



AIRWAVES JOURNAL

The Newsletter of the InterCity Amateur Radio Club ~ Established 1933
~~75th anniversary ~~
October, 2008

Upcoming Events

October 12th - Fall-N-Leaf Bike Tour - Contact Danny KB8STK at
kb8stk@hotmail.com

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October 18<sup>th</sup> - Madison Twp Fall Parade 10AM Contact Rob KD8AZQ at  
[kd8azq@iarc.ws](mailto:kd8azq@iarc.ws)

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October 21st - Mansfield Holloween Parade - 5:30PM - Contact Rob
KD8AZQ@iarc.ws

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November 2<sup>nd</sup> - Daylight Savings time ends "**fall back 1 hour**"

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November 4th - Election Day - Go Out And Vote For **Your** Choice !!

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November 7<sup>th</sup> - IARC Meeting - 7:30PM at the Health Dept

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December 5th - IARC Meeting - Peel-n-Stick night 7:30PM at the Health
Dept. -- Coney Night!!!

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## VE Test Sessions

As always the Sessions are within 100 miles of Mansfield. The sessions in RED require Preregistration and do NOT allow walk-ins. Sessions in Blue ask for pre-registrations but will accept walk-ins. Sessions in GREEN are open to all and do not require pre-registrations although it is still recommended that you call to make sure the session will be held.

**11-Oct-2008 Sponsor: TOLEDO MOBILE RADIO ASSOC --- Time: 8:30 AM (No walk-ins)**  
**Contact: STEVEN L STALKER (419)467-3734 Email: [SSTALKER@AMERITECH.NET](mailto:SSTALKER@AMERITECH.NET)**  
**Location: MAUMEE FIRE STATION #2-- 450 W DUSSEL DR-- MAUMEE, OH 43537**

**11-Oct-2008 Sponsor: HUBER HEIGHTS ARC -- Time: 9:00 AM (Walk-ins allowed)**  
**Contact: JOHN W MARTINDILL – (937)307-0793 --- Email: [AB8NV@ARRL.NET](mailto:AB8NV@ARRL.NET)**  
**Location: HUBER HEIGHTS PUBLIC LIBRARY -- 6160 CHAMBERSBURG RD  
HUBER HEIGHTS, OH 45424**

**11-Oct-2008 Sponsor: SUMMIT CO AMERICAN RED CROSS Time: 12 NOON (Walk-ins allowed)**  
**Contact: BRUCE M FERRY (330)929-2766 --- <http://www.ak8b.us/ve>**  
**Location: AMERICAN RED CROSS -- 501 W MARKET ST -- AKRON, OH 44303**

**18-Oct-2008 Sponsor: INTER-CITY ARC Time: 1:00PM (Walk-ins allowed)**  
**Contact: RICHARD E FLETCHER (419)886-2463 Email: [VKAFLETCH@AOL.COM](mailto:VKAFLETCH@AOL.COM)**  
**Location: RICHLAND HEALTH DEPT (LOWER LEVEL) -- 555 LEXINGTON AVE  
MANSFIELD, OH 44907**

**19-Oct-2008 Sponsor: LANCASTER & FAIRFIELD CTY ARC Time: 10:00AM (Walk-ins allowed) Contact:**  
**ALLEN P SELLERS (740)654-8167 Email: [ASELLERS1081@ATT.NET](mailto:ASELLERS1081@ATT.NET)**  
**Location: CLUBHOUSE-GRANVILLE ROAD - 1611 ROUTE 37 NORTH --LANCASTER, OH 43130  
(NEXT TO BEAVERS' FIELD ACROSS FROM OH UNIV @LANCASTER)**

**19-Oct-2008 Sponsor: LORAIN COUNTY ARA RED CROSS Time: 1:00 PM (Walk-ins allowed)**  
**Contact: CHARLES S HALL – (216)433-3036 --Email: [VE@W8HF.COM](mailto:VE@W8HF.COM)**  
**Location: AMERICAN RED CROSS - 2929 W RIVER RD N - ELYRIA, OH 44035**

**21-Oct-2008 Sponsor: PIONEER AR FELLOWSHIP Time: 6:30 PM (Walk-ins allowed)**  
**Contact: RONALD D LIEVING – (330)724-5981 -- PRE-REGISTRATION PREFERRED**  
**Location: AKRON BAPTIST TEMPLE - 2324 MANCHESTER RD - AKRON, OH 44314**

**21-Oct-2008 Sponsor: SANDUSKY RADIO EXP LEAGUE INC Time: 7:00 PM (Walk-ins allowed) Contact:**  
**LUTHER T GANTZ - (419)684-7864 - Email: [N8HC@ARRL.NET](mailto:N8HC@ARRL.NET)**  
**Location: SANDUSKY RADIO EXP LEAGUE INC - 2909 W PERKINS AVE - SANDUSKY, OH 44870**

**25-Oct-2008 Sponsor: WRECS Time: 9:00AM (Walk-ins allowed)**  
**Contact: ROBERT C GAUSS - (330)562-3328 - Email: [N8ZB@YAHOO.COM](mailto:N8ZB@YAHOO.COM)**  
**Location: BENTLEYVILLE VILLAGE HALL/CHAGRIN FALLS -- (BASEMENT  
CORNER SOLON RD & RIVER RD) 6253 CHAGRIN RIVER RD  
BENTLEYVILLE, OH 44022**

**26-Oct-2008 Sponsor: MASSILLON HAMFEST Time: 9:00 AM (Walk-ins allowed)**  
**Contact: GARY L KLINE – (330)837-2927 -- Email: [WC8W@SSSNET.COM](mailto:WC8W@SSSNET.COM)**  
**Location: MASSILLON BOYS & GIRLS CLUB  
730 DUNCAN ST SW (1 BLOCK S OF SR #21 ON WALNUT ST) MASSILLON, OH 44647**

**26-Oct-2008 Sponsor: SENECA RADIO CLUB-W8ID Time: 9:00 AM (No walk-ins)**  
**Contact: KARL S ERBLAND (419)447-0266 Email: [K8ARL@K8ARL.COM](mailto:K8ARL@K8ARL.COM)**  
**Location: SENECA CTY PUB SAFETY BLDG @ FAIRGROUNDS 126 HOPEWELL AVE-(1ST FLOOR)  
TIFFIN, OH 44883**

