is used by incident dispatchers to record incoming messages that cannot be orally transmitted to the intended recipients. The ICS-213 is also used by Incident Command Post and other incident personnel to transmit messages (e.g., resource order, incident name change, other ICS coordination issues, etc. to the Incident Communications Center for transmission via radio or telephone to the addressee. The form is **used** to send any **message** or notification to **incident** personnel that require hard-copy delivery.

The ICS-213 may be initiated by incident dispatchers and any other personnel on an incident.

Distribution - Upon completion, the ICS-213 may be delivered to the addressee and/or delivered to the incident Communication Center for transmission.

Another variation of this form is the ICS-213RR, which is specifically used for Resource Requests.

GENERAL MESSAGE (ICS 213)

1. Incident Name (Optional):		
2. To (Name and Position):		
3. From (Name and Position):		
4. Subject:	5. Date:	6. Time
7. Message:		

1: Enter the name assigned to the incident. (Optional)

2: Enter the name and position the General Message is intended for. For all individuals, use at least the   first initial and last name. For Unified Command, include agency names.

3: Enter the name and position of the individual sending the General Message. For all individuals, use at least the first initial and last name. For Unified Command, include agency names.

4: Enter the subject of the message.

5: Enter the date (month/day/year) of the message.

6: Enter the time (using the 24-hour clock) of the message.

7: Enter the content of the message. Try to be as concise as possible.

```
8. Approved by: Name:_____ Signature:_____ Position/Title: _____

9. Reply:





















10. Replied by: Name:_____ Position/Title:_____ Signature: _____

ICS 213                              Date/Time: _____
```

8. Enter the name, signature, and ICS position/title of the person approving the message.

9: The intended recipient will enter a reply to the message and return it to the originator.

10: Enter the name, ICS position/title, and signature of the person replying to the message. Enter date (month/day/year) and time prepared (24 - hour clock).

http://www.ws1sm.com/Message-Handling.html

ARES Training Update
Jim Yoder, W8ERW – ARES Data Manager
w8erw@arrl.net

ARES Training Update

Here we are on the eve of Field Day and preparations are being made everywhere. Seneca County ARES with the Seneca Radio Club will be setup in Bascom, Ohio in the back part of Meadowbrook Park. We've had at least two media pieces published to announce Field Day 2022. I've been working on our AREDN MESH Network to facilitate centralized Field Day logging on N3FPJ's program and others are working
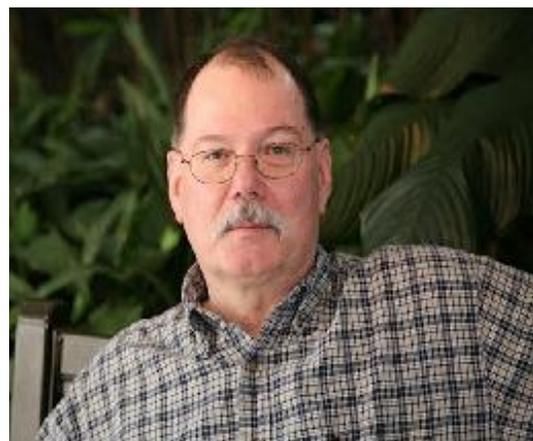
on the menu to feed the hungry operators. The tent crew and a generator(s) are lined up and we will be careful not to shoot any squirrels while launching antennas with the spud gun(s) on Saturday morning. Breakfast is scheduled for early Saturday morning before we begin. I think we will be ready to light up the ether in fine fashion by 2PM Saturday. Listen for W8ID on the bands. We'll be pleased to make a contact.

Dan AC8NP and I have been working on the AREDN Mesh Network and N3FPJ's Field Day logging software. We will be out in the open at Meadowbrook and I don't anticipate any problems. Our dry run here at my QTH has gone well with all MESH Nodes and laptops logging and communicating very well. Our operation will include three tents for operating and the main AREDN MESH nodes will have high profile MiMo antennas and Ubiquiti Rockets. We will DTD those to individual MESH nodes, Ubiquiti AirRouters and Mikrotik hAP AC Lite units, in the tents as necessary.

Again this month our training numbers have increased. We have 1101 active members who have submitted training documents, Level 1 = 889, Level2 = 749 and Level 3 = 219. 71 have completed Aux Com. Many others have gone well beyond NIMS and have additional certificates on file. Keep up the good work friends. The Ohio Section continues to be the example.

This is a short one this month with all the Field Day preparation on the heels of the Hamvention, I'm about worn out and it's time to send this one to our Section Manager for publication.

Thanks to all and best wishes for your Field Day operation,

Jim
W8ERW

<u>Watch Live Launch Coverage of the CAPSTONE Mission to the Moon</u>

Tune in Monday, June 27, to watch the launch of CAPSTONE, our first mission testing a unique flight path around the Moon that Gateway, our future lunar space station, will also use.

CAPSTONE will launch aboard a Rocket Lab Electron rocket from the company's Launch Complex 1 in Mahia, New Zealand. Once released from Rocket Lab's Photon satellite bus, the microwave-sized

spacecraft – which is owned and operated by Advanced Space for NASA – will embark on a four-month journey to its target destination: the Moon. CAPSTONE will spend at least six months testing an unusual orbital path around the Moon, helping reduce risk for future spacecraft and demonstrating navigation technologies that would allow future spacecraft to determine their location in space without relying exclusively on tracking from Earth.

The instantaneous launch opportunity is at 6 a.m. EDT (10:00 UTC) on Monday, June 27. Live coverage will begin at 5 a.m. on NASA Television, the agency's website, the NASA app, and our social media channels.

