



**Dayton Hamvention®  
2019 ARRL  
National Convention**



**MENTORING THE NEXT GENERATION**

**HAMVENTION<sup>®</sup> 2019**



# of Welcome!

# Dayton Hamvention® to GREENE COUNTY



The Greene County Convention & Visitors Bureau would like to welcome Dayton Hamvention to Greene County and wish them the very best success.

To find out more about Greene County stop by our booth and pick up a FREE Visitors Guide or visit our web site at [www.greencountyohio.org](http://www.greencountyohio.org)



*Stop by our booth and pick up a FREE souvenir collectors pin!*

[greencountyohio.org](http://greencountyohio.org)

1221 Meadow Bridge Drive, Beavercreek, OH 45434 • 937.429.9100

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# Welcome to the 2019 Dayton Hamvention

## Mentoring the Next Generation

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Welcome and thank you for joining us at HV!9. Since our move to Greene County, we have learned quite a bit about our new home at the Expo Center. Our first year was a challenge with big lessons learned. Based on those lessons we accomplished some very major improvements (paving the flea market area, clear span tents, and additional inside space, etc.). This year we have continued working with the community and investing in our new home with additional improvements.

The theme “Mentoring the Next Generation” is very personal to me. It was a Jr. High School teacher that got me started in Ham Radio. My “Elmer” WB4WSG (SK) never really knew the impact that he had on my professional life. As we travel through life, we will meet special people, and a few of them, will have a profound impact on our lives. It is important to remember those who have helped us. In remembering our “Elmer’s”, we can pay them homage by being available and helping others along their journey. The world of Ham Radio has offered me many great opportunities. It is now my turn, to pay it forward!

**I challenge everyone this year to make an effort to improve Amateur Radio.** Pick something you are passionate about, mentoring, DXing, digital modes, field day, or supporting club activities, etc. By getting involved you never know the positive impact you may have on someone else’s life.

On behalf of all the volunteers, the Dayton Amateur Radio Association’s Board of Directors, and my Assistant General Chair, Rick Allnutt, WS8G, thank you for being here and being a part of Hamvention history.

Jack Gerbs, WB8SCT  
Hamvention General Chair 2019

Jack Gerbs, WB8SCT  
General Chairman



Rick Allnutt, WS8G  
Assistant General Chairman



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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 Charles Wright, K8MDB

## Souvenir Program Committee

Chair ..... Charles Wright, K8MDB  
Asst. Chair..... Linda Kalter, W8AAV  
Proofreaders ..... Ron Cramer, KD8ENJ  
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 15, 16, & 17, 2020

May 20, 21, & 22, 2021

May 20, 21, & 22, 2022

## 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

## 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. - 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.
- 9:15 a.m. - 5:00 p.m. Forums and scheduled activities.
- 9:00 a.m. - 2:00 p.m. Amateur Radio License Exams.
- 10:00 a.m. - 4:00 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. - 4:00 p.m. Hourly prize drawings.
- 9:00 a.m. - 2:00 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. 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 in Forums 1 & 2.
  - 1:00 p.m. Prize Drawing (unclaimed hourly prizes, followed by main prizes) in Forums 1 & 2.
- Bus Service will be available for a short time after the main prize drawing.

## 2019 Hamvention Souvenir Patches & Lanyards

### The DARA Amateur Radio

Boy Scout Venturing Crew 73 is proud to announce our 2019 souvenir patch.

### Celebrating 50 years of AMSAT in Space.

We are proud to be allowed to promote AMSAT's 50 years of Ham Radio in Space on this year's patch. Be sure and get your patch early.

We also will be offering the DAYTON HAMVENTION 2019 souvenir lanyards.

We will be in two locations this year, a tent just outside the main gate and Building 4 booth 4010 just up the aisle from the Prize Booth.

**2019 Souvenir PATCH..... \$ 5.00**

**All lanyards include laminating your Dayton Hamvention admission ticket.**

**2019 Souvenir lanyards..... \$ 4.00**

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

### Hours

Friday & Saturday  
Sunday

### Outside Tent

7:30 am - 3 pm  
Closed

### Inside Booth 4010

9:00 am - 4 pm  
9:00 am - noon

**While supplies last.**

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

**Thank you for supporting the DARA Amateur Radio Boy Scout Venturing Crew 73.**



*The 2018 show was only open 30 minutes on Friday when we ran out of Patches. We have more this year but expect them to sell quickly.*



# Services

## INFORMATION

Information Booths are located inside the main pedestrian gate, outside the main pedestrian gate and rear walking gate to the flea market.

## DARA MEMBERSHIP

DARA membership is located in Building 4, "Volta". (See map pages.)

## EMERGENCY MEDICAL CARE

Hamvention will have medical staff 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. Items can be retrieved at this location on Friday between 9 to 5pm, Saturday between 9 to 5pm, and Sunday 9 to 1pm.

## 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.

## FREE LICENSE EXAMS

Have you been thinking of 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 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 17th and on Saturday, May 18th. Hours for testing both days will be 9:00 a.m. until 2:00 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.

### Each applicant must have the following:

\*Due to recent changes by the FCC it is very important that new license applicants obtain an FRN before arriving to test. Failure to do so will delay being able to test

1) An FCC Registration number (FRN)

An FRN may be obtained by visiting the FCC at-<https://apps.fcc.gov/cores/userLogin.do>

[fcc.gov/cores/userLogin.do](https://apps.fcc.gov/cores/userLogin.do)

From this page click on the REGISTER button and follow the instructions to create a username account. Once you have created a username account you will receive an email from the FCC with a link to confirm the account and apply for an FRN. Be sure to copy down the FRN number you are issued and bring it with you to the testing location.

2) Their current license (original copy, Reference Copy or Official Copy) if applicable.

3) The original and a copy of any CSCE or other paperwork (expired licenses, FCC letters, etc.) being submitted for element credit.

4) Identification (One 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 as we have a limited number of basic calculators to loan. Use of smart phones and programmable calculators is prohibited.

## SHIPPING SERVICE

The US Postal Service offers freight service from their booth in Watt Hall 6411 and 6412. Postal dropoff available during regular show hours.

Freight hours are as follows:

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

(Hours may vary: check the W8BI booth for changes)

## SPECIAL EVENT STATION

Work the world from hamvention as w8bi at the 2019 special event station!

The station, located in the tesla building – E2 in spaces 2706 and 2707 will be operating during normal hamvention hours.

Frequencies (+/- qrm) will be: 40m, 20M, 17m, 10m.

CW will be tried on the hour as conditions permit. The station will have paddles for CW.

To operate the station you must have a copy of your license available.

## TALK-IN FREQUENCIES

For directions and assistance in the Dayton area during your visit to Hamvention, contact "Talk-In" on the DARA Repeater 146.94(-) with a backup frequency of 146.985(-) pl 123.0. 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.



# Transportation & Parking

## TRUCK & TRAILER PARKING

Semi-trucks and/or other oversized vehicles will park in the impound/tour bus lot. Use Gate 5 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, enforced by Greene County Sheriff. All vehicles must be removed by 9:00 p.m. Taxi lot across from gate 2. The city of Xenia has limited overnight truck parking located at their service garage facilities, 757 Towler Road, on a first come first serve basis. No shuttle service will be available from this location. Tour buses can unload at the bus station located at the swimming pool site.

## 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.

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.

## ADA Handicap Parking

We have close to a thousand ADA spaces, most of which are on grass. They can be accessed either through Gate 3 or Gate 4 off Fairground Rd. You must have a state issued placard or license plate. Please have these visible before entering Gate 3 or Gate 4 off Fairground Rd. No claims of ADA compliance will be honored without a state issued placard or license plate. Space is available on a first come first served basis.

The logo for Waffle House, featuring the words "WAFFLE" and "HOUSE" in a bold, yellow, sans-serif font with black outlines, arranged in two rows.

*J. Thomas & Co. Inc.*  
*Proudly serving Ham Radio Operators*  
*since 1983*

The logo for Waffle House, featuring the words "WAFFLE" and "HOUSE" in a bold, yellow, sans-serif font with black outlines, arranged in two rows.

## SHERIFF'S DEPT. TEXT MESSAGING SYSTEM

For traffic, weather, and other emergency messages:

Text "Hamvention19" to 888777



## 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>



# 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!





The Dayton Convention & Visitors Bureau Welcomes

# HAMVENTION

**DAYTON**  <sup>TM</sup>

**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](http://daytoncvb.com).



@daytoncvb

#DaytonHamvention #DiscoverDayton



800.221.8235 [daytoncvb.com](http://daytoncvb.com)

# 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 64 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

### QRP ARCI FDIM (Four Days in May)

May 16-19, 2019

Registration at QRPARCI.org

Holiday Inn, Fairborn, Ohio

-Wednesday, May 15 Registration

-Thursday, May 16 QRP Symposium

-Thursday, May 16, 8-10 pm

Vendor Night. Free of charge

-Friday, May 17, 8-10 pm

QRP Club Night. Free of charge.

Homebrew Contest

### Contest Super Suite

**Wednesday, May 15 – Sat, May 18, 7:00 pm – 2 am**

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

Harding, McKinley, Garfield and Harrison rooms

### Wednesday, May 15

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 16 7 pm

Harding, McKinley, Garfield and Harrison Rooms hosted by MRRC, NCC, FRC.

Pizza sponsored by PVRC 11:00 pm

### Friday, May 17 7PM

Harding, McKinley, Garfield and Harrison Rooms hosted by MRRC, NCC, FRC.

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

### Saturday, May 18 7PM

Harding, McKinley, Garfield and Harrison Rooms hosted by MRRC, NCC, FRC.

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 UHF radio stations. Winlink is currently promoted by the ARRL and ARES organizations as a primary EmComm support tool.

**Amateur Satellite Demonstrations Outside Main Entrance- Maxim Hall (Building 1) Friday, Saturday, Sunday 16-19, May 2019, 8:00-16:30 pm EDT**

## Friday Affiliated Events

### ATV Friday Night Dinner

Saturday, May 18, 6:30-9:30 pm at China Garden Buffet, 112 Woodman Dr., Dayton, Ohio 45431 (Airway Shopping Center).

### AMSAT Dinner

**Thursday, 16 May 2019, 6pm-8pm**

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. Bring some friends and have a great time the night before Hamvention.

### Contest University

Thursday, May 16, 7am – 5pm

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

Advance registration is needed. <http://contestuniversity.com>

### TAPR/AMSAT Banquet

**Friday, 17 May 2019, 6:30pm-9pm**

Kohler Presidential Center on Friday at 18:30 EDT.

Tickets (\$40 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 online 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 – 27th Annual event

**Friday, May 17 Presidential Ballroom, 6:00 pm social hour, 7:00 pm dinner**

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

Speaker- Ted Rapaport, N9NB

Limited seating - Reservations in advance only

<http://www.topbanddinner.com>



# Affiliated Events

## Collegiate Ham Radio Dinner

Friday May 17, 6:30pm – 9pm

Fox & Hound, 2661 Fairfield Commons Blvd,  
Beavercreek, OH 45431

Organizer: Magda Moses KM4EGE, on behalf of the  
Virginia Tech Amateur Radio Association  
Contact: magda14@vt.edu (571) 355-8582  
Facebook Event Page: [https://www.facebook.com/  
events/685349425216265/](https://www.facebook.com/events/685349425216265/)

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.

This event is being organized by Magda Moses, KM4EGE, on behalf of the Virginia Tech Amateur Radio Association. Everyone is welcome! Feel free to contact Magda with any questions at magda14@vt.edu. RSVPs are highly encouraged and appreciated but not required.

## ATV Friday Night dinner.

May 17, 6:30-9:30 pm at China Garden Buffet, 112 Woodman Dr., Dayton, Ohio 45431 (Airway Shopping Center). \$11.99 (937-781-9999) All welcome. Dinner presentations and door prizes.

## SWODXA Dinner

Friday, May 17, 6 PM  
The Dayton Marriott  
1414 S. Patterson Blvd. Dayton, Oh 45409  
Cash bar- 5:30-11 pm  
[info@swodxaevents.org](mailto:info@swodxaevents.org)

## Saturday Affiliated Events

### Annual CW Pileup Competition

Kansas City DX Club Hospitality  
Dayton Crowne Plaza Hotel-Suite 525  
Saturday night beginning at 8PM

### Contest Dinner – 27th Annual event

Saturday, May 18 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>

Master of Ceremonies: John Dorr, K1AR

Dinner Speaker: Ted Rappaport, N9NB

2019 CQ Contest Hall of Fame Inductions

Many contest operators from around the world attend this event. If you enjoy radio contesting, you do not want to miss this Contest Dinner!

COME VISIT US AT BOOTHS 3208-3210  
SHOW US THIS AD AND RECEIVE A **FREE GIFT!**

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OH 45385



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00700



# 2019 Dayton Hamvention Committee



**Row 1 (Left to Right):** Rick Allnutt WS8G, Leah Dalton N/C, Melissa Markland KD8LZH, Susan Jebens KD8AFP, Janese Brooks KD8DGB, Linda Kater W8AAV, Liz Klinc KE8FMJ, Jack Gerbs WB8SCT, Hazel Everetts N8PTL, Janey Ruminiski KB8PME, Nancy Krodel KC8RMT, Randy Midkiff WB8ART, Gary Mullins K8UW, Jim Storms AB8YK

**Row 2:** Dave Crawford KF4KWV, Charles Wright K8MDB, Brian Markland N8UDQ, Jeff Ullery KD8SHE, Bob BakerN8ADO, Jeff Everetts N8IBW, Henry Ruminiski W8HIR, Phil Gregg KC8GLA, Mike Buehler N8XGA, Jim Tideman N8IDS, Ron Cramer KD8ENJ

**Row 3:** Mike Crawford KC8GLE, Jon Thurner KB8SRQ, Richard Weiss AG6IG, Frank Beafore WS8B, Jim Schoettinger W8PLZ, Jim Nies WX8F, Keith Yarger KD8UYT, George Ewing WD8NHI, Phil Brown AC8UW

**Row 4:** Craig Miller KD8IJN, Chris Jebens KZ8XU, Dan Puckett W8AAU, Terry Scott NV8E, Gary Des Combes N8EMO, Reuben Meeks W8GUC, Dave Forbes KD8FO, Charles Kaiser KD8JZR, Dave Tritch N8YFQ, Steve Coy K8UD, Mark Atwell KD8DGH, Tom Gross KD8VLS

**Row 5:** Rob Gauder WD8CXV, Larry Sack N8QNM, Gary Sammons W9SAM, Ron Moorefield W8ILC, Joe Muchnij N8OOD, Dan Minnix KD8YNG, Steve Koogler K8DZ, John Mathis WA5FAC, Dave Smith KE8HNV, Rick Durrenberg KJ6OOM, Mark Tessneer KB8ZR, William Serrato W8CAN, Jeff DeVoe K8JTD



# 2019 Dayton Hamvention Committee

## Administration

General Chairman Jack Gerbs, WB8SCT | Assistant General Chairman Richard A Allnutt, WS8G

## COMMITTEES

Agency Liaison.....	Liaison.....	Cramer	Ron.....	KD8ENJ
Ambassador-at-Large.....	Ambassador at Large.....	Moorefield	Ron.....	W8ILC
Ambassador-at-Large.....	Ambassador at Large.....	Des Combs	Gary.....	N8EMO
Finance.....	Chair.....	Kalter	Michael.....	W8CI
Finance.....	Assistant Chair.....	Beafore	Frank.....	WS8B
Incoming Mail.....	Chair.....	Yarger	Keith.....	AD8AC
Information-Phone Line.....	Co-Chair.....	Roberts	Lynn.....	N8LXX
Phone Line/Info.....	Co-Chair.....	Roberts	Shirley.....	N8LX
Booth Tracker.....	Chair.....	Coy	Steve.....	K8UD
Committee & Volunteer Services.....	Co-Chair.....	Everetts	Hazel.....	N8PTL
Committee & Volunteer Services.....	Co-Chair.....	Everetts	Jeff.....	N8IBW
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
ARRL Relations.....	Liaison.....	Tessneer	Mark.....	KB8ZR
Open House.....	Chair.....	Lunsford	Rob.....	KB8UEY
IT Infrastructure.....	Chair.....	Gerbs	Jack.....	WB8SCT
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
Camping.....	Chair.....	Crawford	Mike.....	KC8GLE
Flea Market.....	Chair.....	Tritch	Dave.....	N8YFQ
Flea Market.....	Assistant Chair.....	Coy	Steve.....	K8UD
Inside Exhibits.....	Chair.....	Markland	Brian.....	N8UDQ
Inside Exhibits.....	Assistant Chair.....	Berger	Mike.....	WD8OMX
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
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
Webmaster.....	Chair.....	Markland	Brian.....	N8UDQ
Webmaster.....	Assistant Chair.....	Ruminski	Henry.....	W8HJR
Live Streaming.....	Assistant Chair.....	Pucket	Dan.....	W8AAU
Live Streaming.....	Chair.....	Simpson	Jim.....	KF8J
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.....	Allnutt	Rick.....	WS8G
International Relations.....	Assistant Chair.....	Morton	Paul.....	KG8XY
License Exams.....	Chair.....	Jebens	Chris.....	KZ8XU
License Exams.....	Assistant Chair.....	Crawford	Dave.....	KF4KWW
Prizes.....	Chair.....	Klinc	Liz.....	KE8FMJ
Prizes.....	Assistant Chair.....	Gelm	Chuck.....	NC8Q
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.....	Assistant Chair.....	Smith	David.....	KE8HNV
Communications.....	Chair.....	Baker	Bob.....	N8ADO
Communications.....	Assistant Chair.....	Brooks	Janese.....	KD8DGB
Golf Carts.....	Chair.....	Buehler	Mike.....	N8XGA
Golf Carts.....	Assistant Chair.....	Richard	Weis.....	AG6IZ
Signs and Fences.....	Chair.....	Brown	Phil.....	AC8UW
Signs and Fences.....	Assistant Chair.....	Davis	Wes.....	KE8HAF
Parking.....	Chair.....	Gross	Tom.....	KD8VLS
Parking.....	Assistant Chair.....	Atwell	Mark.....	KD8DGH
Parking.....	Assistant Chair.....	Sammons	Sam.....	W9SAM
Security.....	Chair.....	Durrenberg	Rick.....	KJ6OOM
Security.....	Assistant Chair.....	Wright	Katie.....	