**01-Nov-2008 Sponsor: RARA Time: 10:00AM (Walk-ins allowed)**

**Contact: WALTER C VOGEL (419)394-2976 Email: [AWVOGEL@BRIGHT.NET](mailto:AWVOGEL@BRIGHT.NET)**

**Location: NOBLE COMMUNITY CENTER 16493 RIVER ROAD SAINT MARYS, OH 45885**

**02-Nov-2008 Sponsor: MARION ARC Time: 2:30 PM (Walk-ins allowed)**

**Contact: RICHARD W CAREY (740)528-2296 Email: [RWCAREY@GTE.NET](mailto:RWCAREY@GTE.NET)**

**Location: TV 39 -- 1282 N MAIN ST -- MARION, OH 43302**

**08-Nov-2008 Sponsor: TOLEDO MOBILE RADIO ASSOC Time: 8:30 AM (No walk-ins)**

**Contact: STEVEN L STALKER (419)467-3734 Email: [SSTALKER@AMERITECH.NET](mailto:SSTALKER@AMERITECH.NET)**

**Location: MAUMEE FIRE STATION #2 -- 450 W DUSSEL DR -- MAUMEE, OH 43537**

**11-Nov-2008 Sponsor: PORTAGE COUNTY ARS Time: 7:00 PM (Walk-ins allowed)**

**Contact: JAMES J AYLWARD (330)297-7979 Email: [KC8PD@PORTCARS.ORG](mailto:KC8PD@PORTCARS.ORG)**

**Location: MAPLEWOOD CAREER OP CENTER -- 7075 STATE ROUTE 88 --RAVENNA, OH 44266**

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# DX & IOTA Updates

This bulletin was made possible with information provided by SP2FAP, DT8A, QRZ DX, the OPDX Bulletin, 425 DX News, The Daily DX, DXNL, Contest Corral from QST and the ARRL Contest Calendar, W1AW DX Bulletins and WA7BNM web sites. Thanks to all.

**CANADA, VE.** Michael, VE2XB/VY0 is QRV from Nunavut, Southampton Island, [IOTA NA-007](#), until the end of 2008. QSL to home call.

**KENYA, 5Z.** Valery, RW1AU is QRV as 5Z4/RW1AU from Nairobi. His length of stay is unknown. Lately he has been active using SSB on 20 meters. QSL via K5XK.

**MARTINIQUE, FM.** [IOTA NA-107](#) Freddy, F5IRO is QRV as FM/homecall until February 2009. Activity is on 40, 30 and 20 meters using CW, SSB and various digital modes in his spare time and on weekends after 2200z. QSL to home call.

**HONG KONG, VR.** Vincent, F4BKV is QRV as VR2/homecall until September 2009. He is active using mostly PSK31 with some SSB on various HF bands. QSL via operator's instructions.

**CANADA, VE.** All Canadian amateurs are encouraged to participate in the upcoming Special Event Prefixes from **October 1 to November 30** to commemorate the founding of the Crown Colony of British Columbia in 1858. They will use the prefixes [CJ](#), [CK](#), [CY](#) and [CZ](#).

**ARUBA, P4.** Operators Garry, K9WZB and Sharon, K7WZB will be active as P40ZB between October 28 and November 6. Activity will be on 40, 20, 15, 10 and 6 meters using SSB, RTTY, CW and PSK31. ([IOTA SA-036](#))

**SEYCHELLES, S7.** Operators Iwa, JA0UH and Tohru, JA0UMV will operate from Praslin Island ([IOTA AF-024](#)), from November 9 to 14. Iwa will sign S79UH and Tohru will sign S79MV. They hope to operate on 160 through 10 meters using SSB and CW. They will **not** be active on RTTY. QSL via their home call signs, direct or via the JARL Bureau.

**CAMBODIA, XU.** Operators JA3AVO, JH3PBL, JA3ARJ and JA3UJR will be active as XU7AVO, XU7PBL, XU7ARJ and XU7UJR, respectively, from Sihanoukville between November 6 and 11.

**GUANTANAMO BAY, KG4.** Bill, W4WV, will be QRV on SSB as KG4WV and Ed, KN4KL, will work RTTY, SSTV and SSB signing KG4KL on all bands from October 7 to 21. QSL to their home calls or via bureau. ([IOTA NA-015](#))

**LEBANON, OD.** Sylvain, OD5/F5TLN, will be active until February 2009. He will work mostly on SSB but also some CW on all HF bands. Sylvain will confirm the QSOs after his return home.

**POLAND, HF.** To commemorate the 200th issue of the QTC, The Polish Radio Amateur's Journal, three special event stations will operate during October. HF200Q will be active until October 10, HF200T from October 11 to 20, and HF200C from October 21 to 31. QSL to ARC SP4KDX, The Editorial Office of the QTC Magazine, Suchacz-Zamek, Wielmozy 5B, 82-430 Tolkmicko, Poland, or via the bureau.

**KENYA, 5Z.** Sam, G4OHX is QRV as 5Z4/G4OHX from Diani Beach in Mombasa until October 20. QSL to home call.

**MALDIVES, 8Q.** Mike, CT1IUA is QRV as 8Q71U from Kuredu Island, [IOTA AS-013](#), until October 20. He is active holiday style on 80 to 10 meters using CW and SSB. QSL to home call.

**GAMBIA, C5.** Andre, ON7YK will be QRV as C56YK from October 13 to November 9. [IOTA AF-060](#) Activity will be on 160 to 10 meters using CW, SSB, RTTY and PSK31. QSL to home call. In addition, several DX4DX Team members will be QRV as C56EA from October 14 to 24. Activity will be on all bands using CW, SSB and RTTY. QSL via EA4BT.

**SOUTH SHETLAND ISLANDS.** Tomas is QRV as CE9/CE3VPM until November from the Chilean station Presidente Eduardo Frei Montalva on King George Island [IOTA AN-010](#). Activity is generally on 40 meters using CW and SSB. QSL via CE1KR.

**EASTER ISLAND, CE0.** Tsuyoshi, JJ2NYT will be QRV as CE0Y/JJ2NYT from October 16 to 19. [IOTA SA-001](#) Activity will be on 40, 20, 17 and 15 meters, and possibly 80 meters, using CW, SSB and RTTY. QSL to home call.

**MADEIRA ISLAND, CT3.** Stan, OK1JR is QRV holiday style as CT3/OK1JR until October 13. [IOTA AF-014](#) Activity is on 80 to 10 meters using mainly CW around 1400z. QSL to home call.

