

COSHOCTON COUNTY AMATEUR RADIO ASSOCIATION, INC
W8CCA

PO BOX 501 Coshocton, OH 43812
DECEMBER 2007 Newsletter



Meeting: First Tuesday Each Month, 7:00 PM Coshocton County Services Bldg., 724 S. 7th Street

2007 Club Officers

President: Steve Wheatcraft, AA8BN

Vice President: Bruce Adams, KE8XM

Secretary: Pat Tucker, KB8CRB

Treasurer: Dan Hardy, N8VV

Coshocton County EC:

Bruce Adams, KE8XM

MCC Representatives:

Bruce Adams, KE8XM

Dan Hardy, N8VV

COARVET Manager:

Steve Wheatcraft, AA8BN

NETS

- **Coshocton Co. ARA** -

Sunday 2100 hrs EST

147.045 MHz W8CCA Rptr

- **Coshocton Co. ARES** -

Monday 2100 hrs EST

145.230 MHz KE8XM Rptr

- **Johnny Appleseed** -

Friday 2100 hrs EST

28.450 MHz SSB

[Http://www.W8CCA.org](http://www.W8CCA.org)

CCARA Newsletter Editor:

Ron Carns, N8KRR

n8krr@arrl.net



Prez Says:

September's meeting was full of things to talk about. We did manage to have the program too. Thank you Bruce for speaking about foxhunting and for bringing the fox to the meeting so all could hear. Good program. I also want to thank Ron, N8LPB and Nan, KC8NJT for the TNC donation to ARES® and club. That is terrific. The TNC will be used in the ARES® communications van.

On Sept 7 and 8 we had a CCARA fund raiser at the Buehler's food stand. Thanks to Rob, KD8FAI for organizing the event and to WA8NBP, Jim for his support and to those who manned the food stand. The club made \$252.00 and received about \$40.00 in tips. The weather was pretty good. We had a little rain now and then on Saturday. On Friday morning it was manned by Rob, KD8FAI; Dan, N8VV, Bruce, KE8XM and Steve, AA8BN. In the afternoon for the 3 hour shift was Nan, KC8NJT, Ron, N8LPB and Ron, N8KRR. The Saturday morning shift was manned by Dan, N8VV, Colleen, AA8UA and OM Steve. In the afternoon the volunteers were Tom, KC8VGS, Nan, KC8NJT and her OM, Ron, N8LPB once again. Thanks for stepping up to the plate !!

On the subject of club funds, we had a very generous donation from Charles Emick, KB8PXM and XYL Rose, N8RQ and family. THANK YOU! We have also had donations at our club meetings for the H.F. tuner and sound card funding drives. These items are for A.R.E.S. ®. Thanks to all who have contributed. Another bit of club fund news is that we will no longer have a service charge on our account from the bank. Our statements will now be E-mailed to the Treasurer. That will result in a savings of about \$36.00 a year. I had seen a free checking ad for clubs at a competitors bank a few weeks ago. So on Nov. 20th Dan and I made a visit to Ohio Heritage Bank and asked if they could do the same. They soon came up with a free plan. By the way, the club is in pretty good financial shape compared to previous years at this time.

On Sept. 9th we had the annual Picnic at Lake Park shelter #9. The chairperson again this year was Colleen, AA8UA. Thanks Colleen for a job well done. I want to thank Bakers Food for donating the buns and Buehler's Food for the punch and a reduced price on condiments. The club purchased the hot dogs and hamburger. The food was all great. Around 15 people attended. Bruce did a good job cooking, even the hot dogs. After the Picnic, the Foxhunt was enjoyed by several Hams. Bruce, KE8XM, Chair of the Foxhunt and Randy, KL7RF hid the fox at Buehler's. Jamie, KC8YXY found the fox first and coming in 2nd and 3rd respectively was Nan, KC8NJT and Ron, N8LPB. Congrats. Prizes were awarded to all. Thanks to Ron, N8KRR who donated a really nice power strip that was one of the 1st place prizes and to Bruce who donated multi meters to all for prizes. TU.

