What’s in this issue?
Remembering the friends that we’ll miss
Staff appointments, resignations, and cancellations
From the desk of the Indiana Section Manager
Section Emergency report
Official Observer Report
Section Traffic Manager report
Technical Specialist Coordinator report
Affiliated Club Coordinator report
Public Information Coordinator report
Amateur Radio on the International Space Station
Special Event Stations & Indiana Hamfest’s

“To promote and advance the art, science, and enjoyment of amateur radio”.

Remembering friends that we’ll miss….Thoughts and prayers for their family and loved ones

K9JRI – Michael Blake – Indianapolis, IN
N9AL – Tom Buchan – Warsaw, IN
N9SQG - Gary Francis Sr – Franklin, IN

For silent key notice to be placed in the newsletter, please forward a copy of the obituary notice directly to Jimmy Merry, at jmerry@arrl.org. For Silent Key notice inclusion in QST, please follow the instructions at: http://www.arrl.org/silent-key-submission-guidelines. I will be glad to send in for publication in QST if you provide me with the required documentation.
Greetings Indiana Ham’s,

June and July have been wonderful months. A bit warm for all of us. Hope all ham’s that attended Field Day festivities enjoyed the event. I traveled to venues across Southern Indiana, while other Indiana Section staff members traveled to destinations in the Northern sections of the state. Wish I could have visited more sites. Attended the Indianapolis hamfest on July 13, enjoyed spending time talking to fellow hams.

Make sure your clubs annual report is current on the ARRL.org website. So that the nomination form is mailed to correct address. Please update the club email, phone, officers, meeting location, time and day of meeting, etc.

There are some annual reports that are not current with officers and contact information. Clubs may review club annual report on the ARRL website.

73,
Jimmy Merry, KC9RPX
IN Section Manager
Special meeting: **Kermit Carlson, Central Division Director** will be visiting the Amateur Radio Association of Newton County Indiana at their monthly meeting on August 5, 2019. The location is: **Morocco Lions Club, 3091 S 300 W, Morocco, IN 47963**. The time is at **7:00 pm**. All Indiana amateur radio operators are invited to attend.

Section Emergency Coordinator Report

It is hard to believe that it is July already. I hope everyone is enjoying the warm weather. Perhaps you will have a chance to do some antenna work while the weather is ideal.

I did have a chance to visit several Field Day sites. I would like to thank the sites for their hospitality during my visits. I was great to see the various approaches to emergency communications and the efforts of the clubs and teams exhibited towards Field Day!

We are currently in the planning phase for our statewide Simulated Emergency Test. A date has not been set but we are planning on an early November time frame. As we part of the SET,
I hope to include digital communications at the state level. This will include WINLINK Express modes of communication. More details will be forthcoming as we bring the plan together.

I hope that many of you have or will be participating in Public Service Events in your jurisdictions. These PSEs serve as a chance for us to practice our craft, test our equipment and to demonstrate to the public what our hobby is all about. I know that there are some big events coming up this fall and that many counties will have opportunities for additional volunteers. Watch for those opportunities.

Have a great summer!

73
Jim Moehring, KB9WWM
Section Emergency Coordinator
Amateur Radio Emergency Service
Indiana Section

**********ARES VOLUNTEERS NEEDED**********

Current Open District Emergency Coordinator Positions: District 1, District 4, District 9 and District 10.
If you are a current EC in one of these districts, or have past experience in the ARES field organization, please consider stepping up to serve your community with your hobby.


EC’s are the backbone of the ARES organization. I would like to fill as many of these county openings, as possible. If you are interested in filling a vacant County EC Position, please contact me at KB9WWM@arrl.net to express your interest.
Reporting DEC’s
N1LL, KB9WWM, N9KL, KC9RVL, K9DUR

Reporting EC’s (32 of 50)
KB9WWM, K9JAJ, W9DBA, KV9N, KB9OIC, W9EEU, KC9ELU, KD9KMG, N9GTL, N9MOX, N9CWV, KB9DJA, K4BXX, N9S1U, AB9ZA, KC9GFO, W9GNR, WD9G1U, K9TEM, N9JPX, W1MKZ, KB9RZK, WR9G, W9DRB, KC9OBH, KC9GUY, W9DAC, W9V1K, KT9B, KB9ML, AB9HP, K9EJS

Reporting Official Emergency Stations
NA9L, KC9TYA, KA9QWC, N1LL

District Emergency Coordinator Reports

Jim Moehring – KB9WWM – District 3

Still have EC vacancies in several counties in District 3. The EC is the backbone of the ARES program at the county level. In order to achieve our EMCOMM goals it is important that we fill these EC positions. If interested in any of the vacancies, please let me know. Contact me at KB9WWM@arrl.net

We are preparing for a busy PSE season in September and October including the Fort4Fitness Marathon in Fort Wayne and the IT 100 Ultra-marathon at Chain O’Lakes State Park in October. Watch for details for your opportunity to participate in these events.