**ANGOLA, D2.** Vasily, UA0QMN is QRV as D2QMN from Vila Catoca in the Lunda Sul province. Activity is on 40 to 10 meters using CW, SSB, RTTY and PSK. QSL via RZ3EC.

**MARQUESAS ISLANDS, FO.** Willi, DJ7RJ is QRV as FO/DJ7RJ near the coast on Ua Pou Island, [IOTA OC-027](#), until October 19. He is active using mostly CW on 160 to 15 meters. QSL to home call.

**SCOTLAND, GM.** Paul, 2E1EUB will be QRV as 2M1EUB from October 11 to 21. Activity will be on all amateur radio satellites from northeast and northwest Scotland. QSL via operator's instructions.

**MINAMI TORISHIMA, JD1.** Masa, JA6GXX will be QRV as JD1BMM from October 16 to November 6 while on work assignment. [IOTA AF-014](#) Activity will be on 160 to 6 meters during his spare time. QSL to home call.

**BELGIUM, ON.** Members of Belgium's UBA Waasland section are QRV using special event callsign ON50WAASLAND in celebration of the club's 50th anniversary. QSL via ON6WL.

**SEYCHELLES, S7.** [IOTA AF-024](#) Tom is QRV as S79TF and has been active on 30 meters around 1800z. QSL via DJ6TF.

**BANABA, T33.** Toshi, JA8BMK will be QRV as T33ZZ from October 12 to 22. [IOTA OC-018](#) Activity will be on the HF bands. QSL to home call.

**CHAD, TT.** Jovica, E78A is QRV as TT8JT until November 18 while on work assignment. Activity is in his spare time on all bands using mostly CW. QSL via E73Y.

**MARSHALL ISLANDS, V7.** Sei, JA7LU and Yohji JH1AWN are QRV as V73LU and V73WN, respectively, from Majuro, [IOTA OC-029](#), until October 13. Activity is on 40 to 10 meters using CW and SSB. QSL to home calls.

**AUSTRALIA, VK.** Tad, VK2LNX and Suzanne, VK2FSNJ are QRV for six months from Maatsuyker Island, [IOTA OC-233](#), located off the coast of Tasmania. They are volunteer caretakers at the lighthouse here. QSL to home calls.

**NORFOLK ISLAND, VK9N.** Tomas, VK2CCC is QRV as VK9CNC until October 15. [IOTA OC-005](#) He is active holiday style on the low bands. He will also be an entry in the Oceania DX CW contest. QSL to home call.

**WILLIS ISLAND, VK9W.** A large group of operators are QRV as VK9DWX [IOTA OC-007](#) until October 27. Activity is on 160 to 6 meters with four stations operating simultaneously. QSL via DJ2MX.

**SOUTH AFRICA, ZS.** Look for special event station ZS08YL to be QRV from October 13 to 18 during the International YL and XYL Meeting that will take place in Cape Town. The station will also be active from Joburg, Durban and Cape Town. QSL via bureau.

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# Help Wanted

By Brent Stover WD8PNZ

My name is Brent Stover and I am the ARRL Legislative Action Coordinator for the State of Ohio. One of my duties in this position is to recruit ARRL members to volunteer as Legislative Action Assistants in their home county. I am asking three ARRL members in each county, who are as passionate for this radio hobby as I am to help me shape the future of Amateur Radio for years to come. Without your help, our hobby is in jeopardy of being lost to highest bidder for the frequencies that we use every day for pleasure and public service. The job is not tough; in fact, I think you should have fun doing it. This position does not take up much time. A visit with your local Congressman at his or her home office once in a while and urging others to write letters to their Congressman and Senator, takes very little time and offers a large benefit. When legislators receive letters from their constituents, they do take notice and it does make a difference.

I, like most of you, work a job that requires me to work about 70 hours per week. Besides my work as an LAC, I am an AEC for Lucas County, Assistant Skywarn® Coordinator for Northwest Ohio Skywarn® District 1, Lucas County CERT, American Red Cross volunteer. I was also a Legislative Action Assistant before taking my current position, taking Senator Mike DeWine's group and other legislators on tours of our Skywarn® facility located in the Emergency Services Building of the Lucas County EMA. One thing I did learn in talking to many legislators is that they know nothing of the role that amateur radio plays in the arena of public service. We need to educate them and tell them how we want them to support the bills that the ARRL is presenting through the legislative process.

One of the threats to amateur radio that the ARRL is addressing is Broadband Over Power lines. BPL, as it is called, is where companies are putting internet frequencies on unshielded electrical power lines, making one big antenna and in the process making some parts of the amateur radio bands and some public service bands unusable. We are currently asking all amateur radio licensees' to write their Congressman and Senators to ask them to co-sponsor legislation relating to this matter. In the House, it is the Emergency Amateur Radio Interference Protection Act of 2007 H.R. 462. In the Senate, it is the same name but is numbered S 1629. There are sample letters on the ARRL website you can download and print out and these can be personalized in any way you wish. You can visit the website and read the entire bill.

If you want to protect the frequencies we enjoy today and keep them for generations to come, then you need to volunteer a little bit of time and help me build this grassroots Buckeye organization into a force that gets the attention of our representatives and makes amateur radio a hobby to be enjoyed for all licensed operators no matter what area of the hobby they operate.

For more information, or better yet, to contact me to tell me you are ready to volunteer; I have included my contact information.

***Brent Stover, WD8PNZ, Ohio Legislative Action Coordinator***

**ARRL, Great Lakes Division**

**720 Farrer St.**

**Maumee, OH. 43537-3520**

**E-mail:** [wd8pnz@arrl.net](mailto:wd8pnz@arrl.net)

**Phone: 419-893-2620; Cell: 419-297-8490**

***ARRL - The Reason Amateur Radio Is!***

***Members - The Reason ARRL Is!***

**Website:** [www.greatlakes.arrl.org](http://www.greatlakes.arrl.org)

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# Skywarn ® and a bit of ARES ®

Skywarn is a registered trademark of the National Weather Service and is used with permission  
ARES is a registered trademark of the American Radio Relay League and is used with permission

By Jay Bookwalter KC8GNL

Boy was September 14<sup>th</sup> a windy one. Lots of problems with power and downed trees. According to the NWS our peak wind at the airport here in Mansfield was 66MPH. We also has Sustained winds of 35MPH for a 6 hour period! Thats basically a tropical storm except we had no rain with it. Makes you glad we don't have to have hurricanes which have sustained winds of 75 or better.

