## Hamvention®

The Radio Frontier



Dayton • 2016

The Dayton Convention & Visitors Bureau Welcomes

## HAMVENTION



**CONVENTION & VISITORS BUREAU** 

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#### Welcome to the 2016 Dayton Hamvention

#### The Radio Frontier... Looking to new methods and devices in communication.

Welcome back to Dayton and the 65th Dayton Amateur Radio Association sponsored Dayton Hamvention This year brings with it newer and more challenging communication equipment and methods than have never been seen until now. With the vast social networks of advertising and media to get the information to the public, being on the cutting edge of the equipment, and getting that message out to the public, is the exciting part of what Hamvention and other technical gatherings can do. We strive to bring that together with the tried and true tools of our hobby.

With our participation in shows in Germany and Japan, we have found the common interests of our Amateur Radio hobby that are growing and need to be showcased to bring in the youth as well as the seasoned amateur. As well as generating good will and understanding between different cultures in our hobby, we are forming friendships that will last lifetimes.

With the growing volunteer base we are fortunate to have here in Dayton, we once again are striving to make the 2016 event another memorable and successful weekend for all attendees. Make your plans now to help us celebrate our 65th year, and help it to continue to be the "show of shows" when it comes to Amateur Radio.

My Assistant General Chairman, Ron Cramer, KD8ENJ, is working hand in hand with all of our 56 volunteer Hamvention Committee Chairmen to move fully prepared into the changes and challenges 2017 and 2018 will bring.

Thank you for your continued support for 2016, as I look forward to my role, whatever that will be, to assist in the continued success of Hamvention moving forward.

73, Jim Tiderman N8IDS 2015-2016 General Chairman

Jim Tiderman, N8IDS General Chairman



Ron Cramer, KD8ENJ 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 Chuck Wright, K8MDB

### **Souvenir Program Committee**

Chair	Charles Wright, K8MDB
Asst. Chair	Jerry Miller, WD8QAI
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.

#### **Activities & Times**

#### FRIDAY ACTIVITIES

8:00 a.m. - 6:00 p.m. Flea Market open. Bus service available starting 7:00 a.m.

(Buses are scheduled to pick up passengers at 7 a.m. to arrive at HARA by 8 a.m.)

9:00 a.m. - 6:00 p.m. Inside Exhibits open, prizes on display.

9:15 a.m. - 5:00 p.m. Forums and scheduled activities.

10:00 a.m. - 5:00 p.m. Amateur Radio License Exams.

11:00 a.m. - 6:00 p.m. Hourly prize drawings.

#### SATURDAY ACTIVITIES

8:00 a.m. - 5:00 p.m. Flea Market open. Bus service available.

9:00 a.m. - 5:00 p.m. Inside Exhibits open. Prizes on display and Exams.

9:15 a.m. - 5:00 p.m. Forums and scheduled activities.

9:00 a.m. - 3:00 p.m. Hourly prize drawings.

10:00 a.m. - 4:00 p.m. Amateur Radio License Exams.

#### **SUNDAY ACTIVITIES**

8:00 a.m. - 1:00 p.m. Flea Market open.

8:00 a.m. - 3:00 p.m. Bus service available.

9:00 a.m. - 1:00 p.m. Inside Exhibits open, prizes on display.

9:00 a.m. - 12:00 p.m. Hourly prize drawings.

9:15 a.m. - 12:00 p.m. Forums and scheduled activities.

1:00 p.m. Award Winners' Presentation in Hara Arena.

1:00p.m. Prize Drawing in Hara Arena (unclaimed hourly prizes, followed by main prizes).

Bus Service will be available for a short time after the main prize drawing.

#### 2016 Hamvention Souvenir Lanyard

The DARA Boy Scout Venturing Crew 73 will be offering "DAYTON HAMVENTION 2016" souvenir lanyards in TWO locations this year, Main Lobby of HARA ARENA and just inside the EAST HALL Entrance. We also will be offering laminating to protect your ticket. We also have Red-White-Blue striped or Royal Blue lanyards.

#### All lanyards include laminating your HAMVENTION admission ticket.

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

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

#### Hours:

7am till 4 pm Friday and Saturday 9am till Noon Sunday (HARA Main Lobby ONLY. Sorry, no laminating on Sunday)

Thank you for your support of DARA's Amateur Radio Youth Scouting group.



