
Welcome to the 2018 Dayton Hamvention

Amateur Radio... Serving the Community

On behalf of our sponsor, The Dayton Amateur Radio Association and all the volunteers making up the Dayton Hamvention® 2018 team, we want to welcome you to our second year at the Greene County Fairgrounds and Exposition Center. We have worked hard to review and improve on last year's show and we think we have succeeded in creating an event you will remember and want to come back to, year after year.

We have one additional building for our use. We have increased the number of Forums again this year. Both Inside Exhibits and Flea Market have sold out of booth space. We have expanded the food options beyond the excellent variety we had last year. We are using the clearspan tents this year to eliminate some of the problems we had. We are creating roads through the Flea Market to help eliminate the mud issue. I do recommend using the free offsite parking and free busing. We have a claim check area where you can store your new toys and then pick up your vehicle and come back to claim them. Traffic has been thoroughly looked at and any issues have been resolved.

Reflecting upon last year's weather with all of Mother Nature's worst events taking place around the world, we have focused on a specific area of Amateur Radio for our theme, Amateur Radio... Serving the Community! Please visit the Forums and learn something new about Emergency Communications. These forums are planned to give you new ideas and let you walk away with the facts and motivation to become more involved. Do not forget the EmComm Display area to learn how the other guy does it.

Assistant General Chair Jack Gerbs (WB8SCT) and I (KD8ENJ) thank you for making the trip to Dayton! We hope you enjoy the show as there is much to see and do. Please thank our many volunteers as they make this show happen. Visit with old friends and make new friends from around the world and make plans to come back and visit with us next year.

Ron Cramer KD8ENJ
Hamvention General Chair 2017-2018

Ron Cramer, KD8ENJ
General Chairman



Jack Gerbs, WB8SCT
Assistant General Chairman



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Comments Invited!

Comments on your experiences at the Dayton Hamvention should be addressed to the following:
General Chairman
Dayton Hamvention
P.O. Box 964
Dayton, Ohio 45401-0964

The Dayton Hamvention Program is published by the Hamvention Committee. Permission is granted for reprinting articles, provided credit is given to the original author and the Hamvention Program.

Design and Layout

Program was created by Chuck Wright, K8MDB

Souvenir Program Committee

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Asst. Chair..... Linda Kalter, W8AAV
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Linda Kalter, KD8YQU
Jim Shaw, AL7BA

The Dayton Amateur Radio Association (DARA) and Hamvention fully support and are committed to the objectives of the Americans with Disabilities Act (ADA). We strive to provide equal opportunity to all ADA qualified persons who participate in Hamvention. Our objective is to provide access to the event and we expect nothing less of those who provide building facilities, exhibits and services at our event.

Future Hamvention Dates

May 18, 19, & 20, 2018

May 17, 18, & 19, 2019

May 15, 16, & 17, 2020

Hamvention Phone Numbers

Emergency (937) 276-6930

Inside Exhibits (937) 276-6931

Flea Market (937) 276-6932

Prizes (937) 668-5311



Activities & Times

FRIDAY ACTIVITIES

9:00 a.m. - 6:00 p.m. Flea Market open. Bus service runs 7:00 a.m. - 7:00 p.m.
9:00 a.m. - 6:00 p.m. Inside Exhibits open, prizes on display.
9:15 a.m. - 5:00 p.m. Forums and scheduled activities.
10:00 a.m. - 3:00 p.m. Amateur Radio License Exams.
10:00 a.m. - 5:00 p.m. Hourly prize drawings.

SATURDAY ACTIVITIES

9:00 a.m. - 5:00 p.m. Flea Market open. Bus service runs 7:00 a.m. - 6:00 p.m.
9:00 a.m. - 5:00 p.m. Inside Exhibits open. Prizes on display and Exams.
9:15 a.m. - 5:00 p.m. Forums and scheduled activities.
9:00 a.m. - 3:00 p.m. Hourly prize drawings.
10:00 a.m. - 4:00 p.m. Amateur Radio License Exams.

SUNDAY ACTIVITIES

9:00 a.m. - 1:00 p.m. Flea Market open. Bus service runs 7:00 a.m. - 4:30 p.m.
9:00 a.m. - 1:00 p.m. Inside Exhibits open, prizes on display.
10:00 a.m. - 11:00 p.m. Hourly prize drawings, must be claimed by noon.
9:15 a.m. - 12:00 p.m. Forums and scheduled activities.
1:00 p.m. Award Winners' Presentation.
1:00p.m. Prize Drawing (unclaimed hourly prizes, followed by main prizes).
Bus Service will be available for a short time after the main prize drawing.

2018 Hamvention Souvenir Lanyard & Patch

NEW This Year Souvenir PATCH

The DARA AMATEUR RADIO Boy Scout Venturing Crew 73 is proud to announce a 2018 souvenir patch. These are in limited supply and could sell quickly!

We also will be offering the "DAYTON HAMVENTION 2018" souvenir lanyards.

2018 Souvenir Lanyards.....\$4.00 ea.

All lanyards include laminating your Dayton Hamvention admission ticket.

2018 Souvenir PATCH.....\$4.00 ea.

Red-White-Blue striped or Royal Blue lanyards \$3.00 ea.

We will also laminate other items for you for a nominal fee.

Hours	Outside Tent	Inside
Friday & Saturday	7:30 am - 3 pm	9:00 am - 4 pm
Sunday	Closed	9:00 am - noon

Stop by with your children and have them get a surprise that will make them feel they are "little hams."

While Supplies Last

Thank you for supporting the DARA AMATEUR RADIO Boy Scout Venturing Crew 73.

HAM RADIO
43rd International
Amateur Radio Exhibition
www.hamradio-friedrichshafen.com

DARC
Deutscher Amateur-Radio-Club e.V.

MESSE FRIEDRICHSHAFEN

June 1-3, 2018
Messe Friedrichshafen

Bodensee
Maker Faire
Parallel event for
making, tinkering
and designing

The poster features a large, stylized blimp illustration in the center, with a smaller one below it. The background is a vibrant pink with a faint globe pattern at the bottom.



Services

INFORMATION/DARA MEMBERSHIP

Information Booths are located inside the main pedestrian gate, outside the main pedestrian gate and at the entrance to the flea market. DARA membership is located in Building 4, "Volta". (See map on pages 27).

EMERGENCY MEDICAL CARE

Hamvention will have medical staff on site on site during show hours. Emergency care is also available from the following:

Greene Memorial Hospital
1141 N Monroe Dr, Xenia, OH 45385

LOST & FOUND

The Information Booth inside the main pedestrian gate will accept lost items. Items can be retrieved at this location the day the item is lost.

MESSAGE CENTER

Leave a message for your friends by submitting their call sign and message at the Prize Booth. Prize monitors throughout the arena complex will periodically list "message holding" by call sign.

LICENSE EXAMS

Have you been thinking about upgrading your license? Take a short ride across the street and visit the Hamvention License Exams. We are ready to assist you in taking that big step to a new license.

Free Laurel VEC license exams will be given across the street from Hamvention at Memorial United Presbyterian Church, 343 West Ankeney Mill Rd. Testing for all amateur license classes will be available on Friday, May 19th and on Saturday, May 20th. Hours for testing both days will be 10:00 a.m. until 3:00 p.m. There will be no testing on Sunday. Free shuttle vans are provided from the Hamvention site to the testing location and back. Shuttles will pick up and drop off near the main Hamvention gate. Exams will be given on a first-come, first-served basis. There is no pre-registration.

Large print exams will be available at all test sessions as will assistance for those who may have special needs. All are encouraged to come and take a test since there is no fee for these exams.

Each applicant must have the following:

1) Applicants must have an FCC Registration number (FRN as we no longer accept Social Security Numbers.) An FRN may be obtained by visiting the FCC Universal Licensing System at:

<https://apps.fcc.gov/coresWeb/publicHome.do>

From this page click on the REGISTER button and follow the instructions to apply for an FRN. You can also use this page

to check and see if you already have an FRN. Be sure to print or copy down the FRN number you are issued and bring it with you to the testing location.

2) A copy of their current license (original copy, Reference Copy or Official Copy, if applicable).

3) The original of any CSCE or other paperwork which will be submitted for element credit.

4) Identification (can be any of the following).

- a government-issued photo ID (e.g. driver's license, passport, CAC),
- a non-government issued photo ID (e.g. student ID),
- a non-photo ID (e.g. birth certificate).

Applicants may wish to bring a basic calculator for use during the exam. Cell phone calculators may not be used during the exam. There will be a limited number of basic calculators available to borrow.

SHIPPING SERVICE

The US Postal Service offers freight service from their booth in Watt Hall 6311 and 6312. Postal dropoff available during regular show hours.

Freight hours are as follows:

Friday	11:00 a.m. - 6:00 p.m.
Saturday	11:00 a.m. - 5:00 p.m.
Sunday	10:00 a.m. - 1:00 p.m.

(Hours may vary: check at the booth for changes)

SPECIAL EVENT STATION

The 2018 Dayton Hamvention Special Events Station will be located in Building #2 in spaces 2706 & 2707 using station call W8BI.

The station will feature the custom built station tables that will have one station each.

Station One will feature either the Icom 7300 or 7610 Transceiver.

Station Two will feature the Kenwood 590 Transceiver.

Supporting the stations will be SWR metering. Monitors will be at each station to show station activity in an audio and visual manner.

The antennas will again be the Radio Wavz Sentinel Hex Beam using a 40 Meter Linear element for Station One.

The antennas are going to be supported by the P&R Communications Mobile Antenna Trailer, set up just outside of Building 2.

A visitor friendly station layout will be used this year to encourage patrons and operators use in a more comfortable and open environment.

Station operating hours will be Hamvention show hours each day.

TALK-IN FREQUENCIES

For directions and assistance in the Dayton area during your visit to Hamvention, contact



Transportation & Parking

“Talk-In” on the DARA Repeater 146.94 (-) with a backup frequency of 146.985 (-) pl 123.0

In addition, we will have a bulletin system transmitting on 145.525 where attendees and vendors can hear the latest information and updates and get answers to the most frequently asked questions. Please tune in to the bulletin and then return to the Talk-In frequency if you have other questions or need more detailed information.

TRUCK & TRAILER PARKING

Semi-trucks (except Vendor Semi-Trucks with pass and other parking instructions) and/or other oversized vehicles will park in the impound/tour bus/taxi lot. Use Gate 4 entrance and be directed to parking spot. If that becomes full, you will be redirected to a nearby lot within shuttle distance. Monitor Talk-In for early notice if lot is full. No overnight parking or camping is permitted. All vehicles must be removed by 9:00 p.m. The Greene County Sheriff and Greene County Parks Ranger will enforce the No Overnight Parking Rule.

CAMPER PARKING

On-site camping is managed by Greene County Fairgrounds office at 937-372-8621. No tent camping is permitted and no overnight camping is permitted in the flea market or the parking lot. Contact Greene County CVB (937-429-9100) or Montgomery County CVB (800-221-8235) for other available locations.

TEMPORARY LOADING PASS

A “Temporary Loading Pass” is available for guests to check heavy or large purchases at the Flea Market Will Call area and return with their vehicle to pick them up. The Will Call area is located along the front fence, next to Gate 1, across from the Flea Market Office. These passes act as a “Claim Check” and will be dated. Pass holders **MUST** return to the Will Call area via Gate 2 and must pick up their equipment before 6:00 pm on the day the pass was issued. Passes must be forfeited upon picking up the equipment. Once the equipment has been picked up, the guest(s) will be directed to exit through Gate 1. **IMPORTANT NOTE:** The Dayton Hamvention, Dayton Amateur Radio Association or any of their volunteers are not responsible for any items/equipment checked that are left over night.

Golf Cart Services

The Golf Cart Committee continues to provide no-cost shuttle rides and golf cart rides for customers to/from the ADA parking area and the general parking areas from 7:00 a.m. - one hour after closing. The golf carts can take you to

the Flea Market Entrance. For safety reasons, we do not take passengers in and out of the Flea Market area.

The Analog Discovery Ham Radio Workbench Bundle



“Every ham radio workbench needs an oscilloscope, waveform generator, voltmeter, data logger, logic analyzer, and spectrum analyzer. The **Analog Discovery 2** includes all these and more in a compact USB-connected device.”

- George Zafiroopoulos, Ham Radio Workbench Podcast

Visit the Digilent booth for more information and a special Hamvention exclusive promotion!



SCOOTERS

Are you planning on attending? An electric scooter or wheelchair will ensure that you are able to see as much of the convention as possible.

While ScootAround will make every effort to accommodate all needs, you are encouraged to reserve in advance! To reserve your equipment call toll free (888) 441-7575 or complete the information form at the link listed below. We are happy to accept Visa and MasterCard for all rentals!

Website Rental Form:

<http://locations.scootaround.com/DaytonHamvention>



GREENE COUNTY FAIRGROUNDS & EXPOSITION CENTER

120 Fairground Road
Xenia, Ohio 45385
Phone: 937-372-8621
www.greenecountyfairgrounds.com

May 2018

To each of you who are reading this letter, we say “WELCOME” to our Greene County Fairground & Exposition Center. If this is your first year being with us, relax and enjoy the 2018 Dayton Hamvention®

If this is your second year with us, a warm welcome “home” to share another year of renewing old acquaintances and making new friends.

Many of us were part of the ‘first year introduction’ to the rainy Dayton Hamvention® which seemed to create more mud than dry pavement. Thank you to those who were part of our first year, taking it all in stride, we survived! Right away we began to look for ways to improve our fairgrounds for the 2018 Dayton Hamvention.

Working together as a “team” last year we were able to discover the talents of so many local people, all willing to do their part to make the 2017 Dayton Hamvention something special.

The Greene County Fairground & Exposition Center has received so many calls, perhaps from some of you, expressing your enthusiasm for the 2018 Dayton Hamvention®. We are equally excited that May will not only bring May flowers, but the Dayton Hamvention® as well. (Hopefully the rain will hold off this year until the last week in May).

Thank you for joining us for the 2018 Dayton Hamvention at our beautiful Greene County Fairgrounds & Exposition Center.

Warmly,

*Esther Pierson, Secretary
Greene County Fairgrounds & Exposition Center*

NEW THIS YEAR! SHERIFF’S DEPT. TEXT MESSAGING SYSTEM

For traffic, weather, and other
emergency messages:

Text “Hamvention18” to 888777

ADVERTISING

Hamvention always welcomes new advertisers. If you are interested in advertising with us in future years please contact program@hamvention.org

Mesh Networks
Hosted By **The Miami Valley Mesh Alliance**
And Supported By The **AREDN** Core Technical Team
AMATEUR RADIO EMERGENCY DATA NETWORK

On Air: Channel -2 at 10 MHz SSID: AREDN-10-v3

Forum: Andre Hansen K6AH - Sat 1:30 PM, Room 2

Booth: Building 1, #1001

AREDN Classes At Booth – See Booth for Schedules

- Introduction to Mesh Technology
- Mesh Implementation Techniques
- Network Planning and Link Performance Estimation
- VOIP Applications for Rapid Deployment
- Mesh Network Applications for EmComm
- Network Performance Metrics and Tools
- How to “Un-Brick” a Mesh Node
- WinLink integration with Mesh
- Live streaming video cameras
- Using MeshChat
- How to Setup Node Location Data

www.miamivalleymesh.org

www.aredn.org

The Dayton Convention & Visitors Bureau Welcomes

HAMVENTION

DAYTON  TM

CONVENTION & VISITORS BUREAU

Be sure to enjoy the Greater Dayton area restaurants, attractions, and shops while you're here!

For more information contact us today at
800.221.8235 or daytoncvb.com.



@daytoncvb

#DaytonHamvention #DiscoverDayton



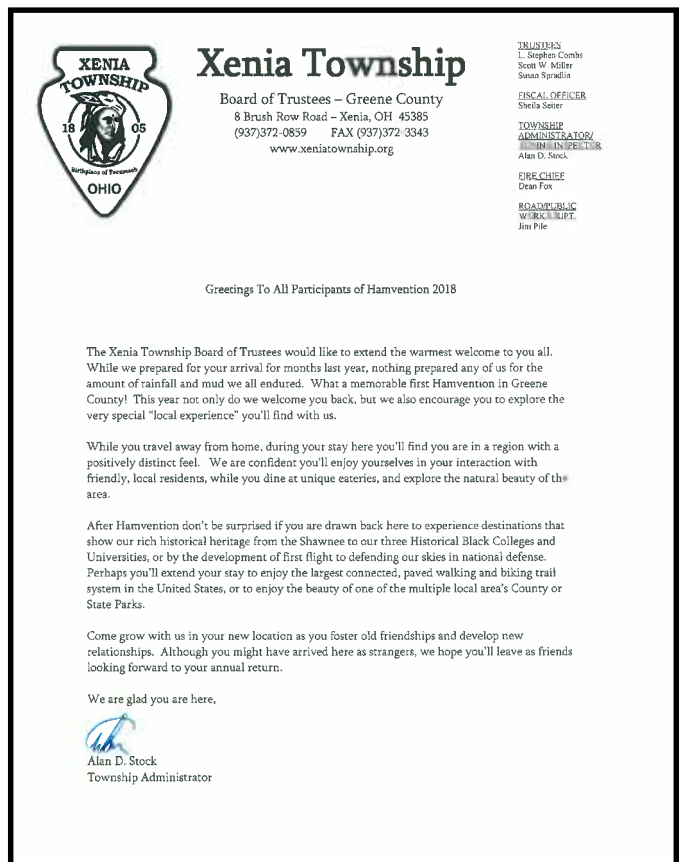
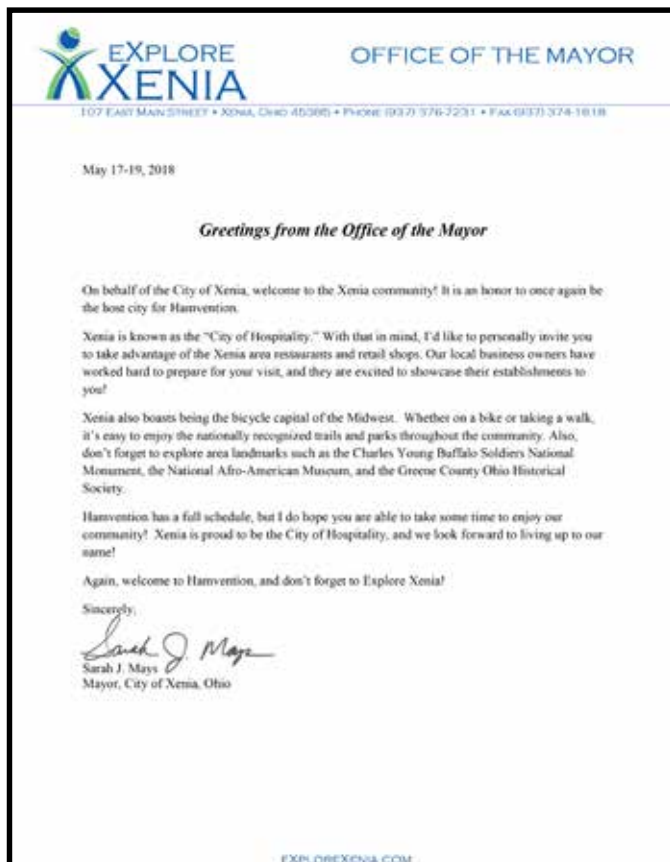
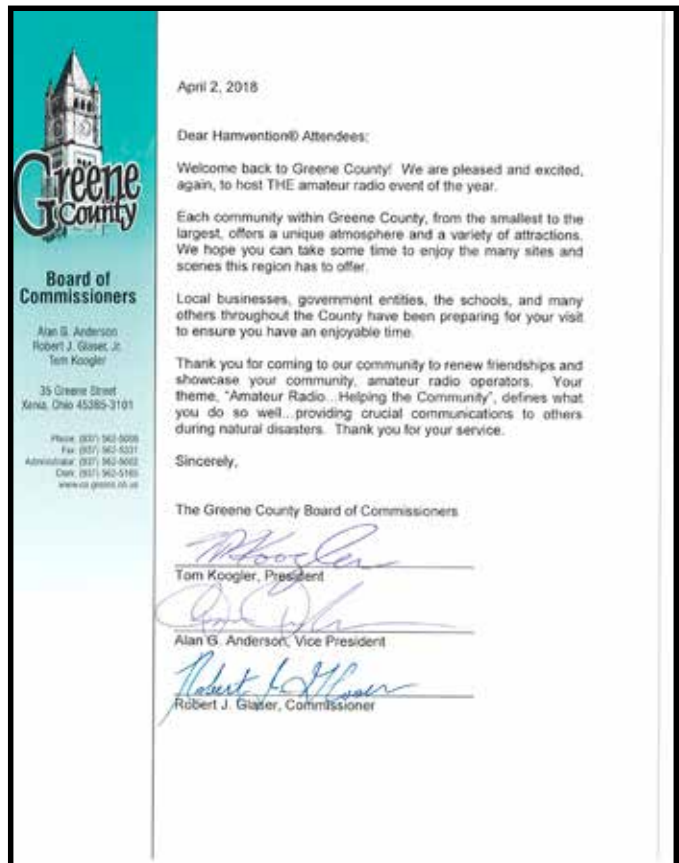
800.221.8235 daytoncvb.com

Remembering Jerry Miller, WD8QAI, SK



Hamvention/DARA lost an astonishing friend and dedicated volunteer this past February. Jerry Miller, WD8QAI has been a prime mover within our club and Hamvention for many years. He was the lead board member spearheading the design and construction of our beautiful club house. Jerry is the long time publisher of the Hamvention program as well as our monthly newsletter. He served many years on the DARA board and successfully chaired other Hamvention and DARA functions. He also chronicled years of club activities by always being there with his camera. Losing Jerry has left a huge void we scramble to fill. He was someone we could count on as a friend and guide; someone who researched outcomes thoroughly. He was a respected man of integrity and vision, job well done, Jerry! The Amateur Radio Community is grateful for your service.
De.. W8CI Michael Kalter

Welcome



Hamvention Represented Around the World

In 2012 the DARA Board wanted to reciprocate the European presence at Dayton Hamvention. Since then we have been sending a team to Friedrichshafen, Germany to set up a booth and work the Ham Radio International event there. We take information about Dayton Hamvention and about DARA. Last year we had 57 countries from all around the globe in attendance at Dayton Hamvention.