The definition of sustained wind is; *Wind speed determined by averaging observed values for a two minute period.*

The definition of a tropical storm is; *A tropical cyclone in which the maximum one minute sustained surface wind ranges from 39 – 73 MPH inclusive. A hurricane is the same except wind speed is 74 MPH or greater. Of course these storms have rains with them too.*

Another item was the “High Wind Warnng” which is defined as: *A product issued by the NWS when high wind speeds may pose a hazard or is life threatening. The actual criteria varies from state to state with Ohio's criteria being 40MPH sustained winds for 1 hour or longer or winds of 58MPH for any duration.*

We definately fit the above catagory. A few other wind reports from the NWS just to show the variety of winds were; *Fredericktown= 46mph – Marion=64mph – Lorain airport = 71mph - Huron = 61mph – Tiffin = 54mph – Toledo – only 37mph – Columbus airport = 75mph - Cincinnati = 74mph – Wilmington NWS = 74mph – West Chester (Butler Co) = 84mph - Lebanon = 78mph – Cleveland NWS = 53mph. Glad we are not in Butler County as an 84 mph wind would definately cause major problems.*

We did not have a formal net for this wind storm but did have an informal reporting session and the reports of trees down sounded like the ice storm a few years ago. Lots of power outages too. This is why we in the ARES ® always preach about preparedness. How many were caught unprepared on the 14<sup>th</sup>? Then due to the damage being so wide spread, how many were prepared for up to a week without power or in some cases even a lack of water? Now the big question how many now plan on putting a survival kit together?

There is a class available thru FEMA on their training page labeled **IS-22**. This course is called “Are You Ready” and is an in depth guide to citizen preparedness and is designed to help the citizens of this nation learn how to protect themselves and their families against all types of hazards. It can be used as a reference source or as a step by step manual. The focus of the content is on how to develop, practice, and maintain emergency plans that reflect what must be done before, during, and after a disaster to protect people and their property. Also included is information on how to assemble a disaster supply kit that contains food, water, and other supplies in sufficient quantity for individuals and their families to survive. I myself have taken this course and it is well worth the time.

Another course recommended is the **IS-394a** “Protecting Your Home or Small Business from Disaster” Which is kind of self explanatory. The course **IS-10** is possibly of interest to a few as it is named “Animals in Disaster – module a – Awareness & Preparedness” and is for the to help animal owners to increase awareness and how to prepare. Yet another worth the time is **IS-55** “ Household Hazardous Materials” Yep you guessed this as it covers items you find at home and how to protect your home and family from problems with these chemicals.

In fact take time to look over the many other sessions available thru FEMA including the NIMS courses **IS-100, IS-200, IS-700, & IS-800**. These are the sessions that ARES ® members have been asked to take and are well worth while. The website is at <http://training.fema.gov/IS/crslist.asp> All the courses are free and available to the public so take advantage of this as the information you use might just prove useful. You never know when something like the winds on the 14<sup>th</sup> will hit again or even something worse!

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# Information You Need to use

You might have noticed that the above article has the symbol “®” after the Skywarn ® and ARES ® names. This is now being required by both the NWS and the ARRL whenever the logo or names are used. These are registered trademarks to the agencies that use them and this protects unauthorized use of these logos or names. The following is from the ARRL website.

## Minute 20 of the ARRL Board of Directors Meeting; ARES® Groups and Use of Registered Trademarks

### I. The Board Motion

The following Motion was passed by the ARRL Board of Directors at its Second Annual Meeting in July of 2004. The motion has left some ARRL members with misconceptions about the intention of the Board of Directors concerning the ARES program. This paper will address those concerns. After discussion about the Amateur Radio Emergency Service, led by Mr. Walstrom, the Board was in recess for luncheon from 11:56 AM until 1:20 PM with current meeting participants present except Mr. Day. On motion of Mr. Walstrom, seconded by Mr. Goddard, the following resolution was unanimously ADOPTED:

WHEREAS, for security reasons and for purposes of establishing formal relationships with served agencies, ARES® groups within an ARRL section are increasingly in need of affirmative recognition; and  
WHEREAS, ARES® (Amateur Radio Emergency Service®) is a program of, and both logos are registered trademarks of the American Radio Relay League, Incorporated; NOW THEREFORE, it is ARRL policy that ARES® groups, and any group using the ARES® logo, shall acknowledge the nature of the ARES® program as an ARRL program, and abide by the guidelines of the program established by ARRL as amended from time to time, according to the following principles:

1. Each ARES® group will, when using the term "ARES" or "Amateur Radio Emergency Service," utilize the ® symbol in **any** printed matter or in any electronic media, and **will** acknowledge that both logos are registered marks of the American Radio Relay League, Incorporated and are used by permission.
2. In bylaws or other organizational documents, or by amendment of any existing bylaws or organizational documents, ARES® groups **will** acknowledge that ARES® is a program of the American Radio Relay League, and that entity will abide by the Rules and Regulations of the ARRL's Field Organization, as they may be amended from time to time, and by ARRL policies, rules, and guidelines contained in ARRL publications.
3. All ARES® records, membership rosters, and other data pertaining to the ARES® program wherever located are the property of the American Radio Relay League, Incorporated.

The NWS guidelines are similar to those from the ARRL and should be followed when using the Skywarn ® name or logo. Credit for this logo & name goes to the National Weather Service.

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## "AN EDITOR'S SPECIAL"

The following article by David Spain (KC8GNU) was originally printed in Airwaves in 2006. Gunther Meisse (W8GSM) has been an ardent ham radio operator, and a member and supporter of our radio club for many years. We are proud of his accomplishments in the management of local commercial radio and TV broadcasting, and more so in the realm of amateur radio satellite communications. With that in mind, and the 75th anniversary of the IARC, we proudly reprint David's article titled "A CHAT WITH GUNTHER MEISSE":

"Recently, I had the chance to chat with the senior Gunther Meisse (W8GSM) in his office at WMFD/WVNO on Park Avenue West in Ontario. He is an easy person to talk to, and his enthusiasm for ham radio projects is contagious. As many of you know, our radio club's [146.940](#) and [147.360](#) repeaters work off of a communication's tower at the TV/Radio station.

My chat with Gunther was about his role in the North America branch of **AMSAT**, the world-wide Radio Amateur Satellite Corporation. The organization has the responsibility for, among other things, the design, engineering, manufacture, launch and maintenance of the amateur radio satellites in space orbit today.