Members of the public are invited to join the virtual NASA Social to get a behind-the scenes look at CAPSTONE, learn what makes CAPSTONE unique among NASA's missions, meet the rocket launching CAPSTONE, and more.

And after the launch, you can follow CAPSTONE's journey live using NASA's Eyes on the Solar System interactive real-time 3D data visualization. Starting about one week after launch, you can virtually ride along with the CubeSat with a simulated solar system view. NASA will post updates in the visualization on the agency's Ames Research Center home page as well as Twitter and Facebook.

<div align="center">

Watch the Launch Online

</div>

To celebrate the first three stages of the 2022Tour de France bicycle race in Denmark, there will be a special event station on the air from July 1 - 3.

OZ22TDF will operate from 0800 - 1600 UTC using the 10 -12 -15 -17 - 20 - 30 - 40- and 80-meter bands using CW, FT8 and SSB.

D-STAR (Digital Smart Technologies for Amateur Radio) will also be available at, DCS994F.

All contacts will be logged and e-QSL will be used.

For more information visit, OZ22TDF QRZ.com

New Treasurer John Sager, WJ7S, Says ARRL a Perfect Match

ARRL's new Treasurer, John R. Sager, WJ7S, officially took office on May 1, 2022, and is already helping to plan the ARRL's financial future.

Sager brings with him over 40 years of financial management experience. He is a Chartered Financial Analyst, a Certified Cash Manager, and holds Bachelor of Arts and Master of Business

Administration degrees from the University of Utah. He is also a licensed amateur radio operator.

What led him to ARRL?

"The ARRL is the best organization out there to advocate for ham radio interests, and the best we have to ensure the hobby has a future," said Sager. "I support all the ARRL does, such as advocacy to protect antenna rights, and everything they do to keep this privilege."

Sager said that with the additions of CEO David Minster, NA2AA, and President Rick Roderick, K5UR, ARRL has turned a corner and he wanted to be a part of the effort.

"I have two big passions: amateur radio and the financial markets," he said. "Though retiring after 40 years, I saw the notice that ARRL Treasurer Dr. Rick Niswander, K7GM, was retiring. I thought it was a perfect opportunity to give back to the hobby and combine two interests that are very dear to me."
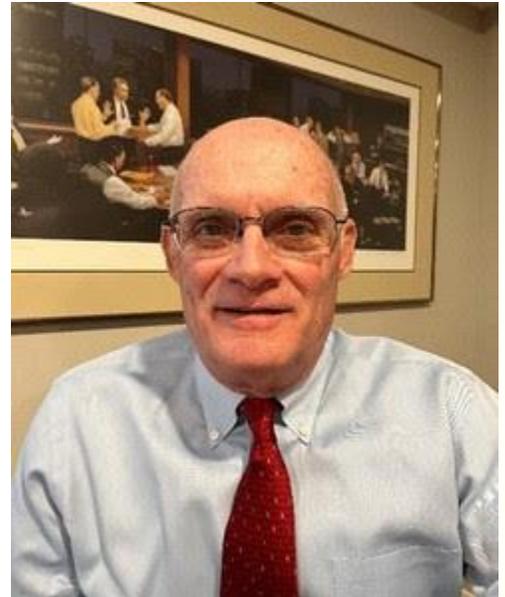
New ARRL Treasurer John Sager, WJ7S

Sager got his start in amateur radio as a shortwave listener. His family moved to Holland when he was 10 years old, where he found an old Zenith Trans-Oceanic radio. With a little rehab, including soldering and tube replacement, he was able to listen to stations from all over the world, including the many pirate radio stations of the day. He learned Morse code and was able to listen to the "magic mode" (CW), which piqued his interest in amateur radio.

After returning to the states, he enjoyed visiting the ham shack of a friend's father and experiencing the many different modes of communications.

Sager earned his Technician- and General-class licenses in 2010, and his Amateur Extra-class license in 2011. Today, CW is still his favorite mode, and he is not sure if there is a microphone in his shack.

One of his first priorities as Treasurer is working with a new investment management committee.

"I believe in overseeing and monitoring the best investments, over a long period of time, to ensure ARRL survives and has the resources to pursue different ventures that come along in the future."

Sager hopes a solid investment program will result in a more effective strategy of attracting donors, ensuring ARRL has a legacy going into the future. Sager hopes all the work will pay great dividends that can help every amateur radio operator.

Like many other retired professionals, Sager believes the hobby of amateur radio opens many other doors and opportunities.

Club Corner

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

Let us 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?

Send it to: webmaster@arrl-ohio.org

Alliance Radio Club Raffle

Each year since 2020, the Alliance Amateur Radio Club in alliance, OH has raffled off a HF Rig. With each year, the interest grows. A portion of the money raised goes back into the Alliance area in the form of donations to local service groups at Christmas Time.
In 2021, moneys from our raffle combined with proceeds from the fundraiser at our Annual meeting allowed us to donate over $1000 to Charities in the Alliance Ohio area.
This year, we've chosen as our raffle item, an Icom IC-7300 HF + 6M Radio.
The winning ticket will be drawn on July 13th. The winner need not be present to win. You can learn more, and purchase tickets at https://www.w8lky.org/about-us/2022-fundraiser/. Questions can be directed to mailto:fundraiser@w8lky.org

YDXA Trip for 2022 is happening!

Dave Kalter Memorial Youth DX Adventure

Just about time to go! July 14-19, 2022.