We had a great time at the fair which started Sept. 28 and ran for the week. Thanks to all who manned the booth and to the setup and tear down crew. Thanks to those who volunteered your time. We logged in 126 hours PLUS setup and tear down time. 15 people helped this year. TU. This was the first time the shifts were difficult to man however. Various opinions are out there as to what is bad or good about the booth and what we should do or not do. Maybe it's time to rethink the fair booth again. Traditions are hard to break however. This booth has been going on since the early 90s. It does take a sizeable part of our membership dues to pay for the Fair booth each year. The subject of the fair booth and its' expense has been brought up at meetings throughout the last several years. Paying your clubs dues entitles you to an opinion and vote in 2008. Come to the meeting and voice your opinion. 2008 will be interesting. The cost of the booth has gone up from the \$180.00 that existed in the 90s to now \$230.00. One reason for the booth is public awareness of what Amateur Radio Operators do. As evidenced from this years' June Field Day set up at the Fairgrounds, the public and 99% of elected and public officials weren't interested. Maybe this is a clue that we wouldn't be missing much. Maybe we should direct our money more efficiently. That money could be used for the Club repeater, etc. and toward donations to A.R.E.S.® and SKYWARN needs. The club is a part of the community that in times of communications needs is there to volunteer its time and communications skills. As I have said before, the club pays the fee for the booth but it is manned by AMATEUR RADIO Operators. It is not simply a club booth. It IS an A.R.E.S.® booth, SKYWARN booth and a W8CCA club booth. Last but not least I want to thank Pat, KB8CRB for chairing the event, who did a good job once again, even with the challenge this year of finding volunteers to man the booth. On a lighter side at the fair booth we had a sign up sheet for the Nov 10, 2007 Amateur Radio Class. Of the 14 people who signed up for the November 10 class and exam at the fair booth, 3 actually came to the class. The other 7 people came from personal phone calls and from a sign up sheet at the Skywarn meeting.

On Oct 10 at 6:30pm Richard Kane from the NWS Pittsburgh conducted a SKYWARN Class in Coshocton. There was a good turnout. Half the room was Amateur Radio operators. We all learned a lot. We also passed out some rain gauges he brought. Check out the NWS Pittsburgh web page at www.erh.noaa.gov/pbz/index.php

I understand the Nov. meeting went well. I had to miss that meeting. I would like thank our Treasurer, Dan, N8VV for running the CCARA meeting. Dan provided a video about the ARRL HQ which was seen by a little over a dozen members. Wendy, KL7IUC, won the Fair QSL drawing and got a nice prize.

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On Nov. 10 CCARA, Coshocton Co. ARES® and COARVET conducted a one day Amateur Radio class and ARRL EXAM session at the Coshocton Co. Memorial Hospital. From a candidate count of about 17, we ended up with 10 people for the all day class with an exam administered at the conclusion of the class. I want to thank the Coshocton Co. Memorial Hospital senior management team and Rob, KD8FAI of CCMH for a place to conduct the class and exam and for providing all class members and VE's lunch....Thank you! I also appreciate the Coshocton Co. EMA for helping advertise and distribute the books. The class instructor team did a great job throughout the Saturday class, which was a long day for them. Dan, N8VV, Randy, KL7RF and Bruce, KE8XM were instructors for the class. Great job !

I also want to thank the VE team for doing what they are supposed to do and doing it well. Administering VE's were KL7RF, KE8XM and N8LPB, Ron. Also, good job to VE, N8VV for working hard at the session and taking care of paperwork as well. Setting up the room and the equipment for the class power point presentation was Rob, KD8FAI from CCMH, thank you. The day's result was 6 new Technician licensees. Congrats to the new Hams.