AMSAT had its beginnings in 1969, when a group of amateur radio operators (hams), many of whom were employed by government, commercial or university laboratories in the Washington, D.C. area, formed the organization and incorporated it. The group vowed to carry on the pioneering and voluntary ham radio satellite work already being done by "Project OSCAR" on the west coast, which included the launch of OSCAR (Orbiting Satellite Carrying Amateur Radio), the first amateur radio satellite, in 1961 from Vandenberg Air Force Base in California. The satellite, which orbited the earth for 22 days (312 orbits), and transmitted the morse code letters "hi", went up a mere four years after Russia's pioneering "Sputnik" satellite, which shows the talent and intelligence available in the ham radio ranks.

Gunther Meisse is a life member of the organization, his membership number is 594 among over 23,000 members, and he got involved in AMSAT, not so much through his interest in satellites or ham radio, but through his life-long interest in weather. "In my 2-meter operations", he said, "I stumbled across the weather map transmissions from the first two NASA polar orbiting satellites and geo-stationary satellites ATS-1 and ATS-2, which gave me a whole new opportunity for my interests in weather. I also started listening to the nightly satellite transmissions from doctors in Texas to nurses in really remote areas of Alaska, who were treating patients for various illnesses. I got hooked on satellite communications and its value for doing good things".

Gunther has met many of the early pioneers in satellite amateur radio, including Dr. Thomas A. Clark (W3IWI), a physicist and a remarkable person, who once served as President of AMSAT, and who now serves on its Board of Directors. "I took a leave of absence, you might say, from my satellite activities", Gunther commented, "and I was down at the Dayton Hamfest a few years back, and I stopped by the AMSAT booth". He went on to say that, in a discussion with some others at the booth, particularly about funding issues and his ideas for them, they mentioned to him about "running for a seat on AMSAT's Board of Directors".

From this discussion, Gunther then met with Dr. Clark and Richard Hamby (W2GPS), who is now the President of AMSAT. They encouraged him to "run", but noted that it usually takes two or three times to get elected.

"Well, I got my petition signed, filed it, and there were others ahead of me, so to speak, hams who had been more active than me", he explained, "but I did something nobody else had ever done, I actually campaigned for the position, and I got elected on my first try". Later, Gunther got elected by his fellow board members to his current position of "Treasurer" for North American AMSAT, which places him on the corporation's Executive Team.

Gunther, who is now in his second term as AMSAT treasurer, has certainly played a role in bringing sound financial practices into the organization, but his major project is to help establish an endowment for the corporation. "We hope we will be able to raise about 10-15 million dollars", he commented, "and we are in the process of hiring a professional fund raising organization to help us with our campaign. If we are successful, we will be able to invest the money, and use the accumulated interest to

help fund our projects. We will be contacting the Bill Gates of the world, who share our interest in scientific projects, to help us reach our goal. We will also be asking for whatever help they can give from ham radio operators all over the world”.

Gunther mentioned the example of how it will cost \$600,000 just to build the Eagle 1 and Eagle 2, two ham radio satellites that will be launched within the decade. “AMSAT is talking to launch operators all over the world to set up the satellites as payloads”, he said. He explained how “AMSAT used a huge Soviet Union SS-18 Intercontinental Ballistic Missile, still setting in an old “Cold War” silo in Russia, to launch ECHO, AMSAT’s latest polar orbiting satellite. It was launched for pennies on the dollar compared to conventional European or American launches, which can cost up to 2.5 million dollars each”.

On its website, AMSAT North America mentions that one of its goals is to have “ham radio satellite communication 24/7”, and Gunther Meisse enthusiastically says it isn’t all that far into the future. He explained there will be three satellites in “high earth orbit some 60,000 kilometers up in GTO, geostationary transfer orbits that provide up to a 12-hour window for communications”. In addition to using two meters, he said, “we will be using the “S” and “L” bands, up-linking on 1 Gigahertz and higher, and down linking on 2 Gigahertz”. The Eagle 1 and Eagle 2 will be the second and third of three amateur radio satellites that will support this upgrade in service. The first, P3E, is being built in Germany by AMSAT-NA and AMSAT-DL (AMSAT Germany), and will feature Software Defined Transponders. The launch for P3E is planned for late 2006 or 2007.

Gunther is very supportive of AMSAT’s efforts to work with the American Radio Relay League and NASA to bring space science and amateur radio to classrooms all over America and around the world. “AMSAT members provide the portable 2-meter equipment to link the schools with the International Space Station”, he explained. “AMSAT members go the school and set up the ham radio equipment, and, during a predetermined pass by the space station, kids get to ask the astronauts questions”.

A second AMSAT educational endeavor is to bring future “Bird Builders” into the fold by working with science students (especially electronics, astronomy and physics) at several American universities. “They actually design and build small, but complex, satellite repeaters known as “CubeSats, and they study orbital tracking, communications electronics, and amateur radio, with mentors from AMSAT helping them”, Gunther said.

It was sure a pleasure talking to Gunther Meisse. He has a “General” ticket now, after first getting his “Tech” for 2-meter satellite operations. His two sons, Gunther (K8GSM) and Rob (W8REM), are ham radio operators at the “Technician” level. He plays down his scientific knowledge about the “how’s and why’s” of satellite radio communications, and says his contributions to AMSAT are his financial ideas and the where-with-all and diligence to see them into reality. That being said, he is the Team Leader for the development and construction of the navigation cameras that will fly on Eagle I and Eagle II.

We all know that every organization needs “movers and shakers” for survival, and there should be no doubt that Gunther Meisse plays a vital role in the continued progress of AMSAT, itself another wonderful aspect of the fascinating hobby of amateur radio.

If you want to know more about AMSAT, a good place to start is the organization’s website [www.amsat.org](http://www.amsat.org). A special thanks to Gunther for his patience and help with the technical aspects of this article. Writing it has been very educational for me, David Spain (KC8GNU). “7-3”

Editor's Extra

Just a few updates on above mentioned satellites since the article is a few years old. The following web addresses will let you know what the status is for the following;

“Eagle” -- <http://www.amsat.org/amsat-new/eagle/>

“Cube-Sats” -- <http://www.amsat.org/amsat-new/express/>

Other future Satellites -- [http://www.amsat.org/amsat-new/satellites/sat\\_summary/future.php](http://www.amsat.org/amsat-new/satellites/sat_summary/future.php)

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# Club Positions Open

## PIO

At the October meeting it was brought up that Bill Reese W8WER would like to find someone that would take his place as Public Information Officer (PIO). This is due to the fact he needs more time to do the technical upkeep of the repeaters in which he says makes it hard to do both jobs. For information on the PIO duties see <http://www.arrl.org/pio/handbook/> This will give you a better idea of what this job covers plus if you do decide to take the duty can help guide you. Scott Yonally N8SY actually helped write the handbook and is one of our members.