Soon we will be winging our way to Curacao. The team is all ready and excited to be finally going. Travel has gotten interesting and some of us have overnight stays at airports in order to make connections. We are scheduled to arrive late afternoon on the 14th and hope to be on the air int the early evening. We may be tired so bear with us. Plan to be on all bands SSB, CW and FT8. Not all at once but we plan to have at least two radios on the air as much as possible.

As everyone else, expenses have gone through the roof. Please consider supporting the effort with a donation. All those donating will have their name and callsign or logo shown on our qsl card. See the left panel for mailing instructions for donations. We are part of a 501c(3) organization.

We are extremely grateful for the generosity of the CCC, especially Geoff and Uli in hosting us again for our 2022 event.

VE Sessions

All Things Amateur Radio Association (ATARA) We host testing sessions every second Tuesday of the month to sign up please visit our website https://atara-w8atr.fun and contact us at hamexams@atara-w8atr.fun. We have room in our next class to avoid the coming fees by the FCC!

CARS
VE testing from CARS - Cuyahoga Amateur Radio Society - at Elmwood Recreation Center, 6200 Wisnieski Parkway in Independence, Ohio 44131 Time: 9:15 AM (Walk-ins allowed) Always the 2nd Sunday of the odd month. Go to CARS www.2cars.org for detailed map of location. Call Metro W8MET 216-520-1320 for details

Dayton Amateur Radio Association (DARA)
 If you are interested in testing for a new or upgraded license, please come see us at the DARA Clubhouse. If you have questions about testing, please email exams.w8bi@gmail.com

The Lake County Amateur Radio Association
The Lake County Amateur Radio Association is once again holding its **2022** Amateur Radio license exams at the **Kirtland Library**, 9267 Chillicothe Road, on the following dates:
Saturday, June 4, August 6, October 1, and December 3.
The tests will start at **12 noon.** Please arrive a few minutes earlier.

The Lancaster and Fairfield County Amateur Radio Club (LFCARC) hosts exam sessions at the FAIRFIELD County EMA, 240 Baldwin Dr in Lancaster Ohio, 43130, on the first Saturday each month at 10:00 am. Please visit our website at http://www.k8qik.org for exam dates on our calendar and navigate to our Learning Center/Taking the Exam link for information and requirements. Our VE team looks forward to serving the Amateur Radio community in Central Ohio and across our nation. We have an experienced team that has tested candidates from Alaska, Florida, Texas and points in between! Contact me at ve_testing@k8qik.org to register.

The Milford Amateur Radio Club (MARC) is now doing VE testing on the third Thursday of each month at 6:00 PM. Location; Miami Township Civic Center located at 6101 Meijer Drive, Milford, OH 45150.
 Please pre-register at www.milfordhamradio.org

Portage County Amateur Radio Service (PCARS)
The first Saturday of every even numbered month -10 am – at the PCARS club site in Ravenna. Please visit the PCARS web site and check out the information about VE testing in the latest newsletter at www.portcars.org .
If you have any questions, don't hesitate to contact me at KB8UUZ@gmail,com

Highland Amateur Radio Association

Check out their article about being chosen the Hamvention Club of the Year for 2022!

https://highlandcountypress.com/Content/Default/Rotator-Articles-/Article/Highland-Amateur-Radio-Association-receives-international-recognition/-3/546/79510

You might want to think about how *your* local club might increase their visibility in the community by utilizing local newspaper and media. HARA has certainly done an excellent job with this!

Club Grant Program

The ARRL Club Grant Program is now accepting applications. Your club, whether it's an ARRL Affiliated Club or not, can apply for a grant of up to $25,000. Details about the program were discussed in an online seminar that aired on May 4, which is now available on YouTube. Additional information is also posted on the ARRL Foundation Club Grant Program web page. If your club has a project they'd like to pursue, or if they have another need for funding, you're invited to explore the Club Grant Program. Questions may be directed to clubgrants@arrl.org. The application deadline is June 30 at 7:00 PM Eastern.

Club Commission Program Update

One of the benefits of being an ARRL Affiliated Club is that you can receive a commission for recruiting new ARRL members and securing timely ARRL membership renewals. The commission structure for this program has been updated, and the process has changed to make things easier for the clubs. The new procedure involves all membership dues being sent to ARRL for processing, prior to the club receiving a commission payment directly from ARRL. The complication of adjusting funds around credit cards, checks, and cash has been eliminated. ARRL is now responsible for all of the processing. As a result, your club could earn money while promoting the many benefits and programs of ARRL, to help ensure that the amateur radio hobby is protected and continues to grow.

Additionally, the commission rate has changed. Now, clubs will receive $15 for each new membership or lapsed membership (of 2 years or more). For renewing members, clubs will now receive $5. There is no limit to the amount that a club can earn in this program.

Club leadership is encouraged to let their membership know that the club can benefit from this program. Only regular memberships are eligible for commission. Life, International, Family, Blind, and Student memberships are ineligible for commission.

The new Club Commission Program is available for all ARRL Affiliated Clubs and goes into effect on June 1. Additional information, as well as FAQs, can be found on the Affiliated Club Benefits web page.

How to Plan and Apply for an ARRL Hamfest or Convention

If your amateur radio club is planning to host a convention, hamfest, tailgate, or swapfest, please consider applying for ARRL sanctioned status for your event. To learn what it means to be an ARRL-sanctioned event,

and to get some ideas on how to prepare for and conduct a hamfest or convention, visit www.arrl.org/arrl-sanctioned-events.

To apply for ARRL sanctioned status for your event, log on to www.arrl.org/hamfest-convention-application.

The ARRL Hamfests and Conventions Calendar can be found online at www.arrl.org/hamfests. In addition, the Convention and Hamfest Calendar that runs in *QST* each month also presents information about upcoming events.