# 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!



## Time to resurrect your TS-930 & TS-940!



TS-930S Supply Upgrade Board



**Its Easy! See our on-line videos that show you how!**  
**k6iok.com**

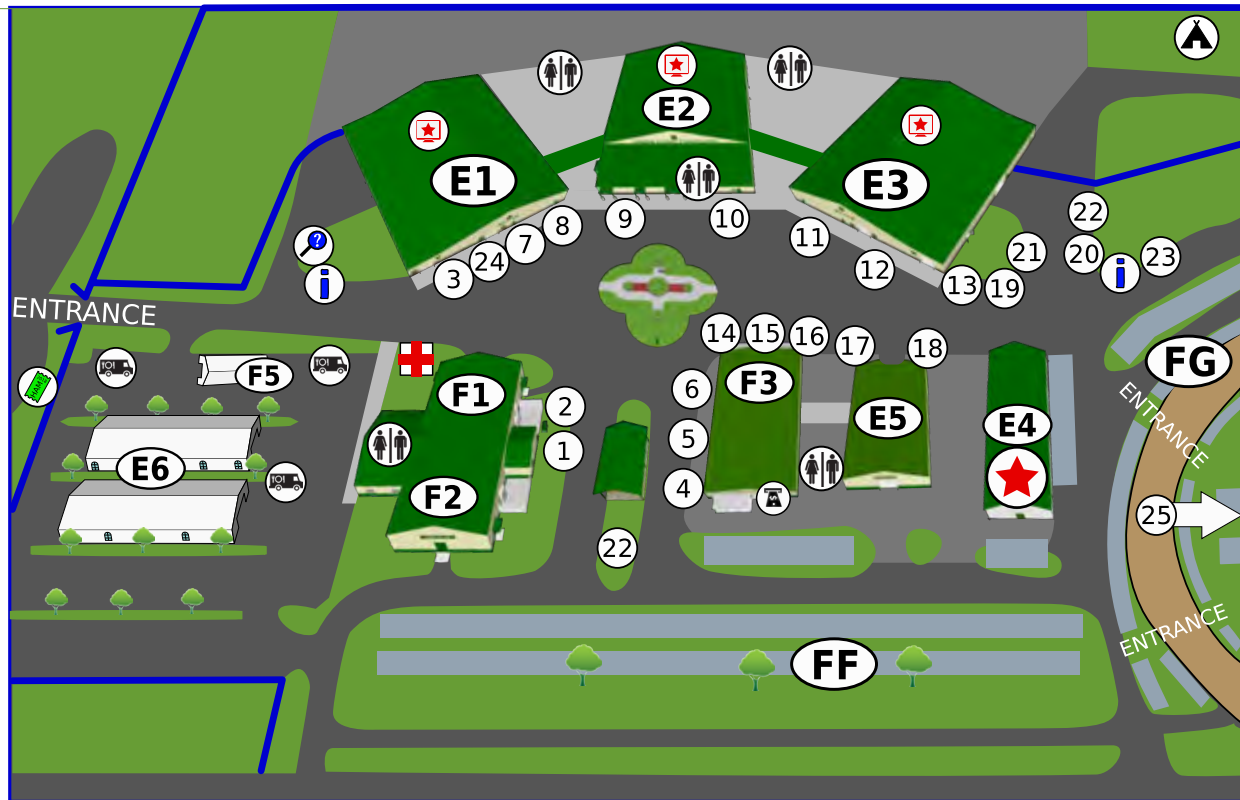
**See our Online Dayton Show Specials!**

**916-205-2200**



TS-940S Supply Upgrade Kit





Food Vendors

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



# Exhibitors

10-10 International Net, Inc. ....	3810	ELAD USA INC.....	3010-3012
4 Paws for Ability .....	6404	Elecraft, Inc. ....	1707-1711
405 Laserworks LLC.....	1907	Embroidery by Joel .....	6111
ABR Industries .....	3211	ESRC1 Corp.....	1101-1102
Air Chair .....	6501-6502	Expert Linears America, LLC.....	2603-2605
Airspy.US .....	1201-1202	EZ Hang Inc.....	1802
Albuquerque DX Association.....	1909	EZNEC Antenna Software.....	3811
ALEXLOOP.....	3109	Fast Track Ham Radio Books & Presentations .....	1908
Alfa Radio Ltd .....	2106,2206	First Class CW Operator`s Club.....	6409
Alinco Inc.....	3007-3008	FIRST Robotics .....	4004
Alpha Antenna .....	3207	Fists CW Club .....	6109-6110
Alpha RF Systems \ Dishtronix \ Ten-Tec .....	1807-1809	Flagpoles by Uncommon USA Inc. ....	3204
ALUMA TOWER COMPANY .....	6512	Flexradio Systems.....	2007-2009, 2107-2108, 2207-2208
Amateur Television Network.....	6101-6102	FM PALULUN.....	4111
Ameritron .....	1706,1806	Fox Hill Embroidery.....	6407
AMSAT (Radio Amateur Satellite Corp.) 1007-1010, 1107-1110		Gemmagic.....	6801-6803
AREDN / Miami Valley Mesh Alliance .....	1001	Gifts 4 HAMS / Kelly Laser Works .....	1205-1206
ARRL .....	2001-2004, 2101-2104, 2201-2204, 2301-2304, 2401-2404	GigaParts Live Demo.....	3607-3608
Arrow Antenna .....	1106	Gold Medal Ideas .....	3609-3611
Aventrade .....	3006	Grace Technology .....	4209
Batteries America.....	3808-3809	Great Scott Gadgets .....	5008
Begali Keys.....	2307-2308, 2407-2408	Green Heron Engineering.....	3103,3203
Belden.....	5303	Greene County Conv. & Visitors Bur. ....	6611
BHI Ltd.....	1911	Ham Nation .....	5305
Bird .....	4311	Ham Radio 2.0 - Yasme Foundation.....	4301-4303
Brian Klein Enterprises.....	6107-6108	Ham Radio Classroom .....	CLASS02
BRIDGECOM SYSTEMS, INC.....	1103-1104	Ham Radio Deluxe.....	5007
Buckmaster Publishing.....	5106	Ham Radio Outlet.....	2506-2507, 3307-3311
Buddipole.....	3003-3005	Ham Radio Workbench .....	3104
Cable Experts.....	1701-1702	HamEstate LLC .....	1801
Capitol Electronics, Inc.....	1005	HamSCI.....	4304
Christian Amateur Radio Fellowship.....	6309	Hamsource.....	3903-3906
Civil Air Patrol .....	6304	HamStudy.org .....	1902-1901
Collins Collectors Association .....	1003-1004	Hamvention Prize Booth .....	4500
Comet Antenna / Daiwa Meters .....	3304-3306	Heil Sound Ltd. ....	2701-2704
COMPACTenna .....	6609	HobbyPCB .....	1912
Connect Systems Inc. ....	6208	Huntsville Hamfest .....	4110
Courage Kenny Handiham Program.....	6602	Hustler / New-Tronics.....	1505-1506
CQ Communications, Inc.....	4307	Hy-Gain.....	1903-1904
Cushcraft Amateur Radio Antennas .....	1905-1906	Hytech Marketing .....	6804-6805
CW Operator`s Club.....	6608	ICOM America.....	2508-2509, 2608-2610, 2708-2709
DARA - International Relations .....	2601	Information Radio 1660.....	4005
DARA (Dayton Amateur Radio Association).....	2706-2707	Information Station Specialists .....	6503
DARA Membership.....	4006-4008	International Amateur Radio Union (IARU).....	2105
DARC .....	2503	iPortable .....	5205
Davis Instruments.....	6711-6712	Japan Amateur Radio League, Inc .....	2502
Dayton Convention & Visitors Bureau .....	4306	Jericho Prints .....	6205
Dayton Skywarn.....	4308.	JJ Surplus.....	6707
Debco Electronics .....	1301-1302, 1401-1402	JK Antennas.....	3101-3102, 3201-3202, 3301-3302
Diamond Antenna .....	3401-3406	JT Communications .....	3703
Digilent.....	3002	JVC Kenwood.....	1407-1411, 1507-1511
DX Engineering.....	1207-1210, 1308-1311	K2BSA - ARA & Radio Scouting.....	2205
DZKit.....	6610	K4USD Network Club.....	6504
Early Alert .....	5104	KB3IFH QSL Cards .....	6305
Ears To Our World.....	6510	L.I.E. Gifts .....	6704
E-Blox Inc .....	6508	LATSYS GmbH.....	6403

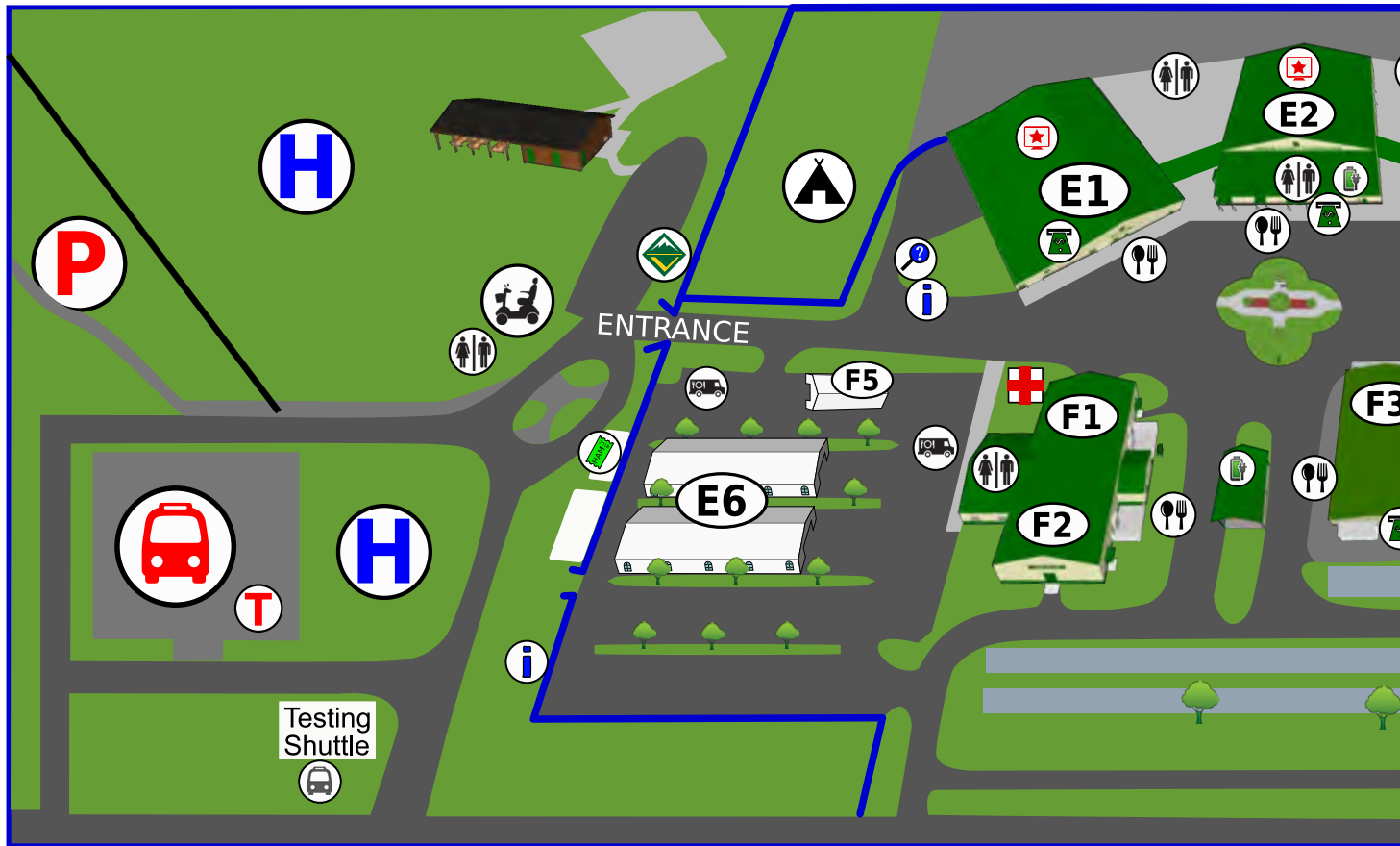


# Exhibitors

LeafFilter North, LLC.....	6511	RadioWavz.....	2606-2607
Libre Space Foundation.....	1006	Rescue Tape.....	3001
Lido Mounts.....	4106, 4206	RFinder, LLC.....	4013
Linux in the Ham Shack.....	5004	RF-KIT.de.....	1307
LnR Precision, Inc.....	3901-3902	Rig Expert.....	5105
Loop Antenna by I3VHF.....	3009	RT Systems.....	3805-3806
LUSO Super-Techno.....	3105-3106, 3205-3206	SATERN.....	6210-6211
M&P Coaxial Cables.....	1606	Scanner Master Corp.....	3303
M2 Antenna Systems, Inc.....	3107	Siglent Technologies USA, Inc.....	5207-5208
MARAC.....	6603	Sign Man of Baton Rouge.....	3701-3702
MARCO-Medical Amateur Radio Council.....	6308	Sign Man of Ohio.....	5304
Mark Enterprises, Inc.....	6604-6605	Sinbad Glue.....	5308
MARS, Combined MARS.....	6302-6303	SKCC Straight Key Century Club.....	4112
Mastrant - Gigaparts.....	3708-3709	Society of Amateur Radio Astronomers/Radio JOVE4207-4208	
MFJ Enterprises Inc.....	1603-1605, 1703-1705, 1803-1805	SSS Solution.....	1810
MicroLog by WA0H.....	5206	SteppIR Antennas Systems.....	1501-1502, 1601-1602
Midwest VHF/UHF Society.....	6708	SuperApex Corporation.....	4305
Millner-Haufen Tool Company.....	6705	Suspender Man.....	6310-6312
Mini-Circuits.....	3803	SwapMyRigs.com.....	6811
Mobilinkd, LLC.....	6703	Tactical Public Safety LLC.....	6812
Mr Gadgets.....	6505-6507	TAPR (Tucson Amateur Packet Radio).....	5009-5011
N3ZN Keys, LLC.....	1203-1204	Tarheel Antennas Inc.....	3704-3706
National Federation of the Blind & The Unseen Bean.....	2602	Tech Bond Solutions.....	6710
National Voice of America Museum of Broadcasting.....	1910	Tech in a Day Classroom.....	CLASS01
NOAA - National Weather Service.....	4308	TeleUP Inc.....	6408
NSIRadio.com.....	4211-4212	TEquipment.net & Rigo.....	2801-2803
Nuts & Volts / Servo Magazine.....	5003	The American Legion.....	6702
Nu-View 2.....	3804	The Competition.....	6709
NVIS/Codan Communications Consulting.....	6402	The R.F. Connection.....	5109-5110, 5209-5210
NW Digital Radio.....	1105	The Whistler Group.....	1503-1504
Ohlemacher's Wisconsin Meat and Cheese Products.....	6112	The Wireman.....	3908-3911
Old Old Timers Club.....	6204	Timewave Technology, Inc.....	5006
OM International Sideband Society.....	6509	Tower Electronics.....	3501-3502, 3601-3602
Open Research Institute.....	6203	Transel Corporation.....	3801-3802
Orison Corporation.....	6212	TXRX SYSTEMS, INC.....	5301-5302
Orlando HamCation.....	4109	Universal Radio, Inc.....	2005-2006
Pain Free Pillows.....	6107	US Postal Service / Dayton Stamp Club.....	6410-6412
Palstar Inc.....	5102-5103	US Tower Corp.....	3110-3111
PCnStuff, LLC.....	6105	Venture Crew 73.....	4010
Peet Bros. Company, Inc.....	5202-5204	Vibroplex.....	1607-1609
PolEx Technologies.....	6810	W2IHY Technologies.....	5001-5002
Portable Rotation.....	3108	W5KUB.....	2804-2805
Pro Audio Engineering.....	1610	W5YI Group-Gordon West Radio School.....	2306,2406
QRP - ARCI.....	5107-5108	WA8JBT.....	6607
QRP Labs.....	6612	Webster Communications Inc.....	6807-6809
QRP Works.....	1611	West Mountain Radio.....	3208-3210
QSK, LLC.....	4210	Western Case Company.....	6202
QSO Radio Show.....	4312-4313	Wild Sage Native American Jewelry.....	4310
Quarter Century Wireless Association, Inc.....	6401	Wired Communications.....	5309-5311
Quicksilver Radio Products.....	3503-3506, 3603-3606	Wolf River Coils LLC.....	1002
R & L Electronics.....	1303-1306, 1403-1406	Yaesu USA.....	3407-3411, 3507-3511
Rabbit Laser USA.....	4011-4012	YLRL.....	2505
Radio Amateurs of Canada.....	2504	Youth DX Adventure.....	2602
Radio Club of America.....	1811	Youth Tech - DARA.....	4001
Radio Society of Great Britain.....	2305,2405		
Radiosport Headsets.....	4107-4108		