## Special Event Coordinator

This job is a fun duty as it is one where you will be the contact for events the club has over the year. I myself have done this and I will not lie, it will take some time attending planning meetings. Now you do not have to do all of the events yourself as you can have others help on some of the events so you do not overload yourself. Again it can be a fun job and helping plan some of the events is interesting. Yes there is a handbook for this duty too at the following - <http://www.arrl.org/FandES/field/spevman/>

Take a look at the handbooks and if you are interested contact Rob Ruth KD8AZQ

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## NWS Skywarn® Recognition Day

Gary Garnet from the Cleveland NWS office is wanting to have the Cleveland station included in this years special event. The date will be **December 6<sup>th</sup> from 00:00 to 24:00utc** At this time **nothing is set** but there will be a need for volunteers to help run the station. This will be in Cleveland at the weather office at Hopkins Airport. Information on recognition day is at <http://www.crh.noaa.gov/hamradio/index.php> So if you think you would like to help out contact Danny Bailey and he can put you on the list. You may also contact Gary Garnet at the nws office at [gary.garnet@noaa.gov](mailto:gary.garnet@noaa.gov) Security is tight at the NWS office as it shares space with the FAA. So access is limited to the building. Gary will get details later if this is a go.

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# October IARC Meeting Minutes

Before the meeting began Dick, n8cjs asked everyone to do their patriotic duty and be sure to register to vote and vote this upcoming presidential election. After this we all stood and recited the pledge of allegiance.

After a round of introductions we recognized all of the new hams who became licensed over the summer along with those new generals who had just passed the General Cram Session. We also congratulated Dave, n8dpw for passing his Extra.

**Treasurers Report:** Dean, kb8mg said that we have in savings: \$1,115.04, Dues is: \$383.67, Repeater account: \$4,060.80 and Checking is: \$1539.86. He said that about a month and a half ago Rob, kd8azq, Melody kd8cwi, and Philip kd8fgv audited the club's books. Everything checked out to the penny. However, there was one minor suggestion and that was to put dates where the checks are. He said that would not be a problem. John, wa8mho made a motion to accept the treasurers report and Bill, n8tq seconded, motion passed.

**Website:** Philip, kd8fgv said that during the 6-month period of April 1<sup>st</sup> until September 30<sup>th</sup> 2008, we had a total of: 14537 sessions to the website resulting in 318,212 hits. This equals roughly 1739 hits each day, We moved a total of 1.93 Gigabytes of information which resulted in the Airwaves being downloaded 865 times during that 6-month time period. We now have 55 e-mail accounts through the website. If anyone would like one, they can contact Philip by using the information on the web page.

**Membership:** Mike, w8emt said that as of this meeting we had 38 paid members. If anyone sees a problem with the new membership roster to please contact either him or Dean, kb8mg and they will make any necessary changes. Rob, kd8azq reminded us that anyone who recently passed there Technician test is entitled to one year of free membership from the club. If you are one of these people and you paid at this meeting, the club can either give you your money back or it can be put towards next years membership.

**PIO:** Bill, w8wer said that we have had a very busy summer and the fall looks to have little let up. We were involved in many celebratory parades and festivals in the Mid Ohio area such as: Freedom Fest, Safe Boating and Fishing Fest, Bicentennial celebration in Mansfield, Ms. Ohio parade, Richland County Fair and Lexington's Blueberry Fest along with many others not listed hear. We also had our name in the paper with the county commissioners giving us a proclamation for Amateur Radio Week.

**Tech Committee:** Bill, w8wer said that he went to the receiver on Scenic Drive this past Wednesday evening before the net began and did a basic inspection from the ground. Everything looked fine at that point. The following evening he went back out with a watt meter to discover that the transmitter is dead. He said that Greg from Vasu was out to the .94 main repeater site and swept the lines and did not find anything to cause it's crackling which seems to occur most often when it is windy. He also gave the antennas a visual inspection with binoculars and was not able to see any loose connections. He said that the coax cable running to the antenna is not properly grounded and recommended this to be done. Bill, w8wer also said that we now have access to the Lexington Repeater. He met with someone from HiStat and was given two keys. He gave Henry, wd8q one as he is the trustee of that repeater and he is keeping the other for maintenance purposes. Bill, w8wer said that down the road we may need to consider at least retubing the amp on the .36 repeater as it is down on power. We could get new tubes for it but we do not know how long this may last. We also do not know how old they are, he estimates them to maybe be as old as 50 years old. Solid state amps would have an advantage of significantly smaller in size. Bill n8tq asked what brand the antenna is on the .94 repeater and how much a new one would cost? He asked if we have to pay for someone to go up the tower, wouldn't it be cost effective to just install a new antenna? Tom, n8twm asked if we could allocate some money so we could do the work necessary at anytime instead of having to put off the repairs until at least the next meeting? Bill, w8wer said that he has no idea of the brand of antennas being used, nor would he have any idea how much to allocate so for now he would hold off on that until he has more information. Bill, w8wer also said that he brought some equipment from silent key n8gjz's estate. This equipment is available for anyone to look through. If you find something you like, take it and give it a good home.

**Education:** Henry, wd8q said that we have had three cram sessions and one general cram session in the past year. This type of studying will continue on as it does not hold up the instructors for many weeks at a time. He also said that we have a new education director who is: John Reise, wa9jbr.

**Special Events:** Rob, kd8azq said that we have a number of fall events. October 10, is Trunk or Treat located at the Richland Mall in Ontario. This event runs from 6:00 until 10:00 PM. October 11<sup>th</sup> is the Fox Hunt which is to be held at Mohican Forest. Meet at the Fire Tower at 10:00 AM. For more information, please contact Danny, kb8stk. October 12<sup>th</sup> is the Fall and Leaf bike tour. Meet at Comfort Inn South at ST. RT. 97 near Bellville at 7:30 AM. Contact Danny, kb8stk for more information. October 18<sup>th</sup> is the Madison township fall parade at 10:00 AM. We will also have a test session coming up on October 18<sup>th</sup>. This will be at the Richland County Health Department located on Lexington Avenue. Please preregister by contacting Dick, n8cjs, who's info can be found on the club's web page. Finally October 21<sup>st</sup> is the Mansfield Halloween parade at 5:30 PM. Please keep in mind. Parades take a lot of candy, so if anyone would like to donate, your contributions will be greatly appreciated. Rob, kd8azq thanked the club for the purchase of the trailer. It has been very instrumental in getting our name out to the public.