Important Links

ARRL Home: www.arrl.org

Find an ARRL Affiliated Club: www.arrl.org/clubs

Find your ARRL Section: www.arrl.org/sections

Find a License Class in your area: www.arrl.org/class

Find a License Exam in your area: www.arrl.org/exam

Find a Hamfest or Convention: www.arrl.org/hamfests

Email ARRL Clubs: clubs@arrl.org

Club Station

ARRL invites you to be part of "Club Station," the newest column in *QST*. This column, written by clubs, for clubs, is a designated space to share specific and practical ideas about what has contributed to successful clubs to help others grow and thrive.

In each issue, a different club will share how they undertook a specific activity or project, how and why it was successful, and any challenges they may have had to overcome throughout the process. Some examples include successful community club projects, creative ways to attract new members, or getting youth involved with ham radio. Additionally, many clubs across the country are being creative in meeting the challenges of COVID-19 to figure out how to keep club members active and enthusiastic.

If your club has developed a creative way to get around common challenges, we want to hear from you! In order to help you tell your story, we have published a new version of the ARRL Author's Guide that is geared toward "Club Station," and includes a club profile form. Both of these documents can be found here. You don't have to have writing experience to be published in *QST*, and if your submission is accepted, our editorial staff will work with you to get your story ready for publication.

All clubs are welcome to participate. If you have any questions, contact us at clubs@arrl.org.

We look forward to hearing from you and hearing your story!

ARRL Youth Licensing Grant Program

As of April 19, 2022, ARRL covers the one-time $35 application fee for new license candidates younger than 18 years old that take tests administered under the ARRL Volunteer Examiner Coordinator (ARRL VEC) program. As part of the ARRL Youth Licensing Grant Program, the $35 FCC application fee will be reimbursed after the ARRL VEC receives the completed reimbursement form and the new license has been issued by the FCC. The reimbursement check will be mailed to the fee payer. Also, candidates younger than the age of 18 would pay the ARRL VEC team a reduced exam session fee of $5 at the time of the exam. The $5 fee is for all candidates under the age of 18, regardless of the exam level taken. Proof of age is required at the session.

The Ohio Section Youth Net

Youth Net
When: The second Sunday of every month at 7:30 PM EST
Where: The K8IV repeater located in Kent, Ohio (Echolink node K8BF-L) RF: 146.895 Mhz with PL 118.8
Who: Any licensed amateur radio operator who wishes to participate. Priority will be given to youth stations and those located in Ohio.
The purpose of this net is to encourage youth activity in amateur radio and to help new hams get more comfortable on the air.

Canton ARC

Once again the seven-week session of Buckeye Council's BSA summer camp will be offering the Radio Merit Badge. A lodge building is set aside to teach nine different STEM badges to youth who attend camp at Seven Ranges Scout Reservation in Carroll County. The Canton ARC has supported this endeavor by supplying member's time and resources. Often, members of other radio clubs will be attending camp and are able to volunteer. Estates of two area hams have generously contributed transceivers and other materials. Camp station KT8BSA is active on HF and VHF during days and evenings, subject to availability of licensed operators.

Dale Lamm NX8J

DX This Week – Incoming QSL Buro

Bill AJ8B (aj8b@arrl.net, @AJ8B, or www.aj8b.com)
        CWOPs Member #1567

Conditions have been tough the past couple of weeks. BUT..have you tried the bottom of 30M? I have been able to work quite a bit of good DX, filled some band slots, and added Z21RU to my 30 and 40 M CW totals.

Let me know what you are working and hearing. Conditions have been changing almost hourly and you just never know!

DAH DIT DIT DIT DAH   DAH DIT DIT DIT DAH

I received several nice cards this week including E27TE – Prasong from Thailand. Let me know what you received!

DAH DIT DIT DIT DAH   DAH DIT DIT DIT DAH

There are some basics to DXing that I like to cover each year. One of those is the DXCC program and DX Card submission. There two ways that you can submit contacts (QSOs) for consideration of awards. The first is to have the cards checked by a certified card checker. The second is to process and submit all the QSOs via Logbook of the World. (LoTW) This week our card checking guru, K8DV – Dave, explains the field checking process. Next week, he will explain the LoTW process.

If you check this section weekly, I hope it is because you have an interest in DX and have or are working towards DXCC. For starters, the DX Century Club award, or DXCC, is an award earned by making and confirming contacts with licensed amateur operators in at least 100 "entities" (countries) around the world.
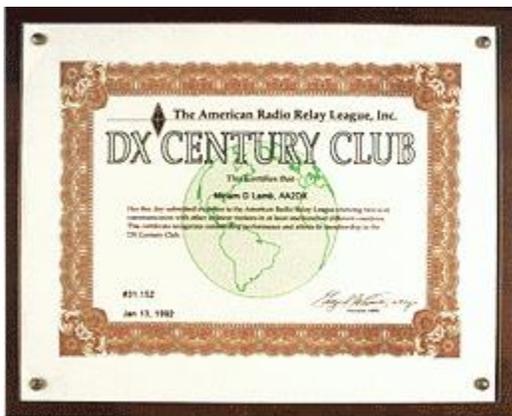
The award is granted by the DX Desk at the ARRL. All radio amateurs are eligible to apply although applicants from the US, its possessions and Puerto Rico must be ARRL members. Proof of two-way contacts, either in the form of QSL cards or online confirmations in the Logbook of The World (LoTW), must be submitted the ARRL. Each DXCC award certificate is dated and individually numbered and is widely recognized among the global amateur radio community as confirmation that the holder is an accomplished DXer.