# Overview Map of Grounds



Gate 4  
Guest Parking  
Tour Bus

Gate 3  
ADA Parking  
Volunteer Parking

Gate 2  
Package Pickup  
Reserved Parking

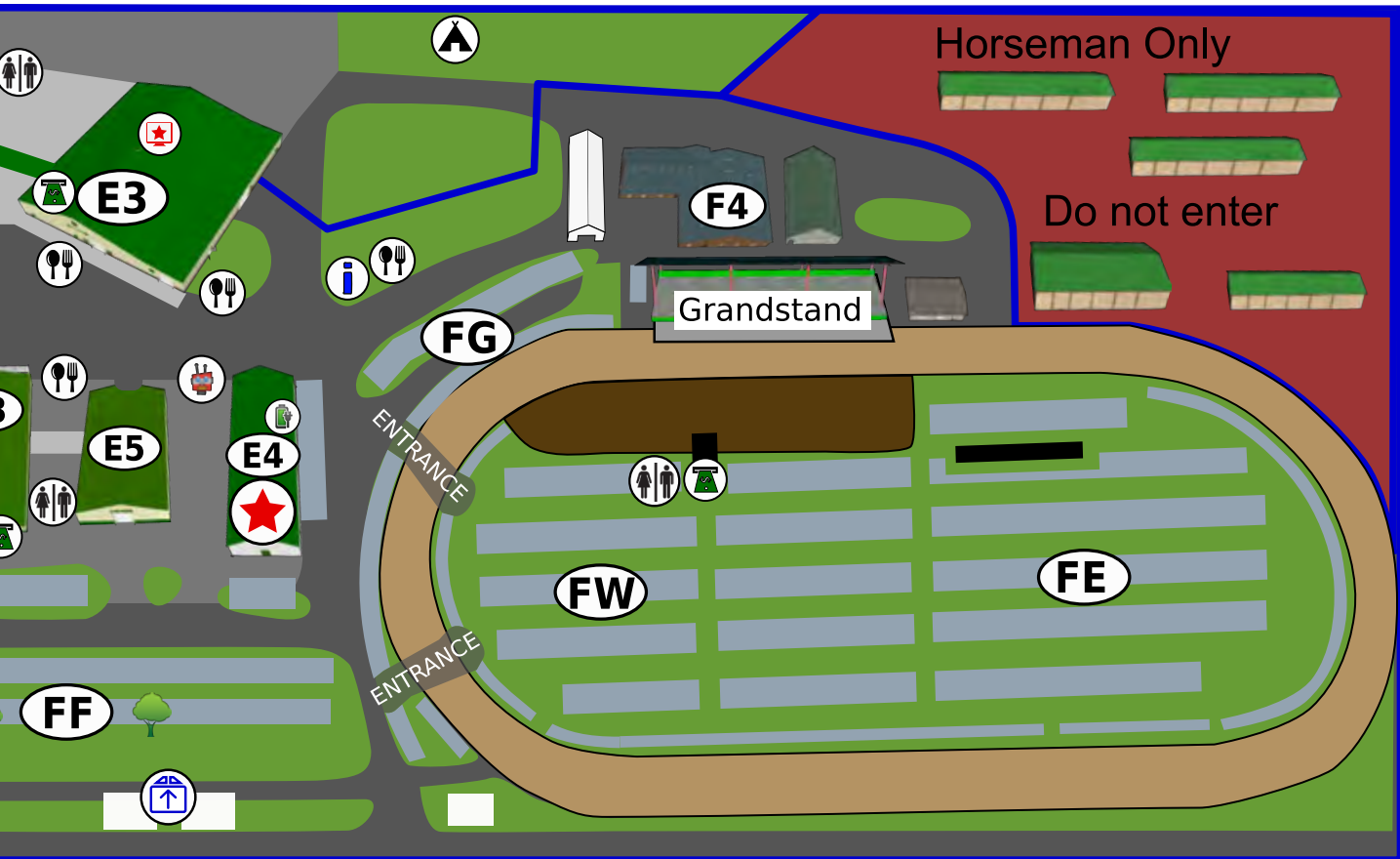
## Parking

- Shuttle
- General
- Handicap
- 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