Marv Gilliand – KC8RVL – District 6

Participated in Field Day at Blackford Co HS Soccer Field. There were 4 clubs involved: Blackford Co ARC, Grant Co ARC, Muncie Area ARC, and EmComm ECI ARC. I also participated in weekly Muncie ARC and EmComm ECI Nets.

Alan Scott – N9KL – District 5
Continuing initial meetings with ECs in the district. Work schedule limited my ability to visit Field Day sites; made brief visit to Bloomington Amateur Radio Club site in Monroe County. Coordinating with IDHS on development of HSEEP-compliant exercise for the section's Simulated Emergency Test this fall.

**Emergency Coordinator Reports**

**Jim Moehring-KB9WWM-Allen Co.**

Compared to May, June was a quiet month in regards to SKYWARN activity with only 1 net activation.

Field Day was hosted by the Fort Wayne Radio Club at the Old Fort in Fort Wayne. The operation participated in the 6A class.

Compared to

**Jeffrey A Jones – K9JAJ - Bartholomew Co.**

Congratulations to both N9MZ and W9TCP who completed all four of the required NIMS certifications this month.

On Saturday June 15th we had a Severe WX net lasting 91 minutes. A total 33 stations from Bartholomew and surrounding counties checked in.

**Scott Nelson- W9DBA-Brown Co.**

During June there were 5 scheduled ARES nets conducted on 147.300 + PL 136.5 with 26 check ins lasting for 44 minutes. We had one 2.5 hour SKYWARN Net with 5 base checkins.

**Daniel McDonald - KV9N – Cass Co.**

We had 4 regular weekly nets in our Skywarn program. We also had field day operating as W9VMW (Club call) 3F, In. 28 people attended the 24 hour exercise. Preliminary report indicates 394 contacts on 40 meters, 138 contacts on 20 meters (most of which are probably PSK-31), 50 contacts on 15 meters and 2 contacts on the GOTA station

**Wes Temple – KB9OIC – Clark Co.**

Clark County participated in a training and community event with the Kentucky Shelby County ARES for a two-day event totaling 14 training hours. The training event allowed us to set up in rain, shelter down for lightning and heavy winds, and degree temp swing from 55 to 82 degrees on both days. All this made for a real-life exercise including getting wet.

**Gary Adams-W9EEU-Clay Co.**
We planned our Field Day operations until Saturday morning. With thunderstorms in the area, rain falling, and standing water at our planned site, we decided to cancel our operation. An invitation was extended to join another local group which had indoor operating positions. A few of our group accepted and participated with this group. We were visited by a local TV station and our Clay County Auxcom group was mentioned in the report.

I attended a LEPC meeting and our group will be participating in an exercise later this summer.

**Michael S. McCoy – KC9ELU – Decatur Co.**

6/15/2019 SKYWARN net resulted in 10 participants over 130 minutes. Micro burst wind damage on three separate privately owned properties was relayed to NWS and local law enforcement.

**Michael S. Alley – W9MSK – Hamilton Co.**

Weekly nets only hours counted

**Greg Chaney – Hancock Co.**

The Hancock County Field Day exercise held under the W9ATG call (Hancock Amateur radio Club) was a success. A total of 12 ARES members attended with a total attendance of 33 people including the Greenfield mayor, Chuck Fewell. The Greenfield Reporter newspaper was also present and ran an article about our exercise after the event. Our emergency power was supplied by a generator on loan from the local EMA.

**Clark Whitehouse- N9CWW- Harrison Co.**

Four nets this month, 71 minutes and 34 check in. Thanks

**Ron Burke-KB9DJA- Hendricks Co.**

We have a HCARES member working with the IU Methodist in Indy to place an amateur radio station at the hospital. If successful, this hospital will join our monthly Hospital Nets and will further a hospital link that will involve three (3) hospitals and one (1) County Health in the region.

Starting in June and will run through August is our QSY nets. These nets are conducted once a month on our weekly HCARES Nets designed to test the check-in ability to tune into another frequency at the start of the weekly net, then return to the normal radio frequency. This gets the ham to use other radio frequencies when instructed in case something happens to the regular net frequency, or in case of an emergency as well.