#### **Services**

#### **BAGGAGE CHECK**

Baggage (boat anchors) can be checked for \$3.00 per claim. The Baggage Check Room is located across the hall from Forum Room 3, just inside Conference Center entrance (Door #6) on the left. All items must be reclaimed by closing time each day. No overnight storage is permitted. Time is extended to 3:00 p.m. on Sunday.

#### **BANKING SERVICES**

Local banks are located near the former Salem Mall area. (See map on page 46) An ATM is located to the right of Hara Arena's front door and opposite booth 483 (See map on pages 22-23).

#### DARA BOOTH/MEMBERSHIP

The DARA Booth is located in the lobby of Hara Arena. Programs are available. DARA membership is located inside of Door 14 (See map on pages 22-23).

#### **EMERGENCY MEDICAL CARE**

On-site Emergency Medical Services are located to the right of the Conference Center Entrance. (See map on Pages 22-23).

Emergency care is also available from the following:

Doctors' Urgent Care

5915 N. Main Street, (937) 278-3826

8:30 a.m. - 10:00 p.m.

From Hara Arena: take Shiloh Springs east to traffic light at Main St. Turn left to second building on left.

Good Samaritan Hospital

2222 Philadelphia Dr., (937) 734-2612

From Hara Arena: take Wolf Road to Salem Ave. Turn left, proceed to the traffic light at Philadelphia. Follow signs to ER Entrance.

#### **LOST & FOUND**

The DARA Booth, located in the Hara Arena Lobby, will accept lost items. Items can be retrieved at this location the day the item was lost. To retrieve lost items later, please go to Hara Arena Box Office.

#### MESSAGE CENTER

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

#### LICENSE EXAMS

Testing this year is at Basore Road Grace Brethren Church for Technician, General and Extra Class Amateur licenses. Friday, May 15 testing starting at 10:00 a.m. to noon is available to anyone who does not already have an amateur license. Testing from noon until 5:00 p.m. on Friday is for all classes of licenses. Saturday, May 16, starting at 10:00 a.m.

until 4:00 p.m. testing is for all classes of licenses.

Shuttle vans will be at main entrance Door #14 to the Arena. Vans will have signs in their windows. Signs will be at the area where the shuttle vans will load and unload. They will have signs in their windows. They will run every half an hour starting at 8:30 a.m. both Friday and Saturday. It is a very short ride.

The Basore Road Grace Brethren Church besides hosting the exams this year, has a parking area that are charging to park in and will have food available to purchase. You can ride the shuttle van to the church (at no charge) to buy food from them.

Exams will be given on a first-come, first-served basis. **No Pre-registration** is available unless special testing accommodation is required. Large print exams will be available at the regular test sessions. If you need your exam read to you, please email (exams@hamvention.org) and let us know how we can accommodate you and which session you would like to attend. **There is no fee for these exams**.

#### Each applicant must have the following:

- 1) The original current amateur radio license (to show us and a copy for file).
- 2) The original and a copy of any CSCE or other paperwork which will be submitted for credit.
- 3) A government-issued photo ID (e.g. driver's license)

#### SHIPPING SERVICE

The UPS Store offers freight service from the floor of Hamvention, near the North Hall entrance (Door #20) Booths 165 & 166. (See map on Page 22).

Hours are as follows:

Friday 9:00 a.m. - 6:00 p.m. Saturday 9:00 a.m. - 5:00 p.m. Sunday 9:00 a.m. - 1:00 p.m.

#### SPECIAL EVENT STATION

Hamvention will broadcast to the world via the Special Event Station in the Ball Arena.

The station will be operating during the hours of the inside exhibit area. Frequencies (+/- QRM) will be:

40M - 7.050 / 7.227

20M - 14.050/ 14.270

10M - 28.050/ 28.470

Times 9:00 a.m.-6:00 p.m. EDT Friday & Saturday and 9:00 a.m.-11:00 a.m. EDT Sunday. CW will be tried on the hour as conditions permit. The station will have paddles for CW. The special event station will be utilizing Yaesu FT-3000 radios this year.

For QSLs and certificates, please contact ARRL.