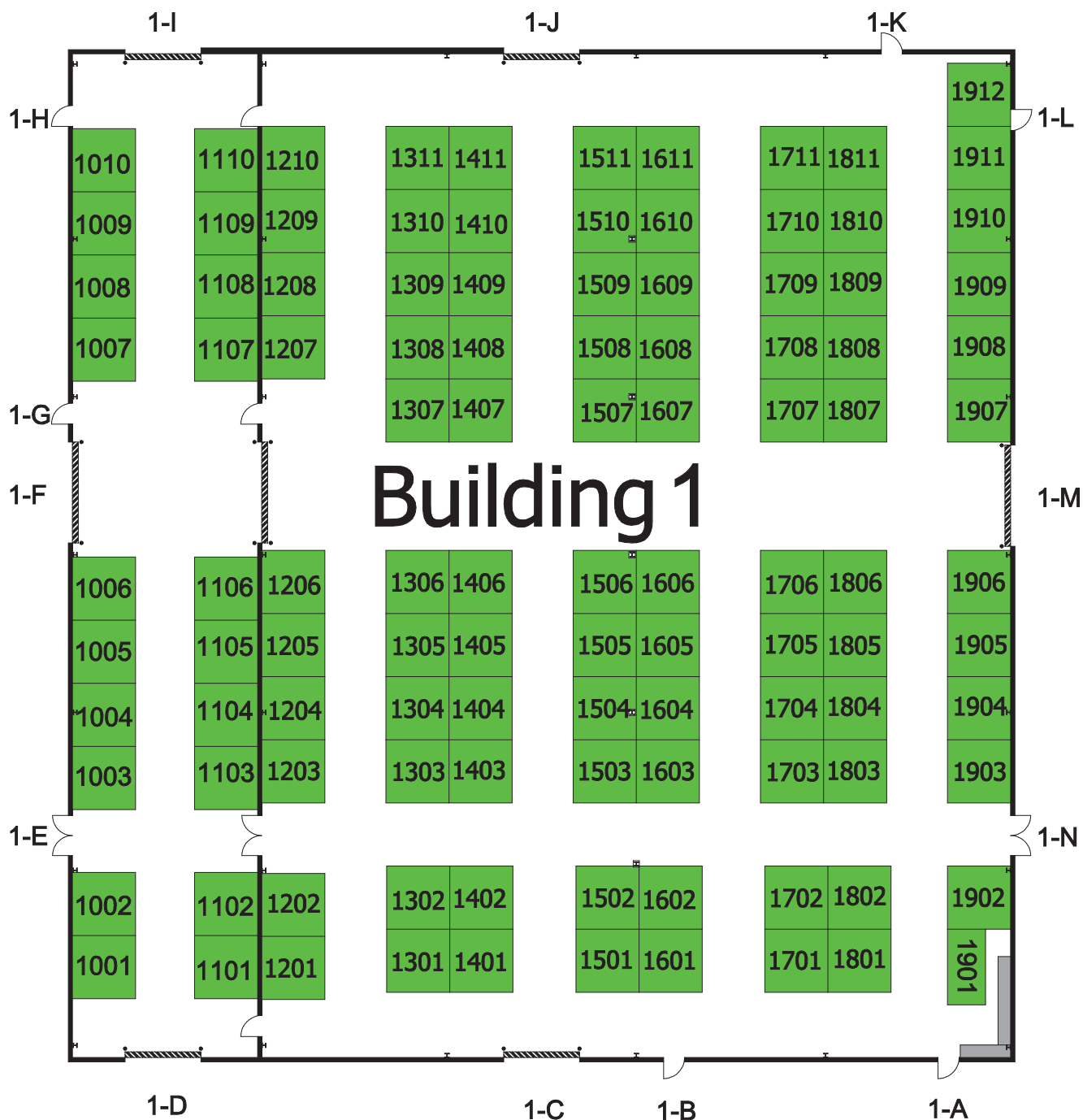
## Flea Market

- (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

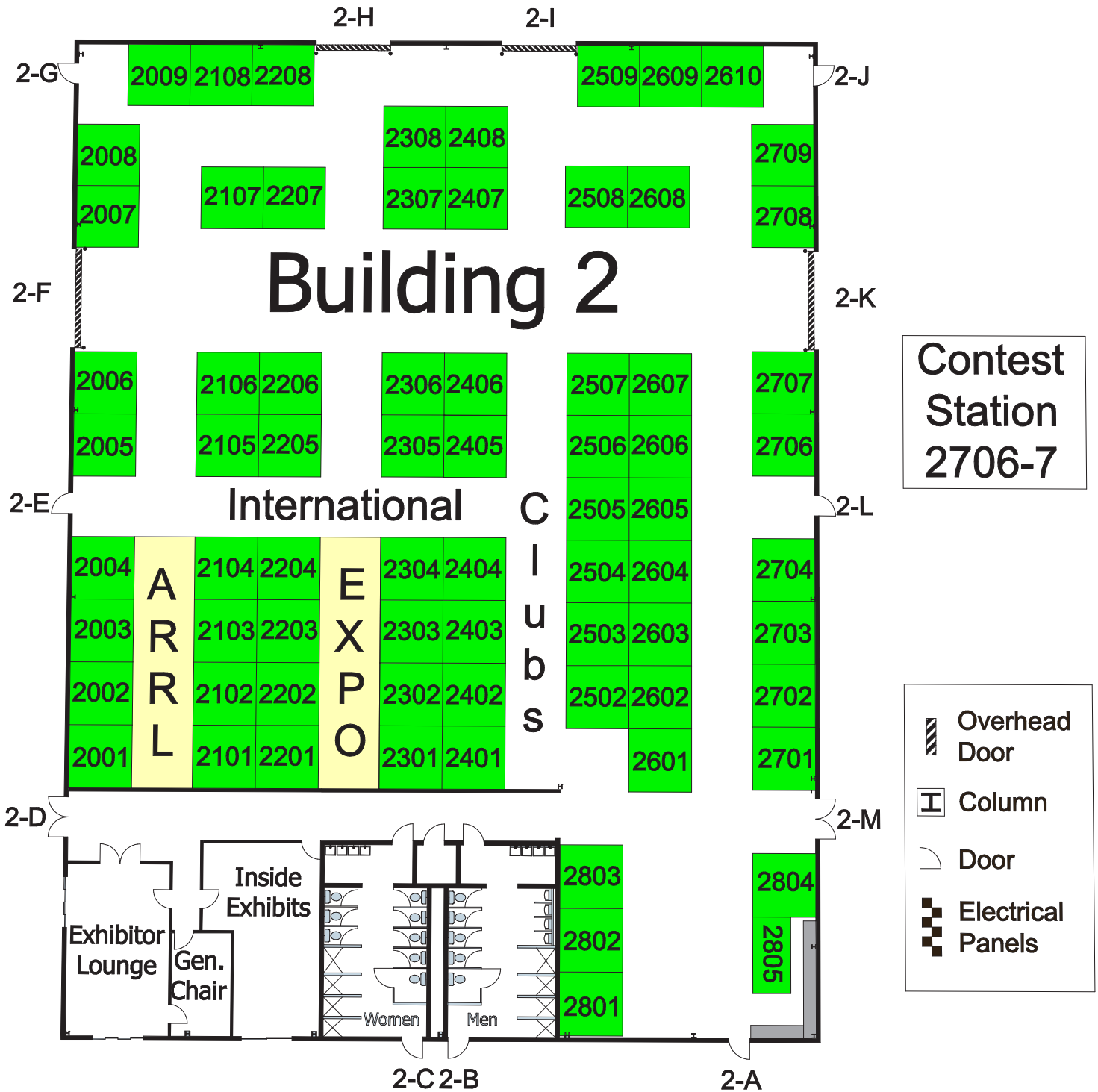
# Inside Exhibits Map



Maps



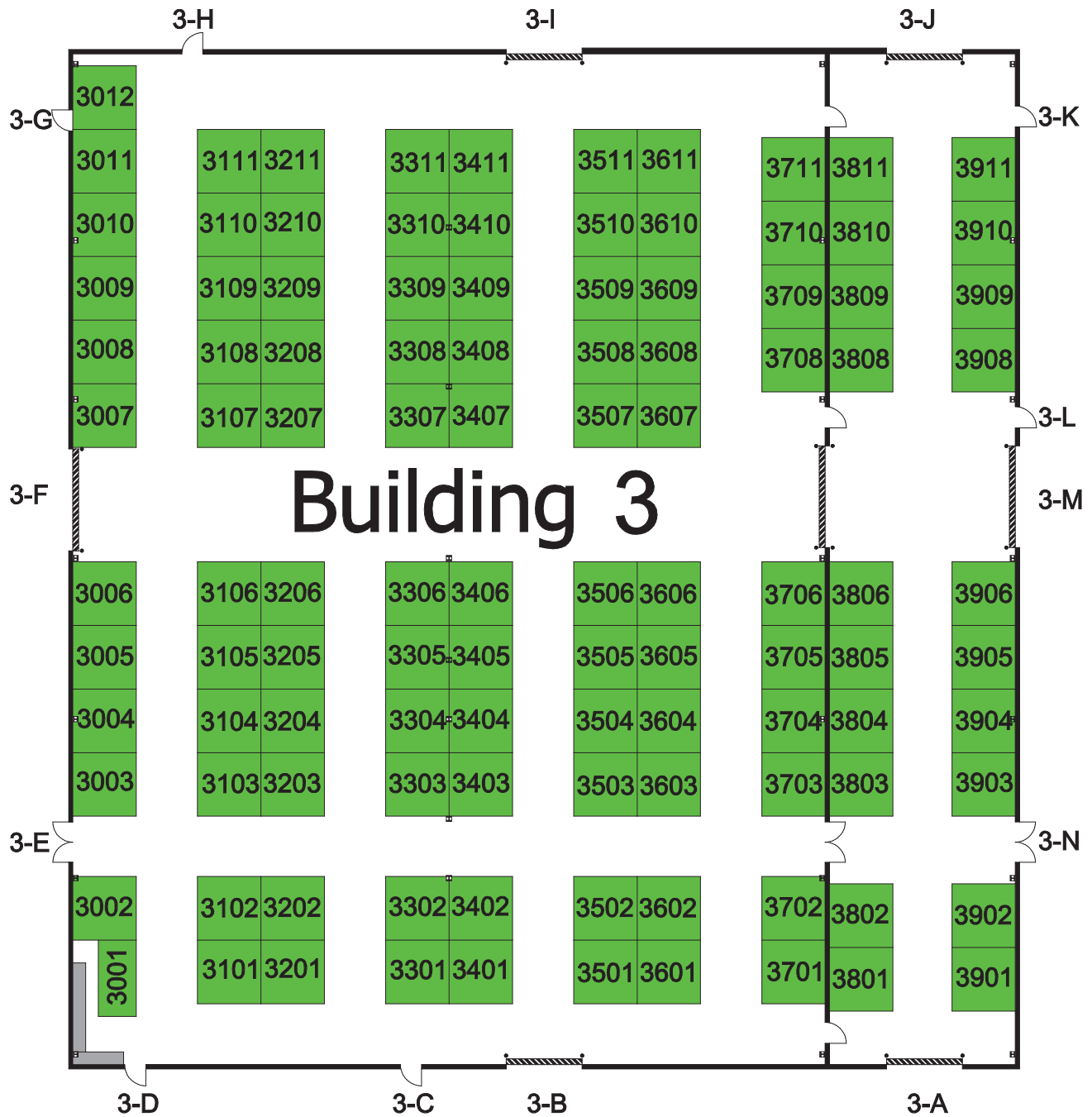
# Inside Exhibits Map







Maps



# Inside Exhibits Map

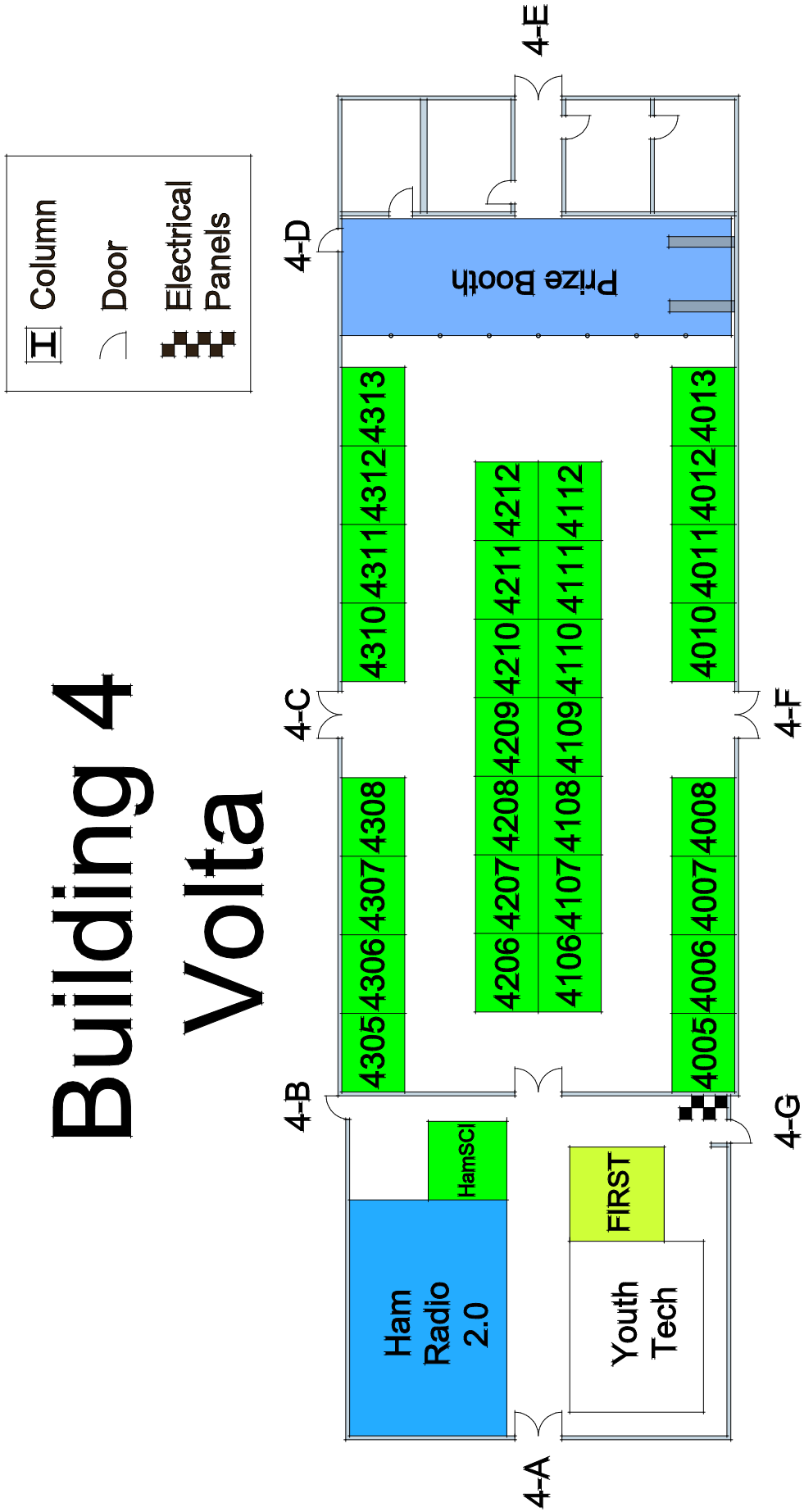


-  Overhead Door
-  Column
-  Door
-  Electrical Panels

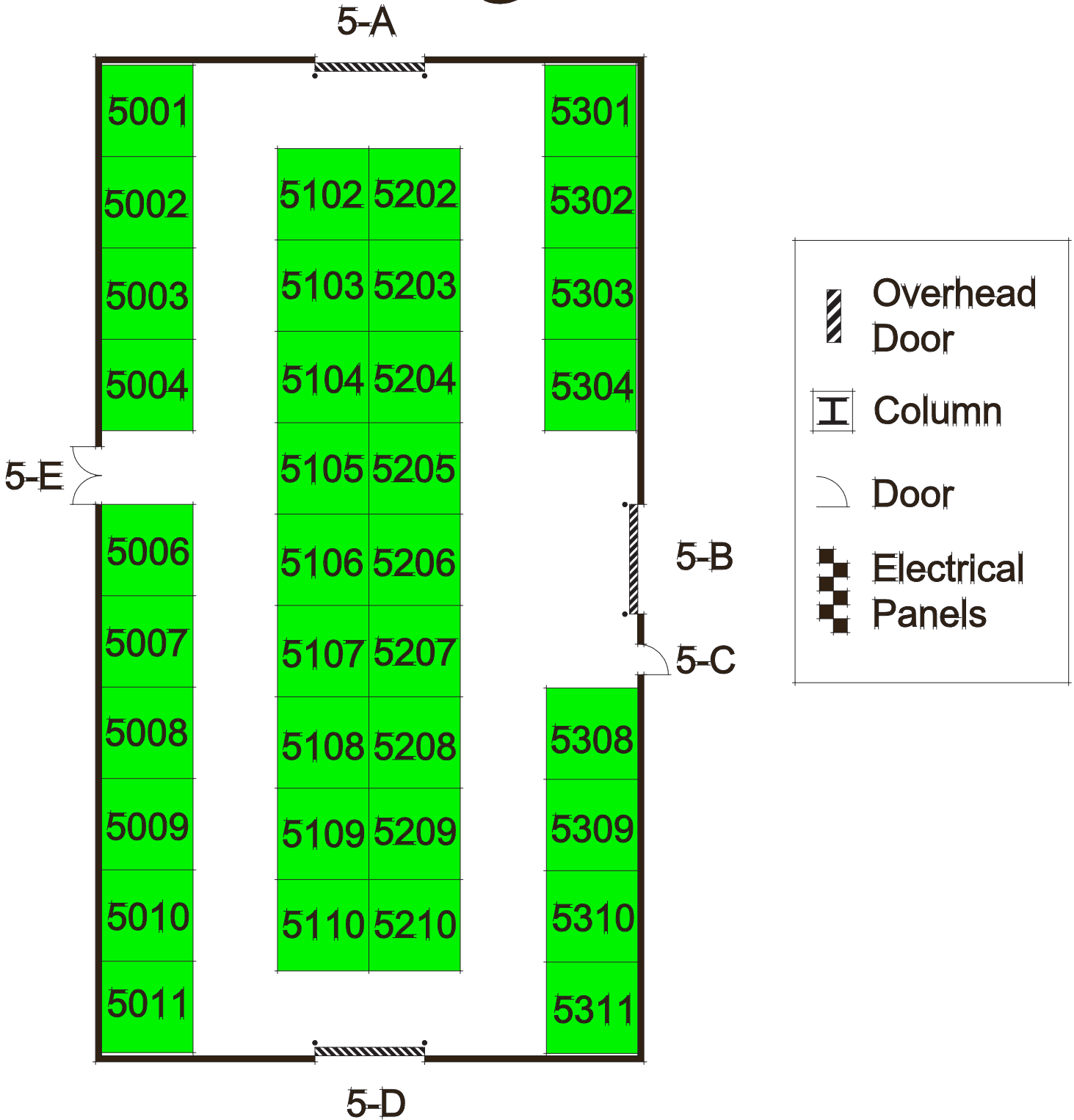


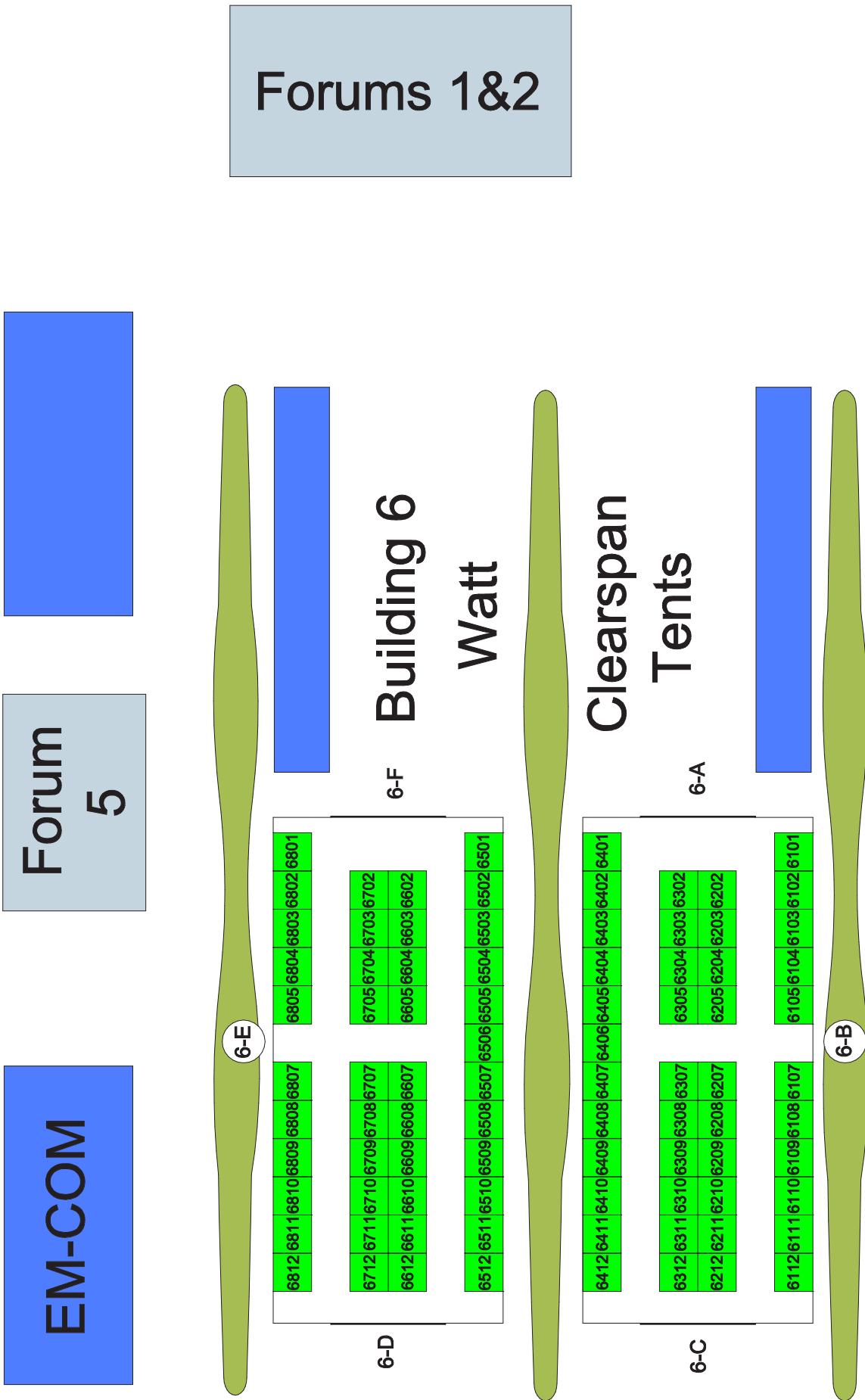


# Building 4 Volta



# Building 5





# Major Prize Donor List for 2019

---

**Alfa Radio Ltd.**

**ARRL**

**Belden Wire**

**Capitol Electronics**

**CQ Communications**

**DX Engineering**

**ICOM America**

**JVC Kenwood**

**MFJ**

**Tarheel Antennas**

**Universal Radio**

**Yaesu**

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

---

## 2019 Dayton Hamvention Prize Donor List

---

Alfa Radio Ltd

Alpha Antenna

ARRL

ARISS

Begali Keys

Belden Wire

Bird Technologies

Buckmaster International

Capitol Electronics

Comet Antenna

CQ Communications

Digilent

DX Engineering

Easy Way Ham Books

EZNEC Antenna Software

Fair-Rite

Hamstudy.org

ICOM America

JT Communications

KB3IFH QSL Cards

JVC Kenwood

N3ZN Keys, LLC

M2 Antenna Systems

MFJ

Microlog by WA0H

Radioddity

RADIOWAVZ

RigExpert

Tarheel Antennas

TEN TEC - a Dishtronix Company

The R.F. Connection

Universal Radio

US Tower

Wired Communications

Yaesu



# Welcome



**Board of Commissioners**

Robert J. Glasser, Jr.  
Richard D. Gould, CPA  
Tom Koopler

35 Greene Street  
Xenia, Ohio 45305-3111

Phone: (937) 592-3200  
Fax: (937) 592-3211  
Administrator: (937) 592-3022  
Clerk: (937) 592-3153  
www.co.greene.oh.us

April 1, 2019

Dear Hamvention® Attendees:

We welcome you back to Greene County and are pleased and excited, again, to host THE amateur radio event of the year.

Each community within Greene County, from the smallest to the largest, offers a unique atmosphere and a variety of attractions. We hope you can take some time to enjoy everything this region has to offer.

Local businesses, government entities, the schools, and many others throughout the County have been preparing for your visit to ensure you have an enjoyable time.

Thank you for coming to our community to renew friendships and showcase your community, amateur radio operators. Your theme, "MENTORING THE NEXT GENERATION", is as important to the future of amateur radio as providing the critical communications needed during a natural disaster.

Thank you for your service.

Sincerely,

The Greene County Board of Commissioners




Tom Koopler, President



Robert J. Glasser, Vice President



Richard D. Gould, Commissioner



120 FAIRGROUND RD., XENIA, OH 45385 • 937.372.8621

May 2019

Greetings Dayton Hamvention® Attendees:

The Greene County Exposition Center is pleased to welcome you back! We are honored once again to be the host facility for the third Dayton Hamvention® held in beautiful Greene County.


Our dedicated team has enjoyed working with the Dayton Hamvention® organizers again this year as we continue to grow and strive to make improvements and prepare for thousands of amateur radio enthusiasts to visit our region for three very special days in May.

We thank you for making the Greene County Exposition Center your home and look forward to many more years of continued partnership.


We hope you enjoy your visit.

Sincerely,

Rodney Keadle



Greene County Exposition Center Manager



OFFICE OF THE MAYOR

107 EAST MAIN STREET • XENIA, OHIO 45385 • PHONE (937) 376-7231 • FAX (937) 374-1818

**Greetings from the Office of the Mayor!**

Thank you for coming to the Xenia, the City of Hospitality, for Hamvention 2019! It is an honor to be the host city for this event. The Xenia community looks forward to you, our guests, attending Hamvention each year!

We hope you will enjoy the many unique businesses Xenia has to offer, including antique shopping, boutique clothing, coffee shops, cupcakes, local brewery or one of our many restaurants. Many of these businesses will be offering discounts to Hamvention attendees, so please check the list at the information booth, stop by with your attendance badge and enjoy what Xenia has to offer.

If time permits, we hope you can take time to enjoy our nationally recognized trails and parks throughout the community. We are also proud to be neighbors with such national landmarks like the Charles Young Buffalo Soldiers National Museum, the National Afro-American Museum, and the Greene County Ohio Historical Society.


Although Hamvention includes a busy schedule, I personally invite you to enjoy our community and hope that you quickly come to see why Xenia is proud to be the City of Hospitality!

Again, welcome to Hamvention, we are excited to have you! And please don't forget to Explore Xenia!

Sincerely,

Sarah J. Mays  
Mayor, City of Xenia, Ohio  
(937) 603-5643, cell  
smays@ci.xenia.oh.us  
ExploreXenia.com

EXPLOREXENIA.COM



**Xenia Township**

Board of Trustees – Greene County  
8 Brush Row Road – Xenia, OH 45385  
(937)372-0859 FAX (937)372-3343  
www.xeniatownship.org

TRUSTEES  
L. Stephen Combs  
Scott W. Miller  
Susan Spradlin

FISCAL OFFICER  
Shells Seifer

TOWNSHIP ADMINISTRATOR/  
ZONING INSPECTOR  
Alan D. Stock

FIRE CHIEF  
Dean Fox

ROAD/PUBLIC WORKS SUPT.  
Jim Pile

Greetings Hamvention 2019 Friends


The Xenia Township Board of Trustees would like to extend the warmest welcome to you all. It is wonderful to see you again this year. What a memorable Hamvention in Greene County you are creating! With each passing year we hope you continue to venture out past your usual places of rendezvous so you can continue to explore the very special "local experience" you'll find here with us.

While you travel away from home, during your stay here you'll find you are in a region with a positively distinct feel. We are confident you'll enjoy yourselves in your interactions with friendly residents, while you dine at unique eateries, and as you explore the natural beauty of the area.

After Hamvention don't be surprised if you are drawn back here to experience destinations that show our rich historical heritage from the Shawnee to our three Historical Black Colleges and Universities, or by the many places of development of first flight to defending our skies in national defense. Perhaps you'll extend your stay to enjoy the largest connected, paved walking and biking trail system in the United States, or to enjoy the beauty of one of the multiple local area's County or State Parks.

Come grow with us in your new location as you foster old friendships and develop new relationships. Although you might have arrived in Greene County meeting strangers, we hope you'll leave as friends looking forward to your annual return.

We are glad you are here,



Alan D. Stock  
Xenia Township Administrator





# ARRL National Convention

## Hamvention® – May 17-19, 2019

## ARRL Exhibit &

### ARRL National Convention – Welcome!

ARRL, the national association for Amateur Radio®, welcomes all members and friends to Hamvention®, host of the 2019 ARRL National Convention. Use this handy guide to find ARRL-sponsored activities, exhibits and program representatives. ARRL's large exhibit area is 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: Nashua Area Radio Society

ARRL welcomes members of the Nashua Area Radio Society (NARS), from New Hampshire. NARS is an ARRL Special Service Club and is being recognized as the 2019 Hamvention Club of the Year. Please visit their booth in the ARRL exhibit area to learn more about this vibrant radio club!

### ARRL Store

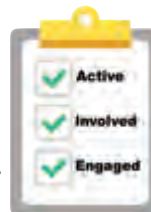
Visit the HUGE ARRL bookstore to join, renew or extend your ARRL membership, and get the latest publications, supplies, and official ARRL merchandise. **ARRL Field Day is June 22-23, 2019.** Gear up for ham radio's largest annual on-air event with official shirts, pins, hats, and more!

- 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 2019 ARRL National Convention Button!

### ARRL Exhibits...

- ARRL Spotlight on Radio Clubs** – presented by members of the Nashua Area Radio Society. Take the **Radio Club Health Check!**
- ARRL Development and ARRL Foundation** – raising resources to extend the reach of ARRL programs & services beyond membership dues.
- ARRL Public Service** – and featuring ARRL Ham Aid.
- 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)

#### Radio Club Health Check



### Download ARRL's new Hamvention Event App!



Find booths, exhibits, forums, maps, hourly prize drawings, and more. Available for Apple and Android mobile devices. Download on the Apple App Store and Google Play. It's never been easier to navigate Hamvention!