Lastly, I want to thank all who have participated and volunteered during the year including N8KRR as editor of the CCARA Newsletter. I think he did a great job for the year. Our Newsletter is looking good! The same goes for the club web site hosted by Clue Technologies, Chad AB8SV and Eric AB8RR. www.W8CCA.ORG and to the guys on the 28.450 MHz (Fri @ 2100 hr local) Johnny Appleseed Net for keeping that running. Good job in late Nov. to Tom, KB8HEA and Warren, KC8WX for giving the club repeater a checkup too. I've had some fun this year. Hope some other people did too. Remember, dues are due. Your support IS appreciated. Come to the meetings when you can and participate in the events throughout the year at the various CCARA and non-CCARA activities. If you have some ideas for 2008, speak up.

Good luck to the club and to the 2008 Officers and to Amateur Radio in Coshocton County next year.

73
Steve, AA8BN
President CCARA 2007

CCARA Club Patch

W8CCA CCARA patches are available, \$2.50 each OR two for \$5. To buy patches see the club Treasurer.



Upcoming Local Events

December 4th CCARA meeting is at the County Services Building, EOC room. Bring goodies for the Christmas Party get together.

Election of Club Officer's for 2008. Please attend and cast your important vote.

Upcoming OHIO Events

SPONSOR	LOCATION	DATE	CONTACT
SW Ohio Digital Symposium 1	Middletown	January 12	gungho@embarqmail
SCARFEST	Nelsonville	January 20	kc8qdq@hughes.net
TUSCO ARC	Strasburg	January 20	k8wfn@tusco.net
Mid-winter Hamfest	Mansfield	February 10	metal07man@yahoo.com
Toledo MobileARA	Maumee	March 16	kb8iup@arrl.net
Hamfest/ComputerShow	Cuyahoga Falls	April 20	w8tts@w8tts.com
Hamvention	Dayton	May 16, 17, 18	www.hamvention.org

SKYWARN Recognition Day is December 1, 2007

SKYWARN Recognition Day was developed in 1999 by the National Weather Service and the American Radio Relay League. It celebrates the contributions that volunteer SKYWARN radio operators make to the National Weather Service. During the day SKYWARN operators visit NWS offices and contact other radio operators across the world.

<http://www.crh.noaa.gov/hamradio/>

A proud thank-you to all of our SKYWARN operators.

Club Committee Reports

PICNIC and FOX HUNT

On Sept 9 2007 CCARA held our annual Picnic at shelter number 9 at Lake Park. We had a little over a dozen people attend. Bruce did the cooking, Thankyou ! I want to thank all who came to the picnic and for bringing all the good food. I also want to thank Buehlers Food and Baker's Food for donating some food items. See you at next years annual picnic.

Colleen, AA8UA

Chairperson

COSHOCTON COUNTY FAIR - 2007

The fair committee would like to thank everyone who helped at the fair booth. We appreciated you taking the time from your busy schedules to man the fair booth.

Fair Committee - Pat KB8CRB, Sandy KC8STS, Bruce KE8XM, Dan N8VV, Steve AA8BN and Scott KC8YYF

Dues Are Due

You can renew your 2008 club membership by contacting your club treasurer. TNX

FYI

SB SPCL @ ARL \$ARLX007

ARLX007 Motorola buys Yaesu

ZCZC AX07

QST de W1AW

Special Bulletin 7 ARLX007

From ARRL Headquarters

Newington CT November 5, 2007

To all radio amateurs

SB SPCL ARL ARLX007

ARLX007 Motorola buys Yaesu

Motorola USA has announced its intention to launch a tender offer to acquire a controlling interest in Vertex Standard Co, Ltd. Vertex Standard is the parent company of Yaesu. Motorola will own 80 percent of Vertex Standard; Tokogiken, a privately held Japanese company, controlled by current president and CEO of Vertex Standard Jun Hasegawa, will retain 20 percent, forming a joint venture. The total purchase price for 80 percent of the outstanding shares on a fully diluted basis will be approximately US \$108 million.

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A.R.E.S.

ARES E-Letter October 17, 2007

New EmComm Manager Dennis Dura, K2DCD, Speaks at Great Lakes Division Convention

On September 22, the ARRL's new Emergency Preparedness & Response Manager Dennis Dura, K2DCD, spoke at the Great Lakes Division Convention in Cleveland, Ohio. The following summary of Dura's remarks is based on the notes of attendee Walt Heeney, N8LJM.