Hamvention Represented Around the World



DARA is spreading the word with a booth and a team of our members taking advantage of plenty of international networking opportunities in both Germany at Friedrichschafen's Ham Radio and in Japan at Tokyo's Ham Fair!



Affiliated Events

Multi-Day Events

FDIM (Four Days in May)

May 17-20

Holiday Inn, Fairborn, Ohio

-Thur, May 17 QRP Symposium

-Thur, May 17, 8-10 pm

Vendor Night. Free of charge

-Fri, May 18, 8-10 pm

QRP Club Night. Free of charge.

Homebrew Contest (entries 7-8pm)

Contest Super Suite

Wed, May 15 – Sat, May 19, 7:00 pm – 2 am

Crowne Plaza Dayton, 33 East 5th St, Dayton, OH 45402

2nd floor – Harding, McKinley, Garfield and Harrison rooms

Wednesday, May 16

Contest University registration from 8pm to 10 pm

Pizza party in the Harding Room sponsored by Mad River Radio Club (MRRC), Frankford Radio Club (FRC) and the North Coast Contesters (NCC) 10:30 pm

Thursday, May 17

Pizza and Wing party in the Harding Room sponsored by K3WW, K3LR and The Society of Midwest contesters (SMC) 10:30 pm

Friday, May 18

“Working by Numbers Band” Live in The Presidential Ballroom, 2nd floor of The Crowne Plaza 10:00 pm

Pizza Party in the Harding Room sponsored by The Potomac Valley Radio Club (PVRC) 11:00 pm

Saturday, May 19

Pizza Party in the Harding Room sponsored by The Yankee Clipper Contest Club (YCCC) 11:00 pm

<http://www.contestsupersuite.com>

Winlink RMS eMail Server

The Ohio ARES District 3 Winlink Radio Message Server (RMS) Gateway, W8GCA is available to Hamvention Participants on 445.01 MHz.

Background: Winlink is an amateur radio email service that allows hams to originate and receive global email messages via HF, VHF, and UFH radio stations. Winlink is currently promoted by the ARRL and ARES organizations as a primary EmComm support tool.

Amateur Satellite Demonstrations

Amateur Satellite operation demonstrations will be held every day outside the main Maxim Hall (Building 1 or E1) entrance. AMSAT will be demonstrating actual contacts with the operational amateur satellites. We especially invite youth to make a contact via an amateur satellite. All are invited to observe, participate and ask questions. Satellite pass times will be posted at the AMSAT booth and in the demo area.

Friday Affiliated Events

AMSAT Dinner

The annual AMSAT (Radio Amateur Satellite Corp.) “Dinner at Tickets” party will be held Thursday at 1800 EDT at Tickets Pub & Eatery at 7 W. Main St, Fairborn, OH. Great selection of Greek and American food and great company! No program or speaker, just good conversation. Food can be ordered from the menu, drinks (beer, wine, sodas and iced tea) are available at the bar. Leave room for dessert, there’s an in-house ice cream shop! Come as you are. Bring some friends and have a great time the night before Hamvention.

Contest University

Thu, May 17, 7am – 5pm

Crowne Plaza Dayton, 33 East 5th St., Dayton, OH 45402
Contest University will be held on Thursday May 17, 2018, from 7:00 am to 5:00 pm., at the Crowne Plaza Hotel in Dayton, Ohio. This is the day before Hamvention officially opens. Don’t miss this rare opportunity to gain knowledge from some of the top contesters, knowledge that may take you years of practice, trial and error or lost time to learn otherwise. Get the edge to improve your scores and put your station in the winner’s circle today! Advance registration is needed. <http://contestuniversity.com>

AMSAT/TAPR Banquet

Friday, 18 May 2018, 6:30pm-9pm

The twelfth annual AMSAT/TAPR Banquet will be held at the Kohler Presidential Center on Friday at 1830 EDT. This dinner is always a highlight of the AMSAT (Radio Amateur Satellite Corp.) and TAPR (Tucson Amateur Packet Radio) activities during the



Dayton Hamvention.

We are pleased to announce that Jeri Ellsworth, AI6TK will be our speaker. Jeri will present her innovative ideas and adventures in Amateur Radio. Jeri is an American entrepreneur, self-taught engineer, and an autodidact computer chip designer and inventor.

In 2016, she passed all three amateur radio exams, earned her Amateur Extra license, and received the AI6TK callsign. This has now launched new adventures into Amateur Radio. She has been featured in January 2017 QST and in YouTube videos from Quartzfest earlier this year. Jeri has been given a fairly free hand to speak on whatever topic she wishes (as long as it's amateur radio, somewhat).

Tickets (\$37 each) may be purchased from the AMSAT store. The banquet ticket purchase deadline is Tuesday, May 15th. Banquet tickets must be purchased in advance and will not be sold at the AMSAT booth. There will be no tickets to pick up at the AMSAT booth. Tickets purchased on-line will be maintained on a list with check-in at the door at the banquet center. Seating is limited to the number of meals reserved with the Kohler caterers based on the number of tickets sold by the deadline.

Top Band Dinner – 29th Annual event

Fri, May 18 Presidential Ballroom, 6:00 pm social hour, 7:00 pm dinner

Crowne Plaza Dayton, 33 East 5th St, Dayton, OH 45402

Dinner program by Jerry Rosalius, WB9Z

Limited seating - Reservations in advance only

<http://www.topbanddinner.com>

Collegiate Ham Radio Dinner

Fri, May 18, 6:30pm – 9pm

Cadillac Jacks Sports Bar & Grill, 1156 Kauffman Ave., Fairborn, Ohio 54324 Contact: Magda Moses KM4EGE, on behalf of the Virginia Tech Amateur Radio Assoc. magda14@vt.edu – 571-355-8582

The Collegiate Ham Radio Dinner is a get-together of current and past collegiate ham radio operators, and

anyone who shares an interest in college ham radio clubs and activities. Come meet members and alumni from clubs across the country, share your college ham radio experiences, and discuss the projects and activities you've done! High school students looking at colleges are encouraged to attend as this is an excellent opportunity to get an idea of what a college ham radio club has to offer.

RSVPs are appreciated but not required.

26th Annual Dayton Contest Dinner

Sat, May 19 Presidential Ballroom, 5:30 pm social hour, 6:30 pm dinner

Crowne Plaza Dayton, 33 East 5th St, Dayton, OH 45402

The North Coast Contesters are proud to announce The 26th Annual Dayton Contest Dinner. Master of Ceremonies is John Dorr, K1AR. The 2018 CQ Contest Hall of Fame Inductions will be formally announced by Dave Siddall, K3ZJ. The keynote dinner speaker will be WRTC Chairman, Chris Janssen, DL1MGB. Space is limited, however, you can reserve tables for 10 or 12. Reservations in advance only.

<http://www.contestdinner.com>

ATV Friday Night dinner.

The ATV Friday Night Dinner will be at China Garden Buffet restaurant starting at 6:30PM on 112 Woodman Drive in Dayton, Ohio 45431 (Airway Shopping Center). Buffet Dinner \$11.99 (937-781-9999). We have dinner then presentations about various ATV topics and door prizes concluding about 9:30PM. All are invited.

SWODXA Dinner

Friday, May 18, 6 PM

The Dayton Marriott

1414 S. Patterson Blvd. Dayton, Oh 45409

Cash bar- 5:30-11 pm

info@swodxaevents.org



Affiliated Events

Saturday

Saturday Affiliated Events

Annual CW Pileup Competition

Kansas City DX Club Hospitality Suite
Dayton Crowne Plaza Hotel - Suite 525
Saturday nights beginning at 8pm.

Contest Dinner – 26th Annual event

Sat, May 19 Presidential Ballroom, 5:30 pm social hour, 6:30 pm dinner
Crowne Plaza Dayton, 33 East 5th St, Dayton, OH 45402
<http://www.contestdinner.com>

Competition History and Details:

The Kansas City DX Club has hosted its hospitality suite at the Dayton Crowne Plaza Hotel on Hamvention weekend every year since 1980. That same year, the club introduced its popular CW Pileup Competition, which was an instant hit, and quickly became a “must-do” for contesters and DXers from all over the world.

The format is straightforward. Participants are seated at a table in an adjoining room, and are given a set of headphones and a laptop. They are charged with copying as many calls as possible from a pileup of about 100 calls. The pileup file (created anew each year by Russ, KØVXU) simulates a possible “on the air” experience, with some calls sent once, some twice, at varying speeds and pitches. Some calls are “in the clear”, but many are on top each other. After about five minutes, the test is over, and the current participants are ushered out one door while six more enter from another.

The entries are scored automatically, and the scores are quickly transcribed to a results chart on the wall in the main hospitality suite.

Beginning with the 2011 competition, those visiting the hospitality suite are able to view a live “Morse Race” on the suite’s big-screen TV! The display shows

a live graph of the current participants as they actually copy calls, and the rankings are updated almost instantaneously as well. This exciting new aspect of the contest was created by Chuck, NO5W, whose software engine drives our entire system.

The last test is offered about midnight, and then great prizes, provided by generous donors from the amateur radio equipment industry, are presented to the winners.

If you make it to the Dayton Hamvention, don’t miss this event...Saturday nights beginning at 8:00 p.m. You’ll have a great time, and may take home a great prize!

FREE GIFT

WITH EVERY PURCHASE!



Come visit us at booths 3208-3210
for **amazing** show discounts on products!

RIGBLASTER • RIGRUNNER • EPIC PWRGATE • CLEAR SPEECH® AUDIO
www.westmountainradio.com

Need Dinner? Stop by...



St. Brigid Church Festival

Fri. 6-10 pm, Sat. 4-10 pm, Sun. 12-6 pm
1/2 Mile to the West—Plenty of Parking

FOOD • BEER • GAMING • LIVE ENTERTAINMENT

Not your ordinary festival food! Homemade Filipino, Mexican, Greek, Italian, Greek, and American foods.
Delicious home made desserts.

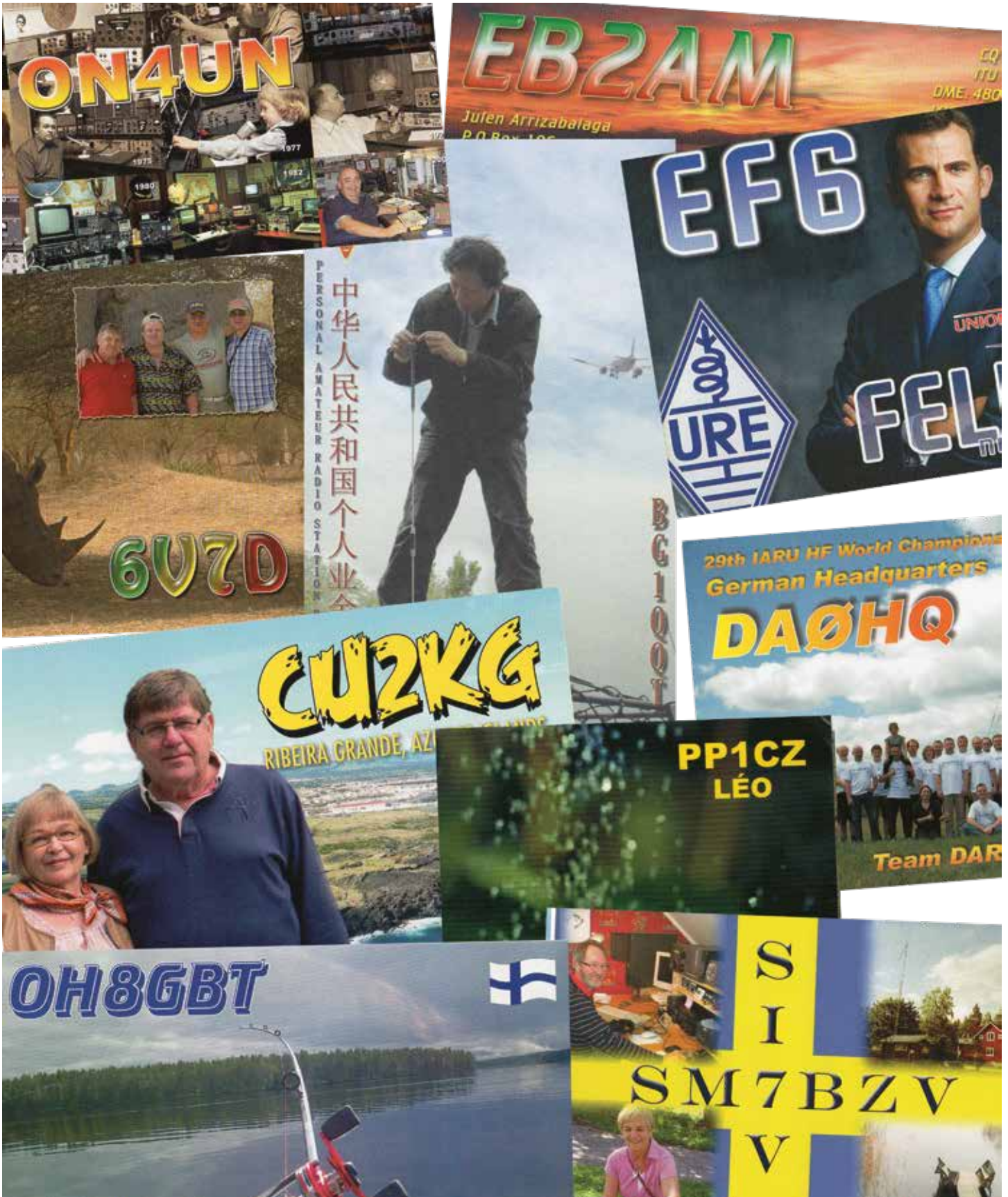
Show this ad for \$3.00 off a \$10.00 food order.
Not good for beer sales.



QSL Cards

Did you make contact with W8BI this year?

At DARA (W8BI) we have members who are passionate about utilizing our fantastic club-house and keeping our station on the air. If you hear us on the air be sure to make contact. You could see your QSL card printed in the program in future years. Here are just a few of the contacts W8BI made over the past 12 months!



2018 Dayton Hamvention Committee



Row 1 (Left to Right): George Ewing WD8NHI, Gary Mullins K8UW, Jim Simpson WB8QZZ, Rob Gauder WD8CXV, Thomas Gross KD8VLS, Hazel Everetts N8PTL, Janey Ruminski KB8PME, Linda Kalter W8AAV, Nancy Krodel KC8RMT, Mike Beuhler N8XGA, Susan Jebens KD8AFP, Melissa Markland KD8LZH

Row 2: Don Parker KB8PSL, Joe Binckly KD8YPY, John Lombardo KD8EMV, William Serrato W8CAN, Jim Storms AB8YK, Bill Serra N8NRT, Jeff Ullery KD8SHF, Dave Forbes KD8FO, Randy Midkiff WB8ART, Jim Frey W8ISZ, Ron Cramer KD8ENJ

Row 3: Larry Sack N8QNM, Terry Scott NV8E, Jon Thuermer KB8SRQ, Bob Baker N8ADO, Steve Coy K8UD, Andrew Anderson N8VES, Jeff Everetts N8IBW, Frank Beafore WS8B, Chris Beafore KD8UYG, James Tiderman N8IDS, Bob Pitsch AC8SL, Keith Yarger KD8UYT

Row 4: Charles Wright K8MDB, Jim Schottinger W8PLZ, Dave Trich N8YFQ, Phil Brown AC8UW, Henry Ruminski W8HJR, Charles Kaiser KD8JZR, Ed Collins N8NUY, Ron Moorefeld W8ILC, Dave Crawford KF4KWW, Brian Markland N8UDDQ

Row 5: Jeff DeVoe K8TTD, Mike Crawford KC8GLE, Mark Tessner KB8ZR, Chris Jebens KZ8XU, Gary Sammons W9SAM, Dan Minnix KD8YNG, Reuben Meeks W8GUC, Michael Kalter W8CI, Stan Leeds KC7EHI, Rick Durrenberg KJ6OOM, Rick Alnutt WS8G, Joe Muchnij N8QOD



2018 Dayton Hamvention Committee

Administration

General Chairman Ron Cramer, KD8ENJ Assistant General Chairman Jack Gerbs WB8SCT

Admin.....	Special Asst.To Gen. Chair.....	Shaw Jim.....	AL7BA
Finance.....	Chair.....	Kalter Michael.....	W8CI
Finance.....	Assistant Chair.....	Beafore Frank.....	WS8B
Incoming Mail.....	Chair.....	Yarger Keith.....	KD8UYT
Information-Phone Line.....	Co-Chair.....	Roberts Lynn.....	N8LXK
Information-Phone Line.....	Co-Chair.....	Roberts Shirley.....	N8LX

COMMITTEES

Booth Tracker.....	Chair.....	Coy Steve.....	K8UD
Committee & Volunteer Services.....	Co-Chair.....	Everetts Hazel.....	N8PTL
Committee & Volunteer Services.....	Co-Chair.....	Everetts Jeff.....	N8IBW
Fairgrounds.....	Liaison.....	Cramer Ron.....	KD8ENJ
Golf Carts.....	Chair.....	Sheline Joe.....	KD8AQH
Golf Carts.....	Assistant Chair.....	Buehler Mike.....	N8XGA
IT Infrastructure.....	Chair.....	Beafore Chris.....	KD8UYG
IT Infrastructure.....	Assistant Chair.....	Ewing George.....	WD8NHI
Visual Information.....	Chair.....	Koogler Steve.....	K8DZ
Visual Information.....	Assistant Chair.....	Forbes Dave.....	KD8FO
Visual Information.....	Assistant Chair.....	Schoettinger Jim.....	W8PLZ
Flea Market.....	Chair.....	Tritch Dave.....	N8YFQ
Flea Market.....	Assistant Chair.....	Coy Steve.....	K8UD
Flea Market.....	FM Assistant Traffic Chair.....	Durrenberg Rick.....	KJ6OOM
Inside Exhibits.....	Chair.....	Markland Brian.....	N8UDQ
Inside Exhibits.....	Assistant Chair.....	Leeds Stan.....	KC7EHJ
Inside Exhibits.....	Inside Liaison.....	Gauder Rob.....	WD8CXV
Inside Exhibits.....	Inside Manager.....	Markland Melissa.....	KD8LZH
Advance Registration.....	Chair.....	Storms Jim.....	AB8YK
Advance Registration.....	Assistant Chair.....	Midkiff Randy.....	WB8ART
Ambassador-at-Large.....	Ambassador at Large.....	Moorefield Ron.....	W8ILC
Ambassador-at-Large.....	Ambassador at Large.....	Collins Ed.....	N8NUY
DARA Membership.....	Chair.....	DeVoe Jeff.....	K8JTD
DARA Membership.....	Assistant Chair.....	Serrato William.....	W8CAN
Information-Booth.....	Chair.....	Thuermer Jon.....	KB8SRQ
Information-Booth.....	Assistant Chair.....	Jebens Susan.....	KD8AFP
Outgoing Mail.....	Chair.....	Kaiser Charles.....	KD8JZR
Outgoing Mail.....	Assistant Chair.....	Frey Jim.....	W8ISZ
Marketing.....	Chair.....	Wright Chuck.....	K8MDB
Media.....	Chair.....	Ruminski Henry.....	W8HJR
Media.....	Assistant Chair.....	Minnix Dan.....	KD8YNG
Media.....	Assistant Chair.....	Ruminski Janey.....	KB8PMF
Programs & Publications.....	Chair.....	Wright Chuck.....	K8MDB
Programs & Publications.....	Assistant Chair.....	Kalter Linda.....	W8AAV
Talk-In.....	Chair.....	Mullins Gary.....	K8UW
Talk-In.....	Assistant Chair.....	Sammons Gary.....	W9SAM
Webmaster.....	Chair.....	Markland Brian.....	N8UDQ
Webmaster.....	Assistant Chair.....	Ruminski Henry.....	W8HJR
ARRL Relations.....	Liaison.....	Tessneer Mark.....	KB8ZR
Live Stream.....	Chair.....	Pitch Bob.....	AC8SL
Live Stream.....	Assistant Chair.....	Simpson Jim.....	WB8QZZ
Awards.....	Co-Chair.....	Beafore Frank.....	WS8B
Awards.....	Co-Chair.....	Kalter Michael.....	W8CI
Balloon Launch.....	Chair.....	Muchnij Joe.....	N8QOD
Forums.....	Chair.....	Scott Terry.....	NV8E
Forums.....	Assistant Chair.....	Meeks Reuben.....	W8GUC
International Relations.....	Chair.....	Allnut Rick.....	WS8G
International Relations.....	Assistant Chair.....	Morton Paul.....	KG8XY
License Exams.....	Chair.....	Jebens Chris.....	KZ8XU
License Exams.....	Assistant Chair.....	Crawford Dave.....	KF4KWW
Open House.....	Chair.....	Lunsford Rob.....	KB8UEY
Prizes.....	Chair.....	Serra Bill.....	N8NRT
Prizes.....	Assistant Chair.....	Nies Jim.....	WX8F
Special Event Station.....	Chair.....	Mathis John.....	WA5FAC
Special Event Station.....	Assistant Chair.....	Lamb Charlie.....	W4KZK
Special Event Station.....	Assistant Chair Local.....	Tiderman Jim.....	N8IDS
Youth Tech.....	Chair.....	Ullery Jeff.....	KD8SHF
Youth Tech.....	School Outreach.....	Hong Jeremy.....	KD8TUO
Communications.....	Chair.....	Crawford Mike.....	KC8GLE
Communications.....	Assistant Chair.....	Baker Bob.....	N8ADO
On-Site Signs and Fences.....	Chair.....	Brown Phil.....	AC8UW
On-Site Signs and Fences.....	Assistant Chair.....	Binkley Joe.....	KD8YPY
On-Site Signs and Fences.....	Assistant Chair.....	Apple Larry.....	N8MYQ
Parking.....	Chair.....	Gross Tom.....	KD8VLS
Security.....	Chair.....	Parker Don.....	KB8PSL
Security.....	Assistant Chair.....	Lombardo John.....	KD8EMV
Off-Site Signing.....	Chair.....	Sack Larry.....	N8QMN

2018 DARA Local Scholarship

In the fall of 2011 the Dayton Amateur Radio Association (DARA) saw a need to help young local radio amateurs attend college. They created a scholarship program for local students and a committee was created to supervise the local scholarship program. Thus far we have awarded 12 scholarships. The \$1500.00 scholarships are to be used for tuition, books or other related expenses. The student is required to be an active DARA member with a minimum of one year membership history and must hold an FCC Amateur Radio License. The scholarship must be used for continuing education in a math or science related field in an accredited two or four year university program.