Field Day 2019 at the HCARES/HCARS club Welcome tent:

This year the HCARES leaders picked up three new recruits to add to the current ARES membership.
The County EMAD gave the club two, (2) containers of 5 gallons of gas each to run their power generator during Field Day.

To start the event, a County Commissioner read the signed County Proclamation Amateur Radio Week to recognize the event, and a County Deputy Sheriff stopped by to see us and to register her attendance.

We also wish to thank the volunteers of The Salvation Army who stopped by and gave refreshments and snacks.

HCARES donated through the help of a member, two (2) commercial 3000VA UPS Backup power supplies to the Hendricks County EOC. These units will help power several computer systems and other equipment during an emergency/disaster should the power fail.

Jeff Davis – K4BXX - Henry Co.

We held a field day event at the Henry County Emergency Services Training Center. We were visited by the SEC and our county deputy emergency manager. We had a few preventable technical issues occur which indicate a need for more prep and training our pat. But the event was a success overall because we were able to communicate and engage with both the community and our primary partner. Thanks to all who participated.

Robert LaGrange- N9SIU-Johnson Co.

Johnson County ARES members and members of the Mid-State Amateur Radio Club participated in ARRL Field Day for the 24 hours of operation at the Johnson County EOC Radio Room. Earlier in the month I met with Alan Scott N9KL and we discussed Johnson County ARES and upcoming events for the rest of 2019. Plans have been made to have ARES members participate in a local event in Greenwood in August.

Mark Gregory-AB9ZA- Kosciusko Co

We did not have any ARES Activities other than the Nets on Saturday mornings this month.

F. Gary Sherman – W9GNR – Madison Co.

Madison County continues its active membership. We experienced 2 additional Storm Net Activations during the month of June with excellent response from our ARES/Comm Division members. Participation in our training nets remains high and enthusiastic. More membership are taking the time to check in with neighboring county Storm Net Check ins. Currently we maintain weekly communications with 7 surrounding counties and the Marion ARES net.

Thomas E. (Tom) Myers - K9TEM-Monroe Co.
June was a very busy month in Monroe County. Many Monroe County ARES members attended the Bloomington Amateur Radio Club meeting on Friday, June 7. There were four weekly ARES Monday Night nets, a monthly county warning siren test that only activated a few sirens, and four SKYWARN nets. The SKYWARN net on Saturday, 15 June, covered an EF2 tornado that damaged or destroyed several homes and buildings and downed countless trees along a path north of Ellettsville. Several Monroe County ARES members also participated in Field Day at two locations: the Cyberinfrastructure Campus on the NE corner of the Indiana University Campus, and at Flatwoods Park, NW of Ellettsville, where tornado damage was still evident.

**Chad Wilson-W1MKZ-Newton Co**

On June 1st we assisted with the Newton County Wild - Cycling Event. Riders had the choice to follow an 18 or 26 mile ride through the Nature Conservancy, Willow Slough Fish and Wildlife area, and past the Kankakee Sands Bison viewing area. We had 8 strategically placed stations, Net Control, and one â€œRolling Roverâ€” a van manned by Mike KA9E.

At our monthly meeting KB9NHZ held a class on grounding and bonding for both the shack and the field.

For Field Day we had 14 participants and ran 7 stations. Two of which ran digital modes. We made 337 contacts over the course of the event. 5 stations ran off of one of our two Honda generators. The other two stations ran on battery. Solar wasnâ€™t possible due to inclement weather.

**George Edenfield – KB9RZK – Putnam Co.**

Field Day was a success for us. One youth operator, Corbin Edwards, KD9KNK, achieved 108 phone contacts!

**Steve Jewell-WR9G-Scott Co**

The Scott County EMA Group conducted a VE Session Saturday, June 8th at the EOC. We had one candidate come in for testing. He successfully passed the Technician test. The next testing session is scheduled for August 10th at 11:00 AM. Walk-ins are always welcome. The testing location is at the Bacala Center, 69 E Wardell St, SE Corner of Courthouse Square, Scottsburg IN 47170. For more info email steve@wr9g.net. 73, Steve WR9G

**Peter C. Crasher W9DRB-Spencer Co.**

4 nets analog 4 nets digital

**M. David Metz III – KC8OBH – Starke Co.**
Participated in field day as NA9U

Mark Tritch – KC9GUY – Steuben Co

During Field Day the ARES team set up portable digital (including Winlink2000) stations and demonstrated capabilities to the Steuben County EMA Director.

Mike Laboyteaux-KB9ML-Wayne Co.