- ARRL Collegiate Amateur Radio Initiative.** We Want U to help advance ham radio among college and university students: [www.arrl.org/WeWantU](http://www.arrl.org/WeWantU)
- ARRL Laboratory: Get Your Handheld Radio Tested!**
- Learning Wireless Technology.** 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.**
- ARRL Field Organization Volunteers** – Visit this gathering area for ARRL Field Organization networking, hosted by the ARRL Ohio Section.
- Radiosport and DXCC.** DXCC Card Checking, ARRL Contests and Awards, The ARRL Logbook of the World (LoTW), and QSL Bureau.
- The International Amateur Radio Union (IARU)** – Meet representatives from the IARU. (Booth 2105)



**ARRL** The national association for **AMATEUR RADIO®**

# Activities Guide

## ARRL Wouff Hong Ceremony – Saturday Night at the Marriott

**Saturday May 18 – Doors open at 9:00 PM (no admittance after 9:30 PM)**

**Marriott at the University of Dayton, 1414 South Patterson Blvd**

Participate in this lively ARRL tradition. The ceremony is steeped in mystery! Attendees receive a special keepsake. A fun activity for all ages. Registrations were taken online, but a limited number of remaining seats may be available from the ARRL Field Organization Volunteers booth during the convention (ARRL exhibit area in Building 2). Sponsored by the ARRL Ohio Section.

## ARRL-sponsored Forums (see forum schedule)

Friday May 17, 2019

- **The ARRL Lab: Trials, Tribulations and (Tall?) Tales**
- **ARRL Spotlight on Radio Clubs and Mentoring:** presented by members of the Nashua Area Radio Society.
- **ARRL Public Service Communications:** panel discussion and ARES® update.

Saturday May 18, 2019

- **ARRL Member Forum**
- **Engaging Today's Radio Amateur:** presented by ARRL CEO Howard E. Michel, WB2ITX.
- **ARRL Collegiate Amateur Radio Initiative**

Sunday May 19, 2019

- **ARRL's new Volunteer Monitor Program and the FCC**
- **Discovering Radio Communications**

### Meet these ARRL Headquarters Staff

Bob Allison, WB1GCM  
 Kris Bickell, K1BIC  
 Margie Bourgoin, KB1DCO  
 Ken Bailey, K1FUG  
 Eric Casey, KC2ERC  
 Lauren Clarke, KB1YDD  
 Paul Cianciolo, W1VLF  
 Jackie Ferreira, KB1PWB  
 Ally Flynn, KM3ALF  
 Norm Fusaro, W3IZ  
 Regina Galuppi, W3DGI  
 Ed Hare, W1RFI  
 Bob Inderbitzen, NQ1R  
 Dave Isgur, N1RSN  
 Bart Jahnke, W9JJ  
 Alli McLellan  
 Kim McNeill, KM1IPA  
 Howard Michel, WB2ITX  
 Michelle Patnode, W3MVP  
 Carla Pereira, KC1HSX  
 Diane Petrilli, KB1RNF  
 Janet Rocco, W1JLR  
 Michael Scharr  
 Yvette Vinci, KC1AIM

### Collegiate Amateur Radio Initiative

Andy Milluzzi, KK4LWR  
 Tony Milluzzi, KD8RTT

### Education & Technology Program Instructors

Tommy Gober, N5DUX  
 Larry Kendall, K6NDL  
 Matt Severin, N8MS

### THANK YOU!

ARRL expresses its gratitude to the 2019 Hamvention® Committee, Dayton Amateur Radio Association, and all of the volunteers who contributed to the success of 2019 ARRL National Convention at Hamvention in Xenia, Ohio.

**The ARRL Diamond Club**

Enjoy All the Benefits of Membership...  
**Plus More!**

**The ARRL Diamond Club** is an annual giving program for ARRL's most committed members. In addition to membership, including *QST*, Diamond Club members receive many other special benefits.

Most importantly, when you join the Diamond Club, you are also making an unrestricted gift to ARRL to help support ARRL's programs and services for Amateur Radio.

To learn more about the benefits of being a member of this special group, go to **www.arrl.org/the-arrl-diamond-club**.

## Friday, May 17<sup>th</sup>

- 9:15-10:35**      **Room 1**      **TAPR Forum**  
**Moderator: Scotty Cowling, WA2DFI**  
Scotty has been involved in the openHPSDR project for the last 12 years, is a TAPR Director and current TAPR Vice President. Scotty is also active in the production of other SDR components. He is a co-founder of iQuadLabs, LLC, a supplier of openHPSDR systems and other Software Defined Radio components. He currently works at Zephyr Engineering, Inc, a computer consulting company that specializes in FPGA design and SDR hardware.
- 9:15-10:15**      **Room 2**      **Remote Access to your Amateur Radio Station**  
**Moderator: Mark Aaker K6UFO**  
Bio: Mark is Contributing Editor on Remote Contesting to National Contest Journal magazine. He has operated a remote station for the last 10 years, and been presenting at Hamvention since 2016.  
**Creating and Maintaining a Remote Station in Snowy Eastern Ontario.**  
Remote access makes your station more useful and enjoyable for you and any hams you mentor. Let's avoid the common problems, with an overview of remote access methods being successfully used today. We'll cover in more detail a remote station in Eastern Ontario that operates without a visit during the winter. And yes, we'll save time to answer your questions.
- 9:15-10:30**      **Room 3**      **The ARRL Lab: Trials, Tribulations, and Tall Tales**  
Presenter: Ed Hare, W1RFI, ARRL Laboratory Manager  
ARRL Laboratory Manager, Ed Hare, W1RFI, has promised to give us the real "inside" information about what goes on in the ARRL Laboratory. His presentation is chock full of information about the day-to-day things that happen in the Lab when nobody is lookin
- 9:15-10:15**      **Room 4**      **SHARES HF EMCOMM**  
**Moderator Ross Merlin WA2WDT**  
Ross was first licensed in 1974 and now holds the Amateur Extra Class license and the General Radiotelephone Operator License. He enjoys contesting, Dxing, Automatic Link Establishment, and digital modes when not on the air on government HF channels at work managing a federal government HF emergency communications program.  
**Speaker 1: Ross Merlin, WA2WDT**  
**SHARES HF Emergency Communications**  
SHARES is the SHARed RESources HF radio program managed by the Dept. of Homeland Security to provide backup long-range communications, interoperability, and situational awareness for all levels of government, critical infrastructure and key resources providers, and national or regional disaster relief organizations; all on federal radio channels. Many SHARES radio operators are also amateur radio operators, and the application of the skills and knowledge learned in amateur radio to government emergency communications is invaluable. This presentation will include a description of the program mission and eligibility, and an open forum for SHARES members to discuss operations, policies, and the evolution of the program.





- 9:15-10:30**      **Room 5**      **Parks On The Air**  
**Moderators: W8TAM Thomas Martin & K8VOX Julie Martin**  
 Moderator: Julie Martin, K8VOX  
 Bio: Licensed in 2016, I enjoy all aspects of operating portable from unique places.  
 Speaker: Thomas Martin, W8TAM  
 Open to Q & A Licensed in 2014.
- 10:45-11:50**      **Room 1**      **APRS Forum**  
**Moderator: Bob Bruninga, WB4APR**  
 Many new things for APRS this year will be presented by a variety of authors. Bob Bruninga, WB4APR will cover all the new operating modes Including DTMF, text-to-Voice, PSK31 and an SSTV camera that will be in the PSAT2 satellite scheduled for launch just two weeks after Dayton. Brian Hoyer, K7UDR has fresh updates from Northwest Digital Radio. Rob Riggs, WX9O will introduce his Bluetooth TNC called MobileLinkd TNC3 for smartphones to give everyone a full-fledged GPS-enabled APRS system with amazing two-way communication capabilities. This makes APRS messaging much more intuitive. And much more convenient than bringing a laptop computer into the field. Announcements on other projects are welcome!
- 10:25-11:25**      **Room 2**      **MARS Forum Hamvention 2019**  
**Moderator 1: Paul English, WD8DBY**  
 Bio: Paul holds the Amateur Extra and has been licensed since 1976. He has served as the Army MARS Program Manager since 2013. Paul enjoys tinkering with electronics and hoping he can get all the parts back together after taking things apart.  
**Richard Duncan, WD5B**  
**MARS RADIO and the Military Support Network in 2019**  
 The Department of Defense uses HF phone patching everyday...Richard will present an update on the MARS Radio phone patch network and how you can support this effort. Richard will also talk about changes to the Military Support Network.  
**Dave Stapchuk, KD9XM**  
 Dave has been licensed as an amateur radio operator since 2015 and has served as the Chief of Air Force MARS since 2014. In addition to his amateur radio hobby, Dave is an avid golfer. Don't be surprised if you see Dave walking around Hamvention with his golf clubs in tow!  
**Mark Jensen, WA6MVT**  
**NORTHCOM Comms Interoperability Exercise Comes to Ohio**  
 Mark and a representative from the Ohio Army National Guard will discuss the upcoming DOD, Federal, public safety and amateur radio communications interoperability exercise that will take place in Ohio later in June. Mark will explain how amateur radio operators can become involved in this training opportunity.  
**Matt Deutch, N0RGT**  
**WWV 100th Anniversary**  
 Matt will give a presentation about the LF/HF broadcast station WWV/H/B and the upcoming 100th anniversary of the WWV time standard broadcast.
- 10:40-11:40**      **Room 3**      **Digital Contesting**  
**Ed Muns, W0YK**  
 Ed is the director of the CQ WW RTTY and CQ WPX RTTY contests, manager of the



NCJ NA RTTY Sprint, NCJ Digital Contesting columnist and co-sponsor of the Ten-Meter RTTY and FT8 Roundup contests. He has taught the Digital Contesting classes at the Dayton Contest University since 2007. Much of his CW and digital contesting is done with his P49X call sign in Aruba.

**John Pescatore, K3TN**

**Future of FT8 in Digital Contesting**

Since its introduction in mid-2017, the FT8 mode has instantly dominated HF ham band activity, as measured by LotW and ClubLog QSOs across the CW, SSB, RTTY and FT8 modes. In December 2018, the first FT8 contest was very successful: the FT8 Roundup. That was followed by the traditional ARRL RTTY Roundup in early January 2019 where an all-time high number of logs were submitted, due to the inclusion of the FT8 mode.

**Jeff Blaine, AC0C**

**Future of RTTY Contesting**

The recent popularity of FT8 and its appearance in the first two contests has some people wondering what the impact may be on the future of RTTY contesting. Will FT8 supplant RTTY or will it be an additional popular contesting mode along with CW, SSB and RTTY?

10:30-11:30

Room 4

**Instructor’s Forum**

**Moderated by Carole Perry WB2MGP**

Carole is the 1987 Ham of the Year and has been inducted into the CQ Hall of Fame. She is the first recipient of the Carole Perry Educator of the Year award. She has moderated the Instructors’ Forum and the Youth Forum for 32 years.

**Tamitha Skov**

**The Use of Space Weather information in the classroom**

Tamitha is the Space Weather Woman. She helps the “Mars Generation” understand the effects of space weather in our daily lives.

**Tim Cunningham**

**Having Fun with Satellite Communications in the classroom**

Tim is the “Satellite Man”. He is a member of the Huntsville ARC and serves as Alabama APRS Coordinator and is AMSAT Area Chairman. He regularly organizes school contacts with the ISS.

10:45-11:45

Room 5

**Collins Radio**

**Moderator: David Knepper, W3ST**

Bio: First licensed in 1955, Dave is now active in the restoration and repair of Collins amateur radio equipment. He is the secretary and founder of the Collins Radio Association: [www.collinsradio.us](http://www.collinsradio.us)

**David Knepper:** Recapturing a legacy to promote and to sustain amateur radio for generations to come

12:00-1:50

Room 1

**Homeland Security Forum**

**Moderator: John Peterson**

Auxiliary Communications (AUXCOMM) Train-the-Trainer (TtT) is a new offering in the Fiscal Year (FY) 2019 Technical Assistance (TA)/Statewide Communication Interoperability Plan (SCIP) Guide.



Speakers will talk about a service offering help to states/territories in creating a self-sustaining AUXCOMM training program by providing instructor training to qualified COML personnel who have also successfully completed these courses: AUXCOMM Course, COML Course, COML Position Task Book (PTB), Formal Adult Education in Training Instruction, Has taken the most current version: ICS 100C, 200B, 300, 400, 770B, and 800C, and has a FCC Radio Amateur License that has been held for at least three years.

- 11:35-1:00**      **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 Spotlight on Radio Clubs and Mentoring**  
**Presented by members of the Nashua Area Radio Society: Fred Kemmerer, AB1OC; Anita Kemmerer, AB1QB; Jamey Finchum, AC1DC; Dave Merchant, K1DLM**  
 ARRL is pleased to introduce members of the Nashua Area Radio Society (NARS), from New Hampshire. This ARRL Special Service Club has over 200 members contributing to Amateur Radio licensing classes, youth and school activities, on the air operating activities, Amateur Radio expositions in public venues, and emergency communications training. NARS is a vibrant, active radio club focusing on mentoring and youth outreach. Club members will share a presentation about their activities and approach to building membership and participation in their club. If your radio club is hungry for new ideas, looking for ways to engage newcomers - you won't want to miss this opportunity to hear from a vibrant, active radio club. Sponsored by ARRL, the national association for Amateur Radio.
- 11:45-12:45**      **Room 4**      **Kit Building**  
**Moderator/Keynote Speaker: Joe Eisenberg, K0NEB**  
 Joe is the Kit Building editor for CQ Magazine and the chapter author for the Construction Techniques chapter of the ARRL Handbook.  
**David M Crip, NM0S**  
 New Kits from 4-State QRP Group  
 David is an Engineer for Rockwell Collins in Cedar Rapids, Iowa, and designs many 4-State QRP kits.
- 12:00-1:30**      **Room 5**      **BalloonSat Forum**  
**Moderators: Bill Brown WB8ELK**  
 Bill was first licensed in 1969 and has been actively promoting the use of Amateur Radio flown aboard high altitude balloons. He has flown over 500 Amateur Radio High Altitude Balloons (ARHAB) since his first launch in 1987.  
**Bill Brown, WB8ELK**  
 Long Duration balloon flights around the World  
 How to design and launch Pico balloon payloads capable of circling the World  
**Mike Hojnowski, KD2EAT**  
 Lofty Goals - An Ambitious HAB Flight  
 Details of preparations for a high altitude balloon flight that includes a live camera



Amateur Television (ATV) downlink, A crossband VHF to UHF repeater with coverage spanning hundreds of miles and a touch-tone cutdown system.

**Shane Wilson, N4XWC**

How to successfully track and recover balloon payloads. Setting up a chase vehicle and the equipment necessary for tree and rugged terrain rescue.

A Pico balloon race will be held shortly after the BalloonSat Forum (Rain Date will be on Saturday around Noon)

1:10-2:30

Room 2

**National Weather Service Forum**

**Working With Amateur Radio ... To Save Lives During Severe Weather**

**Brandon Peloquin, Warning Coordination**

Meteorologist, National Weather Service, Wilmington, Ohio

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

**Out of this World Ham Radio via Amateur Radio on the ISS**

**Rosalie White, ARRL ARISS-US; Frank Bauer, AMSAT ARISS-US, K1STO-KA3HDO**

Rosalie and Frank were the two US leaders of ARISS since Day 1, when NASA asked them in 1996 to begin plans to build a world team for Amateur Radio to be on the International Space Station. The rest is history!

The ARISS team will present an overview and status of the ARISS program and then conduct a panel/Q&A session with ARISS panel experts in operations, education, hardware, experimentation and exploration. We also hope to have some surprise guests attending!

1:00-2:15

Room 4

**Techniques Of The Best Operators**

**Mitch Stern W1SJ**

This year, Mitch celebrates his 50th year in ham radio and is still super active! His first love is contesting, and he is often that rare multiplier you work from Vermont. His second love is teaching, and he teaches several classes for Technicians and Generals.

**Mitch Stern**

Techniques of the Best Operators

Now that you've bought up all that great stuff at Hamvention, now what do you do with it?

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 by others.

1:45-2:45

Room 5

**Using KiCad**

**Barry Buelow, WØIY**

Barry was first licensed in 1967 and has been actively building ever since. He is a disciple of KiCad advocating for the Open Source software by teaching classes and generally being a resource to help others design their own circuits and PCBs.

KiCad provides Schematic Capture, BOM, Netlist, PCB Layout and Gerber file creation. It also supports Pick-n-Place files and other design tools like Spice.



Beginners and advanced users will get a quick tour of KiCad and see the latest addition, the Visualization feature that shows you what a complete PCB will look like with components installed.

2:00-5:00

Room 1

### Antenna Forum

**Moderator: Tim Duffy K3LR**

**Dr. Ted Rappaport N9NB and Jim Parnell W5JAW**

How to Use Your Tower as a Dual-Band Single-Feed 80 meter/160 meter Vertical Antenna Using No Traps, Switches, or Tuners – And Extensions to Phased Arrays

**Frank Donovan**

Big and Small High Performance 6 Meter Yagis You Can Build

**Dr. Tamitha Skov**

Forecasting the Next Solar Cycle for Radio Propagation; Separating Fact from Myth

**Chris Janssen**

A Four Element Vertical Dipole Array – Super Antennas On the Beach for Dxpeditors

2:40-3:45

Room 2

### Ham Radio and the Law

**Fred Hopengarten, Esq., K1VR**

The author of “Antenna Zoning for the Radio Amateur,” with the Third Edition due out later this year, Fred is active in contests and DX. This past fall, he was elected as the new ARRL Director for New England.