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



#### **Transportation & Parking**

#### 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 146.64(-). Dayton hams also monitor 223.94 (-) and 442.1 (+).

#### FREE PARKING & BUS SERVICE

Satellite Parking - at the former Salem Mall located at the corner of Shiloh Springs Road and Salem Avenue. Bus Service (Handicap Equipped) is provided to and from Hamvention. Buses run continuously starting at 7:00 a.m. and complete their routes as quickly as possible. Due to changing traffic patterns and bus loads, an exact bus schedule is impossible. Three-day passes will be available on Friday for \$8. Two-day passes will be available on Saturday for \$6. A Sunday only one-day pass will be available on Sunday for \$4. Bus tickets may only be purchased at the Salem Mall parking area under the Bus Tickets Sales tent and cannot be purchased at Hara Arena. Keep your bus ticket, as there is no limit on the times you may ride the bus per day.

#### PAID PARKING

Hamvention has no paid parking available at the Arena. The only Hamvention-sponsored parking is the former Salem Mall parking lot with bus service. There is adjacent parking available from private parties near HARA but these are not controlled by Hamvention.

#### TRUCK & TRAILER PARKING

Semi-trucks and/or trailers, other over-sized vehicles, and large self-contained vehicles can park in designated areas at the former Salem Mall located at the corner of Shiloh Springs Road and Salem Avenue. No overnight parking or camping is permitted. All vehicles must be removed by 9 p.m. each night. The Trotwood police department will enforce the no overnight parking rule.

### Future Hamvention Dates

May 19, 20, & 21, 2017 May 18, 19, & 20, 2018 May 17, 18, & 19, 2019

#### **CAMPER PARKING**

Campers, trailers, self-contained vehicles, or vehicles that require more than one space can park at the former Salem Mall located at the corner of Shiloh Springs Road and Salem Avenue. From there you may take the bus to Hara Arena. Three-day passes will be available on Friday for \$8. Two-day passes will be available on Saturday for \$6. A Sunday only one-day pass will be available on Sunday for \$4. No overnight camping is allowed in the former Salem Mall parking lot.

#### TEMPORARY LOADING PASS

A temporary loading pass may only be obtained from the guard at Entrance 1 during the show (see map on Page 23). This restricted loading pass will be valid for 20 minutes and will allow you to use a designated area to load and unload equipment, or to pick up your exhibitor packet at the Exhibits Office. These passes will be time stamped and must be given to the guard at the exit when you leave.

#### **Golf Cart Services**

The Golf Cart Committee continues to provide no-cost shuttle rides for customers to/from the ADA parking area and the main arena from 7:00 a.m. - 6:00 p.m. For safety reasons, we do not take passengers in and out of the flea market area. However, if you are in the flea market and you purchase a large or heavy item we do provide hauling service based on availability. To ask for such assistance, please visit the flea market office and we will assist you ASAP. Please understand there may be a delay as we are sometimes assisting other customers.



#### **SCOOTERS**

Arrangements may be made by contacting Scootaround Inc. toll-free at 1-888-441-7575, by email at info@scootaround. com, through their website at www.scootaround.com, or by fax at (204) 478-1172. Rental rate is \$165.00 based on a three-day period. Equipment will be available on site based on availability for \$65.00 a day. Advance reservations are encouraged. To pick up your scooter, please go to Door 26, see map on Page 23.

#### TAXI INFORMATION

Miami Liberty Cab	937-222-2822
Checker Cab	937-222-4011
Antons	937-252-4756
Air City Cab	937-252-4444

#### Transportation & Parking (continued)

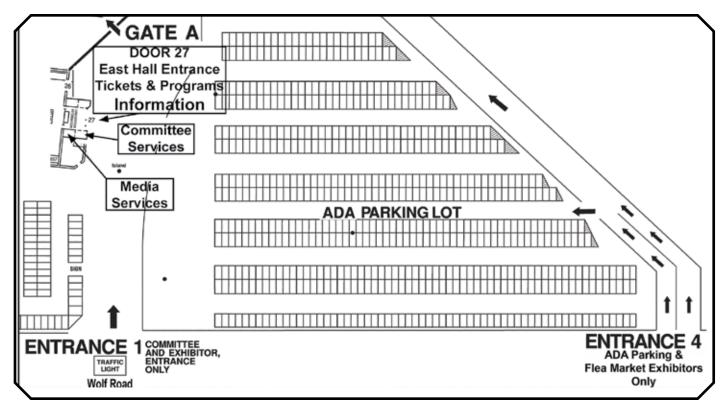
#### ADA PARKING

Hamvention, as many of you know, does not have any public parking immediately at HARA Arena: however, it has been our desire and policy for many, many years to help accommodate those individuals with special needs. We are very sensitive to those needs and have gone well beyond all regulations to secure (at extra cost to Hamvention) a limited number of spaces for these needs. Unfortunately the demand for ADA/Handicapped parking continues to grow dramatically each year and we simply are unable to accommodate everyone who requests a space.