This month started with a bang. Richmond Square mall was hit by an EF0 tornado that literally came out of nowhere. This shows that even though the NWS may drop watches and warnings if a storm has a history of severe weather it may still produce damaging winds or even a spin up tornado. Field day happened in Wayne county at the 4H fair this year. We had 4 radios working and had a good turn out by ARES members to man them all night. We were actually able to put on a small night shift for the first time in a long time. A special thanks to Jim Moehring SEC for coming by and visiting our site. The visit really meant a lot to the members of ARES that were present at the time.

Like in past years no good Field Day can run on an empty belly. The dinner of Nathan hot dogs were well received and a special thanks to ARES member, Ron Weadick, K9WE, for the delivery of biscuits and gravy for a hot breakfast after a cool night. Fun was had by all and we increased contacts over last year which was one of my goals.

Next month at our scheduled meeting we will be having a workshop on making a center feed for a wire antenna. Everyone is welcome!!!!

Ed Scott-N9EJS-Whitley Co.

Whitley County ARES Members assisted with the Columbia City Early Warning Siren Testing and spent most of the month in preparation of Field Day. On top of this planning and preparing for the Three Rivers Bike Tour in July that we're assisting Allen County ARES with. Enjoying the nicer weather!

Official Emergency Station’s Reports

Vernon Austermiller – NA9L – Morgan Co.

I checked into the Morgan County, Hendricks County nets. I checked into the Indiana Traffic Net, checked into the weather net. I passed 8 pcs of Routine traffic.

Mark Thienes-KC9TYA-Vanderburgh Co

Due to travel obligations I was not able to participate in Field Day Activities this year. The TARS Club operated from the Red Cross in Evansville. There were a lot of contacts made, and rain/storms we on the scene as well. Overall I heard that everyone had a great time, with delicious food.

More work continues on the Hambulance for the ARES/RACES group. I also received a lightning strike close to my home. I have a Kenwood TS-590SG that will do everything
except transmit. Also lost the Yaesu FT-8800 2m/440 rig. Fortunately I was able to use the Go-KIT radios to keep active on the bands. Hope everyone has a Safe and Happy 4th of July.

Donald L. Evilsizor-KA9QWC-Whitley Co

Severe weather skipped around my QTH in June. Finally managed to install our 80M dipole again between rains with considerable amount of help from XYL WB8ORR. Drove in my normal 3 farm steel fence posts at each end and in the middle. Used 2 hose clamps on each post to fasten in the 1st five foot section military aluminum pole. Stacked 1 more pole on at each place making about 10 foot off the ground. The top poles have retainer rings with pulleys to raise and lower the wire antenna if needed. Due to our physical condition plus hot days we were not able to stack on the 3rd poles. However, it was an immediate improvement for the Indiana Traffic Nets (ITN) that we both serve as net controls. I worked Field Day Saturday eve with the N9VI GROUP at Bixler Lake Park in Kendallville Indiana. Even with the added QRN on 40M I worked a fair number of stations on SSB from around 6PM to 12 Mid-night. Sunday morning we went to visit our other club, the Whitley County Amateur Radio Club (WCARC) at the 4H Fair Grounds in Columbia City. They used the call of WC9AR but we did not operate. At the end of each month it finds me busy receiving EOM net reports from other radio operators to relay via Packet Radio to our STM W9BGJ.

INDIANA ARES BY THE NUMBERS

Total ARES Members reported: 743
Number of reporting ARES EC’s: 32
Number of reporting OES’s: 4
Number of reporting DEC’s: 5
Number of ARES Nets: 118
Number of Nets with NTS Liaison: 43
Number of exercises, and training sessions: 55
Person Hours: 1699.11
Public Service Events: 11
Person Hours: 314.63
Emergency Operations: 0
Person Hours: 0
SKYWARN Nets: 25
Person Hours: 287.47
Note to all EC’s, DEC’s and OES’s: Monthly reporting is very important so that we can demonstrate our contributions to the community. Monthly reports must be submitted by the 8th of the month whether ARES activities take place or not. Continue reporting using the Google form until the ARES Connect system is up and running.

INDIANA OFFICIAL OBSERVER REPORT

INDIANA OOC REPORT JUNE 2019

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ADV = Advisory    GD OP = Good Operator

ARRL SECTION TRAFFIC MANAGER INDIANA SECTION

Greetings everyone! Was great to work some of you during Field Day weekend and hear so many stations active on the air it’s very encouraging also at the number of young people that came to visit and operate over the weekend. The new up and coming hams are what will sustain our hobby for many years to come and it’s up to us myself included to teach them and bring them up the ranks. We have so many in the Indiana Section that are very good at doing just that! It was also great to see the number of Radio Grams for the Section Manager turned in this year and I have made sure that they have all made it to league headquarters so the groups that turned one in are properly credited. That proves what great traffic handlers we have in our section! Our traffic count is looking good for the month as well as you will see in the monthly newsletter. Until next month everyone take care and stay cool!