**Bob Famiglio, Esq., K3RF**

Excluding a Ham from Your Repeater and Network

Bob will address issues arising when repeater or network owners exclude licensed amateurs for whatever reason. With the continued expansion of linked repeater networks, some have resorted to litigation when excluded. Bob will present a summary of a recent case and the law regarding such restrictions with his recommendations.

**Barney Scholl, Esq., K3LA**

Subject: Should your club be tax exempt?

Can/should an amateur radio club qualify as a charitable organization? Steps under the federal and state rules. Suggestions.

**Fred Hopengarten, Esq., K1VR**

Antenna Law News

N2EHG v. Town of LaGrange (NY) - excessive fees. The FAA Reauthorization Act of 2018. Tip: The TCA of 1996 is NOT the Communications Act of 1934.

2:25-3:40

Room 3

### ARRL Public Service Communications: Panel Discussion

A chance to hear from representatives from Amateur Radio’s largest organizations active during times of disaster and emergency. An update will also be given about planning to update the Amateur Radio Emergency Service® (ARES®) including many changes that were asked for by our volunteers and partner agencies: training, reporting, identification, leadership development, and more. Sponsored by ARRL, the national association for Amateur Radio.

Panelists: 1. Rob Macedo, KD1CY, VOIP WX Net and VOIP Hurricane Net; 2. Paul English, WD8DBY, US Army MARS; 3. David Stapchuk, KD9DXM, US Air Force MARS; 4. Bill Feist, WB8BZH, SATERN; 5. Ross Merlin, WA2WDT, Department



of Homeland Security, SHARed RESources (SHARES); 6. Ted Okada, K4HNL, Chief Technology Officer, FEMA; 7. Malcolm Kyser, KG4G, Chief of Communications, Civil Air Patrol.

- |                  |               |  |
|------------------|---------------|--|
| <b>2:30-3:30</b> | <b>Room 4</b> | <p><b>Young Ladies' Radio League</b><br/> <b>Marilyn Melhorn, AF7BI</b><br/> Marilyn is the current President of Young Ladies' Radio League Clubs, Girl Scouts, and more!<br/> How it's happening and what you can do<br/> <b>Anne Manna</b><br/> YLRL: Introduction to the largest organization for women hams (YLS) world-wide.</p>  |
| <b>3:55-5:00</b> | <b>Room 2</b> | <p><b>System Fusion Forum</b><br/> <b>Moderator: Mark Thompson, WB9QZB</b><br/> The System Fusion™ Forum will include a presentation &amp; discussion about Yaesu's System Fusion™ Voice &amp; Data technology designed exclusively for Amateur Radio. The forum will review updates to Yaesu's System Fusion™ technology including 2m / 70cm Analog FM / C4FM Digital Voice Repeaters &amp; Mobile / Portable radios and WiRES-X™ (Wide-coverage Internet Repeater Enhancement System) &amp; IMRS™ (Internet-linked Multi-site Repeater System) VoIP communications linking systems.<br/> <b>John Kruk, N9UPC</b><br/> Yaesu System Fusion™ News &amp; Update<br/> John Kruk, N9UPC, Sales Manager, Amateur Radio Sales Division, Yaesu USA</p> |
| <b>3:50-5:00</b> | <b>Room 3</b> | <p><b>Software Defined Radio</b><br/> <b>Stephan Hicks N5AC</b><br/> 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.</p>   |
| <b>3:45-5:00</b> | <b>Room 4</b> | <p><b>75 Years of CQ - Ham Radio's Independent Voice</b><br/> <b>Rich Moseson, W2VU, Editor, CQ magazine</b><br/> A look at CQ magazine and ham radio from 1945 to today and into the future.</p>  |
| <b>3:00-4:45</b> | <b>Room 5</b> | <p><b>New Products Showcase</b><br/> <b>Moderator: John Burningham, W2XAB</b><br/> The current state of the DMR networks, radios, and hot spots followed by a short introduction to writing your own code plugs.</p>   |

## Saturday, May 18<sup>th</sup>

- |                   |               |   |
|-------------------|---------------|---|
| <b>9:15-10:15</b> | <b>Room 1</b> | <p><b>Ham Nation</b><br/> <b>Bob Heil, K9EID</b><br/> The HAM NATION hosts will be on stage to discuss this past year of Ham Nation programs on Leo Laporte's TWIT.TV network.<br/> You finally fixed your transmit audio, now what about your RECEIVE audio? Dr. Bob brings more science of audio to this important subject.</p> |
|-------------------|---------------|---|



- 9:15-12:00**      **Room 2**      **Youth Forum 2019**  
**Moderated by Carole Perry WB2MGP**  
**Tamitha Skov, The Space Weather Lady, WX6WW**  
 The Effects of Space Weather on our daily lives and communications  
 Tamitha will address the “Mars Generation” about the effects of Space Weather on our daily lives and our communications.  
**Conner Black, age 17, W4IPC** Working Amateur Satellites and DX Contesting  
**Isaac Schofer, age 14, AC3CJ** The BITX40 Radio Project  
**Marissa Robledo, age 12, W4AQT** Why Working Satellites Helps Students  
**Galen Gold, age 20, KB6EE** Compact Modulated CW Foxhunt Transmitters  
**Sibi Raja, age 15, KE0MWB** Working with FEMA and Emergency Preparedness with Radio  
**Vonita Latham, age 13, KM4CLT** Fun With the Boy Scout JOTA  
**Xenia Berger, age 18, ZL4YL** Getting Involved in Fun Ways in Amateur Radio  
**Jose Foxx, age 18, KV8RED** Escorted by Representative of the ‘Mexican Embassy’
- 9:15-10:40**      **Room 3**      **Foxhunt/ARDF**  
**Dick Arnett, WB4SUV**  
 An acknowledged foxhunter for over 40 years and an accomplished ARDFer for over 20, Dick along with co-speakers Brian DeYoung and Bob Frey will discuss the many aspects of VHF and HF foxhunting from both a mobile and on-foot aspect.  
**Dick Arnett, WB4SUV**  
 Annual Poll, The Mobile Hunt - Getting Started  
 As an avid mobile fox hunter, Dick loves to bring new people into this fun activity. He will discuss types of receivers, antennas and additional extra needed get beginners on the road to success.  
**Brian DeYoung, K4BRI**  
 Design and Construction suggestions for Foxhunting Equipment  
 Equipment used for foxhunting and ARDF is a little different than most ham radio projects. Some experiences and suggestions for the design and construction of equipment used in foxhunting and ARDF.  
**Bob Frey, WA6EZV**  
 ARDF is a fast paced on-foot type of foxhunt that can be enjoyed by individuals of all ages. It combines the skills of orienteering, map reading, with the directional skills of foxhunting. Topics include: Discussion of equipment and techniques needed for both 2M and 80M On-foot hunts (ARDF) as well as upcoming events.
- 9:15-10:30**      **Room 4**      **HamSCI Forum**  
**Nathaniel Frissell, W2NAF**  
 Nathaniel Frissell, W2NAF, is a research professor of the New Jersey Institute of Technology and the principal founder and leader of the Ham Radio Science Citizen Investigation.  
**Steve Cerwin, WA5FRF**  
 Ionospheric Disturbances at Dawn, Dusk, and During the 2017 Eclipse  
 The author recently participated in the HamSCI propagation experiments during the August 2017 total solar eclipse and the ARRL November 2017 Frequency Measuring Test.  
**Bill Liles, NQ6Z**  
 Using WWV Timing Reference Signals to Observe Ionospheric Variation. For



decades, an AM modulated time signal has been broadcast at multiple HF frequencies by the National Institute of Standards and Technology (NIST).

**Ethan Grace and George Lemaster (WB5OYP)**

Sudden Ionospheric Disturbances (SIDs) and Personal Space Weather stations.

This presentation will deal with Sudden Ionospheric Disturbances (SIDs), what they are, what their effects are, how they can be observed easily at home, and observations combined with others to form a more complete view of the ionosphere.

**Scotty Cowling**

Update on Personal Space Weather Station & SDR Hardware. The Personal Space Weather Station is a HamSCI project to create a distributed network of ground-based ionospheric and space science instrumentation. This presentation will discuss the current mission objectives and project requirements, as well as the status of current hardware development.

9:15-10:15

Room 5

**Summits on the Air**

**Moderator: Keith Schlottman, KR7RK/VA3RRK**

Keith Schlottman, KR7RK / VA3RRK enjoys both ham radio and hiking, and is a SOTA “Mountain Goat” and “Super Sloth”. Keith has served in various leadership roles in many ham radio organizations. He has been the Treasurer of Ten-Ten International Net for over 25 years and works in the financial services industry.

**Keith Schlottman**

Summits On The Air: Ham Radio and the Great Outdoors

Improvements in portable gear have made it easier than ever for hams to combine outdoor activities with amateur radio. The SOTA program provides opportunities for everyone to participate, whether you’re a long-distance hiker, mobile operator, or working from your shack at home. SOTA is an excellent way to share our hobby with youth, who may be find the “Adventure” aspect interesting. The SOTA program is also an excellent way to practice emergency service station setup and operation. SOTA provides opportunities to field-test various equipment, and is a great way to learn more about the effects of operating location on signal propagation. This presentation will discuss ways to enjoy this world-wide program for newcomers and old-timers alike.

10:15-11:15

Room 1

**Heil Sound Workshop**

**Bob Heil**

The HAM NATION hosts will be on stage to discuss this past year of Ham Nation programs on Leo Laporte’s TWIT.TV network.

You finally fixed your transmit audio, now what about your RECEIVE audio? Dr. Bob brings more science of audio to this important subject.

10:50-11:50

Room 3

**I Am A New Ham, Now What Next?**

**Frank J. Beafore, WS8B**

Frank is an Extra Class operator first licensed in 1977. His interests include: antenna design and build, home brewing and 20 and 40 meter SSB operations. Frank also has served Hamvention since 1991 in many different capacities. He is currently the co-chair for the Awards Committe.





**Dr. Richard A. Allnutt - WS8G**

Rick is an Extra Class operator first licensed in 1982. Rick is currently the assistant general chairman for this year's Hamvention. Rick has been active home brewing QRP, antenna design, digital communications and recently in contesting.

So now I am a New ham. What do I do next?

All newly licensed hams have a lot of questions pertaining to "what's next". Rick and Frank will present real-world questions heard from new hams as well as taking questions from the audience. Many subjects will be covered including: SWR, nets, antenna design, DX, propagation basics, mobile and fixed installations, public service and lots of other related questions. This forum is designed for the new ham, but all license levels are invited. Frank and Rick do not have all the answers, so help will be requested from the audience. Please join us for the fun.

10:40-11:50

Room 4

**Fast Scan ATV**

**Art Towslee, WA8RMC**

I've been involved with ATV since 1965 and retired from electrical engineering of 44 years. Since 1965 I've been involved in almost all aspects of ATV in the UHF/microwave bands including digital ATV. I am the hardware designer of the DATV-Express DATV.

**Gordon West, WB6NOA**

**Mel Whitten, K0PFX**

Exploring the world of High Definition Digital Television.

Like to get started or re-started in Amateur TV? Mel will explore the current digital ATV gear available and how it can be used to assemble a high performance station. Sharing his operating experience and years of building gear, Mel will show you how to an ATV Station.

**Mike Collis, WA6SVT**

California ATN Network update

**Art Towslee, WA8RMC**

Wrap up and summary of the available DATV MiniTiouner DVB-S/S2 receiver module

10:30-11:30

Room 5

**Kenwood Equipment Forum**

**Mr. Jan Sevaites, N8CBX**

**Mark Gilger, WB0IQK**

Kenwood Legacy Equipment Resources

Mark was first licensed in 1966 and has been continuously active since that time. He holds an General Class License. He is active HF SSB & AM. Mark is one of the net controls for the Kenwood Hybrid 20 & 40 meter technical net. He enjoys restoring Kenwood Legacy Equipment.

11:25-1:50

Room 1

**DX Forum, sponsored by the SouthWest Ohio DX Association, SWODXA**

**Jay Slough, K4ZLE**

"Brunei, V84SAA" by KO8SCA, Adrian Ciuperca

"VP6D, Ducie Island - DX Sharks" by K5GS, Gene Spinelli; K3EL, Dave Lloyd; W2LK, Les Kalmus

"KH1/KH7Z - the rest of the story - getting there" by N1DG, Don Greenbaum; K6TD,



Kevin Rowett

“Legacy of W0AIH, What can we carry forward?” by W0GJ, Glenn Johnson

At the conclusion of the DX Forum, we will draw the lucky winner for the Yaesu transceiver, so generously donated by Yaesu. All proceeds from this activity are used 100% to help fund DXpeditions like the ones being presented in this forum.

Note: This may not be the presentation order. However, the presentation on W0AIH will be the last presentation for the forum so that any contesters planning to attend the Contest Forum, immediately following ours, can come early and hear the entire program.

12:10-1:40

Room 2

### AMSAT

#### **Robert Bankston, KE4AL**

Bio: First licensed in 1990, Robert explored many facets of amateur radio, but eventually found his home in amateur radio satellite operations. Whether from home or off on a GridXpedition, he’s happiest on the Birds.

#### **Joe Spier AMSAT-NA President, K6WAO**

AMSAT Status Report

Joe will highlight recent activities within AMSAT and discuss some of our challenge, accomplishments, projects, and any late breaking news.

#### **Jerry Buxton AMSAT-NA Vice President for Engineering, N0JY**

Jerry will talk about the latest Fox and Golf (Greater Orbit Larger Foot Print) Projects

#### **Alan Johnston, Vice President AMSAT -NA Educational Services**

Subject: Alan will discuss AMSAT’s new Cubesat Simulator Program

#### **Robert Blankston Vice President AMSAT -NA User Services**

Robert will discuss AMSAT’s 50th Anniversary Operating Event, as well as the new AMSAT Ambassadors Program.

12:00-1:15

Room 3

### ARRL Member Forum

#### **Dale Williams, WA8EFK, ARRL Director -- Great Lakes Division**

GARRL welcomes all members and friends to this 2019 ARRL National Convention, hosted by Hamvention. ARRL is the national association for Amateur Radio in the US. 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. At this interactive session, you’ll hear from national and regional 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!

12:30-1:30

Room 4

### VHF-UHF-Microwave Forum

#### **Tony Emanuele, CQ Magazine VHF + Column editor**

**Donn Baker, WA2VOI** Your First Microwave Band... Cheap!

**John Young, KM4KMU** Observations on FM Contesting.

**Chip Taylor, W4AIM** Microwaves and Mountaintops, good and bad.

**Kent Britain, WA5VJS** Yagis: Stacking myths & old wives tales.

**Jeff Wadsworth, KI5WL** Inexpensive Test Signal Sources for 10 and 24 GHz.

**Tony Emanuele, K8ZR** 8 GHz Fun in the Arizona Sun.



11:45-1:00

Room 5

**Satern**

**Bill Feist, WB8BZH**

Bill is the National SATERN Liaison for The Salvation Army. SATERN is the Salvation Army Team Emergency Radio Network. Bill has been a member of SATERN since 1994 and is currently the Divisional Emergency Disaster Services Disaster Liaison for the Alabama-Louisiana-Mississippi (ALM) Division. In his 24 years of service as a volunteer and staff member, Bill has participated in or led numerous responses by The Salvation Army to major fires, hazardous materials incidents, SWAT actions, tornados, floods, hurricanes (Ivan, Katrina, Gustav and Isaac to name a few) and wildland / forest fires. He was also part of The Salvation Army response to at the World Trade Center in New York in 2001. Feist is a Certified Emergency Manager (CEM) through the International Association of Emergency Managers (IAEM).

2:00-3:50

Room 1

**Contesting Forum**

**Doug Grant, K1DG**

Doug was first licensed in 1967 and has been continuously active since that time. He has operated countless contests, and has won many of them. He was a founder of the World Wide Radio Operators Foundation (WWROF) and is currently working on a book about contesting for ARRL, due to be published in late 2019.

**Violetta Latham, KM4ATT**

**Marty Sullaway, NN1C**

The Team Exuberance WPX SSB operation at K3LR

What happens when the owner of a multi-multi contest station opens it up for an enthusiastic group of young operators from multiple home locations? The operators must make all the arrangements for travel, parental permissions, and raising the funds to cover travel costs before they make a single QSO.

**Victor Androsov, VA2WA**

**Randy Thompson, K5ZD**

Changing the game - Contesting with a Live Scoreboard

Have you ever wondered how your competition was doing during a contest? Live scoreboards make that possible. This talk will describe the current status of Online Scoreboards and how they can affect your operating and add fun and excitement to the game.

**Carlo De Mari, IK1HJS**

The Road to WRTC2022

The next World Radiosport Team Championship will be held in Italy in 2022. Learn how to qualify for the “Olympics of Ham Radio” or volunteer to help and start making travel plans to attend!

**Ed Muns, W0YK**

FT8 and the Future of Contesting

The speed of adoption of the FT8 mode has been unprecedented. It has already impacted “RTTY” contesting, and could have an effect on the future of contesting in general. Imagine a future with “Fox-Hound” mode in use on CW - working multiple stations on a band simultaneously...

**Chris Hurlbut, KL9A**

**Kam Sirageldin, N3KS**

TI7W and the Quest for 10,000 QSOs

What does it take for a single-op to make 10,000 QSOs in a single weekend? That’s



an average rate over 200 QSOs per hour for 48 hours. Operator skill, the “2BSIQ” dual-CQ technique, a suitable location, and a finely-tuned station are all needed. Hear what operator KL9A, and station builder N3KS have done to chase the goal.