Dura announced that the Statement of Understanding with the American Red Cross is currently in negotiation, with staff members from ARRL and ARC having already met once for discussion. A major issue is the Red Cross background check requirement. The ARC has said it values ARES contributions, and ARRL certainly wants to continue to support the ARC. The Red Cross has suggested that ARRL conduct its own criminal background checks, but that is not a mission the League will take on. Additionally, becoming an ARES member does not require League membership which would complicate this further. ARRL recognizes background checks are necessities, but feels that only a criminal check is warranted.

A new ARRL EmComm course on-line will focus on digital modes, starting about the first of the year.

Turning to the issue of resource typing, Dura said that using the Department of Homeland Security (DHS) NIMS, the ARRL will be defining types of radio assets needed for emcomm activity. Also to assist the field, "best practices" utilized by various ARES groups will be highlighted and applied across the Nation as appropriate. There is no reason he said, to reinvent the wheel.

Dura explained the difference between "IDs" and "Credentials": IDs show who you are, while credentials provide your capabilities, training, education and authorizations. Emergency response agencies are looking for both. Ultimately, IDs will include credentials, which will determine who can serve where in and around the disaster area.

Integration of various emcomm entities is a goal. Mutual aid will improve with closer ties among ARES, RACES, SKYWARN, and with counties, states and other levels of emergency management, Dura said.

DHS has formed a new unit devoted to emcomm functions. This unit should be stood up with staffing before the end of the year according to sources.

Watch for more spontaneous ARES drills. Dura activated one over the Labor Day weekend to test responses. There will be more top down spontaneous drills to test readiness and participation.

The staff at ARRL is considering moving the dates of the venerable Simulated Emergency Test (SET) with the likelihood of having regional, and potentially national SETS. These regional SETS will be based upon the hazards and risks inherent to the locale.

For his presentation, Dura was wearing a Blackberry (telephone, e-mail, SMS, IM) and a Skytel 2 way pager, and a H-T. He said that ARES members should not rely on ham radio alone to maintain a heightened level of situational awareness. Emergency communicators must be able to use multiple tools so they can use what works best at a particular scene.

Dura's final comment was that the days are almost over when ARES will accept volunteers who say "call me if you need me," but fail to be trained, attend meetings and participate in drills. [Thanks to Walt Heeney, N8LJM, for this report]

From The ARES E-Letter October 17, 2007
N8VV

Current ARES-Recommended Training Courses

In addition to the ARRL Emergency Communications Courses, ARES field operators should also complete the following formal training courses:

- * Red Cross combined course in Adult CPR/First Aid Basics
- * Red Cross online Introduction to Disaster Services
<http://www.redcross.org/flash/course01_v01/>
- * FEMA IS-100 (Introduction to Incident Command System)
- * FEMA IS-200 (ICS for Single Resource and Initial Action Incidents)
- * FEMA IS-700 (National Incident Management System)
<<http://training.fema.gov/IS/>>

Except for the first two, the courses are free of charge, and CPR/First Aid may be free to members of the Red Cross. CPR/First Aid is the only course that requires periodic refreshers and the only course that must be taken in person rather than on the Internet. Where FEMA courses exist in more than one current version - aimed at somewhat different audiences - any of the currently-available versions will suffice. - ARRL National Emergency Response Planning Committee Recommendations, January 2007

From The ARES E-Letter October 17, 2007
N8VV

QUICK LINKS: Essential Web sites for Every EmComm Op

General ARES information: <<http://www.arrl.org/ares>>
EMCOMM Resources: <<http://www.arrl.org/FandES/field/emergency/>>
Public Service resources:
<<http://www.arrl.org/FandES/field/pubservice.html>>
ARES E-Letter Archives: <<http://www.arrl.org/FandES/field/ares-el/>>
Public Relations: <<http://www.emergency-radio.org/>>

Training:
ARRL training courses: <<http://www.arrl.org/cce>>
Red Cross training courses:
<http://www.redcross.org/flash/course01_v01/>
FEMA training courses: <<http://training.fema.gov/IS/>>
FEMA National Incident Management System:
<<http://www.fema.gov/emergency/nims/index.shtml>>