73

BRIAN G JENKS W9BGJ
ARRL ASSISTANT SECTION MANAGER INDIANA SECT
ARRL SECTION TRAFFIC MANAGER INDIANA SECTION
ARRL OFFICIAL RELAY STATION
w9bgj@arrl.net
### VHF/UHF NETS

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NETS REPORTING: 25

### PUBLIC SERVICE HONOR ROLL

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TOTALS: 194 | 176 | 180 | 85 | 20 | 80 | 727
**INDIANA STM REPORTS**
**JUNE 2019**

**HF NETS**

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**ORS AND SAR STATION REPORTS**

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**Monthly Report for D/Star and DMR Nets**

June 2019

**DMR**

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Session:

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Session:

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NOTE:

QNI – Total Number of Check-ins
QTC – Total Traffic
QTR – Total Minutes

Lou N7BBW

Nothing in the way of providing TS. However I have fielded questions about using amateur radios from China. Some misunderstood the FCC ban, which is in reference to use on the commercial channels.

Tom Busch, WB8WOR

Joe K7JOE and I went up on the Wonderlab roof a week before Kid’s Day. We discovered a few minor antenna issues that we need to take care of soon.

Despite that, we had a successful Kid’s Day. We made several contacts on HF and the Build a Radio project went smoothly.

Tom Busch, WB8WOR
We have begun planning a radio project for the Monroe County Hamfest.

Mark Skowronski K9MQ

I assisted one amateur this month. He was looking for information on a particular 220mhz transceiver that he was considering buying. I went ahead and provided him a link to user reviews and also suggested checking out Youtube for a video review/demonstration.

Been keeping busy on six meters working FT8. I upgraded to a linear 5v power supply on the KiwiSDR, which has helped reduce some noise.

Greetings,

I enjoy reading the newsletters for the affiliated clubs that have been sending them. If any of the Indiana affiliated clubs have special news or events that they would like to share in the newsletter, hams around the state, please place the event in a separate document (email or word document). There are still many clubs that I rarely hear from and I would like to have a note about how things are going occasionally with the club. Please review your clubs annual reports on a regular basis as it contains vital information especially for new hams, those looking for clubs to join, or visiting from out of town.

The following clubs that are listed on the next page must review and update the annual report immediately, those over 2 years risk the loss of club affiliation and benefits. If you need assistance feel free to contact me, I will be glad to help.

Indiana clubs that are over 1 year since last update:

- White County (Feb 18)
- Hoosier Lakes (Jan 18)
- RCA ARC (Aug 18)
- Henry Co. (March 18)
- Bloomington HS S (June 18)
- Kokomo ARC (Aug 18)
- Clinton Co (March 18)
- Indiana Masonic Home (6/19)
- Land of Lakes (Aug 18)
- Central Indiana ARA (Dec 17)
- Ohio Valley (June 18)
- Porter Co (Jan 18)
- Ripley Co (March 18)

Indiana clubs that are over 2 years since last update:

- Blackford Co (March 17)
- Purdue Univ (Feb 17)
- Hoosier Repeater Builders (Jan 17)
- Terre Haute North HS (Dec 16)
- Tippecanoe Co (March 17)
- Tri County HF (Feb 17)

*** CLUBS THAT ARE OVER 2 YEARS SINCE THE LAST UPDATE OF THEIR ANNUAL REPORT MUST UPDATE ANNUAL REPORTS IMMEDIATELY.***
Kosciusko CountARES News

**General Training Class** - The 2019 General Training Class ended today, and kudos to Loren / WB9OST and Lyle / N1LL for their dedication in putting on this class, and for those who helped. There were six candidates, two of which passed. I am sure there are second attempts in the planning already, after some practice tests online. Great work all!

**Fall Skywarn Training** - Great news, there will be a Skywarn Training Class in Kosciusko County in September. Here is what I received from Ed Rock, as well as the attached flyer.

"This class, put on by professionals from the National Weather Service, will educate you on what to look for, and even report during Fall severe weather and winter weather. We have not presented a class like this in Kosciusko County prior to this offering. Please use the link in the attached flyer to register to take advantage of this opportunity. Please feel free to pass this along to anyone who might be interested.

Edward Rock  
AEM, PEM  
Kosciusko County  
Emergency Management  
100 W. Center St

**Portable Rigs Sites** - Roy / AC9DN sent me a link to a Facebook page that features a lot of information about portable transceivers that you might find interesting. I know a lot of you don't do Facebook, but for those that do, check out [https://www.facebook.com/RadioSetGO](https://www.facebook.com/RadioSetGO).