1:50-3:20

Room 2 **AREDN**

**Andre Hansen, K6AH**

Andre has been a ham for 50 years, having passed his Novice in 1969 as WN6AQZ. As the AREDN “project manager” he finds this open-source, volunteer-based effort personally rewarding and is “...thrilled at how far the team has been able to take this technology”.

**AREDN - Broadening the Face of Ham Radio to a New Generation**

It’s not hard to imagine mesh technology having an appeal to younger hams. What was harder to foresee was the number of opensource Linux developers who would latch onto this project, get their ham licenses, and participate in the evolution of this technology.

Andre will discuss this phenomenon as well as bringing us up to speed on AREDN developments and notable implementations over the past year.

1:30-2:30

Room 3 **Engaging Today’s Radio Amateur**

**Howard E. Michel, WB2ITX, ARRL Chief Executive Officer**

Come meet ARRL’s new CEO, Howard Michel, WB2ITX – and hear from him about ideas and opportunities to more deeply interest and engage newcomers and inexperienced radio amateurs. “Ham radio shouldn’t abandon the old guardians of the hobby, but at the same time, it needs to have new things that appeal to people who have different interests and different passions.” A variety of topics will be covered, including the role of radio amateurs in advancing technology, opportunities to volunteer, and creating meaningful connections for young hams and educational institutions.

1:40-2:40

Room 4 **Quarter Century Wireless Association (QCWA)**

**Moderator: Ken Oelke, VE6AFO**

Ken was first licensed in 1961 as VE6AFO, and has been continuously active since that time. He has been President of QCWA since 2012. Ken enjoys all aspects of amateur radio, and operates on all bands from 160 meters to 70 CM. Moon bounce was one of his favorite modes.

**Carole Perry, WB2MGP**

QCWA Annual Members’ Meeting, Youth Activities & Forum

Celebrating Amateur Radio operators achieving 25 years in Amateur Radio, and develops resources to assist young Amateur Radio operators in furthering their education through the QCWA Scholarship Program.

Plan to attend this exciting forum to learn about QCWA Youth Activities, and the new QCWA/RCA Youth initiative. As well learn of our support for the ARISS Program, the ‘Young Ham Lends a Hand’ and the Dave Kalter, KB8OCP 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 other QCWA business. This is your forum, so be prepared to become engaged in QCWA’s future! Plan to participate in a lively ‘Question & Answer’ session.



- 1:15-2:15**      **Room 5**      **Lightning and Grounding**  
**Moderator: Ronald Cohen, K3ZKO**  
 Ron was in the Two-Way Radio field for 37 years dealing with lightning protection at remote mountaintop radio sites. You have to be in control of the lightning and direct it to go the shortest and with least resistance to ground.
- 4:00-5:00**      **Room 1**      **Gordon West, WB6NOA**  
 Gordo celebrates 50+ years of ham radio fun  
 When Field Day Plans Blow Out the Window  
 Gordon West will take you through the funny excitement of past Field Day bloopers, with special guest Chip Margelli, K7JA, and their classic observations of what can go wrong, what DID go wrong, with hilarious photos and sound effects.
- 3:30-5:00**      **Room 2**      **Digital Modes: Now and for the Future**  
**Mel Whitten, K0PFX**  
 Mel was an early adopter of HF digital modes from Amtor/Pactor, and various data and image transfer programs to spending the last dozen years on Digital Voice. Licensed on his 12th birthday, Mel has continuously been active on HF thru Microwave through his 61 years as an amateur radio operator. His current interest is in Hi-Def digital ATV designing and building systems to further enhance the user experience.  
**Mark Miller, N5RFX**  
 2 meter and 70 centimeter Digital Radio basics  
 An explanation of different types of digital modulation used on 2 meters and 70 centimeters and how to interface to radios available to Amateur Radio operators.  
**Bruce Perens, N6BP**  
 Return of the “HT Of The Future”  
 Out of the ashes of the first HT of the future prototype, a new SDR and Linux-based platform shows the power of Codec2 and soft modem-based communications for mobile and handheld platforms. Voice clarity, S/N, distance, fading and bandwidth are improved over FM and the first-generation digital voice platforms like D-Star, DMR and System Fusion. Advanced protocols bring many new features.  
**Rick Crockett, W0PC**  
 Integrating New Hams in a Digital World  
 Mentoring, How, When, and Where: Generating interest in ham radio begins with your 30 second spiel about ham radio. Public demonstrations like Field Day, Bike-a-thons and other public service events show we are still a modern communications resource. Makers Fairs are great places to demonstrate ham radio to a technically minded audience. Advertise license classes where your future students are likely to see, Show career opportunities that can grow out of the hobby.
- 2:45-3:45**      **Room 3**      **HamRadio Workbench Build Projects**  
**George Zafiropoulos**  
 Introducing the BenchDuino - The Ham Radio Workbench Podcast development platform for the Arduino and other processors  
 Microcontrollers are at the heart of many ham radio projects today. In this session we will talk about a practical approach to learning how to design and prototype circuits as well as writing and debugging code for the Arduino. Project examples include



the BenchDuino - a development platform for Arduino based projects and a 4 port remotely controlled coax relay featured on the Ham Radio Workbench Podcast.

2:50-3:50

**Room 4 Drake Legacy Equipment**  
**Mark Gilger, WB0IQK**

Mark was first licensed in 1966 and has been continuously active since that time. He is active HF SSB & AM. Mark is one of the net controls for the Drake 40 meter technical net in addition to the Kenwood Hybrid nets on 40 & 20 meters. He enjoys restoring Drake and Kenwood legacy equipment.

**Mike Bryce, WB8VGE**

Subject: THE HEATHKIT SHOP - DRAKE EQUIPMENT UPGRADES

Mike Bryce, WB8VGE, was licensed in 1975 and currently holds an Amateur Extra class license. Retired after nearly 50 years at Republic Steel, you'll find him running QRP on the low end of 40 meters. Mike was inducted into the QRP Hall of Fame in 2000. When the bands fold you'll find Mike up to his elbows fixing a broken radio. His spare time is divided by keeping the water levels topped up in the batteries for his solar power station and working in his greenhouse. Mike is a collector of old radios; Heathkit, Ten Tec, and of course Drake radios are his passion. He operates a one person website that caters to those looking for parts and upgrades. Mike is the author of numerous ham radio and solar power articles over the years. Mike is the author of the ARRL book, Emergency Power for Radio Communications.

4:00-5:00

**Room 3 ARRL Collegiate**  
**Andy Milluzzi, KK4LWR, ARRL Public Relations Committee; Tony Milluzzi, KD8RTT, ARRL Volunteer, 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, [www.facebook.com/groups/ARRLCARI](http://www.facebook.com/groups/ARRLCARI). 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 WYISM Snyder Family Collegiate Amateur Radio Endowment.

4:00-5:00

**Room 4 Robotics in the Classroom**  
**Kerry Hicks, KA9HFX**

Kerry was first licensed in 1980. For the past 6 years, he has been using his 34+ years of experience in engineering and education to coach FIRST robotics at the Dayton Regional STEM School. With the help of his XYL Juanita, he has worked to build a lasting program in robotics at the school.

4:00-5:00

**Room 5 The Portable Magnetic Loop**  
**Speaker: Alexandre Grimberg, PY1AHD**

Magnetic Loop antennas existed for more than 100 years and Alex decided to design the Portable Magnetic Loop Antenna for a simple - then - ever outdoor antenna operation, and as the ultimate solution for the antenna restricted hams. For over 15 years of intense work Alex was challenged to break 5 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 minutes presentation which will bring to the audience technical information and a lot of fun. Six short duration videos will be presented including some exotic projects such as the Coke Loop - <http://www.alexloop.com/artigo36.html> and the Stealth Tableantenna - <http://www.alexloop.com/artigo15.html>. Post 599, a BSA affiliated ham club for teens in the Phoenix area.

## Sunday, May 19<sup>th</sup>

- |            |               |  |
|------------|---------------|--|
| 9:15-10:15 | <b>Room 1</b> | <p><b>WWV</b><br/> <b>Matt Deutch, N0RGT</b><br/>           Matt, N0RGT, is originally from Wappingers Falls, New York. He was an Electronics Technician in the Coast Guard for 6 years and has worked at WWV for 30 years. Licensed since 1992.<br/>           Matt will give a presentation about the LF/HF broadcast station WWV/H/B and the upcoming 100th anniversary of the WWV time standard broadcast.</p>   |
| 9:15-10:15 | <b>Room 2</b> | <p><b>ARRL's New Volunteer</b><br/> <b>Riley Hollingsworth, K4ZDH</b><br/>           Amateur Radio has a long history of teaching the rules and regulations and helping each operator stay within the lines. Former ARRL Atlantic Division Vice Director Riley Hollingsworth, K4ZDH, will discuss the new ARRL Volunteer Monitoring Program.</p>   |
| 9:15-10:15 | <b>Room 3</b> | <p><b>Tornado Alert - Severe Weather Detector</b><br/> <b>Mickey Lee</b><br/>           Tornado Alert New weather detection technology<br/>           It is well known that tornadoes can be identified visually or by analysis of doppler radar. Advances in technology have allowed sensors that measure electrical energy, lightning and others sources, to determine how intense is the thunderstorm that is generating the energy. One device even determines distance and movement as it updates every minute. This talk will describe the technology and how to utilize for household protection, storm spotter activity, or lightning threat awareness. <a href="http://www.earlyalert.com">www.earlyalert.com</a></p>   |
| 9:15-10:15 | <b>Room 4</b> | <p><b>Fasttrack Ham</b><br/> <b>Michael Burnette, AF7KB</b><br/>           Award-winning ham radio author Michael Burnette, AF7KB, is the author and narrator of the popular Fast Track ham license training programs. His books, e-books, and audio programs reflect his commitment to comprehensive amateur radio education. His programs have been purchased by thousands of hams, whether to get their first license or their Amateur Extra license. His passion for the material, his use of an innovative progressive learning system, his commitment to creating a useful body of knowledge for the students, and his lighthearted, often humorous approach to the topic has proved quite popular.<br/>           Michael is a dynamic and entertaining presenter with decades of presentation experience. He and his wife, Kerry, AG7SC, live near Seattle, WA. They are very active with their local club, the Snohomish County Hams Club, where Michael orients new hams and Kerry leads a weekly YL net.<br/>           A lively, informative, and fun 50 to 60 minutes on study techniques that really work -- as Michael says, "techniques tested and peer-reviewed by real neuro-scientists with real lab coats and clipboards!"</p> |



- 10:30-11:30**      **Room 1**      **Power and Energy for the Radio Amateur**  
**Bob Bruninga, WB4APR**  
 Solar costing less than half the utility; Electric Vehicles able to power your FD site or house for a week; Cutting heating fuel costs in Half with portable and window heatpumps! These are just some of the exciting projects covered in this new and exciting forum.  
 Second to APRS, Bob (WB4APR) Bruninga’s interest in Ham Radio is about emergency and field operations and saving money on Energy. Now he has written a book on Energy and Power for the Radio Amateur that is newly published by the ARRL.  
 He will describe how to get involved in solar addressing grid-tie and off-grid applications and include many DIY approaches to this highly economical source of power. He has a history with EV’s going back to 1970 when he built his first EV as a senior at Ga Tech. Then acquiring a City Car in the 1980s and more recently converting salvage Priuses for solar power and emergency Field operations. Now he has found the Volt to be the ideal EV for long EV local range and for cross country trips.
- 10:30-11:30**      **Room 2**      **Discovering Radio Communications**  
**Presented by ARRL Education & Technology Program Instructors Tommy Gober, N5DUX and Larry Kendall, K6NDL**  
 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 3**      **Principles of Amateur Radio Leadership**  
**Michael Kalter W8CI, Rick Allnutt WS8G**  
 Title: 5P – The Five Principles of Amateur Radio Leadership  
 Summary: Leading Amateur Radio activities requires all the skills of leadership useful in other volunteer activities and non-profit organizations. But, really effective leadership of Ham Radio organizations also requires active and visible participation.
- 10:30-11:30**      **Room 4**      **Digital Mobile Radio**  
**John Burningham, W2XAB**  
 John has been involed with repeaters since the early 1970’s and is currently active with DMR and the K4USD Network. Winner of the 2016 Hamvention® Technical Achievement Award. He is a contributing author to the ARRL Handbook and QST. He has a beginners guide to DMR available free at <http://guide.k4usd.org>





# Forums Overall Schedule

2019 Forums Overall Schedule														
FRIDAY May 17, 2019			SATURDAY May 18, 2019			SUNDAY May 19, 2019								
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														
9:30 AM	Remote Access to your Amateur Radio Station Mark Asker K6JFO 9:15-10:15	The ARRL Lab: Trials, Tribulations and (Tail?) Tales 9:15-10:30	SHARES HF EMCOMM Ross Merlin WA2WDT 9:15-10:15	Parks on the Air Julie Martin K8VOX 9:15-10:30	Ham Nation Bob Heil K9EID 9:15-10:15	2018 Youth Forum Carole Perry WB2MGP 9:15-12:00	Foxhunt/ARDF Dick Arnet WB4SUV 9:15-10:40	HamSCI Nathaniel Frizzell W2NAF 9:15-10:30	Summits on the Air Keith Schlottman KR7RK 9:15-10:15					
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# Award Winners

The Hamvention Awards committee is pleased to announce the winners of the four Hamvention 2019 awards. Co-chairs Michael Kalter, W8CI, and Frank Beafore, WS8B, thanked all those who nominated a candidate. They also thanked the selection committee for its efforts, “This is done with much deliberation and thought within the awards team to judge the best of all the applications we receive.”

The Hamvention Awards event has been held since 1955. Over these years many amateurs have been honored for their dedication and selfless contributions to our avocation and to mankind. An honors convocation will also be held on Saturday evening of the Hamvention weekend and a presentation of the award winners will be made to the general audience on Sunday afternoon prior to the prize award activity.

## Club of the year: Nashua Area Radio Society



The Nashua Area Radio Society (NARS) is an ARRL Special Service club in southern New Hampshire with a focus on mentoring and youth outreach to bring new amateurs into the hobby and help them to get on the air. More than 200 club members contribute to activities which include license class training, youth activities, on the air operating activities, and emergency communications training. A 501(c3) non-profit organization, the club has raised more than \$8,000 to enable its Amateur Radio mentoring and outreach activities and programs.

NARS is committed to bringing new people, young and old into the amateur radio. Technician, General and Extra classes are each taught twice yearly and have helped more 210 students earn a license or an upgrade with a success rate exceeding 90 percent. Club Field Day operations provide its members with ample opportunity to develop practical Emergency Communications skills, station building expertise, and develop on-air operating skills. In addition to monthly membership meetings, the club holds a monthly “Tech Night” where members provide hands-on training which helps new and experienced Amateurs to build stations, develop technical skills, and try new activities. Video from these sessions is professionally produced to provide a library of over 50 hours of Amateur Radio demonstrations and training.

NARS holds Amateur Radio Youth Expos at local events including the Boxboro ARRL New England Convention, NEAR-Fest, and local schools and libraries. These Expos feature hands-on displays and a kit building activity along with three GOTA stations to engage interest from young and old in Amateur Radio.

The club has partnered with four local high schools and middle schools to develop and deliver STEM learning programs based upon Amateur Radio. One such project provides 14 hours of member delivered classroom presentations about Amateur Radio and High-Altitude Balloons (HABs). Students in the HAB programs launch a HAB to the edge of space and track it via Amateur Radio. As part of the ARISS program, NARS has also partnered with Hudson Memorial School, a local middle school, to help students to contact Astronaut Serena Aunon-Chancellor on the International Space Station using Amateur Radio.



# Award Winners

## Amateur of The Year: Nathaniel Frissell, W2NAF

Nathaniel Frissell, W2NAF, has been a licensed ham since 1998 and is the principal founder and leader of the Ham Radio Science Citizen Investigation (HamSCI), a collective designed to join professional scientific researchers and the amateur radio community together to help each other. Nathaniel first learned about ham radio while in middle school from his elmer, Greg Nitkowski, N2BSA, at a Jamboree on the Air event. The SSB voices he heard from around the world while in that small cabin in the woods captured his imagination and led him to study the ionosphere ever since! Scouting has played an incredibly important part of Nathaniel's amateur radio career. He started the W2FSR ham radio station at Forestburg Scout Reservation, where he served as Technology Center Director and taught radio merit badge and licensing for 6 summers. He also served on K2BSA National Scout Jamboree staff three times, is an Eagle Scout, a Vigil Honor member, and remains an active scouter.



## Technical Achievement Award: Pietro Begali I2RTF

Following his mechanical studies and the experience gained at the precision mechanics workshop with his father Guido Begali and later with other well-known personalities in the history of Italian mechanics, he began his work experience in his workshop in Brescia in 1954.



Passionate about his work and dedicated to his family, when the market of knitting machines for which he has always produced details of precision went into recession, he dedicated his amateur radio activity and his experience, in order to save his company and so to be able to continue his work experience in the field of mechanics thus producing Telegraphic Keys.

Always ready to challenge the fate and adversities of life and work, he has always put his heart and his experience at the service of those who requested his intervention.

Always passionate about reading (with about 10,000 pieces in his library), for most of Radio technique, mechanics and science, he wrote his book "History and Stories of Radio" in 2005, including not only history of radio and definitions of radio technology but also personal experience of work and personal life.