Future Scholarships

The ARRL Foundation will be announcing the recipients of DARA Scholarships for this year after May 15th.

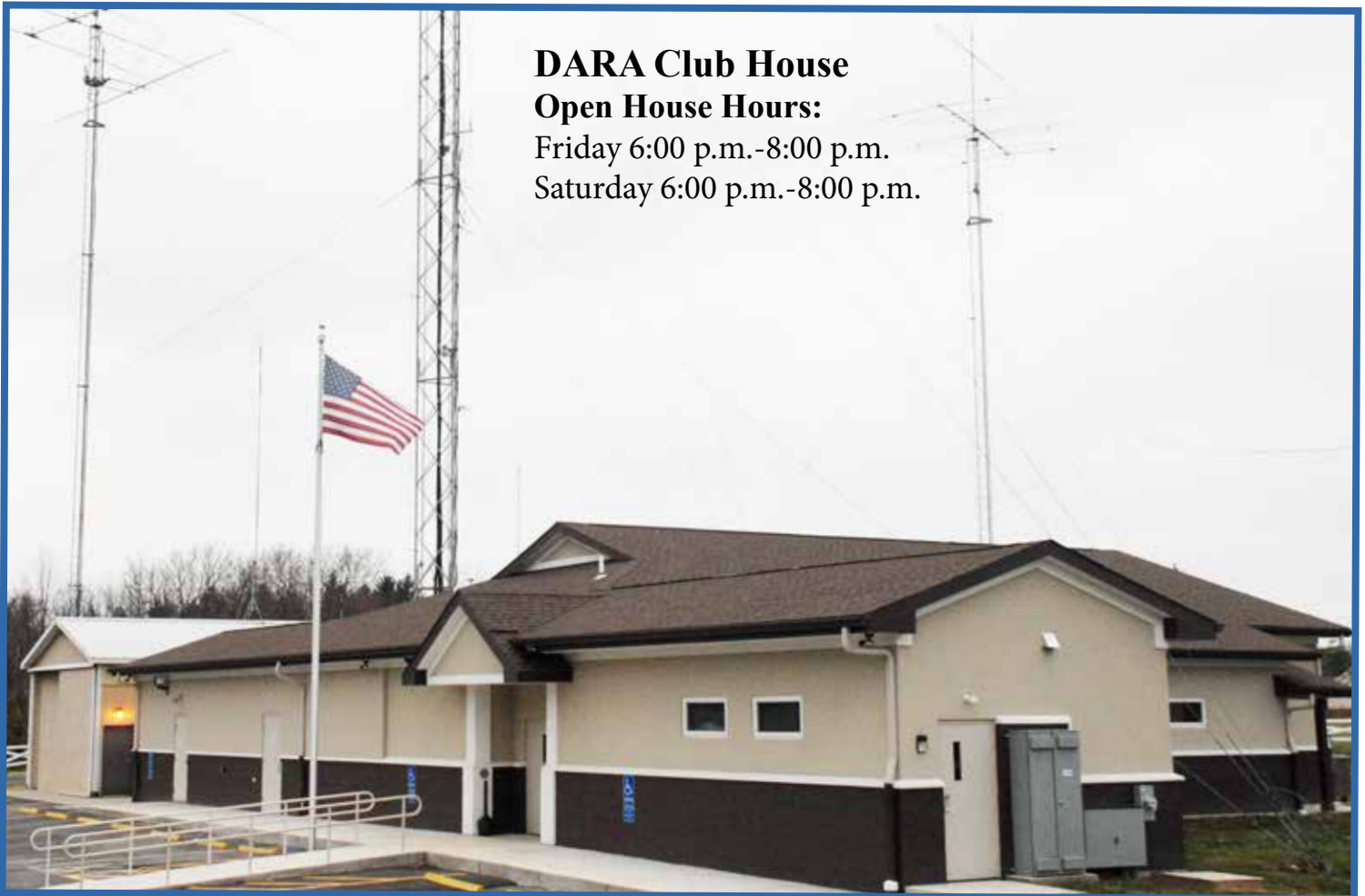
To apply for future DARA Scholarships, each applicant must submit a transcript from their high school or college to complete their application. Applications must be submitted via the ARRL website and transcripts should be sent via e-mail. Applications without transcripts will not be considered. Questions concerning the application process should be directed to foundation@arrl.org. *Applications must be submitted no earlier than October 1st and no later than February 1st along with a current academic transcript. See this year's winners on pages 56 and 57.*

DARA Club House

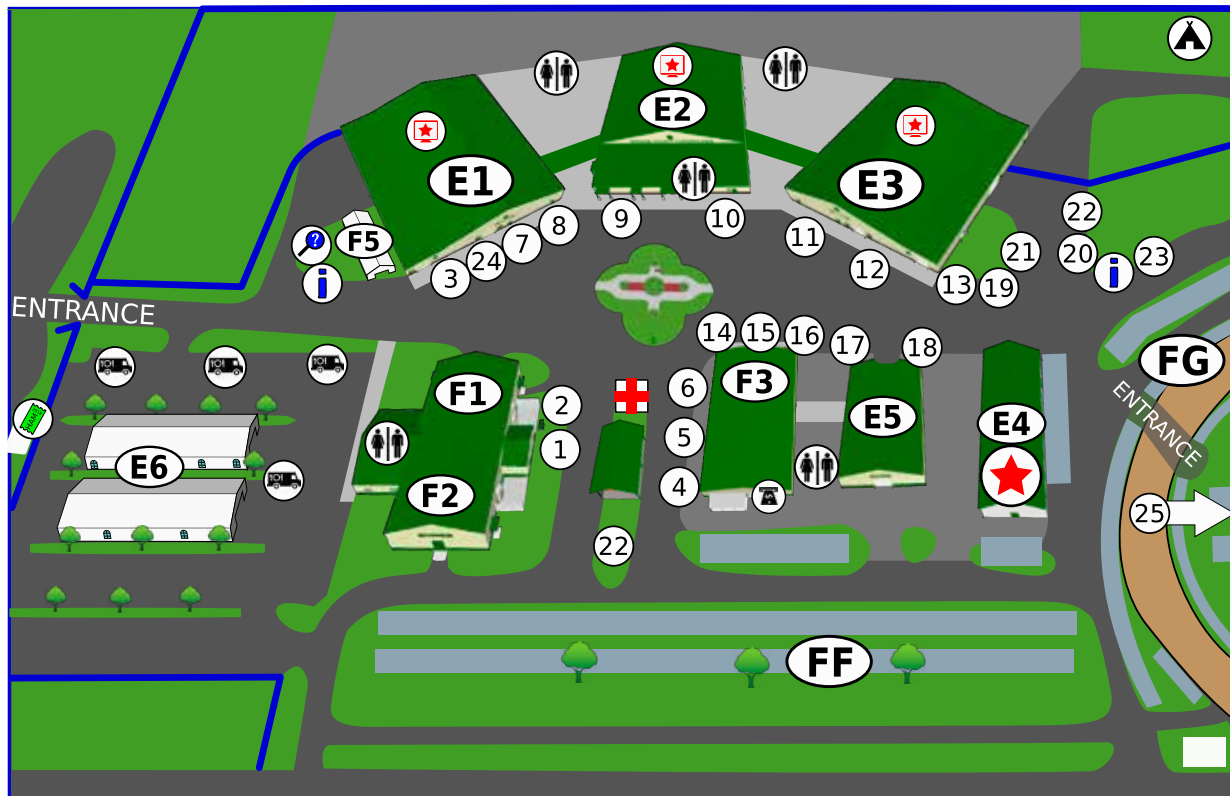
Open House Hours:

Friday 6:00 p.m.-8:00 p.m.

Saturday 6:00 p.m.-8:00 p.m.



Food Vendors



Food Vendors

- | | |
|---------------------------------------|---|
| ① Rader's Ice Cream | ⑭ Jean's Home Cooking |
| ② Louisiana Grill
Bourbon Chicken | ⑮ Kettle Corn &
Cheesecake on a stick |
| ③ The Tin Cup Tea Cart | ⑯ Hamburgers &
Breakfast Sandwiches |
| ④ R + B Food
Breakfast Sandwiches | ⑰ Steak on a Stick |
| ⑤ Hawkins Family BBQ | ⑱ Soft Serve Ice Cream |
| ⑥ Greene Co. Cattlemen | ⑲ Fish Caboose |
| ⑦ Down's Cajun Food | ⑳ Rib-in-it-ribs |
| ⑧ Steak on a Stick | ㉑ Los Marchese's
Mexican Food |
| ⑨ Cork & Bottle
Grilled Pork Chops | ㉒ Beer Tent |
| ⑩ Granny Framers Noodles | ㉓ Mr Mojo coffee |
| ⑪ Pizza | ㉔ Young's Cheese Curds
& Ice Cream |
| ⑫ Sausage | ㉕ Lions Club - water
Flea Market Infield |
| ⑬ Corn Dog, Chicken
& Fries | |



Exhibitors

10-10 International Net, Inc.	3810	Elecraft, Inc.	1707-1711
405 Laserworks LLC.....	1907	Embroidery by Joel.....	6113
ABR Industries.....	3211	ESRC1 Corp.....	1101-1102
Air Chair.....	6501-6502	Expert Linears America, LLC.....	2603-2605
Airspy.US.....	1201-1202	EZNEC Antenna Software.....	3811
Albuquerque DX Association.....	1909	FIRST Robotics.....	4004
ALEXLOOP.....	3109	Fists CW Club.....	6111-6112
Alfa Radio Ltd.....	2106-2206	Flagpoles by Uncommon USA Inc.	3204
Alinco Inc.....	3007-3008	Flexradio Systems.....	2007-2009,2107-2208
Alpha Antenna, Amateur Radio Store.....	3207	Forbidden Knowledge.....	4006
Alpha RF Systems \ Dishtronix \ Ten-Tec.....	1807-1808	Foundation for Amateur Intl Radio Service (FAIRS).....	6412
Amateur Television Network.....	6101-6102	Fox Hill Embroidery.....	6408-6409
Ameritron.....	1706,1806	GAM Electronics.....	6703
AMSAT (Radio Amateur Satellite Corp.)... 1007-1010,1107-1110		GAP Antenna Products, Inc.....	3001
Apache Labs - Gigaparts.....	3708-3709	Gemmagic.....	6801-6802
AREDN / Miami Valley Mesh Alliance.....	1001	Gifts 4 HAMS / Kelly Laser Works.....	1205-1206
Arlan Communications.....	4107-4108	Gold Medal Ideas.....	3609-3611
ARRL, The National Association for Amateur Radio.....		Grace Technology.....	4209
2001-2004-2401-2404		Great Lakes HamCon.....	6612
Arrow Antenna.....	1106	Great Scott Gadgets.....	5008
Aventrade.....	3006	Green Heron Engineering.....	3103-3203
Bad Dog Tools.....	6513-6514	Greene County Conv. & Visitors Bur.....	6613
Batteries America.....	3808-3809	Ham Nation.....	5305
Begali Keys.....	2307-2308,2407-2408	Ham Radio 2.0 - Yasme Foundation.....	4301-4303
BHI Ltd.....	1911	Ham Radio Deluxe.....	5007
Bird.....	4311-4312	Ham Radio Outlet.....	2506-2507,3307-3311
Brian Klein Enterprises.....	6107-6108	Ham Radio Workbench.....	3104
BRIDGECOM SYSTEMS, INC.....	1103-1104	HamCation Orlando.....	4109
Buckmaster Publishing.....	5106	HamSCI.....	4304
Buddipole.....	3003-3005	Hamsource.....	3903-3906
Cable X-Perts Inc.....	4111	HamStudy.org.....	1901-1902
Capitol Electronics, Inc.....	1005	Hamvention Prize Booth.....	4500
CG Antenna.....	6611	Heil Sound Ltd.....	5301-5304
Christian Amateur Radio Fellowship.....	6311	Heritech Larm Partner AB.....	5104
Civil Air Patrol.....	6304	Hilberling USA.....	3901-3902
Collins Collectors Association.....	1003-1004	HobbyPCB.....	1912
Comet Antenna / Daiwa Meters.....	3304-3306	Huntsville Hamfest.....	4110
Connect Systems Inc.....	6309	Hustler / New-Tronics.....	1505-1506
Courage Kenny Handiham Program.....	6602	Hy-Gain.....	1903-1904
CQ Communications, Inc.....	4307	Hytech Marketing.....	6804-6805
Cushcraft Amateur Radio Antennas.....	1905-1906	ICOM America.....	2508-2509,2608-2610
CW Operator`s Club.....	6610	Information Radio 1660.....	4005
DARA - International Relations.....	2601	Information Station Specialists.....	6503
DARA Special Event Station.....	2706-2707	Infratech.....	6104
DARA Membership.....	4007-4008	iPortable.....	5205
DARC.....	2503	Japan Amateur Radio League, Inc.....	2502
Davis Instruments.....	6713-6714	Jericho Prints.....	6205
Dayton Convention & Visitors Bureau.....	4306	JJ Surplus.....	6707
Dayton Skywarn.....	4308	JK Antennas.....	3101-3301,3102-3302
Debco Electronics.....	1301-1302,1401-1402	JT Communications.....	3703
Diamond Antenna.....	3401-3406	JVC Kenwood.....	1407-1411,1507-1511
Digilent.....	3002	K2BSA - ARA & Radio Scouting.....	2205
Dungeon Studios Prototyping.....	6109	K4USD Network Club.....	6803
DX Engineering.....	1207-1210,1307-1311	KB3IFH QSL Cards.....	6305
Ears To Our World.....	6509	L.I.E. Gifts.....	6704
EB104.RU.....	6702	LATSYS GmbH.....	6403
ELAD USA INC.....	3010-3012	LeafFilter North, LLC.....	6512

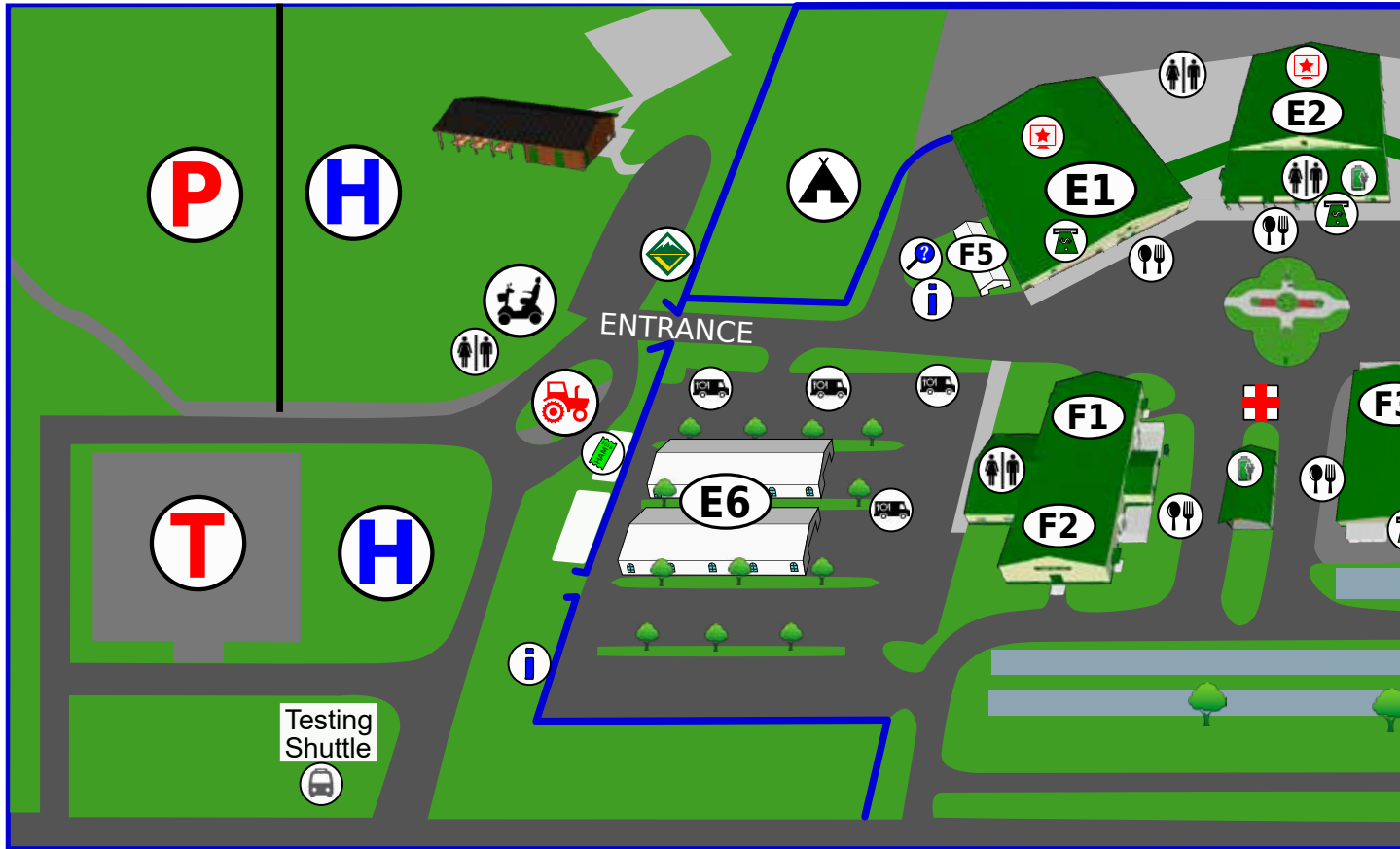


Exhibitors

Libre Space Foundation.....	1006	RadioWavz	2606-2607
Lido Mounts	4106-4206	Rescue Tape	6407
Linux in the Ham Shack.....	5004	RF-Kit.de.....	3710
LnR Precision, Inc.....	6813-6814	RFinder, LLC	4011
Loop Antenna by I3VHF	3009	Rig Expert	5105
LowBandSystems	1809	Rohn Products, LLC	1701-1702
LUSO Super-Techno.....	3105-3106,3205-3206	RT Systems.....	3805-3806
M&P Coaxial Cables	1606	SATERN	6212-6213
M2 Antenna Systems, Inc.	3107	Scanner Master Corp.....	3303
Maker Faire Dayton	6406	Seeed Technology Co., Ltd.....	6711-6712
MARCO-Medical Amateur Radio Council	6310	Siglent Technologies USA, Inc	5207-5208
MARS, Combined MARS.....	6302-6303	Sign Man of Baton Rouge	3701-3702
Mastrant - Gigaparts.....	3607-3608	Sign Man of Ohio.....	6114
Mendelson's.....	2701-2704	Sinbad Glue.....	5308
MFJ Enterprises Inc.....	1603-1605,1803-1805	SKCC Straight Key Century Club.....	4112
MicroLog by WA0H	5206	Skeddr.....	6511
Midwest VHF/UHF Society	6708	Society of Amateur Radio Astronomers / Radio JOVE4207-4208	
Millner-Haufen Tool Company	6705	SSB Electronic USA	6103
Mini-Circuits.....	3803	SSS Solution	1810
Mobile Amateur Radio Awards Club (MARAC).....	6608	SteppIR Antennas Systems	1501-1502,1601-1602
Momobeam.....	1801-1802	SuperApex Corporation.....	6411
Mr Gadgets	6810-6812	Suspender Man.....	6312-6314
N3ZN Keys, LLC.....	1203-1204	SwapMyRigs.com	6405
National Federation of the Blind & The Unseen Bean.....	2602	TAPR (Tucson Amateur Packet Radio)	5009-5011
National Voice of America Museum of Broadcasting.....	1910	Tarheel Antennas Inc.....	3704-3706
National Weather Service.....	4308	Tech Exchange LLC	6209-6210
Newark	6506-6508	TeleUP Inc.....	6410
NSIRadio.com	4211-4212	Tequipment.net	2801-2803
Nu-View 2	3804	The American Legion National Headquarters.....	6609
Nuts & Volts / Servo Magazine	5003	The Competition	6710
NVIS Communications / Barrett Communications	6402	The R.F. Connection	5109-5110,5209-5210
NW Digital Radio	1105	The Whistler Group.....	1503-1504
Ohio Responds Emergency Volunteer Registry.....	6404	The Wireman	3908-3911
Old Old Timers Club.....	6603	Timewave Technology, Inc.	5006
OM International Sideband Society	6510	Tower Electronics.....	3501-3502,3601-3602
Open Research Institute.....	6203	Transel Corporation	3801-3802
Orison Corporation.....	6214	Universal Radio, Inc.	2005-2006
Palstar Inc.....	5102-5103	US Postal Service / Dayton Stamp Club	6413-6414
PCnStuff, LLC.....	6105	US Tower Corp.....	3110-3111
Peet Bros. Company, Inc.	5202-5204	Venture Crew 73.....	4010
Portable Rotation	3108	Vibroplex.....	1607-1609
Pro Audio Engineering	1610	W2IHY Technologies	5001-5002
QRP - ARCI.....	5107-5108	W5KUB	2804-2805
QRP Labs.....	6614	W5YI Group-Gordon West Radio School.....	2306-2406
QRP Works	1611	WA8JBT.....	6607
QSK, LLC	4210	Webster Communications Inc.....	6807-3809
QSO Radio Show	4313	West Mountain Radio.....	3208-3210
Quarter Century Wireless Association, Inc.....	6401	Western Case Company	6202
Quicksilver Radio Products.....	3503-3506,3603-3606	Wild Sage Native American Jewelry.....	4310
R & L Electronics	1303-1306,1403-1406	Wired Communications	5309-5311
R.A.I.N. Report / Gateway 160M Radio Newsletter.....	6204	Wireless Holdings	6211
R.W. Antennastore.....	6207-6208,6307-6308	Wolf River Coils LLC.....	1002
Rabbit Laser USA.....	4012-4013	WRTC 2018 e.V.....	2105
Radio Amateur Callbook (ITFM).....	6709	Yaesu USA.....	3407-3411,3507-3511
Radio Amateurs of Canada.....	2504	YLRL.....	2505
Radio Club of America.....	1811	Youth DX Adventure	2602
Radio Society of Great Britain.....	2305-2405	Youth Tech - DARA	4001