Therefore, we will no longer issue Hamvention ADA/handicapped parking tags. To gain entrance to the ADA parking lot you will need a valid state/province issued ADA permit, a disability license plate or a letter from your physician stating your need for ADA parking. We will try to accommodate every request for entrance into the ADA parking lot.

The parking fee for ADA is \$10.00/day per car and \$30.00/day for campers and etc. payable at the gate. (Please note: overnight campers and etc. are not permitted at Hara Arena, except for the vehicles parked on the perimeter of the ADA parking lot)

Please note: The buses running from Remote Parking to Hara Arena front entrance are ADA equipped.



Committee and Exhibitor Only Entrance
No left turn allowed from East Bound Traffic on Shiloh Springs
Enter from Wolf Road or West Bound Shiloh Springs



NAN WHALEY



OFFICE OF THE MAYOR

March 22, 2016

Greetings From The Mayor

Dear Friends:

On behalf of the City of Dayton, I am pleased to welcome the members of Hamvestion held May 19-22, 2016 in Dayton, Ohio.

While we understand your focus during this event is to foster old friendships and develop new relationships, we also hope you will find the time to learn about our

Duyton is home to the Wright Brothers and the "Birthplace of Aviation;" therefore, it is only natural that many of our attractions would feature our aviation heritage. You can learn about the history of flight by visiting the Dayton Aviation Heritage National Historical Park, the Aviation Trail and the United States Air Force

I extend my very best wishes for a rewarding and memorable event in 2016 and

Sincerely,

Mayor City of Dayton



ey K. Pope, Sr., M.P.A., CLEE, CPM, Interior City Monager-Public Safety Di

#### GREETINGS FROM THE OFFICE OF THE MAYOR CITY OF TROTWOOD, OHIO MARY A. MCDONALD MAYOR OF THE CITY OF TROTWOOD

TO ALL ATTENDEES OF HAMVENTION MAY 19-22, 2016

On behalf of the City of Trotwood, Ohio, I am pleased to extend Greetings and a warm Welcome to members of Hamvention to Trotwood, Ohio and the Greater Dayton area. The city of Trotwood and Dayton are very proud of this event and Hara Arena as its venue for the 65° Dayton Amateur Radio Association sponsored by Dayton Humvention®.

Trotwood and Dayton are partners in its focus during this event to foster old friendships and develop new relationships. Come and enjoy the many attractions to be found in the region.

I extend my very best wishes to you for a very memorable event in 2016 and

Sincerely.

Mary A. McDonald, Mayor



MONTGOMERY COUNTY ADMINISTRATION BUILDING

451 West Third Street P.O. Box 972 Dayton, Ohio 45422-1326

COUNTY ADMINISTRATOR Joseph P. Tuss

#### Greetings To:

All Participants of The Dayton Hamvention May 20-22, 2016

As Commissioners of Montgomery County, we would like to welcome you to our region for participation in The Dayton Hamvention. We believe the offerings of Dayton and Montgomery County will be enjoyable for you and, most importantly, all attendees of your convention.

As you will discover, this area is rich in heritage, history, culture, and diversity. Our fine museums, attractions, shopping, and dining establishments will undoubtedly prove their outstanding reputations to you during your stay.

While you travel about the Dayton region, we believe you will realize the many advantages of selecting this area for your event. We stand ready to support all of your efforts and are certain you will find equal enthusiasm from our Convention & Visitors Bureau as well as the entire hospitality

Again, we welcome you to Dayton/Montgomery County and look forward to your return visit.