The top honor in the program is the DXCC Honor DXCC Roll. This is available to only those who are within 10 entities of the currently available total. We are at 340 countries available, so, Honor Roll participants would have 331 confirmed to be eligible.

The strength of the program has been the verification process of QSOs (contacts) for hams to get credit. 2003 was a significant year for the DXCC program as the ARRL launched its' Logbook of the World online logbook. If you had confirmed QSOs in LoTW, they would be confirmed in the database and no QSL cards were required. For this installment of the "DX This Week" column, we will only review the checking of QSL cards. The following two weeks will cover the LoTW application process and the physical QSL card submission process. One of the most knowledgeable hams on the DXCC process (and, lucky for me, an Elmer) is Dave, K8DV. Dave has graciously agreed to allow me to reprint a three-part article on the validation of QSL Cards, submission of credits for the DXCC award via LoTW and submission via QSL Cards. These articles originally appeared in the SWODXA newsletter, *The Exchange*.
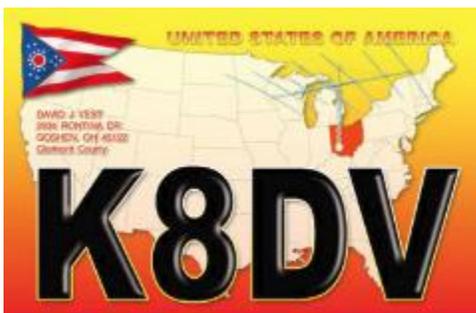
DXCC Card Checking by Dave, K8DV

As a member of SWODXA and an ARRL Field card checker, I wanted to take a few minutes and share some information concerning checking cards.

To avoid problems with field checking your application be sure to follow the instructions on the ARRL website http://www.arrl.org/dxcc-rules. Note that as of April 2, 2012, there are 2 ways of doing a paper card submission; online and traditional. You can no longer do a hybrid LoTW and paper card submission on a single application. It is **absolutely necessary** that you follow all the instructions and have all the paperwork properly filled out or a card checker will not be able to check your cards. Submissions via LoTW and paper cards are treated as 2 separate applications, the good news is there is no longer any up charge for submitting more than a single application per year.

If you use the preferred Online Electronic DXCC Application http://www.arrl.org/online-dxcc-application for your paper cards it will be easier and cheaper for you. It will also go a lot faster at HQ when they get your paperwork since you already entered your card data in the ARRL system. With the online application you can enter the cards in any order. Just make sure to enter the QSOs on cards with multiple QSOs together to

facilitate checking. The reason you don't have to sort by band then mode is because there is minimal data entry work at HQ when they get your field checked application. Payment is made online and not handled by the card checker.

You can also use the Traditional Application forms http://www.arrl.org/dxcc-forms where you fill in and print the PDF forms for the application and record sheets. Make sure to follow those instructions. A traditional application will cost you roughly twice as much as the online application to cover data entry costs at HQ. With a traditional application you must sort cards by band then by mode with all the multiple QSO cards being listed last to facilitate data entry at ARRL HQ. If you use the traditional application, make sure you include valid credit card info on the bottom of the PDF application form. Payment by card is best as cash presents problems for the checker as I must deposit the cash and pay via my own card or write a check to cover.

Whichever way you do it, follow those instructions and make sure the cards are properly sorted in the same order as your DXCC Record Sheet. Also make certain that all the QSL card information (call, date, band, mode, country) has been entered correctly on the record sheet.

As a card checker and holder of 160 M DXCC, I can check cards for 160, I can also check deleted countries. In addition to DXCC, I can check WAS, VUCC, WAC cards for award credit.

 If you are meeting with a field card checker, remember to bring the following:

- Cards sorted per your Record Sheet
- Printed copy of the signed and dated Application Sheet
- Printed copy of the DXCC Record Sheet
- Stamped envelope addressed to
  DXCC Desk, ARRL HQ, 225 Main Street, Newington, CT 06111 so we can mail your application to HQ.
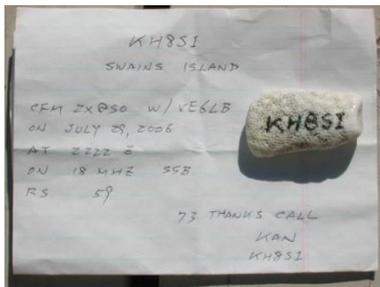
What does the field checker review on each card? Each card should have the Entity Name as it is shown on the DXCC List, the call signs of both stations, the date, time, band, and mode. RS(T) is NOT required. To avoid confusion for the station and the checker, always use UTC for the time and date. QSL cards not containing all required information may be rejected.

Does it have to be a formally printed QSL card? This is a picture of a QSL "napkin" that was submitted and accepted for credit.

Other errors that occur can be that the DX station left your call sign off and handwriting can be an issue.

You may receive a QSL that shows your freq as 10M when you worked him on 10.1 MHZ. Is that 10M or 30M?