Overview Map of Grounds



Gate 4
Guest Parking
Tour Bus

Gate 3
ADA Parking
Volunteer Parking

Gate 2
Package Pickup
Reserved Parking

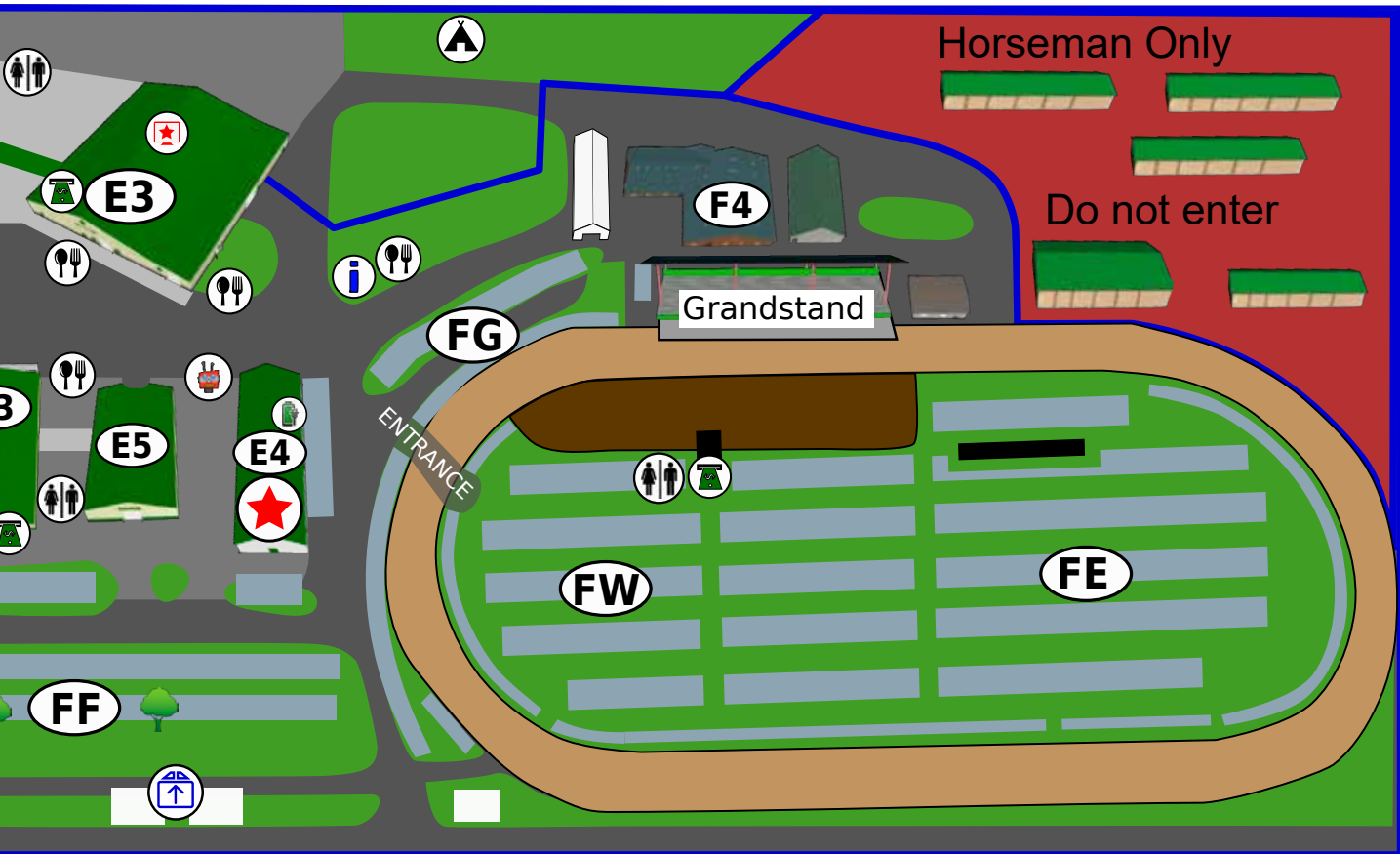
Parking

- Shuttle
- General
- Handicap
- Taxi / Tour Bus
- Scootaround
- Testing Shuttle

General Info

- Prize Booth
- Prize Monitor
- Info Booth
- Lost & Found
- Restrooms
- First Aid
- Robot Arena
- Charging
- Tickets
- Food Vendor
- Camping
- ATM
- EmComm Vehicles
- Venture Crew 73
- Package Pickup

Overview Map of Grounds



Gate 1
EXIT ONLY

Inside Exhibits

- (E1)** Maxim - 1000's
- (E2)** Tesla - 2000's
- (E3)** Marconi - 3000's
- (E4)** Volta - 4000's
- (E5)** Hertz - 5000's
- (E6)** Watt - 6000's

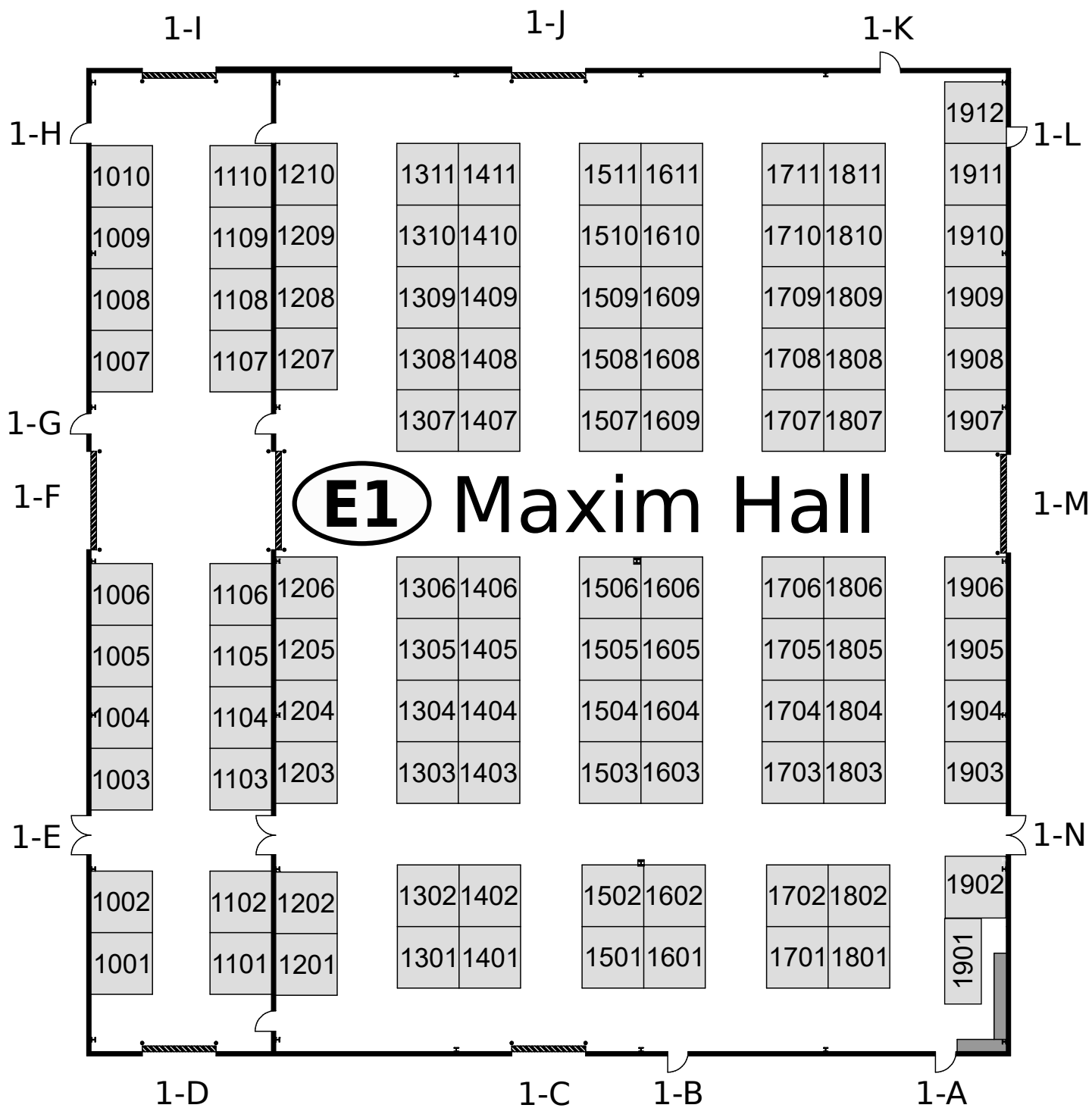
Flea Market

- (FF)** Front Lot
- (FW)** West Infield
- (FE)** East Infield
- (FG)** Grandstand

Forums

- (F1)** Forum 1
- (F2)** Forum 2
- (F3)** Forum 3
- (F4)** Forum 4
- (F5)** Forum 5