**Handheld Digital Oscilloscope** - Larry / AC9OX sent me a link for a 100MHz digital Oscilloscope that costs less than $100. For someone that could use an Oscilloscope this looks like a really great deal. Check it out at [https://www.banggood.com/DANIU-ADS5012H-Digital-2_4-inch-TFT-Screen-Anti-burn-Oscilloscope-500MSs-Sampling-Rate-100MHz-Analog-Bandwidth-Support-Waveform-Storage-and-Built-in-Large-3000mah-Capacity-Lithium-Battery-p-1469066.html?cur_warehouse=CN](https://www.banggood.com/DANIU-ADS5012H-Digital-2_4-inch-TFT-Screen-Anti-burn-Oscilloscope-500MSs-Sampling-Rate-100MHz-Analog-Bandwidth-Support-Waveform-Storage-and-Built-in-Large-3000mah-Capacity-Lithium-Battery-p-1469066.html?cur_warehouse=CN) I know it's a long URL, but check it out.
That's all for this week. It's forecast to be a scorcher this next week, so keep cool and hydrated. Better yet, stay in the AC indoors and get on the air!

Monroe Co.

The Bloomington ARC, Indiana University ARC and Southern Indiana ARA will host the Monroe Co Hamfest on September 28 at the Monroe Co. Fairgrounds

Jimmy Merry, KC9RPX
Monroe Co. PIO

ARISS and You!

This photo story is for Indiana ARRL members to enjoy.

The ARISS Team knows hams of all ages enjoy ARISS (Amateur Radio on the International Space Station), not just youth. In one year’s time, hams relayed nearly 89,000 packet messages using the ARISS packet system on the ISS. And hams are very enthusiastic about ARISS SSTV images transmitted every couple of months from the ISS for anyone to download and post (at https://www.spaceflightsoftware.com/ARISS_SSTV/index.php) and earn handsome diplomas. During an earlier 2019 ARISS SSTV session, 5,500 images were posted by hams. One DXer wrote, “It was the most fun on ham radio I've had in years.” Hams can go to the www.ariss.org page, and click on “General Contacts” to learn about ARISS packet and ARISS SSTV.
NASA On The Air
Apollo 8 50th Anniversary

nasaontheair.wordpress.com

ARISS SSTV image Commemorating Apollo Missions
An ARISS SSTV diploma

And yes, all ages of students learn a lot when their school’s ARISS education proposal is selected for an ARISS scheduled contact with an astronaut orbiting on the International Space Station. Talk about DX! Here’s an example. Like many ARISS schools, all ages of Faith Christian Academy students in Orlando, FL, took part in their teachers’ planned STEM and ham projects for a few months. They got on the air to talk to hams; one was particularly popular, a retired technology guy. Students of different ages had fun trying Morse code (including watching their teacher try it!), built electronic kits, tried repeaters to learn how hams communicate during emergencies, and tried out satellite QSOs. Older students learned to download the ARISS SSTV images transmitted from the ISS. Schools tie in many hands-on STEM activities such as drones, fox hunts after students build tape measure yagis, using the computer to learn orbital mechanics and radio waves, and more. These fun learning activities were topped by the “really wow Amateur Radio!” time during the schools’ ARISS contact with an astronaut. For information about
submitting an ARISS education proposal go to: https://www.ariss.org/hosting-an-ariss-contact-in-the-us.html

Girls and boys building kits

Downloading ARISS SSTV images using a cell phone

If someone thinks the ISS and space aren’t exciting to students these days, look at the photo below from Antietam Elementary School in Woodbridge, VA. One student has “deer in the headlights” shock while the others are totally thrilled to hear the astronaut’s voice as radio contact was made.

One requirement a teacher must address, in addition to submitting plans for STEM and radio hands-on activities in the ARISS education proposal, is guaranteeing a big crowd at an ARISS school contact. The Hudson Memorial School in Hudson, NH succeeded—see below.
The ARISS team’s volunteers have a deep-rooted passion for inspiring people of all ages in any type of STEM (science, technology, engineering, math) and radio technology…and for introducing youth to ideas on related careers. All of this wonderful ham radio work and fun requires terrific volunteers and an outstanding ham radio station on the ISS. The current ARISS ham station is aging—almost 20 years old, and is intermittent. ARISS designed the robust, higher-power InterOperable Radio System that can be operated from any ISS module. The system has been in development and fabrication by many ARISS volunteers for several years. The last 2 years, the system has gone through most of the very stringent four-step NASA space certification testing. ARISS is nearing the final test stages. That means monetary contributions are needed to take ARISS over the finish line. Space-certified parts are incredibly expensive, and this hardware venture costs about $150,000.