DAH DIT DIT DIT DAH   DAH DIT DIT DIT DAH

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:

VR2 – Hong Kong VR25 prefixes mark the 25 years of the "Hong Kong Special Administrative Region" of the PRC. The government is allowing them starting July 1 and going to June 30, 2023. VR25CC, VR25XMT and VR25XYL are among those that will be on. HK0/A – San Andres and Providencia LU7MT, Pablo, is planning a DXpedition to San Andres Island starting in mid-September. 5K0C will be the callsign for the expected September 16 to 25 operation. More details expected "very soon". He is part of the previously announced operators going with LU9FHF, who announced their plans to be on 80-6 CW and SSB with a pair of Elecraft KX3 radios and an FT-857. Amps will be a pair of Expert KWs and an Ameritron ALS500. Antennas are expected to be a hexbeam, verticals, and 3-element for 6M. Also planned are FM satellites on 2M and 432 MHz. QSL 5K0C via LU7MT with SASE, LoTW and eQSL. https://www.qrz.com/db/5K0C

OJ0 – Market Reef - OH3JR as OJ0JR and OG2M as OJ0MR plan an operation June 26 to July 6. OJ0JR will concentrate on the higher HF bands while OJ0MR will be on 6M FT8, CW and SSB, looking particularly for NA, SA and Asia. OG2M, for OJ0MR, prefers LoTW, with direct to OG2M his second choice. OH3JR as OJ0JR says it's LoTW, Club Log OQRS or direct to OH3JR.

9G – Ghana - 9G5AF, Haim, is back in Ghana but says he is leaving soon for his summer holiday. The station is an "ever-changing project" but is currently an IC-7300 and FLEX 6400, plus ACOM 700S amp, to a 7-element Mosley Pro-67, an 80M inverted L, 4-element Yagi on six and a satellite antenna for QO-100. When mobile he has an FT-891 to Yaesu ATAS-120A antenna. But wait, there's more: When portable he uses an endfed wire for 40-10, DX Commander antenna, and an Ameritron ALS-500M amplifier and usually takes either the IC-7300 from the home ham shack or the mobile FT-891. He sometimes operates from the beach.

E5/S - South Cook Islands - E51RMP, an operation by ZL4TE, Pete Leng, has been delayed many times due to the pandemic restrictions, but he is now on the calendar for July 14-21. His first stop, Rarotonga (OC-013) July 14-17, then Aitutaki (OC-083) the 18th-19th, and then it's back to Rarotonga into the 21st. He plans QRP HF with his IC-705 and digital on VHF, mostly through the DSTAR ham-internet hybrid. Get your QSO confirmation through ZL4TE.

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<div align="center">DAH DIT DIT DIT DAH   DAH DIT DIT DIT DAH</div>

CORNER

CONTEST

Below is a list of upcoming contests in the "Contest Corner". I think this is important for someone who is trying to move up the DXCC ladder since entities that are on the rarer side and easiest to work in contests. Some of my best "catches" have been on the Sunday afternoon of a contest when the rarer entities are begging for QSOs. Of course, the gamble is that if you wait until Sunday, conditions may change, or they simply won't be workable. However, it is not a bad gamble. Of course, why not work the contest and have some fun!
 Check out the WA7BNM Contest Calendar page https://www.contestcalendar.com/) and CQ Magazine for more contests or more details. I also have a comprehensive list that can be imported to your calendar at www.aj8b.com/files
The contests in red are those that I plan to spend some significant participation time on. PLEASE let me know if you are working contests and how you fared.

Thanks!

All year	CQ DX Marathon	http://bit.ly/vEKMWD
July 1	RAC Canada Day Contest	www.rac.ca/contesting-results
July 2	Venezuelan Ind. Day Contest	https://bit.ly/3NDZghb
July 2-3	Original QRP Contest	www.qrpcc.de/contestrules/index.html
July 2-3	Marconi Memorial HF Contest	www.arifano.it/contest_marconi.html
July 2-3	NZART Memorial Contest	https://bit.ly/3wYqvx1
July 2-3	PODXS 070 Club 40 Meter Firecracker Sprint	http://bit.ly/2FUmeOL
July 4	RSGB 80m Club Championship, CW	https://bit.ly/31qpcJl
July 6	VHF-UHF FT8 Activity Contest	www.ft8activity.eu/index.php/en
July 9-10	10-10 Int. Weak Signal QSO Party	http://bit.ly/1FrFeBc
July 9-10	IARU HF Championship	www.arrl.org/iaru-hf-world-championship
July 9-10	Veron SLP Contest	http://bit.ly/2L9eT1L
July 10	QRP ARCI Summer Homebrew Sprint	www.qrparci.org/contests
July 13	RSGB 80m Club Championship, SSB	https://bit.ly/31qpcJl
July 13	VHF-UHF FT8 Activity Contest	www.ft8activity.eu/index.php/en
July 16-17	CQWW VHF Contest	www.cqww-vhf.com
July 16-17	IARU Region 1 70 MHz Contest	https://bit.ly/3r1kqvT
July 16-17	North American RTTY QSO Party	http://ncjweb.com/NAQP-Rules.pdf
July 17	CQC Great Colorado Gold Rush	https://tinyurl.com/y8dh6xwy
July 17	RSGB International Low Power Contest	https://tinyurl.com/yckwshsr
July 18	RSGB FT4 Contest Series	https://bit.ly/31qpcJl
July 20	VHF-UHF FT8 Activity Contest	www.ft8activity.eu/index.php/en
July 23	YOTA Contest	www.ham-yota.com/contest
July 28	RSGB 80m Club Championship, Data	https://bit.ly/31qpcJl
July 30	WAB 144 MHz Low Power Phone	http://bit.ly/31yE4kT
July 30-31	RSGB IOTA Contest	https://tinyurl.com/yc8dzhh7
July 31	ARS Flight of the Bumblebees	http://arsqrp.blogspot.com
Sept. 24-25	CQWW RTTY DX Contest	www.cqwwrtty.com

ARLD025 DX news

This week's bulletin was made possible with information provided by 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.