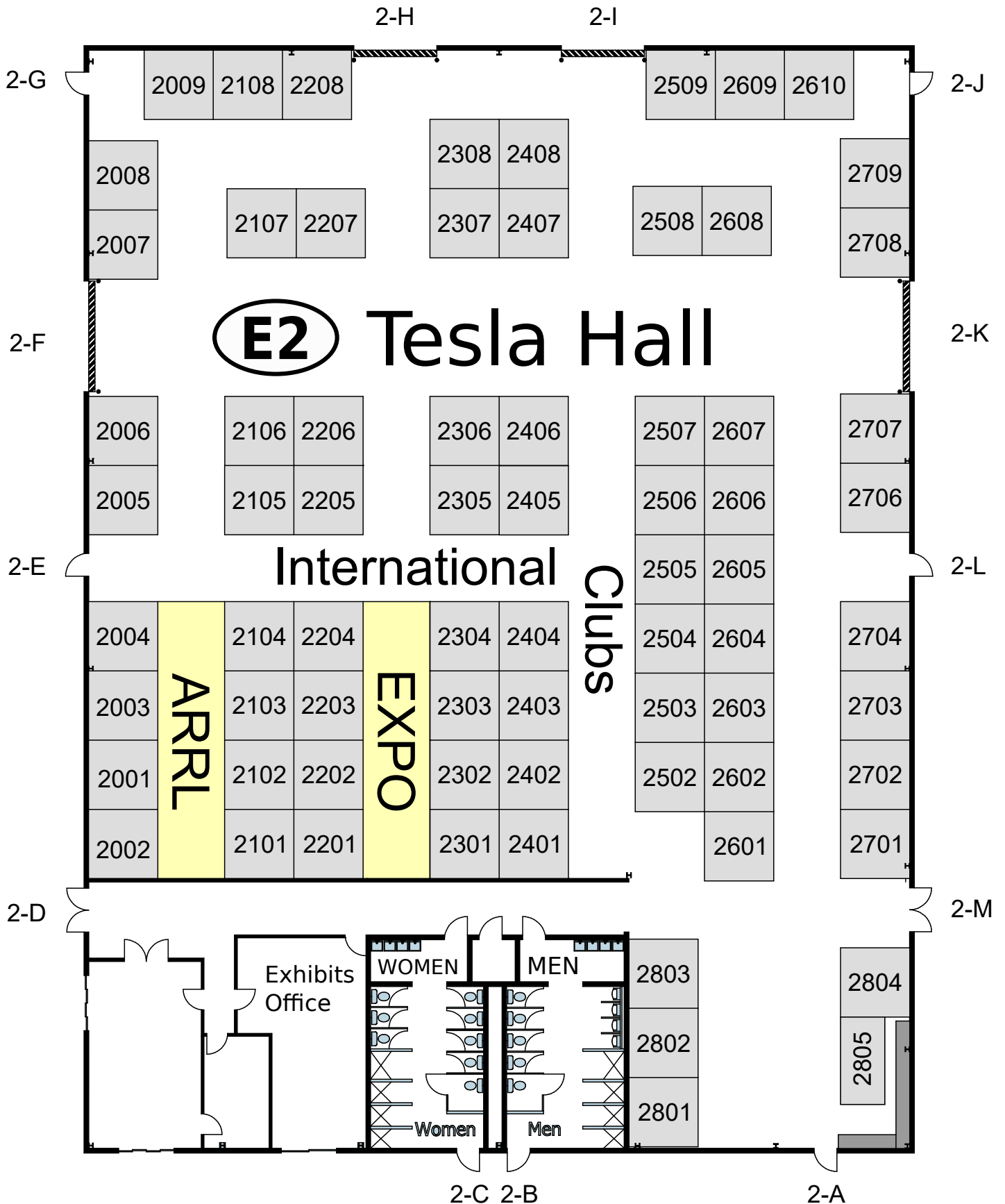
Inside Exhibits Map



Maps



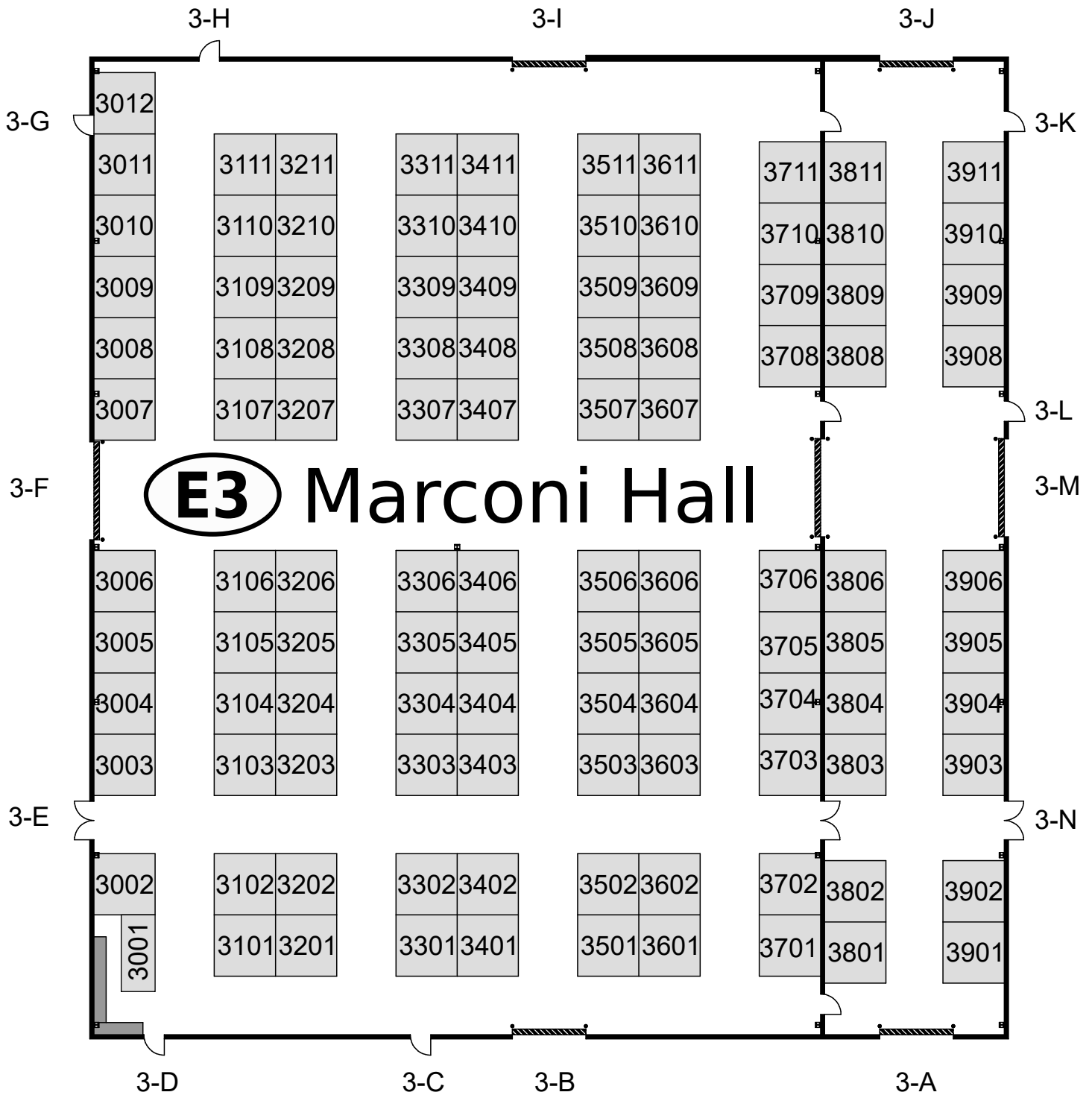
Inside Exhibits Map



Maps



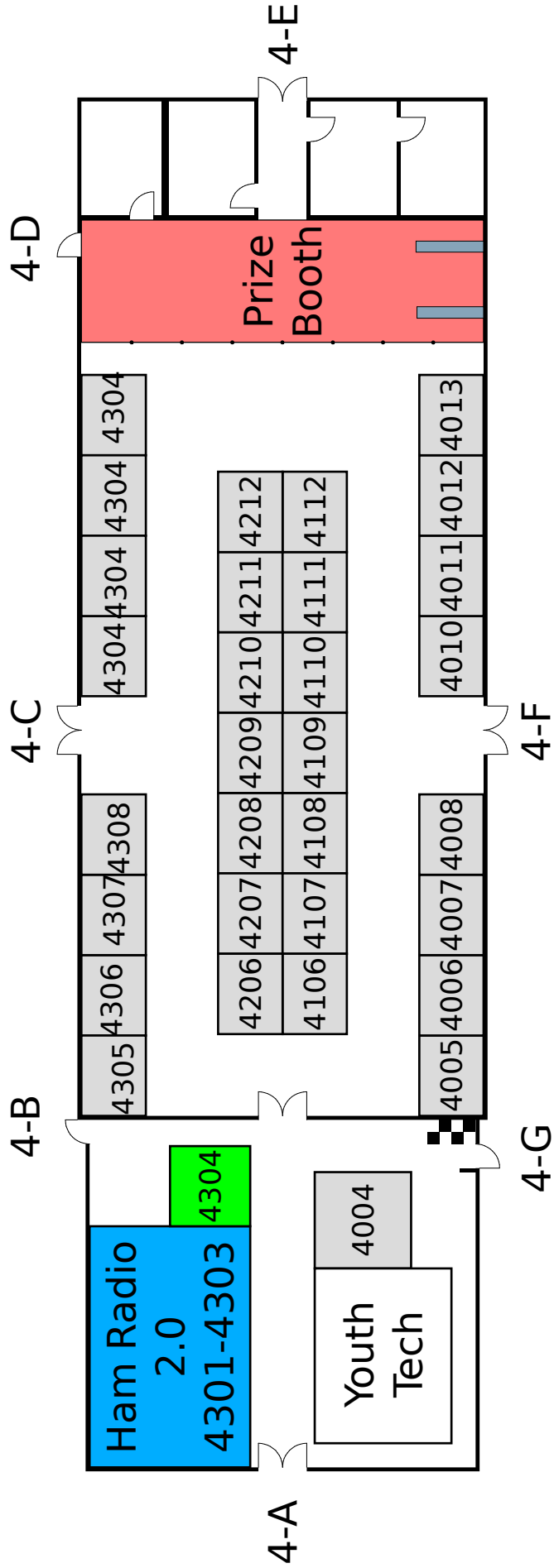
Inside Exhibits Map



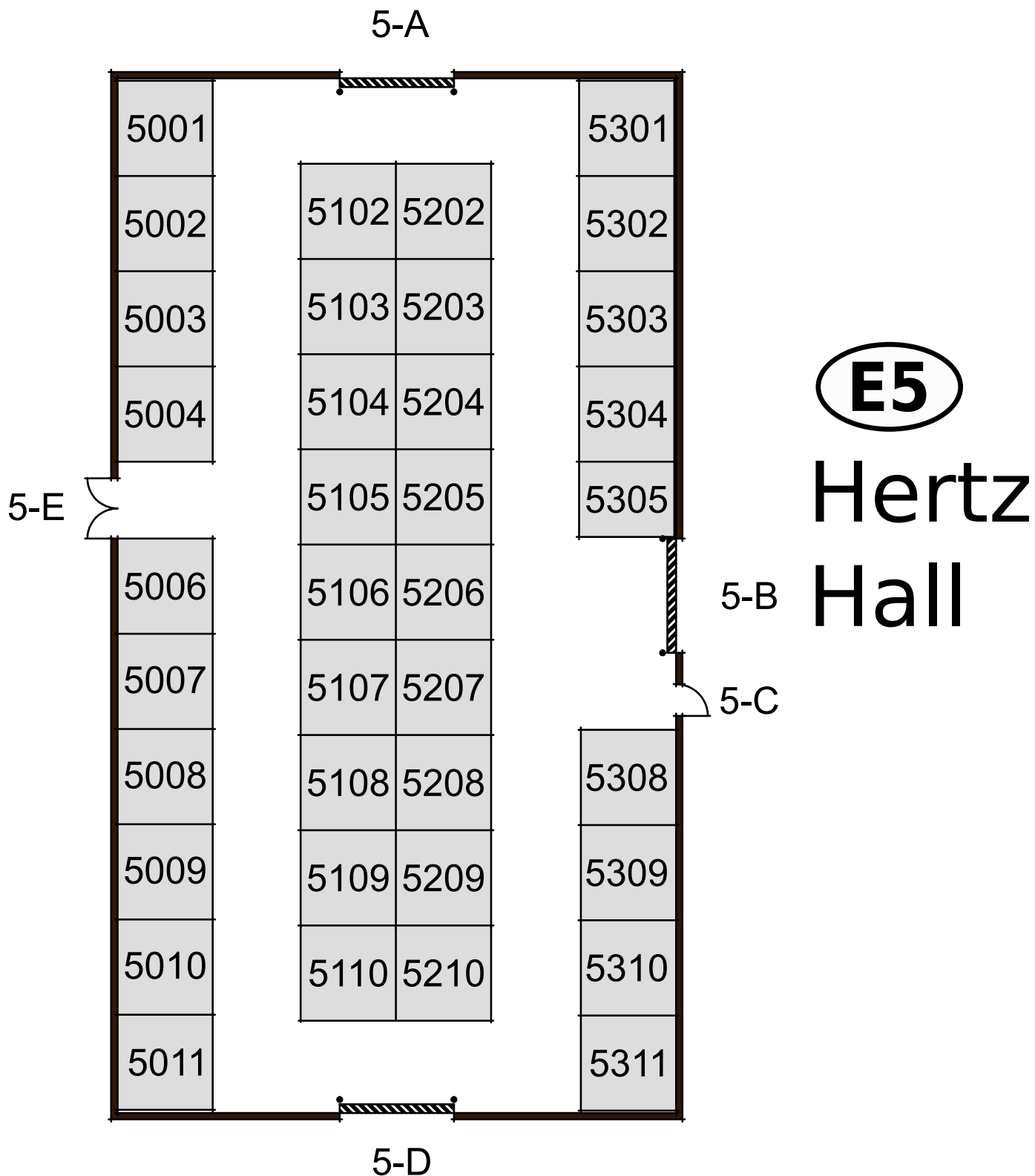
Maps



E4 Volta Hall

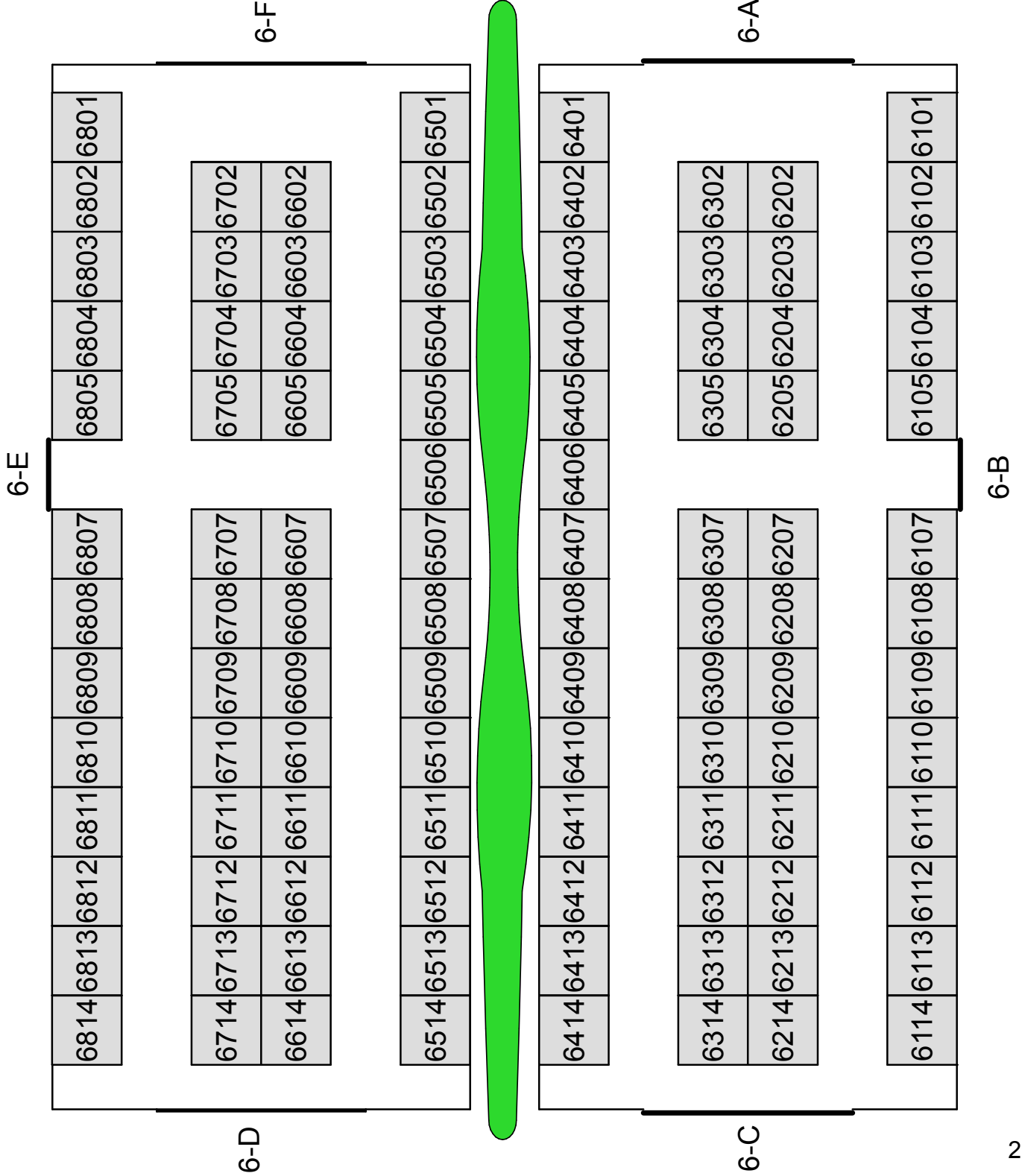


Inside Exhibits Map



E6

Watt Hall





ARRL EXPO 2018

Hamvention® – May 18-20, 2018

ARRL Exhibit & Activities Guide

ARRL EXPO – Welcome!

ARRL, the national association for Amateur Radio®, welcomes all members and friends to Hamvention®, the 2018 ARRL Great Lakes Division Convention. Use this handy guide to find ARRL-sponsored activities, exhibits and program representatives. ARRL EXPO is a large exhibit area located in "Tesla" Building 2.

Rick Roderick, K5UR – ARRL President
Dale Williams, WA8EFK – Great Lakes Division Director
Thomas Delaney, W8WTD – Vice Director
Scott Yonally, N8SY – Ohio Section Manager

Special Guests

ARRL welcomes these volunteers to Hamvention, recognized for their leadership throughout the response by Amateur Radio operators to the devastating 2017 hurricanes in Caribbean.

Andy Anderson, KP4AAN – ARRL and American Red Cross volunteer
Valerie Hotzfeld, NV9L – ARRL and American Red Cross volunteer
Oscar Resto, KP4RF – ARRL Section Manager, Puerto Rico
Fred Kleber, K9VV – ARRL Section Manager, US Virgin Islands



Gary Sessums, KC5QCN (left), Mike Corey, K11U (center), and Valerie Hotzfeld, NV9L (right), delivering supplies following the 2017 hurricanes. [Oscar Resto, KP4RF, photo]

ARRL Store

Visit the HUGE ARRL bookstore to join, renew or extend your ARRL membership, and get the latest publications, supplies, and official ARRL merchandise.

- FREE Gift when you join, renew, or extend your ARRL membership at the show.
- FREE Gift for **ARRL Life Members** when you stop by the ARRL Store.
- FREE ARRL EXPO 2018 Button!

2018 ARRL Field Day and International Grid Chase –

Get in the chase! This year, many groups and participants may choose to combine 2018 Field Day with ARRL's yearlong operating event, the International Grid Chase (IGC) – working stations in as many grid squares as possible and uploading log data to ARRL's Logbook of The World (LoTW). **ARRL Field Day is June 23-24, 2018.** Gear up for these popular on-air events with official shirts, pins, hats, and more!



Meet the Authors – Meet ARRL authors and editors who are inspiring today's radio experimenters, operators and innovators. (see schedule in the ARRL exhibit area)

ARRL Exhibits...

- **ARRL Public Service** – featuring ARRL Ham Aid.
- **ARRL Collegiate Amateur Radio Initiative.** We Want U to help advance ham radio among college and university students.
- **Learning!...with ARRL.** Meet ARRL Education & Technology Program Instructors and explore the resources available for introducing radio science and wireless technology to everyone! Find ways to **make, discover, experiment, explore, and build.**
- **Radiosport and DXCC.** DXCC Card Checking; ARRL Contests and Awards; The ARRL Logbook of the World (LoTW); QSL Bureau; and featuring the **2018 ARRL International Grid Chase.**
- **ARRL Development and ARRL Foundation**
- **ARRL Field Organization Volunteers** – Visit this gathering area for ARRL Field Organization networking, hosted by the ARRL Ohio Section.
- **ARRL Visa® Card** – U.S. Bank
- **The International Amateur Radio Union (IARU)** – Meet representatives from the IARU.

Training Track: Public Service Communications

(Room 3; see forum schedule)

The theme for this year's Hamvention is "Amateur Radio...Serving the Community." Attend three or more of the ARRL-sponsored Public Service Communications forums, and earn an ARRL certificate in recognition of your commitment to ham radio public service training and development.



Friday May 18, 2018

- #1: Getting Started in Public Service Communications
- #2: Building Partnerships

Saturday May 19, 2018

- #3: Panel Discussion
- #4: Stories from the 2017 Hurricanes

ARRL Stage: Spotlight on Public Service Communications

Drop-in to enjoy short public-service-themed presentations throughout the convention. The nearby Public Service exhibit will include a display of ARRL Ham Aid equipment, which received much attention and significant donor support following last year's hurricanes. (see schedule posted near the ARRL Stage in the ARRL exhibit area)

Presentation: The 2018 ARRL International Humanitarian Award

Saturday May 19 – 1:30 PM (Room 3)

The ARRL Board of Directors has conferred the 2018 International Humanitarian Award jointly on the radio amateurs of Puerto Rico and the US Virgin Islands, for the efforts made by many hams who aided in relief and recovery after a punishing 2017 hurricane season in the Caribbean.

ARRL-sponsored Forums (see forum schedule)

Friday May 18, 2018

- ARRL International Grid Chase 2018 -- Get in the Chase!

Saturday May 19, 2018

- ARRL Member Forum
- ARRL Collegiate Amateur Radio Initiative

Sunday May 20, 2018

- Reaching the Public with Ham Radio



ARRL staff members Eric Casey and Amanda Grimaldi, N1NHL, assemble Ham Aid kits for Puerto Rico. [Michelle Patnode photo]

Meet these ARRL Headquarters Staff

- Bob Allison, WB1GCM
- Ken Bailey, K1FUG
- Marjorie Bourgoin, KB1DCO
- Lauren Clarke, KB1YDD
- Michael Corey, K1IU
- Jackie Ferreira, KB1PWB
- Steve Ford, WB8IMY
- Regina Galuppi, W3DGI
- Dan Henderson, N1ND
- Bob Inderbitzen, NQ1R
- Dave Isgur, KC1JMX
- Sabrina Jackson, KC1JMW
- Bart Jahnke, W9JJ
- Kim McNeill, KB1WUX
- Diane Middleton, W2DLM
- Michelle Patnode
- Michael Scharr
- Barry Shelley, N1VXY
- Yvette Vinci, KC1AIM

Collegiate Amateur Radio Initiative

- Andy Milluzzi, KK4LWR
- Tony Milluzzi, KD8RTT

Education & Technology Program Instructors

- Tommy Gober, N5DUX
- Matt Severin, N8MS

THANK YOU!

ARRL expresses its gratitude to the 2018 Hamvention® Committee, Dayton Amateur Radio Association, and all the volunteers who contributed to the success of ARRL EXPO 2018 in Xenia, Ohio.



ARRL The national association for AMATEUR RADIO®

Major Prize Donor List for 2018

Alfa Radio

American Radio Relay League

Belden Wire

Capitol Electronics

DX Engineering

Ham Radio Deluxe

Icom

Kenwood

RFinders

RT Systems

SteppIR Antenna Systems

Universal Radio

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The Major Prize Donor list recognizes donors whose aggregate donations exceeded \$600. We thank them for their generosity!

2018 Dayton Hamvention Major Prizes

- Alfa Antenna Rotor
- ARRL Gift Certificates
- Belden Wire Gift Certificates
- DX Engineering HF-9V
- DX Engineering TW-5
- HRD Software Suites
- IC-7610
- IC-7300
- ID-51A
- ID-5100A Deluxe
- ID-4100A
- ID-2730A
- IC-2300H
- Kenwood Radios
- K1DU Radio and subscription from RFinders
- RT Systems Gift Certificates
- SteppIR Antenna
- Universal Radio Assorted Prizes
- FT-991A
- FT-891
- FT-400XDR Three Radios
- FT-70DR Six Radios



Prize Donor List 2018

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ALFA Radio	M2 Antenna Systems
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AMSAT	Nuts & Volts / Servo Magazines
Array Solutions	Palstar
ARISS -Amateur Radio on International Space Station	RadioWavz
Arrow Antenna	RT Systems
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CQ Communications, Inc.	RF Connection
DX Engineering	The Wireman
EasyWay Hambooks	Universal Radio
EZ-NEC Software	WB0W
Foundation for Amateur Radio	Webster Communications, Inc.
ICOM	West Mountain Radio
JT Communications, Inc.	Yaesu



Friday, May 18th

9:15-10:30

Room 1 TAPR Forum

Moderator: Scotty Cowling, WA2DFI

Scotty was first licensed in 1967 and has been continuously active since that time. He is active while mobile on HF CW and on APRS. Scotty is an advisor for Explorer Post 599, a BSA affiliated ham club for teens in the Phoenix area.

9:15 – 9:25AM Introduction by Steve Bible, N7HPR, TAPR President

9:25 – 9:30AM Write for QST/QEX by Steve Ford, WB8IMY QST Editor

9:30 – 9:55AM “SDR vs Legacy Radio” by Adam Farson, VA7OJ/AB4OJ

9:55 – 10:20AM “Collecting Solar Eclipse Data using SDR, plus a Low Noise VHF/UHF Synthesizer” by John Ackerman, N8UR

Abstract: Using an SDR to collect data during the “Great American Eclipse” on August 21, 2017, and a Versatile Low-Noise VHF/UHF Synthesizer.

10:20 – 10:30AM “What is HamSCI?” by Nathaniel Frissell, W2NAF

Bio: Nathaniel Frissell, W2NAF, is a research professor with the New Jersey Institute of Technology Center for Solar-Terrestrial Research. Nathaniel’s interest in ionospheric science began in middle school when he was introduced to amateur radio through scouting.

9:15-10:15

Room 2 Remote Access to your Amateur Radio Station

Moderator: Mark Aaker K6UFO

Speaker: Ria Jairam N2RJ, FlexRadio Systems Community Elmer.

Remote access makes your station more useful and enjoyable. Let’s get you online quicker, and avoid the common problems, with an overview of remote access methods being successfully used today. We’ll also feature a remote operator speaking about the new SmartLink remote access software released from FlexRadio Systems and shipped with their SmartSDR 2.0 software. And yes, we’ll save time for your Questions and Answers! Extra Class license and the General Radiotelephone Operator’s License. His on-the-air interests include emergency communications, contesting, and digital modes. He is the author of the National Interoperability Field Operations Guide (NIFOG), which is widely used by public safety and emergency communications professionals across the country.”

9:15-10:30

Room 3 ARRL Public Service Communications

Presenter: Ken Bailey, K1FUG, ARRL Emergency Preparedness Assistant and Continuing Education Program Administrator Amateur Radio operators have a history of helping their communities by providing radio communications in good times and in bad. You need to prepare yourself. Preparedness is about training so you will be ready when called upon. Being ready is about believing it can happen and taking steps needed to act properly when things go bad. This forum is for the newly licensed ham, and for those new to public service and emergency communications who want to learn how to do more for their community. Sponsored by ARRL, the national association for Amateur Radio.

9:15-10:15

Room 4 SHARES HF EMCOMM

Moderator Ross Merlin WA2WDT



SHARES (SHARed RESources) is a Federal government HF radio program for backup communications and interoperability among Federal agencies and Federally-affiliated entities that have a need to send or receive national security or emergency preparedness communications such as state agencies, county emergency management agencies, and critical infrastructure / key resources providers (telecommunications, energy, healthcare, transportation etc.). This session will include both an introduction to SHARES for potential users and an open forum for audience members to discuss program issues with the SHARES Program Office staff.

Ross Merlin, WA2WDT, is the SHARES Program Manager. He holds an Amateur Extra Class license and the General Radiotelephone Operator's License. His on-the-air interests include emergency communications, contesting, and digital modes. He is the author of the National Interoperability Field Operations Guide (NIFOG), which is widely used by public safety and emergency communications professionals across the country.

9:15-10:30

Room 5

Parks On The Air

Moderators: W8TAM Thomas Martin & K8VOX Julie Martin

Like many, Thomas and Julie began their love affair with portable operating with the National Parks on the Air program. To date, they have activated over 100 parks in nearly a dozen states.

Why Parks On The Air?

How to be a conscientious participant.

Gear, techniques, planning, and execution.

Friends and pileups await you on the bands. Join in the fun!

10:45-11:45

Room 1

APRS Forum

APRS continues to expand into more areas. Bob Bruninga, WB4APR will give an update on the state of APRS and the opportunities for APRS via the several Amateur Satellites in orbit and in work. Don Arnold, W6GPS will talk about the new Kenwood TH-D74 combined APRS and Dstar radio and Bryan Hoyer K7UDR will talk about the APRS-of-Things and Sterling Coffey N0SSC will talk about all the APRS tablet and phone applications. Others will update on their APRS projects and as time permits, other APRS topics from the floor are welcome.

10:30-11:30

Room 2

Combined MARS Forum Hamvention 2018 (UNCLASSIFIED)

Presentations to be given by David McGinnis and Dave Stapchuk.

Paul English, A CIV USARMY NETCOM(US)The Military Auxiliary Radio System is a Department of Defense sponsored organization the trains FCC licensed amateur radio volunteers in military communications procedures and digital messaging protocols in order to provide contingency HF communications support to the Department of Defense and Military Services. The MARS forum this year will focus on lessons learned from contingency support provided by our MARS volunteers during the 2017 hurricane season in both Texas and Puerto Rico. Presenters will demonstrate the newest military HF radio, the PRC-160 tactical wide band HF radio that will soon be fielded to military units worldwide. Additionally, presenters will discuss the latest developments in the MARS RADIO phone patch network which supports the



military services with HF phone patch.

10:40-11:40

Room 3

Antennas for Emergencies Forum **Frank J. Beafore, WS8B**

This presentation will be in forum style with everyone participating in the discussion. The forum will look at emergency situations, currently off the shelf (COTS) products available and homebrew solutions based on simple antenna theory. Participants should be better prepared for a variety of emergency situations after attending this forum.

10:30-11:30

Room 4

2018 Hamvention Instructors' Forum **Moderated by Carole Perry WB2MGP**

This forum is for teachers and instructors to share techniques and new ideas for the classroom and ham radio youth groups. There will be an emphasis on suggestions for teaching youth about emergency preparedness and how to tie it in to geography, social studies, and amateur radio skills.

There will be excellent opportunities for networking along with great door prizes. Speaker will be Charles Kirmuss W0CBK who is an RCA Youth Activities volunteer as well as Director of Rampart Search and Rescue for Adams, Lincoln and Morgan Colorado Counties Sheriff's Department.

Topic: Teaching Emergency Preparedness through radio communications; including weather watching, navigation with maps and gps, environmental observations, first aid, search techniques, etc; Discussion on how to organize teenagers into volunteer emergency programs (CERT, SAR, ARES).