**ARRL:** John, wa8mho said that Saturday, Oct. 4 is the league sponsored Simulated Emergency Test which starts at 10:30 AM and runs through Sunday. The best way to check in is through the OSSBN on HF, which meets at:39725 MHZ several times a day. Secondly he talked about opposition which has come up between two well known hams running for election this fall, within the Ohio Section of the ARRL. You can read more about this in Weavers Words on the Ohio Sections website: [www.arrloho.org](http://www.arrloho.org).

**ARES:** Danny, kb8stk talked briefly about the already mentioned Fox Hunt, which will take place on Saturday, October 11<sup>th</sup> at Mohican Forest. Anyone interested should meet at the firetower at around 10:00 AM. Rick, kk8o will not be the fox this year as he will be unavailable to take part in the fun. Next Danny, kb8stk talked about the Fall and Leaf Bike tour which will be held on Sunday October 12<sup>th</sup> at 7:30 AM. It should have the same route except for a minor change around North Liberty. He also said that the club's trailer will be at the Comfort Inn as our command post. Food will be provided in Bellville for those who help with this event.

**New Business:** Jay, kc8gnl said that he has had a lot of break ins in the neighborhood of the bike shop. He has been broken into three times over this past summer. This along with discovering that the radio room is no longer covered under his new insurance has caused him to ask the club to remove the equipment from the radio room at the rear of his shop. This also includes the tower at the rear of the building. He said that Tuesday, October 7 Henry, along with a few others will be removing the towers, weather permitting. Jay, kc8gnl also said that he has a large variety of older magazines such as QST and World Radio. If anyone is interested in any of them he will bring them to the next meeting.

Rob, kd8azq said that the board has decided to terminate the phone line in the radio room at the bike shop. We don't need to continue paying the \$53.00 a month if we no longer have equipment there. Bill, w8wer made a motion to cancel the phone line and Danny, kb8stk seconded, motion passed.

Rob, kd8azq said that he would like to install a small antenna at the Red Cross for basic communication, however they will not allow us to install anything on the roof. Several people suggested using satellite dish stand offs. He said that he would get several people together in the near future to determine the best option for getting a UHF/VHF antenna installed.

Rob, kd8azq said that he and Danny, kb8stk went to the Red Cross BLDG recently to discover that our club's equipment which was supposed to be there is gone. He also got a list from Harry, k8hf with several other peaces of equipment listed that no one knows of there current location. Rob, kd8azq said that he would like to meet with those at the Red Cross and see if we can change the combination on our radio room's door to try and eliminate this from happening in the future. Several options were thrown out as to securing equipment in the future such as locking cabinets and a list of those who have access to the room.

Rob, kd8azq also suggested renting a lock and store in Mansfield. He said that he wants all of the club's equipment to be in one centrally located place in case we ever have an emergency and need easy access to it. Henry, wd8q said that he would like to see us do inventories at least several times a year.

Mark, kc8mkl asked if we have any relationships with other agencies such as Salvation Army? Maybe they have somewhere they could donate us space or may know where space may be had. Rob, kd8azq said that he would look into it.

At this point, Henry, wd8q read a letter from the ARRL which told of a man who's life was saved by using CW when he became injured while hiking in the woods. This emphasizes the importance of Morse Code and how vital

it can still be.

Rob, kd8azq said that Mark, kc8mkl has come to the board and asked for a temporary leave of absence. He has an opportunity to go through some training in Cleveland for several months which may lead to employment. Rob, kd8azq asked if anyone would be interested in taking meeting notes for him while he is away? Steve, kd8grm said that he would be willing to take the meeting notes for November's meeting while Mark and Ike are away.

Rob, kd8azq then said that he has been approached by a number of club members to change the club meetings from Friday evening to Saturday mornings. At this point, a conversation took place as to the different options available and how to gauge the overall feelings of the club members. We decided to try rotating between having the club meetings on Friday evening and Saturday mornings beginning January of 2009.

Rob, kd8azq said that he would like to see John, k8nj and Philip, kd8fgv get together as the board decided to purchase the mailing software to create labels for Ham Fest mailers.

Dave, n8dpw said that if there is enough interest among club members, we may order a role of coax cable from Phil's Ham Radio Store as he gives multiple discounts to clubs buying in bulk. This coax could be brought to our Ham Fest.

Rob, kd8azq said that Bill, w8wer would like to retire from the PIO position. If anyone is interested, please contact him. Rob, kd8azq said that he would also like to relinquish his duties as special events coordinator.

Rob, kd8azq asked if there was any further business for the meeting? Nothing was said. At this time Mike, w8emt made a motion to adjourn and Bill, n8tq seconded, motion passed.

Respectfully submitted,  
Mark Dailey  
Kc8mkl

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# XYL SPEAK OUT

*" October - Spooktacular"*

**Thanks to Meli for her contribution this month!**

Hello again to everyone!

Wow, has this year flown by fast! It's hard to believe it is October already! It's ok though, because I love the colors of the leaves, the chilly nights, the hay wagon rides and toasting marshmallows over the fire. Oh, I can't forget Apple Hill's apple cider!

Thanks to all who helped at the Blueberry Festival. That was a nice time with the food, fireworks, and fun!

Also a big thank you to all who helped make the September meeting a fun night of (again) food and fellowship. I know I always enjoy talking to everyone and getting to know people a bit better! We have a great club with lots of really interesting and talented people.

If you stop for just a minute and look back at where our club was last year at this time and where it is now...wow! So many things have happened that it's hard to name them all, but I think through thick and thin our club just keeps getting better!

Ok, let's get back to business for a minute. We have the upcoming Fall Festival Party at the Richland Mall on Saturday, October 10th from 6-10pm. My Sister is the one coordinating it and last year they had about 800 people show up. This year they are going to have a band from Canada playing, lots of games and prizes for the kids, and yes, I am almost sure there will be food there! If anyone is willing to donate candy or small prizes for this event and the City of Mansfield's Halloween Parade it would be greatly appreciated. We can also use the man power too! I am sure all who help will have a lot of fun! Usually after the Halloween parade there's always donuts, apple cider, coffee, and hot chocolate to warm the soul!