BOARD OF COUNTY COMMISSIONERS Montgomery County, Ohio

udy wordy Judy Dodge, President

#### **Hamvention Phone Numbers**

Emergency (937) 276-6930

Inside Exhibits (937) 276-6931

Flea Market (937) 276-6932

Prizes (937) 668-5311

#### **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

#### DARA History 1928-2016 Hamvention 1952-2016

#### Frank Schwab, W80K:

The Gem City Radio Club was the first amateur organization in Dayton. It was formed in 1914 and broke up in 1917 due to World War I.

The present Dayton Amateur Radio Association was formed in 1928. The original ARRL charter was signed by Hiram Percy Maxim, and was incorporated under the laws of the State of Ohio in 1929.

In 1928 DARA sponsored and held the Southwestern Ohio Ham fest. While it was a great success, it was a financial flop. DARA also sponsored the Central Division ARRL Convention at the Biltmore Hotel in 1930.

The interests of radio amateurs are varied and diversified. Members of DARA follow this pattern. DARA equipped and maintained an emergency radio station for the Red Cross at its head quarters on Monument Avenue during WWII

Local Civil Defense communications were manned and trained by local amateurs. Their equipment was installed and maintained mainly by DARA personnel not in the military service.

After WWII, amateur radio was revived and DARA became quite active. Field Days, DXing and Traffic Nets were the primary activities. DARA's first Field Day was held at Madden Park in West Dayton. After considerable politicking, DARA finally got permission from the City of Dayton to be in the park overnight.

In 1947, Dr. John Kraus, W8JK, of Ohio State University, was persuaded to give a discussion and demonstration of various antennas using scaled down microwave equipment. The event was at the Engineers Club of Dayton and was a huge success. Kraus was the inventor of the Helix Antenna. To get him to Dayton, DARA had to agree to build a 10 meter Helicoidal Beam. It was built at Carl Lightcap's (W8NSS) home in Drexel and was quite impressive! It was made of four circular elements of 4" downspouting and the boom was a 40-foot wooden extension ladder mounted on a telephone pole. It performed amazingly well. Unfortunately, no pictures are available.

Quite a few hidden transmitter hunts were held around this time. Phone patches for overseas military personnel and precise frequency measuring were activities enjoyed by members.

In the late forties, TVI (Television Interference) reared its ugly head. DARA established a TVI Committee which has been very successful in coping with the problem.

In 1951, Frank Schwab, W8YCP (now W80K) was elected President. A year or so earlier, John Willig W8ACE, approached the club about sponsoring a Ham Convention as opposed to a Hamfest and he was turned down for a number of reasons. Not the least of these was that DARA had a Hamfest in the late twenties and it turned out to be a financial disaster. Frank liked the idea of a Ham Convention and asked John to get some people together to see if it could be pulled off. The DARA board was so confident that they allocated the huge sum of \$100 to get started. The rest is history!

#### In the Beginning...

John's idea was to have a quality affair with talented speakers and excellent prizes. His research showed that it should be held in early spring because most area

hamfests were in late summer and fall. The first committee consisted of:

John Willig, WSACE, General Chairman Al Dinsmore, W8AUN, Arrangements (Deceased) Bob Siff, W8QDI (now K4AMG), Prizes & Exhibits Frank Schwab, W8YCP (now W80K), Publicity Bob Montgomery, W8CUJ, Finance Clem Wolford, W8ENH, Program Ellie Haburton, W8GJP (now W4ZVW), Women's Committee

We had a Women's Committee because we figured that if we could get the gals to attend, it would be easier for the guys to get here.

The word Hamvention was coined at the first meeting and we called the event the Southwestern Ohio Hamvention. After the first year, the hyphen was dropped and the words "Hamvention" were registered as a trademark.

Our first setback occurred when we found the Biltmore Hotel was only available on March 22 and not late April as we had planned. So we had a whole month taken off our

already short lead time. We went ahead with our plans anyway, although some club members thought we had totally lost our minds.

It didn't take long to find out the hundred bucks DARA put up was not enough to do the job. So we decided to raffle off a 12" TV set to raise more cash. It went well and we were off and running.

Several things happened to really get the ball rolling. First, Phil Rand, WlBDM, a pioneer in TVl elimination agreed to be on the program. Nearly everyone had a problem with TVI at the time, so it was quite timely. Second, we were able to get the FCC to agree to give exams at the Biltmore Hotel. This was very unusual and remember that the new license structure had just recently gone into effect. All tests, including Novice, had to be taken before an FCC Inspector. Third, we were able to buy a Collins 75A2 receiver from SREPCO and Collins at an attractive price. This was to be the first prize.