If ARRL members and clubs want to help ARISS finish up, they can go to http://www.arrl.org/frequently-asked-questions and look for the ARISS logo Donate button at bottom left. This links to www.amsat.org. ARRL and AMSAT co-sponsor ARISS in the US, with NASA SCaN and the ISS National Lab, and AMSAT kindly offers ARISS its infrastructure for ARISS donors. Donors can also go to the ARISS FundRazr page at: http://fundrazr.com/arissnextgen?ref=ab_e7HtwA_ab_9eRk6oUnTDD9eRk6oUnTDD. If giving online is not comfortable for some readers, they can email me, Rosalie White, K1STO at rwhite@arrl.org.

ARISS helps ensure there will be future hams and a healthy and exciting Amateur Radio hobby service for years to come. The ARISS Team wants ARRL members and clubs to know how grateful ARISS is for all contributions. Donors are vital to ARISS continuing its program of introducing young people, parents, educators, and communities to STEM and Amateur Radio.

Very 73,
Rosalie White, K1STO
ARISS-US Delegate for ARRL
ARISS-International Secretary
2019 Indiana ARRL State Convention
Hosted by Allen County Amateur Radio Technical Society
   November 16 & 17
Allen County War Memorial Coliseum, Ft Wayne, IN
ARRL – Dan Henderson, N1ND

2019 ARRL Central Division Convention
   HRO Superfest
   September 27 – 28, 2019
   Ham Radio Outlet Milwaukee
   5710 West Good Hope Road
   Milwaukee, Wisconsin
   Guest: Howard Michel, WB2ITX, ARRL CEO

Statewide hamfests
   July 20 – Auburn Hamfest – Auburn, IN
   July 27 – Westside Tailgate Fest – Indianapolis, IN
   August 24 - Owen County ARA Hamfest – Spencer, IN
   September 28 – Monroe Co Hamfest – Bloomington, IN
   October 5 – Hoosier Hills Hamfest – Bedford, IN
   October 19 – Shelbyville Tailgate – Shelbyville, IN
AUBURN HAMFEST

Saturday July 20, 2019
FIRST CHRISTIAN CHURCH • 910 N. INDIANA AVENUE • AUBURN, INDIANA

Talk-In– 147.015 (no tone)
ADMISSION– $5.00 under 12 free
INCLUDES FREE PARKING AND ONE FREE RAFFLE TICKET

PRIZES
1. Yaesu FTM 3200 DR 144MHz 65W Mobile with System Fusion
2. Yaesu FTM 3100 R 65W 2M Mobile
3. Yaesu FT 4 XR S#81032108 Dual Band Compact HT
4. 3 ARRL Publication Certificates- one each $50, $25, $25

Vendor Setup 7 AM–9 AM
day of event
For advanced registration–
Contact w9ou@arrl.net

Vendor fees:
Table Indoors, $10
Outdoor, $5
(trunk sale)

DIRECTIONS
FROM I-69: Exit 329 East and turn North at the third traffic signal, Indiana Avenue. Turn North and proceed to the First Christian Church parking lot entrance.
FROM IN 427 Turn West at IN 8 (Seventh Street) and proceed to the third traffic signal, Indiana Avenue. Turn North and proceed to First Christian Church parking lot entrance.

Talk-In: 147.015 (no tone)
The C.T.S. and H.E.R.O. groups will sponsor a Tailgate-Hamfest on Saturday, July 27th.

*** Food and drinks will be available. Tickets: $5 at the gate. No set-up fee. Free parking.

*** Children under 16, and youth that are FCC licensed under 18 have free admission.

*** Hours will be 8am to 12pm. DOOR PRIZES WILL BE GIVEN AWAY DURING THE EVENT.

*** Location of this event is: The Aviation Institute of Maintenance,
7251 West McCarty St. Indianapolis, IN. 46241
58th Annual
Hoosier Hills Hamfest
At the Lawrence County 4H Fairgrounds Near Bedford Indiana October 5, 2019

Amateur Radio ~ Forums ~ Electronics ~ Computers ~ Foxhunt

Indoor Hamfest, All Vendors & Tailgating Inside & Outside
Hourly DOOR PRIZES Including ARRL Store Gift Certificates
$200 Cash Grand Prize ~ Admission Price $5