I received some pretty interesting tips a while back and thought I would put a few in this month's column. Hope they help!!

- \* Budweiser beer conditions the hair
- \* Pam cooking spray will dry finger nail polish
- \* Cool whip will condition your hair in 15 min
- \* Mayonnaise will KILL LICE , it will also condition your hair
- \* Elmer's Glue-paint on your face, allow it to dry, peel off and see the dead skin and blackheads if any
- \* Shiny Hair-use brewed Lipton Tea
- \* Sunburn -empty a large jar of Nestea into your bath water
- \* Minor burn-Colgate or Crest toothpaste
- \* Burn your tongue? put sugar on it!
- \* Arthritis? WD-40 Spray and rub in, kill insect stings too
- \* Bee stings - meat tenderizer
- \* Paper cut - crazy glue or chap stick (glue is used instead of sutures at most hospitals)
- \* Stinky feet - Jell-O!!
- \* Athletes feet - cornstarch
- \* Fungus on toenails or fingernails - Vicks vapor rub
- \* Kool aid to clean dishwasher pipes. Just put in the detergent section and run a cycle, it will also clean a toilet.
- \* Pam will also remove paint, and grease from your hands! Keep a can in your garage for your hubby
- \* Heavy dandruff - pour on the vinegar!
- \* Preserving a newspaper clipping - large bottle of club soda and 1/2 cup of milk of magnesia, soak for 20 min. and let dry, will last for many years!

- \* To keep goggles and glasses from fogging, coat with Colgate toothpaste
- \* Remove labels off glassware etc. rub with peanut butter!
- \* Dirty grout - Listerine
- \* Grass stains - Karo Syrup
- \* Grease Stains- Coca Cola, it will also remove grease stains from the driveway overnight. We know it will take corrosion from batteries!
- \* To keep FRESH FLOWERS longer Add a little Clorox, or 2 Bayer aspirin, or just use 7-up instead of water.

Please keep checking the calendar on the website, I know I have probably left out a few other events in October...everyone knows I have my "Meli moments"!!

Thank you all for reading this column. If you have any questions, answers, quizzical moments, tips, jokes, etc. please don't hesitate to email Jeanine (jsbestact@aol.com) or myself, Meli (luckyemt@hotmail.com) it's always nice to get suggestions!

Thank you all so much. May you all have a Blessed and safe October!!

73 & 88  
Meli (KD8CWI)

And the only recipe we have received so far from the September meeting is from Patty (KD8FNQ) which she handed to me before the evening was even over. She is just soooo good!!! I'd like to be like her when I grow up. Here is her [DUMP CAKE](#) recipe:

**For a 9 x 9 pan use one can each, for a 9 x 13 pan use two cans each:**

**Crushed pineapple  
Cherry pie filling  
Yellow or white cake mix  
1 stick butter**

**Dump pineapple and cherry pie filling in pan. Stir until mixed well. Sprinkle cake mix across the top of mixture. Slice stick of butter in ¼" slices and lay across the top 1" to 1 ½" apart across the top. Bake at 350° for 45 minutes or until golden brown. --- Delicious!**

Thanks and have a good month.  
Jeannine (KD8CWF)

Email submissions or comments to: [jsbestact@aol.com](mailto:jsbestact@aol.com) (KD8CWF) or [luckyemt@hotmail.com](mailto:luckyemt@hotmail.com) (KD8CWI).

PLEASE TELL US WHAT YOU THINK ABOUT THIS COLUMN. IT'S THE ONLY WAY WE CAN GROW AND IMPROVE.

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# For The Digital People

This is the first formal announcement for the **23rd Annual Southwest Ohio Digital & Technical Symposium**, to be held in **Thesken Hall, Middletown Campus, Miami University, Middletown Ohio, on Saturday, January 10, 2009.**

We are now soliciting authors and papers to be presented at this symposium. Topics are wide ranging, from "how to" articles concerning digital modes, to construction projects for transceivers. A sampling of what was presented last year is on the web at <http://www.swohdigi.org>. Please send your ideas and suggestions to K4ZLE, [k4zle@embarqmail.com](mailto:k4zle@embarqmail.com)

Please mark your calendars for this event, and talk this up amongst your fellow hams in and around Mansfield. Please mention this at your next club meeting, in any net sessions you attend, and in your local club bulletin or e-mail reflector. We hope that this will be another great year for the 2nd longest running amateur radio technical symposium in the United States. The event is free, except for a nominal cost for an optional catered lunch. 73 and hope to see you on January 10.

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## From The ARES® EC

By Danny Bailey KB8STK

Well Fall is here and Time for some Fall Events that are coming up. October ARES is going to be busy the Weekend of October 11 is the Fall Foxhunt at Mohican Forest All are invited come and learn how to track down a signal and get a chance to look at a little bit of search and possible rescue missions practice in the forest.

October 12 is the Fall and Leaf Bike Tour in the Mohican Area Again Come and enjoy the Fall Colors and watch around 200 bikers riding around the Tour.

The New Skywarn office will be at the EMA. If we are not able to do the Net at home. The EMA is very well Setup. If anyone would like a Tour of the EMA we will have be Having a Fall A.R.E.S. Meeting will let everyone know the date at the November IARC Meeting.

73

Danny Bailey KB8STK  
Richland County Emergency Coordinator

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## A Note From Our Favorite VEC

Hey !!!!! sorry guys and gals, Been somewhat very busy, but wanted you all to know that we have a test session coming up on the 18th. Testing is at the Health Dept., lower level, and we start at 1:00pm.

Don't forget to bring your license and or along with your CSCE and please make copies.

The price is still the same \$14.00. We would prefer a check but will accept cash.

Study hard you all and see you at the test session.

73, N8ENK, Patricia A. Harris

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# A Word Of Thanks

I want to thank all those who helped remove the club tower from the back of the Bike Shop. Hopefully this will take away the easy access of the punks who have been breaking into the shop the last month and a half. With all the help it did not take very long and all is taken care of. Again many thanks

73 – Jay Bookwalter – kc8gnl

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## Past Issues of QST, CQ, & World Radio Magazines

New & Old members

Interested in past issues of these magazines??

There is a bunch at the bike shop which had been intended for students over the last few years. If you would like some of these stop by and take what you want. What is left I will bring to the next club meeting. However if you want the best picks don't wait.

Call me at 419-522-3696 if you have questions.

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