12:00-1:45

Room 1

Homeland Security Forum **Moderator: John Peterson**

The Department of Homeland Security's (DHS) Office of Emergency Communications (OEC) forum is geared toward auxiliary emergency communicators who volunteer to provide backup emergency radio communications support to public safety and emergency response agencies. Typically they are amateur radio communicators from groups such as MARS, ARES, RACES, SATERN and other amateur radio groups. Volunteer emergency communications operators/groups have been providing back-up emergency communications to the public safety community for nearly a century. They are routinely used by event planners and emergency managers at all levels of government. Today nearly all the States/territories have incorporated some level of participation by amateur radio auxiliary communication operators into their communications interoperability plans. Come talk with the DHS Communications Unit (COMU) subject matter experts at this year's forum and learn about the nationally recognized, NIMS/ICS compliant, AUXCOMM course. In this forum you will learn about the latest changes for COMU training (aka COMU 2.0) and be updated about the new COMU courses that are currently in development and are expected to be deployed in the not so distant future. Additionally, OEC will bring in subject matter experts that were on the ground and directly involved with deployment and operations of AUXCOMM operations during last year's hurricanes. This forum is filled with new information that will be beneficial to all those who



provide emergency communications support to the Public Safety community. Moderator for this Forum: John Peterson (N4KEA), from the Office of Emergency Communications in Washington, DC, will be the lead for this information packed forum.

- 11:45-1:00** **Room 2** **D-Star**
Moderator Robin Cutshaw, AA4RC
 New devices. New software. Join Robin Cutshaw (AA4RC) and more for updates on D-STAR.
- 11:50-1:05** **Room 3** **ARRL Public Service Communications #2: Building Partnerships**
Presenters: Mike Corey, K1IU, ARRL Emergency Preparedness Manager
 Sarah Byrne, Community Partners Specialist, External Affairs, FEMA
 Solid, collaborative, and mutually beneficial partnerships are key to successful disaster and emergency response. Amateur Radio public service groups rely on such partnership when serving their communities. This session will address how to build and grow partnerships of different levels of complexity, across a wide range of interests and organizations -- from Voluntary Organizations Active in Disasters (VOADs), to other non-profits and businesses. Sponsored by ARRL, the national association for Amateur Radio.
- 11:45-12:45** **Room 4** **Kit Building**
Moderator/Keynote Speaker: Joe Eisenberg, K0NEB
 Kit Building Editor, CQ Magazine “Kit Building Techniques for Success”
 A look at ideas for making your kit building experience go better and give you the highest chance for success. This forum is designed for both beginning and experienced builders. Topics to be covered include choosing the correct soldering iron and not break the bank, choosing the best type of solder and desoldering tools, how to handle winding toroids, sorting parts, and what spare parts to have on hand. If possible, onsite sources for these items will be given. Speaker: David M Cripe, NM0S Engineer, Rockwell Collins and designer of many 4-State QRP kits.
 Introducing the new 4SQRP kits for 2018 and what is coming in the future, and using printed circuit boards to make the cases, including the design and assembly hints.
- 11:45-1:15** **Room 5** **BalloonSat Forum Program**
Moderators: Bill Brown WB8ELK and Doug Loughmiller W5BL
 Great Plains Superlaunch Pico Balloon Race -Bill Brown WB8ELK
 Solar Eclipse Balloon Flight- Paul Verhage KD4STH (talk presented by Bill Brown WB8ELK). National Scout Jamboree Balloon Flights-Keith Kaiser WA0TJT and Mike Yammine KB8CMS. Promoting STEM with High Altitude Balloons and Drones- Brian Tanner, Spaceport Indiana. A Pico Balloon Race will be launched after the BalloonSat Forum
- 1:15-2:30** **Room 2** **National Weather Service Forum**
Working With Amateur Radio ... To Save Lives During Severe Weather
Moderated By: Brandon Peloquin, Warning Coordination Meteorologist,



National Weather Service Wilmington OH

NOAA's Weather-Ready Nation initiative is about building community resilience in the face of increasing vulnerability to extreme weather and water events. To achieve this, the National Weather Service (NWS) strives to develop and strengthen partnerships with those who contribute to this initiative. This presentation will describe the partnership between Amateur Radio operators and the NWS and how they work together to help communities be better prepared for severe weather.

1:15-2:15

Room 3

Collins Radio Association

Moderator and speaker: David Knepper, W3ST, Secretary to the Collins Radio Association

Emergency Preparedness Deployment of Collins Radio Equipment for Public Safety Communications

Collins amateur radio equipment, still has relevance and practicality in providing effective, dependable communications in any natural or man-made catastrophic event. Utilizing its superb capability and dependability, a Collins KWM-2, for example, can still be part of an integrated emergency communication system. This session will describe in detail the packaging of Collins ham equipment that still has relevance and capacity to provide reliable and dependable emergency communications.

1:00-2:15

Room 4

Techniques Of The Best Operators 2018

Mitch Stern W1SJ Tony Pazzola W2BEJ

Now that you've bought up all that great stuff at Hamvention, how exactly do you set it all up? Why is working new stations such a struggle? Why does everyone else work the juicy DX but I can't? Why is it every time I get into a QSO, it ends up getting swallowed up in a blast of QRM? Questions, questions, questions! Our forum today will help you go in the right direction. A good station certainly helps, but knowing WHAT to do and what NOT to do when you get on the air is even more important. We'll start off with some of the basics of good operating, learn the details for putting together a great station for those portable operations, explore the mysteries of antennas and propagation, dabble with digital, dabble with DX and finally learn how to use contests to become better operators. You won't be same operator by the end the day and will be a force to be reckoned with on the bands! You will be treated to on-the-air war stories, equipment ideas and super suggestions. Don't miss it!

1:30-2:30

Room 5

Using KiCad EDA Open Source Design Software

Moderator: Barry Buelow, WØIY. Rockwell Collins

WØIY Retired from 30+ years at Rockwell Collins, plus consulting at NASA, and other aviation manufacturers. Barry spends a great deal of time designing circuits, assembling PCB and tinkering with his 3D printer and toys. He volunteers with the Iowa State Univ Solar Car project and has organized a group of other Collins retirees who do home brewing.

KiCad EDA is one of a very few Open Source Electronic Design Automation suites. It provides tools for schematic capture and PCB layout. The tool is as easy to use as any other design software and provides Gerber outputs which



can go to most PCB shops. It also supports Pick-and-Place operation by providing a component placement file.

2:00-5:00

Room 1

Antenna Forum

Moderator: Tim Duffy K3LR

“A Five Element Parasitic Rotatable Vertical Yagi for 160 meters” by Joel Harrison, W5ZN. Joel will review his installation and operation of his high performance directional antenna system for the 160 meter band. “A Pragmatic Approach to 630 Meter Antennas” by E.M. Tichansky, NO3M Eric will present an overview of practical 630 meter antennas for transmit and receive for all variety of lot sizes. “Near Vertical Incidence Skywave (NVIS) Antenna System Design, Construction and Operation” by Cory Gibson, W3CDG Cory will present a detailed paper using NEC models, construction, deployment and on air validation of NVIS antennas for 40 and 80 meter emergency communications. “Hydro Excavation for Radio Antenna Tower Construction” by Everett Jackson, WZ8P Hydro Excavation is the process of removing or moving soil with pressurized water. An air conveyance or vacuum is then used to transfer the soil or debris to a debris tank. This allows for a non-destructive and more accurate way to excavate soil for tower foundations. There is no need for a backhoe or bulldozer and concrete may be poured more quickly. This allows for a non-destructive and more accurate way to excavate soil for tower foundations. There is no need for a backhoe or bulldozer.

2:45-3:45

Room 2

Ham Radio and the Law

Barney Scholl K3LA

The speaker will address the provisions of The FAA Extension, Safety, and Security Act of 2016 and whether the enacted law will require your current or future antenna support structure to be lighted. The 2016 Act will not affect most radio amateurs, but due to the included definitions, it could affect an existing or future tower. So it is better to be aware of its provisions before you buy that hilltop parcel of land for your future super station.

The speaker is Chester (Barney) Scholl, K3LA. Barney has been a radio amateur for 55 years and is a life member of the ARRL. Barney is now an attorney in private practice. He has represented radio amateurs and cellular companies in tower related matters and currently is solicitor for a local zoning hearing board and a member of a local planning commission.

This session also plans an extended Q & A period for the panel to allow audience members to steer discussions with respect to other topics of interest. “Legal Liability laws Can Leave You Feeling Naked At Your Next Field Day, Hamfest or Public Event”

Learn how you and your club may avoid poverty and perdition. Adult content, not recommended for the shy or risk adverse. Speaker: The speaker is John Robert Stratton, N5AUS. John, an ARRL Life Member, is the ARRL West Gulf Division Vice-Director and Legislative Director, holds a degree in Aerospace Engineering and is an attorney in private practice specializing in civil litigation.

“Unintended Consequences of the Amateur Radio Parity Act.” Or “What you don’t know may hurt you”.



Description of presentation. The speaker will address the controversy over the language of the Amateur Radio Parity Act and whether the proposed law will provide any significant relief for radio amateurs living in homeowners associations or under restrictive covenants running with their land. Bob will also discuss the unintended consequences of the proposed law. The Amateur Radio Parity Act will affect many radio amateurs that do not live in a HOA, but are characterized by broad language of the act to be in a community association even if there are no HOA documents or covenants. Also, the proposed statute does not actually guarantee an effective outdoor antenna for many living in an HOA.

The speaker is Bob Famiglio, K3RF. Bob has been a radio amateur for 51 years and is a life member of the ARRL. A graduate electrical engineer, Bob is now an attorney in private practice. He has represented radio amateurs in significant legal disputes involving antennas and HOA restrictions beginning even before the passage of PRB-1.

2:25-3:40

Room 3

ARRL International Grid Chase 2018 -- Get in the Chase!

Presenter: Bart Jahnke, W9JJ, ARRL Contest Branch Manager
Come hear an update about ARRL's year-long on-air event, the ARRL International Grid Chase. Get tips about participating, uploading your log data to ARRL's Logbook of The World (LoTW), scoring, and awards. Remember, at the end of each month, totals on the Grid Chase leader board reset to zero. Will you be next month's leader?

2:30-3:30

Room 4

Young Ladies' Radio League

Moderator, Anne Manna, WB1ARU

Young Ladies' Radio League is sponsoring this Forum for all women, licensed or not. Every woman ham is a "Young Lady" no matter what her age. The forum will provide an opportunity for meeting and networking with others who share our hobby or are interested in finding out more about it. Speakers will provide information on varied interest areas in ham radio including nets, special events, clubs, contests, scouts, emergency preparedness, and more. Bring your questions to the YL Forum and find out about women in Amateur Radio and hear from Young Ladies of all ages! OMs are also welcome to earn awards and are appreciated for their support.

4:00-5:00

Room 2

System Fusion Forum

Moderator: Mark Thompson, WB9QZB

Speaker: John Kruk, N9UPC, Sales Manager, Amateur Radio Sales Division, Yaesu USA
The System Fusion Forum™ will include a presentation & discussion about Yaesu's System Fusion™ Voice & Data technology designed exclusively for Amateur Radio.

The forum will review Yaesu's System Fusion™ technology including 2m / 70cm Analog FM / C4FM Digital Voice Repeaters and Mobile & Portable radios and WiRES-X™ (Wide-coverage Internet Repeater Enhancement System) & IMRS™ (Internet-linked Multi-site Repeater System) VoIP communications linking systems.



Everyone who is using or interested in System Fusion is encouraged to attend and participate to share their experiences & ask your questions about System Fusion.

- 3:50-5:00** **Room 3** **Software Defined Radio**
Moderator: Stephan Hicks N5AC
 Multiple speakers will discuss new advances in the world of Software Defined Radio and will form a panel at the end to discuss questions from the audience. Moderated by Steve Hicks, N5AC, VP Engineering FlexRadio Systems.
- 3:45-5:00** **Room 4** **DMR Networks Forum**
Moderator: John Burningham, W2XAB
 The current state of the DMR networks, radios, and hot spots followed by a short introduction to writing your own code plugs.

Saturday, May 19th

- 9:15-10:15** **Room 1** **Drake Equipment**
Moderator: Mark Gilger, WB0IQK
 Supporting user interests and needs for the Drake Equipment Resource help with Parts, Documentation, etc. Removal, Disassembly, Cleaning, & Re-installation of the Drake 4-line PTO.
 Tips & Hints - Mark Gilger, WB0IQK
 Speakers: Peter Shilton, VE7PS, Jeff Covelli, WA8SAJ, Mark Gilger, WB0IQK
 Kenwood Legacy Equipment Forum Program Listing
 Kenwood Legacy Equipment (TS-500 - TS-830)
 Supporting user interests and needs for the Legacy Kenwood Equipment
 Moderator - Jan Servaites, N8CBX & Mark Gilger, WB0IQK
 Resource help with Parts, Documentation, etc. - Mark Gilger, WB0IQK
 Hybrid relay related problem & fixes - Jan Servaites, N8CBX
 SDR integration into the Legacy line - Mark Gilger, WB0IQK
- 9:15-12:00** **Room 2** **Youth Forum 2018**
Moderated by Carole Perry WB2MGP
 Come join the fun and experience the pride by attending our 30th Hamvention Youth Forum. Bring kids with you to inspire them to join the fun of being a youngster in ham radio. This is where young people will get to meet with other youngsters. Stay tuned for special announcements about fabulous opportunities for young adults in ham radio and at Hamvention. There will be lots of prizes for the speakers, the kids in the audience, and the supportive adults in the audience. You must be present to win! Come and show your support for our talented young hams!
- 9:15-10:30** **Room 3** **ARRL Public Service Communications Track #3: Panel Discussion**
Moderator: Mike Corey, K1IU, ARRL Emergency Preparedness Manager
 A chance to hear from representatives from Amateur Radio's largest organizations active during times of disaster and emergency. Sponsored by



ARRL, the national association for Amateur Radio.
 Rob Macedo, KD1CY, VOIP WX Net and VOIP Hurricane Net
 Paul English, WD8DBY, US Army MARS
 David Stapchuk, KD9DXM, US Air Force MARS
 Bill Feist, WB8BZH, SATERN
 Ross Merlin, WA2WDT, Department of Homeland Security, SHARed
 RESources (SHARES)
 Ted Okada, K4HNL, Chief Technology Officer, FEMA
 Malcolm Kyser, KG4G, Chief of Communications, Civil Air Patrol

9:15-10:30

Room 4 HamSCI Forum

Moderator: Nathaniel Frissell, W2NAF

The Ham Radio Science Citizen Investigation (HamSCI) is an organization that allows professional researchers to collaborate with the amateur radio community in scientific investigations. HamSCI aims to advance scientific research and understanding through amateur radio activities, encourage the development of new technologies to support this research, and provide educational opportunities for the amateur community and the general public.

- 9:15- What is HamSCI? (Nathaniel Frissell, W2NAF)
- 9:20- The Bridge Between Radio Amateurs and Space Physicists (Ethan Miller, K8GU and Phil Erickson W1PJE)
- 9:35-After the Storms: Status of the Arecibo Radar/Radio Telescope (Angel Vazquez, Jr., WP3R)
- 9:50-50 MHz Propagation: Winter Sporadic E and Jet Streams (Joe Dzekevich K1YOW, Presented by Phil Erickson, W1PJE)
- 10:05-Solar Eclipse QSO Party Results (Nathaniel Frissell, W2NAF)
- 10:25- Closing Remarks

10:25-11:20

Room 1 Ham Nation

This forum is the meeting place for hundreds of Ham Nation fans. Moderated by Gordon West, Don Wilbanks, Valerie Hotzfeld, Bob Heil and George Thomas they will report on behind the scenes aspect of ham radio's most popular video web cast which is a part of Leo Laporte's TWIT network. Always a great entertaining forum which brings you lots of news and happenings from the Ham Nation team.

11:20-12:10

**Room 1 Heil Sound Workshop
 Parametric Receive System**

After two years of development, Bob Heil will demonstrate how well a perfectly designed Parametric equalization system brings new life to any and all receivers. Heil's specially designed Parametric equalization system drives the 5" woofer and 3" tweeter in a tuned cavity driven by a low distortion 25 watt amplifier. You don't want to miss experiencing this unique new system.

10:45-11:45

Room 3 RTTY Contesting

1. "Will Digital Contesting Migrate from RTTY to FT8?", Ned Stearns, AA7A
 FT8 is a new digital mode introduced this past year and has taken the digital DXing world by storm. Almost instantly FT8 dominated the activity over



RTTY, JT65 and PSK. The WSJT Developers and DXpedition organizers recognized the potential for high QSO rates under marginal propagation conditions and worked together to develop an “FT8 DXpedition Mode”. What does all of this portend for RTTY contesting?

2. “RTTY Transmit Bandwidth Management”, Ed Muns, W0YK
Most RTTY signals are far wider than they need to be. This causes unnecessary QRM to other stations and reduces the number of stations that can operate successfully in a given band segment. This presentation will describe the problem and the solutions for both AFSK and FSK.

3. “RTTY Contest Q&A”

This is an opportunity for attendees to have their questions addressed, either pertaining to the presentations or other topics.

10:45-11:45

Room 4

ATV Forum

Art Towslee, WA8RMC

Gordon West, WB6NOA, Warms up the ATV Forum with fun audio sounds, couple of one liners and preview of al excitement Mike, WA6SVT, and team are doing for digital ATV on the West coast.

Selecting, Buying and Building a Hi-Def Digital ATV Station. With the growing availability of Digital ATV gear, Mel will help determine what is needed to assemble your first station or add capability to an existing one.

The latest Modulators, Demodulators, Cameras, Amplifiers, and other video devices will be explored in a fast moving and informative presentation on this ever changing technology.

10:30-11:30

Room 5

Kenwood Equipment Forum

Moderator: Jan Servaites, N8CBX, Mark Gilger, WB0IQK

Speaker: Jeff Covelli, WA8SAJ

Kenwood Legacy Equipment Forum Program Listing

Kenwood Legacy Equipment (TS-500 - TS-830)

Supporting user interests and needs for the Legacy Kenwood Equipment

Moderator - Jan Servaites, N8CBX & Mark Gilger, WB0IQK

Resource help with Parts, Documentation, etc. - Mark Gilger, WB0IQK

Hybrid relay related problem & fixes - Jan Servaites, N8CBX

SDR integration into the Legacy line - Mark Gilger, WB0IQK

Tips & Hints : Mark Gilger, WB0IQK

Questions and Answer session:

Jan Servaites, N8CBX, Jeff Covelli, WA8SAJ, Mark Gilger, WB0IQK

11:45-1:00

Room 5

National SATERN

Moderator: Bill Feist WBBZH

As technology progresses, the domestic and global communications infrastructure has become increasingly robust and resilient. This has led many to believe that there is little or no possibility that this infrastructure can completely fail. The 2017 Atlantic Hurricane Season proved that it really CAN fail - even catastrophically fail - given the right circumstances.

This talk will be about HOW it failed - particularly in Puerto Rico, the U.S. Virgin Islands and other places in the Caribbean, how the Salvation Army



Team Emergency Radio Network (SATERN) and the general amateur radio community responded to that failure, and the lessons learned from that response.

- 12:20-1:10 Room 1 Tropo Ducting On 2M Every July - 2500 Miles!**
Moderator: Gordon West, WB6NQA
 July is VHF/UHF tropospheric ducting month, all over the USA. Gordo, WB6NOA, will offer live demos on how local high pressure weather systems will refract VHF/UHF radio waves, over hundreds and thousands of miles, simplex, even on FM. Hear the record breaking sounds of this every-July phenomenon, where even a handy talky can work the DX! Hot day, no wind, smoke on the horizon - work tropo! Gordo shows you how.
- 12:15-1:45 Room 2 Foxhunting & Amateur Radio Transmitter Hunting (ARDF)**
Speakers Bob Frey, WA6EZV and Brian DeYoung, K4BRI
 Topics include demonstration and discussions on a variety of equipment and techniques used for VHF and HF mobile, on foot, and ARDF style transmitter hunts. On Saturday afternoon we will be having an on foot foxhunt with multiple transmitters in a local park.
- 12:00-1:15 Room 3 ARRL Member Forum**
Moderator: Dale Williams, WA8EFK, ARRL Director
 Great Lakes Division ARRL is the national association for Amateur Radio in the US. ARRL members help advance the art, science, and enjoyment of Amateur Radio. ARRL publishes the popular monthly journal QST, coordinates an extensive all-volunteer field organization, and serves members as Amateur Radio's representative voice in regulatory and legislative matters. Hear from local and national ARRL officials on key areas of membership interest. Find out how ARRL supports dozens of ways to get involved, get active, and get on the air. Members and prospective members are all welcome!
- 12:00-1:00 Room 4 QCWA Forum - 2018 | Ken Oelke, VE6AFO - QCWA President**
Reaching Out To Amateur Radio Youth
 Celebrating Amateur Radio operators achieving 25 years in Amateur Radio, and developing resources to assist young Amateur Radio operators in furthering their education through the QCWA Scholarship Program. This year we are inviting all past, and hopeful future, recipients of a QCWA scholarship to join and tell us about your activities and achievements, and how the scholarship has assisted you with your education. If you are reading this, please introduce yourself at our forum. Plan to attend this exciting forum to learn about QCWA Youth Activities and a new QCWA/RCA Youth initiative, as well learn of our support for the ARISS Program and Dave Kalter Memorial Youth DX Adventure. This year we will be holding the Annual Members' Meeting in conjunction with our forum. Learn of our past achievements, financial and membership growth. This is your forum, so be prepared to become engaged in QCWA's future! Plan to participate in a lively 'Question & Answer' session.