YEMEN, 7O. David, DL7ZM is QRV as 7O/DL7ZM from Socotra Island, IOTA AF-028, until July 3. Activity is on 10 meters using CW and FT8, and on 6 meters as well. QSL via QRZ.com

ALGERIA, 7X. Special event stations 7R19MG and 7Y19MG are QRV until July 5 for the 19th edition of the Mediterranean Games to be held in Oran. QSL via IK2DUW and 7X2VFK, respectively.

MADEIRA ISLANDS, CT3. Joe, HA2EAV and Csaba, HA2KMR are QRV as CT9/HA2EAV and CT9/HA2KMR, respectively, until June 28. Activity is holiday style on the HF bands. This includes being active as CR3DX in the His Majesty King of Spain SSB contest. QSL via operators' instructions.

ST. PIERRE AND MIQUELON, FP. Eric, KV1J will be QRV as FP/KV1J from Miquelon Island, IOTA NA-032, from June 28 to July 12. Activity will be on the HF bands with a focus on 60 and 6 meters.   This includes being an entry in the upcoming IARU HF Championship contest. QSL to home call.

HONDURAS, HR. Alex, K6VHF will be QRV as HR9/K6VHF from Roatan Island, IOTA NA-057, from June 27 to 31. Activity will be on 80 to 10 meters, and possibly 6 meters, using CW, SSB, and FT8. QSL to home call.

THAILAND, HS. Jerry, HS0ZOY is QRV from Buri Ram. He is active on 160 to 10 meters. QSL to home call.

OGASAWARA, JD1. Koh, JD1AJD is QRV until July 2. Activity is on 20 to 6 meters using CW, FT8, and FT4, with a focus on 6 meters. QSL via JA1ADT.

BULGARIA, LZ. Special event station LZ18NATO is QRV until June 30 to commemorate the 18th anniversary of Bulgaria's NATO membership. QSL direct to LZ2VP.

PERU, OA. Daniel, IK2SGL is QRV as OA9DVK until the end of August. Activity is on the HF bands using CW and SSB. QSL via IK6BFH.

MARKET REEF, OJ0. Henri, OH3JR and Pertti, OG2M will be QRV as OJ0JR and OJ0MR, respectively, from June 26 to July 6. They are here on work assignment. Activity will be in their spare time on the HF bands using CW, some SSB, and FT8. QSL OJ0MR direct to OG2M and OJ0JR via OH3JR.

GREENLAND, OX. Bo, OZ1DJJ will be QRV as OX3LX from Upernarvik Island, IOTA NA-134, from June 27 to July 11. Activity will be on the HF bands with a focus on 6 meters and 4 meters. QSL via OZ0J.

GREECE, SV. Rolf, HB9TUP is QRV as SV8/HB9TUP from Naxos Island, IOTA EU-067. Activity is on the HF bands. His length of stay is unknown. QSL direct to home call.

MACQUARIE ISLAND, VK0. Matt, VK5HZ is QRV as VK0MQ and will be stationed here for a few

months. Activity is in his spare time on the HF bands using SSB and FT8. QSL via LoTW.

ZIMBABWE, Z2. Members of the Russian DX Team are QRV as Z21RU from Harare until June 29. Activity is on 160 to 6 meters, and Satellite QO-100, using CW, SSB, and various digital modes with several stations active. QSL via R7AL.

THIS WEEKEND ON THE RADIO. ARRL Field Day, QRP 20-Meter CW Fox Hunt, NCCC RTTY Sprint, NCCC CW Sprint, K1USN Slow Speed CW Test, Pajajaran Bogor SSB DX Contest, UFT QRP CW Contest and His Majesty King of Spain SSB Contest will certainly keep contesters busy this upcoming weekend.

The QCX CW Challenge, OK1WC Memorial, RSGB FT4 Contest, ICWC Medium Speed CW Test, Worldwide Sideband Activity Contest, Speed CW Test, RTTYOPS Weeksprint, Phone Weekly SSB Test, A1Club AWT, CWops Test, Mini-Test 40, and the Mini-Test 80 run from June 27 to 29.

Upcoming Hamfests

We **DO** have some hamfests scheduled for 2021!! Yes, take a good look at the list, it's growing every day!

Be sure to keep your eyes on this schedule as that when things start getting better and the vaccine rolls out to more and more, hamfests will surely get back to their normal schedule. Don't see your hamfest listed?? Did anyone register it with ARRL? It's really easy to do and you get a lot of FREE publicity if you do.

2022

07/09/2022 - Mansfield Mid Summer Trunkfest
Location: Mansfield, OH
Sponsor: Intercity Amateur Radio Club
Website: http://www.w8we.org
Learn More

07/16/2022 - NOARSFEST
Location: Elyria, OH
Sponsor: Northern Ohio Amateur Radio Society
Learn More

07/17/2022 - Van Wert Hamfest
Location: Van Wert, OH
Sponsor: Van Wert Amateur Radio Club
Website: http://W8FY.ORG
Learn More

08/06/2022 - Columbus Hamfest
Location: Grove City, OH
Sponsor: Aladdin Shrine Audio Unit
Website: http://columbushamfest.com
Learn More

08/13/2022 - Cincinnati Hamfest
Location: Owensville, OH
Sponsor: Milford ARC
Website: https://CincinnatiHamfest.org
Learn More

08/21/2022 - Warren ARA Tailgate Swap Meet
Location: Cortland, OH
Sponsor: Warren ARA
Website: http://facebook.com/w8vtd
Learn More

09/11/2022 - Findlay Hamfest
Location: Findlay, OH
Sponsor: Findlay Radio Club
Website: https://www.findlayradioclub.org/
Learn More