The most remote of Piero's memories goes back to 1943 when he listened to the home receiver (a Philips 538) and heard a dramatic speech: "Italians, I want to be once again sincere, displaced, displaced, displaced".

## Special Achievement Award: Christian Janssen DL1MGB/KO2WW

Chris Janssen, DL1MGB/KO2WW, as president of the World Radiosport Team Championship 2018, lead the more than 300 volunteers that put on the successful competition in Germany which resulted in 262,746 QSOs.

First licensed in 1990 at the age of 14, Chris began his contest career on VHF. But he changed to HF when he took part in his first CQWW in 1993 and joined the Bavarian Contest Club one year later. The participation in the CQWW SSB 2000 in the team of CN8WW is still the highlight so far, being a world record holder in the Multi/Multi class for over 17 years now. Several activities within the team of DA0HQ followed resulting in several #1 places.

In 1997 Chris found out that Contesting and DXing fit very well when he went on his first DXpedition to the Faroe Islands. Since then he was active from over 20 DXCCs including 4U1VIC, 9Y4TBG, A61AJ, CN8WW, KH6/KO2WW, LX7I, OY6A, Z37M, TX5K (Clipperton), VK9DLX, VK9DNX, VK9DWX or ZL8X. Chris and the Lagunaria DX Group were the organizers of the last four. The last two were awarded as "SWODXA DXpedition of the Year". Back in Germany, when time permits, Chris also likes to contest or to chase DX.



# Previous Award Winners

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## 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..Marttie 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  
2018..Valerie Hotzfeld, NV9L



# Previous Award Winners

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## SPECIAL ACHIEVEMENT AWARD

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|--|--|
| 1977.....South American Moonbounce (EME)<br>Expedition Team of the Mt. Airy VHF<br>Radio Club Inc., Philadelphia, PA<br>Elliott Weisman, K3JJZ<br>Anthony Sousa, W3HMU<br>S. William Olsan, W3HQT<br>Walter Boldman, K3BPP<br>Daniel Mitten, WA3NFU<br>Socrates Martinez, WB3AFY<br>Bohner Aguilar, WB3AOP | 1995..... Ed Briner, WA3TVG<br>1996..... John Kraus, W8JK<br>1997..... Joseph J. Fairclough, WB2JKJ<br>1998..... John B. Bellows, Jr., KØQB<br>1999..... Paul D. Lieb, KH6HME<br>2000..... A. Prose Walker, W4BW<br>2001..... Frank Bauer, KA3HDO<br>2002..... Dr. Owen Garriott, W5LFL<br>2003..... Jonathan Taylor, K1RFD<br>2004..... George S. Wilson III, W4OYI<br>2005..... D. Bharathi, VU2RBI<br>2006..... Riley Hollingsworth, K4ZDH<br>2007..... Ed Hare, W1RFI<br>2008..... Emery McClendon, KB9IBW<br>2009..... Richard Garriott, W5KWQ<br>2010..... Richard “Dick” Ross<br>2011..... Fred L. Lloyd, AA7BQ<br>2012..... Steve Betza, WZ2V<br>2013..... George a. Thomas, Jr, W5JDX<br>2014..... David Sumner, K1ZZ<br>2015..... Thomas C. Medlin, W5KUB<br>2016..... Stan Horzepa, WA1LOU<br>2017..... S. Ram Mohan VU2MYH<br>2018..... Heriberto Perez, KK4DCX<br>Victor Torres, WP4SD<br>Emilio Ortiz JR, WP4KEY |
| 1978..... Ronald Moorefield, W8ILC   |  |
| 1979..... Edward Tilton, W1HDQ   |  |
| 1980..... Joseph Merdler N6AHU   |  |
| 1981..... Bill Pasternak, WA6ITF,<br>Bill Orenstein, KH6IAF  |  |
| 1982..... Bruce Humphrys, KØHR   |  |
| 1983..... Lenore Jensen, W6NAZ   |  |
| 1984..... Ethel Smith, K4LMB   |  |
| 1985..... Judith Frye, KG8P  |  |
| 1986..... Rev. Michael Mullen, C.M., WB2GQW  |  |
| 1987..... Arthur Gentry, W6MEP   |  |
| 1988..... Fred Hammond, VE3HC  |  |
| 1989..... Phil Karn, KA9Q  |  |
| 1990..... Paul Thomson, KCØVG  |  |
| 1991..... Nate Brightman, K6ØSC  |  |
| 1992..... Ned Raub, W1RAN  |  |
| 1993..... Robert Adams, WA9ZMO   |  |
| 1994..... Russ Kroeker, N7HGE  |  |
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## TECHNICAL EXCELLENCE AWARD

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- |                                      |  |
|--------------------------------------|--|
| 1984.....Lyle Johnson, WA7GXD        | 2003..... Steve Dimse, K4HG                |
| 1985.....Richard Whiting, WØTN       | 2004..... Barry Sanderson, KB9VAK          |
| 1986.....M. E (Doug) DeMaw, W1FB     | 2005..... Dr. Jerry Seveck, W2FMI          |
| 1987.....Henry (Hank) Oredson, WØRLI | 2006..... Richard Illman, AH6EZ            |
| 1988.....Lew McCoy, W1ICP            | 2007..... David Cameron, VE7LTD            |
| 1989.....Byron Goodman, W1DX         | 2008..... Thomas C. McDermott, N5EG        |
| 1990.....Bob McGwier, N4HY           | 2009..... Copthorne MacDonald, VY2CM       |
| 1991.....Lou McFadin, W5DID          | 2010..... Simon Brown, HB9DRV              |
| 1992.....Gerald Cromer, K4NHN        | 2011..... Roy W. Lewallen, W7EL            |
| 1993.....Dick Jansson, WD4FAB        | 2012..... Joel R. Hallas, W1ZR             |
| 1994.....Dick Newell, AK1A           | 2013..... David Rowe, VK5DGR               |
| 1995..... Philip Ferrell, K7PF       | 2013..... David M. Whitten, II, KD0EAG     |
| 1996..... William Orr, W6SAI         | 2014..... David Freese Jr, W1HKJ           |
| 1997..... Al Ward, W5LUA             | 2015..... Reverend George Dobbs, G3RJV     |
| 1998..... Robert E. Bruninga, WB4APR | 2016..... John S. Burningham, D.I.T, W2XAB |
| 1999..... Alfonso R. Torres, KP4AQI  | 2017..... Rob Brownstein K6RB              |
| 2000..... Dr. H. Paul Shuch, N6TX    | 2018..... Chip Cohen, W1YW                 |
| 2001..... Peter Martinez, G3PLX      |  |
| 2002..... Allen Waller, K3TKJ        |  |
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# 2019 ARRL/DARA Scholarships

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## Taylor J. Herndon, KG7VZF

Taylor J. Herndon, KG7VZF, is from Star, Idaho. He received his Technician license in 2015. He was attracted to Amateur Radio “as a way of connecting with people” as well as using radio “to track high power rockets” which is his hobby. He says Amateur Radio had a major impact on his life “because it is such a fun community” where “everyone is willing to share information and new things they learn.” Taylor says that through Amateur Radio he has met some of his best friends and mentors.

Taylor won ‘Best in Show’ at Idaho’s Science and Engineering Fair in 2017. That same year, his team was also a finalist in the International Science and Engineering Fair, took second place in the Aerospace Engineering category at Imagine Tomorrow, won the Air Force Award for Sustainable Engineering, received the Ricoh Sustainable Development Award, won the National Oceanic and Atmospheric Administration Award for Academic Excellence, and was an Idaho Science and Aerospace Scholar.

## Michelle C. Massa, KDØOTN



Michelle C. Massa, KDØOTN, was first licensed at 10 years old. She is from Eaton, Ohio and was ranked in the top of her high school class.

Michelle’s father, Michael, KCØIVF, and Michelle, decided to learn Morse code together. For Michelle’s fifth grade project, she decided to learn the history behind Morse code and also earn her Amateur Radio license. The project required an interview, and she scheduled a call with Gordon West, WB6NOA. After moving to Ohio, Michelle met a Civil Air Patrol Representative for the Wright Patterson Squad. Within a few months, she joined the squad, and has since been involved in search and rescue operations and training, and communications. She also attends Hamvention regularly, and even got to meet “Gordo” in person!

Michelle is attending Wright State University in Dayton, Ohio and is majoring in Computer Engineering.

## Elizabeth Moon, KEØBLC



Elizabeth Moon, KEØBLC, of Cedar Rapids, Iowa, was first licensed in 2014, and currently holds a General-class license. She learned about Amateur Radio from her father, Mark, N3AVA, playing a game called “Antenna, Transmitter, or Receiver?” in which her father would point to an object and ask what it could be used for. Elizabeth learned that a window screen could be used as an antenna if it was made with aluminum mesh. She also attends the local hamfest with her father and helped him install a solar power backup for a UHF repeater at their house.

At school, Elizabeth is a part of the National Honor Society and the band. She was selected to play with the state’s prestigious All-State band in 2017. She is attending the University of Iowa and is majoring in Neuroscience.



# 2019 ARRL/DARA Scholarships

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## Daniel Prestin, KD8UTG

Daniel Prestin, KD8UTG, of Birch Run, Michigan, was first licensed in 2013. Daniel and his father, William, KD8UTH, converted a school bus into the family RV and installed a ham radio setup. He is currently studying for his General-class license.

Daniel has been very active in Boy Scouts and received his Eagle Scout award in 2015. Through Scouts, he has participated in food drives and placing flags on veterans' graves. Daniel received his Amateur Radio merit badge and organized his troop's participation in Field Day.

Daniel is also active in the town's Rotary Club, 4-H Club, Pep Band, and Student Council. He is attending Purdue University and plans to be a Civil Engineer.



## Benjamin Tyrrell, KEØAER

Benjamin Tyrrell, KEØAER, of Mission, Kansas was first licensed in 2014. He currently holds an Amateur Extra class license and was ranked at the top of his high school's graduating class, achieving the Honor Roll all four years. Benjamin was also active on his school's cross country and track and field teams, and was named a Kansas State Honor Scholar in 2017.

Benjamin also volunteers for the Urban Trail Company, a non-profit that builds and maintains trails in Missouri and Kansas parks. He has also participated in his school's DECA and Robotics programs, plays the guitar, ukulele, and banjo and enjoys mountain biking and taking part in Field Day.



## Lauren Vidal, K6LIV

Lauren Vidal, K6LIV, of Vacaville, California, holds a General-class license. She says that "Amateur Radio opened a gateway to the worlds of engineering and technology" to her, teaching her how to solder, understand the basics of electricity, and the science behind sound and wavelengths. "I am thankful to have grown up with ham radio in my life, as it has strengthened my communication skills, my interests in basic engineering, and my overall appreciation for the technologies available to us."

In high school, Lauren received Presidential High Honors in 2015, 2016, and 2017, was a Gold Medalist for the National Spanish Exam, and received the California State Seal of Biliteracy. She also participated in the student body, theater, choir and jazz ensemble, and volunteered at the North Bay Hospital and as Solano County Library Tutor.

The ARRL Foundation will be announcing the recipients of DARA Scholarships for this year after May 15<sup>th</sup>. 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](mailto:foundation@arrl.org). *Applications must be submitted no earlier than October 1<sup>st</sup> and no later than February 1<sup>st</sup> along with a current academic transcript.*



# Dayton Hamvention Past General Chairs

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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	
2017-2018 .....	Ron Cramer, KD8ENJ	

\* Silent Key





# Past DARA Presidents

1926	C.A. Petry.....	8AWN	1973	Wesley Duckwitz.....	W8IPT
1927	C.A. Petry.....	8AWN	1974	Ken Mills.....	W8RLY
1928	Lou Driggs.....	W8HEQ	1975	Robert O. Wilson.....	W8JRN
1929	Ray Stotts		1976	Robert O. Wilson.....	W8JRN
1930	Art John.....	W8DMI	1977	Melvin L. Levy.....	WA8YKV
1931	Fred Rawson.....	W8KKH	1978	Melvin L. Levy.....	WA8YKV
1932			1979	William G. Ingling.....	W8SVI
1933	Fred Allen.....	W8GER /W8FU	1980	William G. Ingling.....	W8SVI
1934			1981	Victor M. Stauder.....	N8FPF/WA2KOO
1935	Dan C. McCoy.....	W8CI/W8DG	1982	Victor M. Stauder.....	N8FPF/WA2KOO
1936			1983	Thomas Holmes.....	N8ZM
1937			1984	Victor M. Stauder.....	N8FPF/WA2KOO
1938	Emil Henrich.....	W8OVL	1985	Edgar "Red" Smith.....	W8RKL
1939			1986	Ray Smith.....	KR8B
1940	Russ Gardner.....	W8TPC	1987	Ray Smith.....	KR8B
1941			1988	Al Torres.....	KP4AQI
1942	Cheever Ely.....	W8LJ	1989	Thomas Holmes.....	N8ZM
1943	Cheever Ely.....	W8LJ	1990	Thomas Holmes.....	N8ZM
1944	Cheever Ely.....	W8LJ	1991	Ron L. Moorefield.....	W8ILC
1945	Hyde E. Ruble.....	W8PTF	1992	Thomas Holmes.....	N8ZM
1946	Hyde E. Ruble.....	W8PTF	1993	Victor M. Stauder.....	N8FPF/WA2KOO
1947	Russ Hardy.....	W8AQT	1994	Thomas Holmes.....	N8ZM
1948	Clem Wolford.....	W8ENH	1995	Dave Coons.....	WT8W
1949	John Willig.....	W8ACE	1996	Dave Coons.....	WT8W
1950	Clem Wolford.....	W8ENH	1997	Michelle Ervin.....	KA9FUL
1951	Frank Schwab.....	W8YCP/W8OK	1998	Gary DesCombes.....	N8EMO
1952	Frank Schwab.....	W8YCP/W8OK	1999	Gary DesCombes.....	N8EMO
1953	Hyde E. Ruble.....	W8PTF	2000	John Phillips.....	N8ZGT
1954	Rudy Plak.....	W8ZOF	2001	Reuben Meeks.....	W8GUC
1955	Allan D. Gunston.....	W8GQ	2002	Reuben Meeks.....	W8GUC
1956	Andrew B. Henderson.....	W8WYL	2003	Mike Buehler.....	N8XGA
1957	Robert G. Siff.....	W8QDI	2004	Mike Buehler.....	N8XGA
1958	Ed F. Bonnet.....	W8OVG	2005	Michael Kalter.....	W8CI
1959	Joseph H. McNutt.....	W8GFN	2006	Michael Kalter.....	W8CI
1960	Walter G. Burdine.....	W8ZCV	2007	Jim Simpson.....	WB8QZZ
1961	Robert F. Zimmerman.....	W8DPW/W8ZM	2008	Jim Simpson.....	WB8QZZ
1962	Hyde E. Ruble.....	W8PTF	2009	Steve Coy.....	K8UD
1963	Richard D. McFadden.....	K8ERE	2010	Jim Simpson.....	WB8QZZ
1964	Ted Suarez.....	K8BSC	2011	Steve Coy.....	K8UD
1965	Robert E. Wilcox.....	K8EJI	2012	Don Dubon.....	N6JRL
1966	Jim Dakin.....	K8BPC	2013	Don Dubon.....	N6JRL
1967	Ken Mills.....	W8RLY	2014	Reuben Meeks.....	W8GUC
1968	George Shearer.....	WA8IHC/KE8WJ	2015	Don Dubon.....	N6JRL
1969	George Shearer.....	WA8IHC/KE8WJ	2016	Andrew Anderson.....	N8VES
1970	Owen Vance.....	WA8PHW	2017	Andrew Anderson.....	N8VES
1971	Jules Wittebort.....	W8SE	2018	Ron Cramer.....	KD8ENJ
1972	Budd Chaney.....	WA8UUX			



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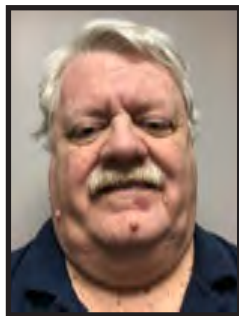
# Dayton Amateur Radio Association

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## DARA Board



Ron Cramer, KD8ENJ  
President



Jim Storms, AB8YK  
Vice President



Nancy Krodel, KC8RMT  
Secretary



Michael Kalter, W8CI  
Treasurer



Jim Tideman, N8IDS  
Senior Trustee

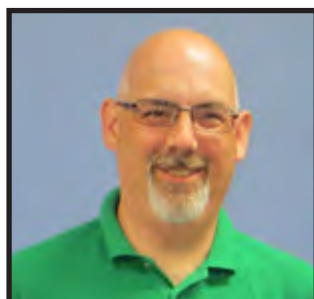


Jeff Devoe, K8JTD  
Junior Trustee



Jack Gerbs, WB8SCT  
Hamvention General Chair

## Planning Council



Rob Lunsford, KB8UEY



Charles Kaiser, KD8JZR



Carl Rose, K8CPR



While you are in town be sure to stop by the newly re-modeled club house with a 4000 square foot addition



**Come join us  
for our Open  
House!**

### DARA Club House

#### Open House Hours:

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

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

#### Directions to DARA's Club House 6619 Bellefontaine Road

**From I70**  
Go South on Brandt Pike to Taylorsville Road (0.4 miles) and turn left. Follow Taylorsville Road Westbound for 1 mile to stop sign at Bellefontaine Road. Turn right on Bellefontaine and follow 1.1 miles to 6619 Bellefontaine Road on the right just north of the traffic light.



Wright Brothers Parkway  
(Also known under various names: Turner Rd, Shoup Mill Rd, Needmore Rd, & Harshman Rd.)

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