We had a breakeven point of 300 visitors. Over 600 showed up! My wife, Carolyn, was in charge of registration and still remembers the crush of people at the registration desk.

There were seven exhibitors and six forums. I don't remember how many people came to the banquet but it was one of the biggest the Biltmore ever had, up to that time. Hyde "Rube" Ruble, W8PTF, was the Master of Ceremonies and Larry LeKashrnan, W8IOP, was the featured speaker. Al Gunston, W8GQ, gave a demonstration of his "Vacuumless Vacuum Tube." This was an over-size open-air vacuum tube complete with a toaster element as the heater and a tin pie pan for a plate. He showed us how to cook hotdogs on the control grid!

The ladies program was very successful with a luncheon at the Biltmore and a trip to the local TV station where four of the women participated in a game show. Incidentally, the cost of Registration and Banquet was \$5.00!

#### As The Years Go By...

John Willig remained as chairman for four years and the early years were not without complications. One year we inadvertently scheduled the Hamvention at the same time as an American Legion Convention. Another time was during a Great Lakes Shrine Ceremonial.

In later years, it always fell on graduation weekend at the

University of Dayton. In the end, we won because no one else could get hotel and motel rooms during Hamvention.

In 1955, the Biltmore was starting to bulge at the seams and some of the forums were held in the Engineers Club, which was one block east of the Hotel.

Also in 1955, the Hamvention Awards Program was started and has become a nationally accepted honor. It was started with the "Amateur of the Year" award and has been expanded to include the "Special Achievement" award, the "Technical Excellence" award and the Club of the Year award. These awards are recognized as the "Oscars" and "Emmys" of Amateur Radio.

In 1978, I was delighted to have been chosen "Amateur of the Year." (A personal note, please... One of the highlights of my life was at the Awards ceremony when I looked out at the audience and saw my family of 12 children and their spouses attending. Many were from out of town and I didn't know they would be there.)

#### The Big Move...

In 1964 the Hamvention moved to HARA Arena. The Biltmore could no longer hold it. Most of the downtown Dayton parking areas had become flea markets with open trunks all day long. I was somewhat critical of the addition of the flea market at HARA Arena because I thought it would take away some of the "class" of the Hamvention. Obviously, I was wrong! - Frank Schwab, W8OK

The first Master of Ceremonies at the Banquet at HARA Arena was Dan Graves, W8ZTL, who held the job for 16 years. Many of you will remember his distinctive style.

Free buses and handicapped parking were introduced in 1969. This has become quite expensive but it has greatly relieved the parking situation near the Arena.

In 1970, ARRL's "Ham's Wide World" had three premier showings at HARA Arena. Also, that was the first year for a Hamvention Keynote Speaker.

He was Prose Walker W4BW, FCC Chief of the Amateur Division. Another Keynoter was George Jacobs, W3ASK.

In 1973, the Hamvention became a two-day event with Friday opening. Sunday hours were added in 1974. After the first few years of publishing a small program,



it was decided to try to sell advertising, and call it a "Souvenir Program" with the thought that people would take it home for reference. This worked well and each year it increased in size. The 1970 program book featured a full page photo of Neil Rapp, WB9VPG. Neil was licensed as a Novice at 5 years of age.

In 1976, the 25th Anniversary issue, the dimensions were changed from the small 6x9" size (the same size as early Amateur Radio magazines) to the current 8-1/2 x 11" format, to match the new standard size of Amateur Radio magazines of the time. Also, the passing of Bob Drake, W8CYE was recorded with a full page photo in this 1976 book. He was truly a radio pioneer and a great friend of DARA and the Hamvention. The cover of this issue was printed on silver paper and has become somewhat of a collector's item

Communications Specialists brought the first full-color ad to the Souvenir Program in 1978, bringing the Souvenir Program to a new full color era.

#### The Banquet...

Over the years there were many outstanding banquet speakers. Notably, Barry Goldwater, K7UGA, in 1974 and General F.H. (Butch) Griswold, KØDWC, in 1959. Gen. Griswold was Commander of the Strategic Air Cornmand and pioneered SSB communications in the U.S. Air Force. During the Banquet, he demonstrated an SSB communications system by picking up a special telephone and was able to talk throughout the world via SSB. It was very impressive!