International:
IARU Emergency Communications: <<http://www.iaru.org/emergency/>>
IARU Region 2 Emergency Communications: <<http://www.iaru-r2emcor.net>>

Major Amateur Radio Emergency Communications Nets:
Hurricane Watch Net: <<http://www.hwn.org/>>
Maritime Mobile Service Net: <<http://www.mmsn.org/>>
Salvation Army (SATERN) Net: <<http://www.satarn.org>>
Waterway Net: <<http://www.waterwayradio.net/>>
VoIP SKYWARN/Hurricane Net: <<http://www.voipwx.net/>>

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ARRL/Served Agency Memoranda of Understanding:

<http://www.arrl.org/FandES/field/mou/>

National Volunteer Organizations Active in Disaster:

<http://www.nvoad.org/>

American Red Cross: <http://www.redcross.org/>

National Weather Service: <http://www.nws.noaa.gov/>

Department of Homeland Security - Citizen Corps, FEMA:

<http://www.citizencorps.gov/>, <http://www.dhs.gov/>,

<http://www.fema.gov/>

Association of Public-Safety Communications Officials- International:

<http://www.apcointl.org/>

National Communications System: <http://www.ncs.gov/>

National Association of Radio and Telecommunications Engineers, Inc.:

<http://www.narte.org/>

Salvation Army: http://www.salvationarmyusa.org/usn/www_usn.nsf

Society of Broadcast Engineers: <http://www.sbe.org/>

Quarter Century Wireless Association, Inc. <http://www.QCWA.org/>

Radio Emergency Associated Communication Teams:

<http://www.reactintl.org/>

SKYWARN: <http://www.skywarn.org/>

From The ARES E-Letter October 17, 2007

N8VV

NEW HAMMS

Congratulations to the new Amateur Radio operators who took the November class and ARRL exam in Coshocton de CCARA.

David Lanning, KD8HHV, Coshocton, Ohio

Jeff Sycks, KD8HHU, Coshocton, Ohio

Daniel McNutt, KD8HHT, Massillon, Ohio

James Kerr, KD8HHS, Dresden, Ohio

Brent Endsley, KD8HHR, Coshocton, Ohio

Beatrice McDowell, KD8HHQ, Plainfield, Ohio

Free Swap and Sell

If you have anything ham radio related, you can swap it or sell it here. List your item(s) for free. Give a price and how to contact you. Send list to n8krr@arrl.net

INFO FROM THE OHIO SECTION JOURNAL from *SECTION MANAGER Joe Phillips, K8QOE*
Getting Credit For Doing Nothing

The latest news about BPL is the ARRL has finally sued the FCC - asking it finally to treat BPL like any other form of interference or spectrum pollution as we like to refer to it.

The final chapter of the BPL saga is at hand, presumably. It has been a long struggle for the ARRL - a struggle for which I got a free pass.

Three years ago, BPL was dominating my work as an elected officer for the ARRL. Every day I was answering e-mail and the phone while writing BPL information columns two to three hours a day. Because of a Wall Street Journal article, the nation had a mistaken belief that Cincinnati was the center of the ARRL's struggle against Broadband Over Power lines. It wasn't.

At the time I wrote these words of which are still accurate: "We owe BPL suppliers a debt of gratitude - it is their excessive claims and overblown rhetoric about this technology which will hopefully soon make BPL the 8-Track Tape of internet services."

And it did. In Cincinnati, Duke Energy (formerly Cynergy Corporation) has largely abandoned its internet service expansion by BPL.

Know why utilities, like Duke Energy, at the time got excited about the BPL business? Because they saw a huge cash cow with little extra investment since the infrastructure was already in place. Didn't happen.

Know why politicians like former Commission chairman Michael Powell were praising BPL then? Because they had been promised this technology will easily bring low cost broadband to rural America (voters). Didn't happen either.

I sometimes get credit as Ohio Section Manager for eliminating the BPL problem in my city. I did nothing of the kind. The BPL publicity machine did the work for me.