- 1:20-3:05** **Room 1** **Contesting Forum**
Moderator: Doug Grant, K1DG
 “The Reverse Beacon Network turns 10” - Pete Smith, N4ZR
 Ten years ago, Skimmer technology gave rise to the Reverse Beacon Network, changing contesting forever. Nowadays, the RBN is used for numerous purposes both during and outside contests. N4ZR will examine some of the ways the RBN is being used and how you can use it to improve your contest scores.
 “Countdown to WRTC2018” - Christian Janssen DL1MGB
 The WRTC2018 Opening Ceremonies will be held 54 days from today in Wittenberg, Germany. The teams and referees have been chosen, the sites have been selected, the volunteers are being trained, and the committee is looking after all the details to make the event a success, including both the competition and the opportunity for contesters from around the world and their families to share the excitement.
 “What has the WWROF been up to lately?” - John Dorr, K1AR
 The World Wide Radio Operators Foundation was formed in 2009 to help improve the skills of amateur radio operators around the world, utilizing education, competition, advancement of technology and scientific research, promoting international friendship and goodwill, and preparing them to better serve society in times of communication need. Current and recent projects include funding the log-checking infrastructure, managing awards programs, a successful Webinar program, and most recently, providing generators for amateurs in Puerto Rico who were left without power after two devastating hurricanes.
 “Winning a contest using a remote station” - Chris Hurlbut, KL9A; Kevin Stockton, N5DX; Nate Moreschi, N4YDU
 As remote stations have become commonplace, some of them have been used for contesting. While some operators have questioned whether remote stations would be capable of winning contests, others took up the challenge and have been very successful. Today’s panelists have won major contests operating both “in-person” and remotely, and can offer some interesting observations on remote contesting.
- 1:30-2:30** **Room 3** **ARRL Public Service Communications #4: Stories from the 2017 Hurricanes**
 Firsthand accounts from volunteers who supported Amateur Radio’s response to the 2017 hurricanes in Puerto Rico, US Virgin Islands, and across the Southeast US. Sponsored by ARRL, the national association for Amateur Radio. Panelists:
 Mike Corey, K1IU, ARRL Emergency Preparedness Manager (moderator)
 Oscar Resto, KP4RF - ARRL Public Service (guest)
 Fred Kleber, K9VV - ARRL Section Manager, US Virgin Islands (guest)
 Andy Anderson, KP4AAN - ARRL Public Service (guest)
- 1:15-2:30** **Room 4** **VHF/UHF/Microwave Forum 2018**
Moderator: Tony Emanuele K8ZR
 CQ Magazine VHF+ Column editor.
 1. “Are the Bands Hot or Not: The VHF+ Remote Beacon Network.” John Ackermann, N8UR. There’s a propagation monitoring tool that VHFers aren’t taking advantage of. Learn how the VHF+ Reverse Beacon Network can spot



openings and help increase activity.

2. "Roving: A Beginners Experiences in VHF Contesting" Mark Kerhlikar, WD9HBF.

3. "Some of My Favorite Test Gear Comes from China." Michael Davis, KB1JEY VHF enthusiasts have observed that new test equipment can often cost more than our car and legacy models can strain our backs. The good news is that good quality yet inexpensive signal generators, spectrum analyzers and other pieces of test gear manufactured overseas are readily available. This presentation will offer some tips on how to secure these values.

4. "What's new in VHF Contesting: Events, Modes and the International Grid Chase." Bart Jahnke, W9JJ. ARRL Contest Branch Manager.

1:15-2:15

Room 5 Robots in The Classroom' Forum
Moderator, Kerry Hicks

Teams, coaches, and mentors from around Ohio will discuss the various FIRST programs that introduce kids of all ages to robotics, programming, and "gracious professionalism." They will be there to talk about the programs, how they benefit the kids (and the adult mentors as well), and how to the programs have spurred interest in STEM. Of course, THERE WILL BE ROBOTS to show off!

2:00-3:15

Room 2 AREDN – Amateur Radio Emergency Data Network
At The Center Of Emergency Preparedness

Andre, K6AH, the AREDN Project Manager, will discuss why delivering mesh networking as part of your group's EMCOMM services will produce a paradigm change for the disaster services community you serve.

Hams such as yourselves, are now building or have already implemented AREDN networks in their own cities and counties throughout the US. Learn how hams are utilizing this exciting technology to meet the expectations of served agencies by providing them access, through a high-speed network, to applications they already use. Andre will also describe how you can get involved, what equipment you should consider, and how to assemble your go kit. Finally, Andre will discuss the amazing tools you will be providing first responders and disaster service agencies such as the ARES/RACES (AUXCOM), EOCs, CERT, and the Red Cross.

3:30-5:00

Room 2 Digital Modes Forum
Moderator: Mel Whitten, K0PFX

Ron Ochu, KO0Z

Developing Emcomm Rural America

Seven years ago, CQ columnist and Illinois Macoupin County Emergency Coordinator, Ron Ochu, KO0Z moved from suburban living near St. Louis to rural Illinois. Ron will share Emcomm lessons learned on exploring ways for ham radio operators to gain access into the "inner circle of trust" in rural America's bureaucratic structure. Change isn't easy, but it is possible if you have the will, the means and something to offer.

Mark Miller, N5RFX

"Mobile Repeaters for DMR"

Setting up a digital repeater for emergency communications. Examples



include: 1. Motorola XPR 8300/8400. 2. How to select a transceiver for Home brew digital repeater. 3. Configuring a homebrew DMR repeater for emergency use.

Bruce Perens, N6BP

“2018 Digital Voice and Open Source Update”

Bruce Perens is showing off! There are new development in digital voice, digital modems and protocols, new and amazing hardware, space and satellites, even rules and regulations! Bruce Perens K6BP is one of the founders of the opens Source movement in software, a digital voice proponent, and has helped steer Amateur Radio toward the future for two decades, Come and hear what’s going on. Time will be allotted for attendees to ask questions.

2:45-3:45

Room 3

HamRadio Workbench Build Projects

Moderator: George Zafiropoulos

George and Jeremy from the Ham Radio Workbench Podcast will talk about the latest show build projects along with tips and tricks for setting up your own workbench. If you are new to home brewing, want a deeper technical understanding of all things radio or are an experienced hands-on DIY type, this session is for you. We will touch on popular projects including portable HF antennas, portable power, home brew station accessories, DMR hotspots and repeaters, pocket sized test equipment and more.

2:45-3:45

Room 4

AMSAT Status Report

Moderator: Keith Baker, KB1SF / VA3KSF

“AMSAT Status Report” Joseph Spier, K6WAO, AMSAT-NA President, will highlight recent activities within AMSAT and discuss some of our challenges, accomplishments, projects, and any late breaking news.

“AMSAT Engineering Program” Jerry Buxton, N0JY, AMSAT-NA Vice President for Engineering, will talk about the Fox-1 and Golf (Greater Orbit Larger Footprint) Projects.

“ARISS Report 2018” Frank Bauer, KA3HDO, AMSAT-NA Vice President for Human Spaceflight will discuss ARISS’ “Next Generation ARISS Radio System” on the International Space Station.

2:45-3:45

Room 5

New Product Showcase

Moderator: Michael Kalter

Dayton Hamvention is hosting a media event allowing companies to formally announce their new products. This is primarily a media event and will be available online following the Showcase. Public seating begins when media seating is satisfied.

3:15-5:00

Room 1

DX Forum

Moderated by Jay Slough, K4ZLE

We welcome anyone interested in DX to attend our forum this year. While we may be one of the last forums on Saturday, we should prove to be most interesting. The forum will consist of three major presentations.

6O6O - Samolia, by Adrian, KD8SCA

DX interest should span more than reports of someone or some group



hauling a bunch of radio equipment to some possibly rare locality, setting the equipment up and making myriads of millisecond QSOs. There is often a humanitarian component to some DXpeditions and editorially perhaps there should be more emphasis on this aspect of our hobby. This expedition was just such a trip. While Adrian and Ken, LA7GIA, term this a DXpedition, there was an altruistic purpose to the trip. Adrian will tell us why they went and about the organization they are supporting by this trip.

3C1L and 3C0L - Equatoria Guinea and Annobon Island, by Yuris, YL2GM
 Those of us in the US are familiar with commercials for Eveready batteries and the Energizer Bunny. "It just keeps going and going and going!" That describes this two man team and their recent operation. These two top tier operators were constantly on the air and snapping off contacts like there was no tomorrow. Little did we know then that this was only a reconnaissance trip for the 3C3W and 3C0W trip that took place in early 2018. The first trip was not without its trials and tribulations. Come meet one of the operators first hand and hear what was involved in making these operations a reality.

3Y0Z - Bouvet, by Bob, K4UEE

While every major DXpedition has its rough spots, none in recent history has produced more heartache and pain for the direct participants and the DX community as a whole than this one. Thirty one days at sea in the waters of the Southern Ocean would be enough, in and of itself, but to see your objective setting directly in front of you and not being able to fulfill your goal would break the heart of anyone - especially after the planning and preparation that went into this trip. Bob was one of the leaders for this trip and will "come out of retirement", so to speak, to tell us about that experience.

In addition, to the presentations described above, there will be a Yaesu transceiver raffled at the conclusion of the forum. Tickets may be purchased at the forum and the winner does not have to be present to win. One hundred percent of the proceeds from this raffle are used to help fund DXpeditions like those above. Here is your chance to help make future trips possible and to potentially win a nice radio.

4:00-5:00

Room 3

ARRL Collegiate Amateur Radio Initiative

A growing number of campus radio clubs and student radio amateurs are sharing ideas and suggestions on the ARRL Collegiate Amateur Radio Initiative (CARI) Facebook page. They're (re)inspiring ham radio among our nation's colleges and universities, meeting other students, and developing career connections. Hear from students, alumni, and faculty. The ARRL Collegiate Amateur Radio Initiative is sponsored in part by the W1YSM Snyder Family Collegiate Amateur Radio Endowment.

Andy Milluzzi, KK4LWR, ARRL Public Relations Committee

Tony Milluzzi, KD8RTT, ARRL Volunteer, Collegiate Amateur Radio Initiative

4:00-5:00

Room 4

FCC Disaster EmComm Public Workshop

Moderator: Curt Bartholomew, N3GQ, FCC Emergency Manager

Federal Agent | Emergency & Continuity Manager

5 DHS/FEMA Officials, including Ted Okada, K4HNL, Chief Technology Officer

One DHS/OEC Official: John Peterson, N4KEA



One NCC Official: Ross Merlin, WA2WDT, SHARES Program Manager
 One American Red Cross Official: TBD
 One Winlink Official: Steve Waterman, K4CJX/NCS396
 One US Army MARS Official: Paul English, WD8DBY, Program Manager
 One USAF MARS Official: TBD
 Several ARRL Officials: TBD
 One SATERN Official; TBD
 One Southern Baptist Disaster Relief Official: TBD

Sunday, May 20th

- 9:15-10:15 Room 1 **West Mountain Radio presents**
Exploring Network 105 - The HF amateur packet radio network.
Moderator: Sholto Fisher.
 Network 105 has been in continuous operation since 1986 and is a global RF Wide Area Network. It's a place to chat & make friends, exchange personal mail, experiment with computers & software, and explore the ever evolving network. This presentation is not beginner level but all are welcome to attend.**
- 9:15-10:15 Room 2 **Reaching the Public with Ham Radio**
 Many radio clubs organize displays and exhibits to garner interest for Amateur Radio. They recruit new hams at Maker Faires, school and Scouting events, county fairs, public events, and science and technology conventions. Clubs also setup displays for the general public during ARRL Field Day. Come learn and share different methods for organizing exhibits and engaging the public at non-radio events. Sponsored by ARRL, the national association for Amateur Radio. Tommy Gober, N5DUX – Instructor, ARRL's Teachers Institute on Wireless Technology
 Bob Inderbitzen NQ1R – ARRL Marketing Manager**
- 9:15-10:15 Room 3 **Receiving Antennas**
Moderator: Eric Nichols, KL7AJ
 Eric P. Nichols, KL7AJ . KL7AJ is a two-time recipient of the William Orr, W6SAI Technical Writing Award, conferred by the ARRL. He is currently technical editor for the W5YI group, working closely with Gordon West. He has written dozens of articles for QST, and is the author of The Opus of Amateur Radio Knowledge and Lore, Radio Science for the Radio Amateur, Propagation and Radio Science, and, Digital Storage Oscilloscopes for Ham Radio. He is currently writing a book on active and passive receiving antennas for ARRL, the topic of this talk.
 Receiving antennas are DIFFERENT! Almost every amateur radio station can benefit from having a separate receiving antenna. Eric Nichols, KL7AJ will discuss the profound differences between the requirements of transmitting and receiving antennas, and how to optimize antennas for reception. As the overall noise floor in the HF band steadily increases, the deployment of well designed, low-noise receiving antennas will be increasingly important. Exciting new technologies make small, effective receiving antennas possible and practical.**



- 9:15-10:15** **Room 4** **Bicycle Mobile Hams of America (The 28th Annual forum at Hamvention)**
Moderator: Mike Nickolaus, NF0N
Bicycle Mobile Hams of America got its start in 1989 when a QST article by Hartley Alley, NA0A asked hams who operate their radios while bicycle-mobile to get together and form a group. BMHA hosts a website along with the BMHA Yahoo Groups forum.
Mike Nickolaus: NF0N : Review of 2018 BMHA Bicycle Trail Ride
Steve D'Amico: KC8QVO : Bicycle setup and overview of some of his trips. Steve will have his bike and demonstrate his gear and show ergonomic tips for all day trips. He will show some pictures of the trips he has done. We plan to have bicycle mobile displays and demonstrations of each will be conducted.
- 10:30-11:30** **Room 1** **Secure Energy Forum**
Speaker: Bob Bruninga, WB4APR
Solar, wind, batteries and electric cars are revolutionizing the home energy considerations for the Radio Amateur. Just in the last ten years, home grid-tie solar now costs less than half the utility, The average cost of the 35 Electric Cars now on the market with incentives now costs several thousand dollars less than the average gas car. And with the Tesla Gigafactory, now energy storage for the home is becoming practical. These all contribute to energy security for the home and ham shack but it is not your father's 60 Hz legacy iron boat anchors any more. For example, the engine/generator in a simple Prius is rated at 50,000 Watts. Home solar is typically 5 to 10 kW.. Come learn about what you can do to incorporate new energy into your home and shack.
- 10:30-11:30** **Room 2** **The "Portable Magnetic Loop Antenna" Forum**
Antenna Seminar Schedule
100 MHz to 1 GHz | PY1AHD ALEX - Alexandre Grimberg
Magnetic Loop antennas have existed for more than 100 years and Alex decided to design the Portable Magnetic Loop Antenna for a simpler-than-ever outdoor antenna, and as the ultimate solution for the antenna restricted hams. For over 15 years of intense work Alex was challenged to break five unbeatable technical paradigms to create the first Portable Magnetic Loop Antenna-The world famous AlexLoop.
All those 15 years of the Portable Magnetic Loop Antenna research and development challenges will be compacted on a 50-minute presentation which will bring to the audience technical information and a lot of fun. Five short duration videos will be presented including some exotic projects such as the Coke Loop - <http://www.alexloop.com/artigo36.html>.



Forums Overall Schedule

2018 Forums Overall Schedule															
FRIDAY May 18, 2018			SATURDAY May 19, 2018			SUNDAY May 20, 2018									
Room 1	Room 2	Room 3	Room 4	Room 5	Room 1	Room 2	Room 3	Room 4	Room 5	Room 1	Room 2	Room 3	Room 4	Room 5	
9:15 AM TAPR Scott Cowling WA2DFI 9:15-10:30	Remote Operating Mark Aaker K6UFO 9:15-10:15	ARRL Public Service Communications #1: Getting Started Mike Coffey K1TU 9:15-10:30	SHARES HF EMCOMM Ross Merlin WA2ZWDT 9:15-10:15	Parks on the Air Thomas Martin WB7AM 9:15-10:30	Drake Equipment Mark Gilger WB0IQX 9:15-10:15	2018 Youth Forum Carole Perry WB2MGP 9:15-12:00	ARRL Public Service Track #3: Panel Discussion 9:15-10:30	HamSCI Nathaniel A Frizzell PHD W2NAF 9:15-10:30	HamSCI Nathaniel A Frizzell PHD W2NAF 9:15-10:30	West Mountain Radio Sholto Fisher K7TMC 9:15-10:15	Reaching The Public with Ham Radio Tommy Gobier N5DUK 9:15-10:15	Receiving Antennas Eric Nichols KL7AJ 9:15-10:15	Secure Energy for the Radio Amateur Bob Brunsaga WB4APR 10:30-11:30	The Portable Magnus Lopp W4WAB PT3MB 10:30-11:30	Receiving Antennas Eric Nichols KL7AJ 9:15-10:15
10:00 AM	Mars Paul English 10:30-11:30	Antennas for Emergencies Frank Beafore W488 10:40-11:40	Instructor's Forum Carole Perry WB2MGP 10:30-11:30		Ham Nation Bob Heil K9EID 10:25-11:20	ARRL Contesting Ed Mans W0VK 10:45-11:45	Fast Scan ATV Art Towstee W4GRMC 10:45-11:45	Fast Scan ATV Art Towstee W4GRMC 10:45-11:45	Kenwood Equipment Jan Servaites N8CBX 10:30-11:30	West Mountain Radio Sholto Fisher K7TMC 9:15-10:15	Reaching The Public with Ham Radio Tommy Gobier N5DUK 9:15-10:15	Secure Energy for the Radio Amateur Bob Brunsaga WB4APR 10:30-11:30	The Portable Magnus Lopp W4WAB PT3MB 10:30-11:30	Receiving Antennas Eric Nichols KL7AJ 9:15-10:15	
10:15 AM					Hill Sound Workshop Bob Heil K9EID 11:20-11:30	RTTY Contesting Ed Mans W0VK 10:45-11:45									
10:30 AM															
10:45 AM															
11:00 AM															
11:15 AM															
11:30 AM															
11:45 AM															
12:00 PM	D-Star Robin Cutshaw AA4RC 11:45-1:00	ARRL Public Service Communications #2: Building Partnerships 11:50-1:05	Kit Building Joe Elenberg K0NEB 11:45-12:45	Balloon Sat Bill Brown WB8ELX 11:45-11:15	TROPO DUCTING ON 2m Gordon West WB6HOA 12:20-1:10	ARRL Member Forum Dale Williams W4BEFK 12:00-1:15	QCWA Ken Oelke VE6AFO 12:30-1:00	QCWA Ken Oelke VE6AFO 12:30-1:00	Saturn Bill Feist WB8BZH 11:45-1:00						
12:15 PM															
12:30 PM															
12:45 PM															
1:00 PM															
1:15 PM															
1:30 PM	National Weather Service Brandon Puloquin 1:15-2:30	Collins Radio David Knepper W3ST 1:15-2:15	Techniques of Best Operators Mitch Stern W1SJ 1:00-2:15	Using KiCad Barry Buelow W0IY 1:30-2:30	Contesting Doug Grant K1DOG 1:20-3:05	ARRL Public Service Track #4: Stories from the 2017 Hurricanes 1:30-2:30	VHF-UHF Tony Emanuele W48RIF 1:15-2:30	VHF-UHF Tony Emanuele W48RIF 1:15-2:30	Robotics in The Classroom Kerry Hicks 1:15-2:15						
1:45 PM															
2:00 PM															
2:15 PM															
2:30 PM															
2:45 PM	Ham Radio and the Law B. Schell K3LA 4:30pm-5:15pm B. Farnley K3BE 2:45-3:45	ARRL International Grid Chase 2018- Get in the Chase! 2:25-3:40	YLRL Anne Manna WB1ARU 2:30-3:30	New Product Showcase Media Event 2:45-3:45		Ham Radio Workbench Build Projects George Zahirooulos K1UV 3:45	AMSAT Joseph Spier K6WAO 2:45-3:45	AMSAT Joseph Spier K6WAO 2:45-3:45							
3:00pm															
3:15 PM															
3:30 PM	Antenna Forum Tim Duffy K3LR 2:00-5:00	Software Defined Radio Stephan Hicks 3:50-5:00	Digital Mobile Radio John Burningham W2XAB 3:45-5:00	Digital Modes Mel Whitten K0PFX 3:30-5:00		ARRL Collegiate Initiative Andy Miller 4:00-5:00	FCC Curt Bartholomew N3GQ 4:00-5:00	FCC Curt Bartholomew N3GQ 4:00-5:00							
3:45 PM															
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5:00 PM															



Award Winners

The Hamvention Awards committee is very excited and pleased to announce the winners of the four Hamvention 2018 awards. Co-chairs Michael Kalter, W8CI, and Frank Beafore, WS8B, said, “We would like to thank everyone who nominated a candidate. The process is always difficult and the Awards Committee reached agreement on the following winners. Please join us in congratulating these outstanding 2018 winners.”

Club of the year: The Portage County Amateur Radio Service



The Portage County Amateur Radio Service (PCARS) was established in November of 2005. It is an ARRL Affiliated Club and an ARRL Special Service Club.

PCARS has an average of 43 hours of club activities per month including special interest groups, license training, contests run from our club site, and club social events. Our members cover a wide range of interests that allow us to support public safety organizations, student outreach programs and activities focused on growing our hobby. We love to share our experiences and have a requirement that our events be filled with a lot of fun. Members have joined PCARS because of all the activities and fun we have.

We have created our own contests and events including our annual Freeze Your Acorns Off in February and Ohio State Parks on the Air that was used as a model for the ARRL's™ NPOTA contest. We have also donated time and money to our community including over \$6,000 in 2017.

We have several “Build Days” each year where we have projects covering home built transceivers, antennas, and digital equipment to allow members to inexpensively grow into new areas of the hobby. Each month we have at least one GOTA (Get On the Air) day where members and non-members can use club site equipment to learn about HF and new modes of operation. It is all about building our hobby, helping our community, building our skills and most of all having fun.