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<thead>
<tr>
<th>Vendor / Tailgate Set-Up</th>
<th>Hamfest Hours / Rules</th>
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<td>Vendor Building Open 8am - 8am Saturday vendor / tailgate set-up only. Please ask about early setup times when reserving spaces. Outside Tailgating Fee is $5 plus admission. Inside Vendor / Tailgating Fee is $10 per table/space, plus admission. Each 10' x 10' space includes 1 table. <em>Quantity Discounts Available For Inside Only</em></td>
<td>Gates open to the public at 8am Saturday. Admission $5 per person (under 12 FREE). Breakfast and Lunch items will be for sale in the main hamfest building, concessions area. Tickets must be in the barrel no later than 12 noon to be eligible for the $200 GRAND PRIZE</td>
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ARRL VE Testing ~ Registration 9:30 - 10 am Test At 10 am Next To The Main Building

TALK IN ~ 146.73 MHz (-) PL 107.2
W9QYQ Repeater

Please Sign Up For Our Hamfest E-newsletter & Find The Latest Hamfest Information On Our Website: http://www.w9qyq.org/hamfest

Hamfest Chair: Tim Miller K9US
Email: k9us73@gmail.com
Phone: 812.272.0408

Contact Person: W.W. Warren - KB9TMP
For Information, Text or Call: 812.675.2450
Or Email: hamfest@w9qyq.org

Hamfest Location 11265 U.S. Highway 50 West Mitchell Indiana 47446 – Please See Above Map
For The Latest Hamfest News, And Forum Listings Please Visit http://www.w9qyq.org/hamfest
PLACE:  SHELBY COUNTY FAIRGROUNDS  
500 FRANK ST, SHELBYVILLE, IN 46176  
DATE:  SATURDAY, OCTOBER 19, 2019  
TIME:  8:00AM to NOON  
SETUP:  7:00AM SATURDAY (INSIDE AND OUT)

The Shelbyville Tailgate 2019 will be held on October 19 at the Shelby County Fairgrounds. We have use of the Family Arts Building so that folks can setup their tables on the inside or outside, weather depending. We will be open at 7:00AM for anyone wishing to setup their table space. At 8:00AM we will open to the general public. Admission is free. No charge for inside or outside vendor space. Soft drinks, Coffee and Sausage Gravy and biscuits available while supplies last. No charge but donations will be accepted. 

NO ALCOHOLIC BEVERAGES ARE PERMITTED BY THE SHELBY COUNTY FAIR ASSOCIATION. These folks own the property so we have to play by their rules. Your cooperation will be appreciated. We will be closing up shop around Noon.

This will be an old-fashion tailgate event where hams can get together, chew over old times and embellish their recollections of ham radio past. You can buy, sell or trade your ham related gear and visit with all of your ham radio friends. This tailgate event carries on in the tradition started by Ralph Polston, K99EW, some years ago when he started having tailgates in his side yard. We are trying to maintain the spirit of those events and perhaps widen the circle of folks who might come visit with us. See you there. 73

www.brvars.com

You are invited to join us for a great time
47th FORT WAYNE HAMFEST
Largest Hamfest in Indiana
2019 ARRL INDIANA SECTION CONVENTION

ARRL Forum - Saturday 10:00 AM
Kermit Carlson W9XA
ARRL Central Division Director
Carl Luetzelschwab K9LA
ARRL Central Division Vice - Director
James Merry Jr. KC9RPX
ARRL Indiana Section Manager

ARRL Section Banquet - Saturday 5:00PM
Dan Henderson N1ND – Keynote Speaker
ARRL Regulatory Information Specialist
Buffet BBQ Beef Brisket and Sautéed Chicken Breast.
Ticket $25. Attendance limited to first 70.
Reservations Open October 1, 2019
www.fortwaynehamfest.com

- Ham Radio License Testing All Classes ($14)
  9 AM till 12 PM Saturday
- WAS & DXCC Card Checking and CQ Awards
- New & Used Ham Equipment Dealers
- Main & Hourly Prizes
- Equipment Check-out | Test Purchases on-site
- Talk-in 146.880-
- Tables:
  $25 Regular (8ft), $50 Premium (8ft), $33 Electricity
  (Coliseum Parking $6 per vehicle)

November 16 & 17 2019
SAT 9 AM to 4 PM
SUN 9 AM to 2 PM
Admission: $6 Sat & Sun
$3 Sun only
Children under 12 free (with adult)

Allen County
War Memorial Coliseum
4000 Parnell Ave
Fort Wayne, IN
73,000 sq. ft. all indoors

Get the latest information at
www.fortwaynehamfest.com
www.facebook.com/FTWAYNEHAMFEST/
Field Day Photo's

Hendricks County

Bloomington ARC Flatwoods Park

Ft Wayne Radio Club