Temporary OSSBN Evening Time Change Beginning Nov. 13

For the second time in two weeks, 75 meter propagation problems have caused the Ohio Single Side Band Net (OSSBN) to change its evening start and this time also change frequency.

Beginning Tuesday, November 13, the third and evening daily session of the OSSBN will be at 6 p.m. Eastern Time and on the OSSBN alternate frequency of 3.968 MHz.

Time changes last week resulted in possible interference with Connecticut traffic nets.

Ohio Assistant Section Manager and OSSBN Net Manager Connie Hamilton, N8IO, thanks everyone for their patience in these matters. The new schedule and frequency change came after Mrs. Hamilton consulted with the Net Advisory Board and will remain until further notice, she said.

ARRL Ohio Section
Section Manager: Joseph J. Phillips, K8QOE
k8qoe@arrl.org

(Other OSSBN times and frequencies: 10:30am and 4:15pm on 3.9725 . You might check 6pm on 3.9775 too according to KL7RF

http://www.iarc.ws/ohio/arrl_ohio_nets.htm)

From The Editor

This is your newsletter. Please let me know the type of info you would like to see in your newsletter.

If you have a ham radio related article you would like to submit please e-mail to the editor at : n8krr@arrl.net

ARLB025 W1AW 2007/2008 Winter Operating Schedule

ARRL Bulletin 25 ARLB025 From ARRL Headquarters Newington CT November 6, 2007

To all radio amateurs

Morning Schedule:

Time Mode Days

1400 UTC (9 AM EST) CWs Wed, Fri

1400 UTC (9 AM EST) CWf Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)

1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)

(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

Afternoon/Evening Schedule:

2100 UTC (4 PM EST) CWf Mon, Wed, Fri

2100 " " CWs Tue, Thu

2200 " (5 PM EST) CWb Daily

2300 " (6 PM EST) RTTY Daily

0000 " (7 PM EST) CWs Mon, Wed, Fri

0000 " " CWf Tue, Thu

0100 " (8 PM EST) CWb Daily

0200 " (9 PM EST) RTTY Daily

0245 " (9:45 PM EST) VOICE Daily

0300 " (10 PM EST) CWf Mon, Wed, Fri

0300 " " CWs Tue, Thu

0400 " (11 PM EST) CWb Daily

Frequencies (MHz)

CW: 1.8175 3.5815 7.0475 14.0475 18.0975 21.0675 28.0675 147.555

RTTY: - 3.5975 7.095 14.095 18.1025 21.095 28.095 147.555

VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM

CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM

CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

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RTTY = Teleprinter Bulletins = BAUDOT (45.45 baud) and AMTOR-FEC (100 Baud). ASCII (110 Baud) is sent only as time allows.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular teleprinter frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Teleprinter at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 96 in the November 2007 issue of QST or on the web at, <http://www.arrl.org/w1aw.html>.

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<http://www.iarc.ws/ohio/SEC/default.htm>

OHIO SECTION ARES HF NET IS COMING BACK!

I've been getting a lot of requests to bring this net back. So after speaking to DEC Karl Erbland K8ARL at the District 6 picnic last week, we decided to give it a try. The net will meet on the Second and Fourth Sunday of each month at 5:00pm local time. The frequency will be 3875.0 khz (+/- QRM). K8ARL will be out Net Control Station starting out, then we hope to rotate the duty as we progress.

In the OSERP, the frequency 3875.0 khz has been listed for Section wide ARES administration purposes. The net will allow those ARES stations to test their equipment, ensure communications across the Section, and to update other ARES groups on their areas operations, and other topics related to ARES business. This net will not be a traffic net. Any and all traffic is to still be passed via the Ohio Single Sideband Net (OSSBN), or any other CW traffic nets in the Ohio Section.

Basic EmComm practices indicate the purpose to have a frequency for administrative purposes, and a frequency for message handling. The Ohio ARES Net will fulfill the administrative side of a full working EmComm system in the Ohio Section. Please plan to join us!

73, Frank KI8GW