09/17/2022 - Mound Amateur Radio Assoc. Swap Meet
Location: Miamisburg, OH
Sponsor: MARA
Website: http://W8DYY.ORG
Learn More

09/25/2022 - Cleveland Hamfest
Location: Berea, OH
Sponsor: Hamfest Association of Cleveland
Website: http://www.hac.org
Learn More

10/30/2022 - Massillon Hamfest (OH)
Location: Green, OH
Sponsor: Massillon Amateur Radio Club
Website: http://w8np.org
Learn More

12/03/2022 - FCARC WinterFest
Location: Archbold, OH
Sponsor: Fulton County Amateur Radio Club
Website: https://k8bxq.org/hamfest
Learn More

3rd Annual Kentucky State Parks On The Air – Amateur Radio Contest

Be sure to mark your calendar for the 2022 Kentucky Parks On The Air (KyPOTA) contest – August 13, 2022 Time: 1400 UTC to 2200 UTC (9 am - 5 pm CDT). The KyPOTA contest was conceived with three main goals in mind:

- To promote public awareness of amateur radio;
- To promote the recognition that Kentucky Parks have a very diverse and wonderful ecology;
- To promote camaraderie within the ranks of Kentucky's Amateur Radio Operators

We agree it is a lot of fun to get out in a natural setting with our radios and see how well we can do at working operators in the beautiful Kentucky Parks.
This will be the 3rd annual KyPOTA – Make plans now to be active in KyPOTA 2022.
Don't forget – we have a KyPOTA E-mail Group located at KyPOTA@murray-ky.net
Since we do allow spotting to encourage more contacts during KyPOTA, Facebook is being used before and during the contest for instant updates and to share stories and photos.
Notes: Some Kentucky Parks are being managed by local park systems, but they are still listed and considered to be Kentucky Parks. Please be considerate of others using the parks.
Questions? Email: KyPOTA@murray-ky.net. When the KyPOTA contest is over, send Logs to KyPOTA@murray-ky.net by August 27, 2022 or 14 days following the event. Contest rules can be found at: WWW.k4msu.com/kypota.
So – pick a park and make your plans now for KyPOTA 2022 !! Take care & 73 from the entire KyPOTA contest committee and the contest sponsor: Murray State University Amateur Radio Club, Box 2580 University Station, Murray, Ky 42071.

Print an Official or Unofficial Copy of Your Amateur Radio License
(By Anthony Luscre, K8ZT)

As of February 17, 2015, the **FCC no longer routinely issues paper license documents** to Amateur Radio applicants and licensees. The Commission has maintained for some time now that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS). The FCC will continue to provide paper license documents to all licensees who notify the Commission that they prefer to receive one.

Licensees also will be able to print out an official authorization — as well as an unofficial "reference copy" — from the ULS License Manager. I've created a set of instructions on how you can request an **"official" printed copy of your license***

Click here to download the instructions

One Question Questionnaire

Hey Gang,

Last weeks question **"HAVE YOU MADE ANY SPECIAL PROVISIONS WITH YOUR STATION TO BE ABLE TO REMAIN ON THE AIR DURING AN EXTENDED POWER DISRUPTION?"**

Survey Says: 29 (72.5%) yes, 11 (27.5%) no. The new question is:

HAVE YOU RETURNED TO "NORMAL" AFTER THE PANDEMIC?   YES OR NO?

You'll find the "One Question" questionnaire on the Ohio Section Website! http://arrlohio.org It's all for 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.

V.E. Test Sessions

Many V.E.'s have decided to start testing once again, but with restrictions that need to be adhered to for sure. Here's the link to find that V.E. Test session and what is expected of YOU before going. http://www.arrl.org/find-an-amateur-radio-license-exam-session

Final… Final

Lots of good information in this issue. I'm going to cut my commentary short so I can get going to Field Day.

Get on the air! Have some fun.

73, de
Tom WB8LCD   OH Section Manager
WB8LCD@ARRL.ORG
330-554-4650

"Swap & Shop" on the 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

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!!

Is your club doing a fund raiser to help raise money? After a lot of thought, it was decided that the Swap & Shop webpage could also contain these types of items as well.

The same rules will apply as do for the For Sales and Give-A-Ways and will only be posted for a month at a time. Please see the Terms & Conditions on the webpage.

If your club is doing a fund raiser and wants more exposure, please forward the information to me and I'll advertise it on the Swap & Shop webpage for you. Now, I still want to remind you that 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 as well as for Club Fund Raisers. 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

Back Issues of the PostScript and Ohio Section Journal

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://arrl-ohio.org/news/index.html

Ohio Section Cabinet	
Section Manager – Tom Sly, WB8LCD	Section Emergency Coordinator – Stan Broadway, N8BHL
Technical Coordinator – Jeff Kopcak, K8JTK	Section Traffic Manager – David Maynard, WA3EZN
State Government Liaison – Bob Winston, W2THU	Affiliated Clubs Coordinator – Tom Sly, WB8LCD
Section Youth Coordinator – Anthony Lascre, K8ZT	Public Information Coordinator – John Ross, KD8IDJ

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 an email to: webmaster@arrl-ohio.org to be added.

We now have many thousands of readers 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. All of your favorite past newsletters are now archived too. You can go back at any time and read them. Just go to: http://arrl-ohio.org/news/

The pictures on the front page and throughout this newsletter are from various newsletters, Facebook posts and/or were sent directly to me in recent weeks. Take a good look at them, you just might be in one of the pictures! "SMILE… you're in the Ohio Section News!!"

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!

TOP^