Award Winners

Amateur of The Year: Valerie Hotzfeld, NV9L

Valerie Hotzfeld NV9L, was first licensed in 2006. After being very active in her local amateur radio clubs and ARES, she discovered HF. This is when she became obsessed with DXing and contesting. In the past few years, she has enjoyed inviting new hams to her station to DX or contest.

She is a co-host on the show “Ham Nation” and has created several “how to” videos on YouTube for the ham radio community. She also enjoys delivering various presentations via Skype to amateur radio clubs across the U.S. She’s been the pilot or lead pilot for four major Dxpeditions.

She is currently the treasurer for her contest club and the prize chairman for W9DXCC and SMC-fest. In 2017, she became very active in public service; going to Texas after hurricane Harvey to help rescue small animals as well as being deployed to Puerto Rico with the American Red Cross for three weeks as part of the “Force of 50” providing critical amateur radio communications after hurricane Maria. Amateur radio has enriched her life, because of the challenges and great friends this hobby brings.



Technical Achievement Award: Chip Cohen, W1YW

Chip Cohen, W1YW has been a radio amateur for 52 years. Bitten by the antenna bug, he became a professional radio astronomer and astrophysicist, using the world’s biggest antennas at Arecibo, VLA, Haystack, NRAO, and many others.



While a professor at Boston University, he connected fractal geometry with antennas, pioneering a paradigm shift on how antennas are designed, what they make possible, and has seen fractal antennas enable millions, save lives, and make life easier.

Starting with simple flea market treasures 30 years ago, W1YW bootstrapped fractal antennas with modest gear and employed ham radio exclusively to prove out and report this new technology. Fractal antennas are ham-grown. He started Fractal Antenna Systems, Inc. with WA1ZWT (SK) in 1995, and is presently CEO. An inventor with 41 US patent, W1YW is also known for inventing the invisibility cloak, using fractal antenna techniques to make it possible.

Chip is an avid DXer with 355 countries, DXCC Top of the Honor Roll, and is a strong cheerleader for technical ‘innovation culture’ through ham radio. He is a Life Member of the ARRL, and Fellow of the Radio Club of America, where he served as Vice President and presently as Director.

Special Achievement Award: Heriberto Perez, KK4DCX; Victor Torres, WP4SD and Emilio Ortiz JR, WP4KEY

Puerto Rico was devastated by hurricane Maria, a powerful category 4 storm, the strongest to make landfall in PR in 85 years. It came ashore on Sept, 20, 2017 with 155 mph winds. All the communication services and utilities collapsed.

On Sept. 21, 2017, Ham Radio operator Herb Perez KK4DCX mobilized his radio equipment to the local public broadcasting station Radio Sol in San German, along with Ham Radio Operators Victor Torres WP4SD and Emilio Ortiz JR. WP4KEY. The team immediately set up the gear and began the extraordinary mission of health and welfare traffic to thousands of family members across the continental USA.

Thanks to the support and help of more than 45 Ham Operators across the USA more than 4000 messages were effectively delivered via phone calls to family members in the United States, bringing tearful joy between family love ones.



Left: Heriberto Perez, KK4DCX; center, Victor Torres, WP4SD and right, Emilio Ortiz JR. WP4KEY.



Previous Award Winners (continued)

Amateur of the Year

- 1955..William C. Jenney, W8FYW
Benjamin S. Zieg, W9EHU, K4OQK
1956..Edmund C. Ryan, W8LRR
1957..Ralph Crammer, W8VHO
1958...Rev. C. Lynn White, K4CC
1959..Harlow Lucas, W8QQ
1960..Paul Woffe, W8IVE
1961..Ed Bonnet, W8OVG
1962..Dana Cartwright, W8UPB
1963..Chester Funk, K8EUF, K7ZKL
1964..H. Ruble, W8PTF
1965..Carl B. Snyder, W8ARW
1966..Robert K Caskey, W9DNQ
1967..Jack Gray, W8JDV
1968..Elmer Schubert, W8ALW
1969..Wayne Walters, W9DOG
1970..Kay Anderson, W8DUV
1971..Al Michel, W8WC
1972..Don C. Miller, W9NTP
1973..Ray E. Myers, W6MLZ
1974..Barry Goldwater, K7UGA
1975..Richard A. Daniels, WA4DGU
1976..Joseph M. Hertzberg, N3EA
1977..Rafael M. Estevez, WA4ZZG
1978..Frank Schwab, W8OK
1979..George G. Batterson, W2GB
1980..Wayne Overbeck, N6NB
1981..Eric C. Shalkhauser, W9CI
1982..Robert G. Heil, Jr., K9EID
1983..Katashi Nose, KH6IJ
1984..Dave L. Bell, W6AQ
1985..John J. Willig, W8ACE
1986..Roy Neal, K6DUE
1987..Carole Perry, WB2MGP
1988..Bill Bennett, W7PHO
1989..Bill Pasternak, WA6ITF
1990..Stephen Mendelsohn, WA2DHF
1991..John B. Johnston, W3BE
1992..Richard Baldwin, WIRU
1993..Harry Dannals, W2HD
1994..Perry Williams, WIUED
1995..Rosalie White, WA1STO
1996..William A. Tynan, W3XO
1997..Leo I. Myerson, WØGFQ
1998..Andrew J. Feldman, WB2FXN
1999..Kenneth M. Miller, K6IR
2000..Martie Laine, OH2BH
2001..George Jacobs, W3ASK
2002..Alanson “Hap” Holly, KC9RP
2003..Larry “Tree” Tyree, N6TR
2004..David Kopacz, KY1V
2005..Alan S. Kaul, W6RCL
2006..Gordon West, WB6NOA
2007..Jim Haynie, W5JBP
2008..Ward Silver, NØAX
2009..Wade D. Hampton, K4ITL
2010..Jim Stafford, W4QO
2011..Shirley Roberts, N8LX
2012...S. Suri, VU2MY
2013..None Given
2014..Dr. Larry E Prince, W4RA
2015..Tim Duffy, K3LR
2016..Joe Taylor, K1JT
2017..Frank Bauer KA3HDO



Previous Award Winners (continued)

SPECIAL ACHIEVEMENT AWARD

1977 South American Moonbounce (EME) Expedition Team of the Mt. Airy VHF Radio Club Inc., Philadelphia, PA Elliott Weisman, K3JJZ Anthony Sousa, W3HMU S. William Olsan, W3HQT Walter Boldman, K3BPP Daniel Mitten, WA3NFU Socrates Martinez, WB3AFY Bohner Aguilar, WB3AOP	1993 Robert Adams, WA9ZMO
1978 Ronald Moorefield, W8ILC	1994 Russ Kroeker, N7HGE
1979 Edward Tilton, W1HDQ	1995 Ed Briner, WA3TVG
1980 Joseph Merdler N6AHU	1996 John Kraus, W8JK
1981 Bill Pasternak, WA6ITF, Bill Orenstein, KH6IAF	1997 Joseph J. Fairclough, WB2JKJ
1982 Bruce Humphrys, KØHR	1998 John B. Bellows, Jr., KØQB
1983 Lenore Jensen, W6NAZ	1999 Paul D. Lieb, KH6HME
1984 Ethel Smith, K4LMB	2000 A. Prose Walker, W4BW
1985 Judith Frye, KG8P	2001 Frank Bauer, KA3HDO
1986 Rev. Michael Mullen, C.M., WB2GQW	2002 Dr. Owen Garriott, W5LFL
1987 Arthur Gentry, W6MEP	2003 Jonathan Taylor, K1RFD
1988 Fred Hammond, VE3HC	2004 George S. Wilson III, W4OYI
1989 Phil Karn, KA9Q	2005 D. Bharathi, VU2RBI
1990 Paul Thomson, KCØVG	2006 Riley Hollingsworth, K4ZDH
1991 Nate Brightman, K6ØSC	2007 Ed Hare, W1RFI
1992 Ned Raub, W1RAN	2008 Emery McClendon, KB9IBW
	2009 Richard Garriott, W5KWQ
	2010 Richard "Dick" Ross
	2011 Fred L. Lloyd, AA7BQ
	2012 Steve Betza, WZ2V
	2013 George a. Thomas, Jr, W5JDX
	2014 David Sumner, K1ZZ
	2015 Thomas C. Medlin, W5KUB
	2016 Stan Horzepa, WA1LOU
	2017 S. Ram Mohan VU2MYH

TECHNICAL EXCELLENCE AWARD

1984 Lyle Johnson, WA7GXD	2002 Allen Waller, K3TKJ
1985 ... Richard Whiting, WØTN	2003 Steve Dimse, K4HG
1986 M. E (Doug) DeMaw, W1FB	2004 Barry Sanderson, KB9VAK
1987 Henry (Hank) Oredson, WØRLI	2005 Dr. Jerry Sevick, W2FMI
1988 Lew McCoy, W1ICP	2006 Richard Illman, AH6EZ
1989 Byron Goodman, W1DX	2007 David Cameron, VE7LTD
1990 Bob McGwier, N4HY	2008 Thomas C. McDermott, N5EG
1991 Lou McFadin, W5DID	2009 Copthorne MacDonald, VY2CM
1992 Gerald Cromer, K4NHN	2010 Simon Brown, HB9DRV
1993 Dick Jansson, WD4FAB	2011 Roy W. Lewallen, W7EL
1994 Dick Newell, AK1A	2012 Joel R. Hallas, W1ZR
1995 Philip Ferrell, K7PF	2013 David Rowe, VK5DGR
1996 William Orr, W6SAI	2013 David M. Whitten, II, KD0EAG
1997 Al Ward, W5LUA	2014 David Freese Jr, W1HKJ
1998 Robert E. Bruninga, WB4APR	2015 Reverend George Dobbs, G3RJV
1999 Alfonso R. Torres, KP4AQI	2016 John S. Burningham, D.I.T, W2XAB
2000 Dr. H. Paul Shuch, N6TX	2017 Rob Brownstein K6RB
2001 Peter Martinez, G3PLX	



2018 ARRL/DARA Scholarships



Christopher W. Babineau, KK4QQV

Shortly after Christopher earned his ticket at the age of 14, he spent a large amount of time working the 10-meter band available to Technician-class operators, and logged his first QSO with a ham in Argentina. This contact sparked his interest in DXing, as well as an interest in electronics, computers, and the internet. He also loves to build and tinker with custom computers. Christopher has participated in a number of Sweepstakes, Islands on the Air events at Sunset Beach, NC, the 2013 Pennsylvania QSO Party, the 2014 and 2016 Virginia QSO Party, and the 2015 IARU HF Championship. In high school, Christopher enjoyed working on school theater productions, competing with the varsity swim team, and volunteering in his community. He is now attending Virginia Polytechnic Institute and State University to earn a degree in computer engineering.

Owen Cruise, NØWEN



Owen is completing his freshman year at the University of California, San Diego in La Jolla, California (UCSD). He graduated from Mt. Carmel High School in San Diego with a GPA of 4.2. Owen joined the Mt. Carmel High School Amateur Radio Club (W6SUN) as a high school freshman, and he was very active until graduation, holding the role of club president in his senior year. As a club member, Owen worked with engineer mentors to plan and execute high-altitude balloon launches with various payloads, helped to get a vanity call for the club, assisted with licensing classes, and worked to expand the club membership. Owen also participated in several ARRL Field Days, is an ARRL member and registered VE, and operated the radio station aboard the USS Midway (NI6IW). Owen is now active with the UCSD Amateur Radio Club and is working toward a degree in mechanical engineering. He has interned with Northrop Grumman and currently holds an Amateur Extra-class license.

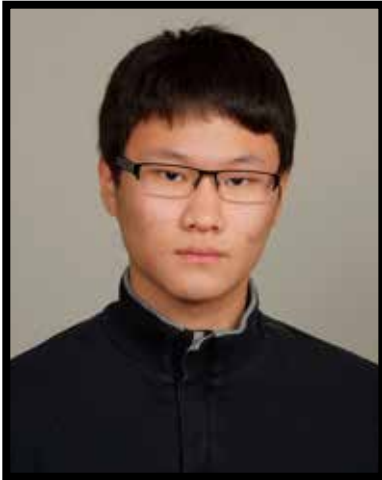
Marissa Cartwright, KEØBGH



Marissa is attending the Honors Program at Coe College in Cedar Rapids, Iowa, and earned her Technician license in 2014. While in high school, she was in the Honor Society, and was also active in the marching and jazz bands, the symphony, choir, 4-H, multiple sports, and many other activities. Marissa has also participated in ARRL Field Days and several DX activities, and she volunteers at community events, saying she has a deep appreciation for the role Amateur Radio plays in emergencies. She has an avid interest in the environment and is a certified volunteer water tester for Iowa, and is working toward dual-degrees in environmental science and biology.



2018 ARRL/DARA Scholarships



Daniel Guo, KEØCLZ

Daniel is from Omaha, Nebraska, and entered the University of Nebraska-Lincoln this past fall. Daniel was active in his high school Amateur Radio Club, and he also participated in the Engineering and Robotics Clubs and the marching and jazz bands. Daniel says he learned about Amateur Radio through his friends, and the group built their own radio transceivers to talk to each other through Morse code. Besides learning about the science behind radios, Daniel loves to meet interesting people over the air. At the University of Nebraska, Daniel is studying computer science to expand his technological skills and hopes to one day contribute to the advancement of science in our society.



Cami Price, KD8ILG

Cami earned her Technician license when she was just 9 years old with help from her grandfather (N3LWM) and father (K8WFL). She loves being able to talk to people around the world and help her community. Cami said, “When I was younger, I loved mail day because I had a competition with my grandfather to get the most QSL cards.” Cami is an active member of Ohio ARES, participating in drills, nets, and training. She is also a member of ARRL, the Radio Society of Ohio, the Young Ladies Radio League, and has worked ARRL Field Days, portable ops, wires-X, and digital. She is attending Lake Erie College in Ohio to earn degrees in forensic accounting and business.



Nicholas Sileo, K1NRS

Nicholas comes from a family of hams – his father, sister, three uncles, and his grandfather are all licensed. He said, “Amateur Radio is a tradition in our family, and is enjoyed by all of us.” Nicholas attends meetings at a local club with his father. At his high school in Parkland, Florida, Nicholas is an active volunteer in his community, helping at the Fort Lauderdale Museum of Discovery and Science and the YMCA. He is also an outstanding student, having received several academic awards and was in the Math Honor Society. Nicholas also participated in the high school’s marching and jazz bands. Nicholas is currently attending the University of Florida, majoring in engineering and computer science.



Dayton Hamvention Past General Chairs

1952-1955.....	John J. Willig, W8ACE	*
1956-1957	Rudy Plak, W8ZOF (W6TIK)	*
1958	Frank J. Schwab, W8YCP (W80K)	*
1959-1960	Ed F. Bonnet, W80VG	*
1961-1962	Joseph H. McNutt, W8GFN	*
1963-1964	Sheemon A. Wolfe, W8WJL	*
1965-1966	Edgar A. Smith, W8RKL	*
1967	Robert Wilcox, K8EJI	*
1968-1969	Jack Ohmart, K8CUA	*
1970-1971	Kenneth E. Mills, W8RLY	
1972.....	George L. Shearer, WA8IHC (KE8WJ)	*
1973-1976	Ted L. Suarez, K8BSC	*
1977	Wallace M. Wright, WA8ZCA (AD8N)	*
1978	John Basilotto, W5GI (WA8ZAN)	*
1979	Sandford H. Cohen, W8JEZ	*
1980-1981	Noel K. McKeown, WB8QQC	
1982-1983	Harold A. Judd, K4GZL	*
1984-1985	Jack Mitchell, AA8Q	
1986-1987	Jim Simpson, WB8QZZ	
1988-1989	Bill McNabb, WD8SAY	
1990	Ed Hillman, N8ALN	
1991-1992	Ross Brown, WA8DQH	
1993-1994	Dave Grubb, KC8CF	
1995-1996	Ken Allen, KB8KE	
1997-1999	Dick Miller, N8CBU	*
2000-2002	Jim Graver, KB8PSO	
2003.....	Pat Neff, N8IGS	
2004- 2005	Gary Des Combes, N8EMO	
2006-2007	Jim Nies, WX8F	
2008-2009	Carl Rose, K8CPR	
2010.....	Lee Boeckerman, W8LFB	
2011-2012	Michael Kalter, W8CI	
2013-2014	Charles Kaiser, KD8JZR	
2015-2016	Jim Tiderman, N8IDS	
2017.....	Ron Cramer, KD8ENJ	

* Silent Key



Past DARA Presidents

1926	C.A. Petry..... 8AWN	1972	Budd Chaney..... WA8UUX
1927	C.A. Petry..... 8AWN	1973	Wesley Duckwitz..... W8IPT
1928	Lou Driggs..... W8HEQ	1974	Ken Mills..... W8RLY
1929	Ray Stotts	1975	Robert O. Wilson..... W8JRN
1930	Art John..... W8DMI	1976	Robert O. Wilson..... W8JRN
1931	Fred Rawson..... W8KKH	1977	Melvin L. Levy..... WA8YKV
1932		1978	Melvin L. Levy..... WA8YKV
1933	Fred Allen..... W8GER /W8FU	1979	William G. Ingling..... W8SVI
1934		1980	William G. Ingling..... W8SVI
1935	Dan C. McCoy..... W8CI/W8DG	1981	Victor M. Stauder..... N8FPF/WA2KOO
1936		1982	Victor M. Stauder..... N8FPF/WA2KOO
1937		1983	Thomas Holmes..... N8ZM
1938	Emil Henrich..... W8OVL	1984	Victor M. Stauder..... N8FPF/WA2KOO
1939		1985	Edgar "Red" Smith..... W8RKL
1940	Russ Gardner..... W8TPC	1986	Ray Smith..... KR8B
1941		1987	Ray Smith..... KR8B
1942	Cheever Ely..... W8LJ	1988	Al Torres..... KP4AQI
1943	Cheever Ely..... W8LJ	1989	Thomas Holmes..... N8ZM
1944	Cheever Ely..... W8LJ	1990	Thomas Holmes..... N8ZM
1945	Hyde E. Ruble..... W8PTF	1991	Ron L. Moorefield..... W8ILC
1946	Hyde E. Ruble..... W8PTF	1992	Thomas Holmes..... N8ZM
1947	Russ Hardy..... W8AQT	1993	Victor M. Stauder..... N8FPF/WA2KOO
1948	Clem Wolford..... W8ENH	1994	Thomas Holmes..... N8ZM
1949	John Willig..... W8ACE	1995	Dave Coons..... WT8W
1950	Clem Wolford..... W8ENH	1996	Dave Coons..... WT8W
1951	Frank Schwab..... W8YCP/W8OK	1997	Michelle Ervin..... KA9FUL
1952	Frank Schwab..... W8YCP/W8OK	1998	Gary DesCombes..... N8EMO
1953	Hyde E. Ruble..... W8PTF	1999	Gary DesCombes..... N8EMO
1954	Rudy Plak..... W8ZOF	2000	John Phillips..... N8ZGT
1955	Allan D. Gunston..... W8GQ	2001	Reuben Meeks..... W8GUC
1956	Andrew B. Henderson..... W8WYL	2002	Reuben Meeks..... W8GUC
1957	Robert G. Siff..... W8QDI	2003	Mike Buehler..... N8XGA
1958	Ed F. Bonnet..... W8OVG	2004	Mike Buehler..... N8XGA
1959	Joseph H. McNutt..... W8GFN	2005	Michael Kalter..... W8CI
1960	Walter G. Burdine..... W8ZCV	2006	Michael Kalter..... W8CI
1961	Robert F. Zimmerman W8DPW/W8ZM	2007	Jim Simpson..... WB8QZZ
1962	Hyde E. Ruble..... W8PTF	2008	Jim Simpson..... WB8QZZ
1963	Richard D. McFadden..... K8ERE	2009	Steve Coy..... K8UD
1964	Ted Suarez..... K8BSC	2010	Jim Simpson..... WB8QZZ
1965	Robert E. Wilcox..... K8EJI	2011	Steve Coy..... K8UD
1966	Jim Dakin..... K8BPC	2012	Don Dubon..... N6JRL
1967	Ken Mills..... W8RLY	2013	Don Dubon..... N6JRL
1968	George Shearer..... WA8IHC/KE8WJ	2014	Reuben Meeks..... W8GUC
1969	George Shearer..... WA8IHC/KE8WJ	2015	Don Dubon..... N6JRL
1970	Owen Vance..... WA8PHW	2016	Andrew Anderson..... N8VES
1971	Jules Wittebort..... W8SE	2017	Andrew Anderson..... N8VES



Dayton Amateur Radio Association

DARA Board



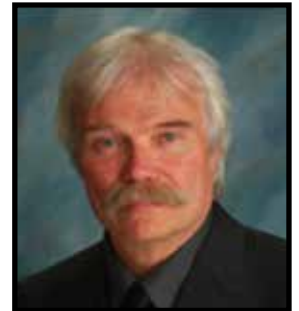
Sam Anderson, N8VES
President



Dan Puckett, W8AAU
Vice President



Nancy Krodel, KC8RMT
Secretary



Michael Kalter, W8CI
Treasurer



Jeff Devoe, K8JTD
Senior Trustee



Jim Tideman, N8IDS
Junior Trustee

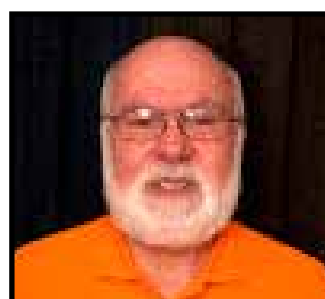


Ron Cramer, KD8ENJ
Hamvention General Chair

Planning Council



Rob Lunsford, KB8UEY



Charles Kaiser, KD8JZR



Carl Rose, K8CPR