Some Banquet Speakers came back for more: Larry LeKashman, W2JOP/W810P /W9IOP, our first speaker, came back two more times. Jean Shepherd, K20RS and Roy Neal, K6DUE, both returned numerous times as featured speakers.

#### **Unofficial Activities...**

The unofficial activities around Hamvention weekend have certainly added to the enjoyment! Just about all facets of Amateur Radio are covered somewhere during the three-day event. Many have been around a long time. I'm thinking particularly of the beady-eyed DXers. They have been meeting since the first Hamvention. Many clubs, from Ohio, New York, and more continue to feature added entertainment as part of our annual event.

#### Innovation and Critiques...

Much of the growth of Hamvention can be attributed to innovation. Immediately after each Hamvention, a critique meeting is held where all committee chairmen submit reports and discuss possible changes for the next year. It generally turns out to be a brainstorming session, with lots of ideas... some wild, some good, some really off-the-wall, and many that have been successful.

#### Why We Do It...

I'm sure most of the people who help with the Hamvention do it for sheer enjoyment. We all like to be part of a winning team. Personally, I have made many life-long friends and that makes it all worthwhile. Thanks!

#### Hamvention Continues To Grow...

Attendance has grown over the years to an average of 25,000 attendees. The number of foreign amateurs attending continues to increase. The value of the prizes has increased.

In order to keep costs down, changes have been made. The most extensive was the limitation of bus transportation from area hotels and motels. Arrangements have been made for taxicabs to be available at the Hamvention site at very reasonable rates and doubling up passengers has been encouraged.

The Flea Market area has been increased so that nearly 2800 sites are available. As said in the original Hamvention mailer, "If you can't find it at Dayton, it's not available."

Many manufacturers and vendors have made the Dayton Hamvention THE place to show new equipment. Prices at the many distributors' booths are better than anywhere else.

For years the Hamvention Talk-In Committee has done a very notable job of keeping some semblance of order on the various Dayton frequencies.

The Forums have continued to be the "piece de resistance" for many attendees. The meeting rooms and the audio/ visual capabilities are excellent. Many organizations have made the Hamvention the "Mecca" of their particular interest and meetings, banquets, and other activities take place all over the Dayton area. In one day an average of 300 FCC examinations are given.

As John Willig said about the very first Dayton Hamvention, "We're going to have a quality operation."

-Frank Schwab, W80K (SK) So it is.

#### **Twenty-First Century...**

In 2004, we returned to our original conception of an all volunteer organization. In 1952, they only had seven committees. Today we have 28 committees with a Chair and Assistant Chair. We have eight Administrators that support the committees.

DARA's Planning Council initiated a budget system for the Club operations after the 2004 Hamvention. The Club committees and members would submit things that they would like to work on the following years'.

In 2005, the committee created the ARRL Expo area and ARRL held their national convention at Hamvention. DARA had resumed offering college scholarships through the ARRL in 2005 after an absence of two years.

By 2007, we hired a local fence contractor to to remove the barb wire fence that the builder of the building had installed because the site was originally a radar site for Wright Patterson Air Force base. A white Cross Buck Ranch Rail fence with an automatic opening gate. The white fence blended into the local residential area.

The Club's gravel lot of 11,700 sq.ft. was excavated and replaced with a paved 27,655 sq.ft. Parking lot in Spring 2008.

DARA sponsored The Wireless Teachers Institute in 2008. It was held at P & R Communications the first two years before moving to DARA's Club House. In 2013, the Teachers Institute was first group to meet in DARA's new Technical Class Room

DARA has contributed funds for ARRL Scholarships since 1983. In the fall of 2011, DARA saw a need to help young local radio amateurs attend college. They created a scholarship program for local students and a committee was created to supervise the local scholarship program. Thus far we have awarded ten scholarships of \$1,500.00 each. The scholarships are to be used for tuition, books or other related expenses. The student is required to be an active DARA

member with a minimum of one year membership history and must hold an FCC Amateur Radio License. The scholarship must be used for continuing education in a math or science-related field in an accredited two or four-year university program.

Fall 2011 was spent making plans for the expansion of the original Club House. Jame Dalley, KE8BV introduced the Planning Council to Snider Architecture, Marika Snider, Architect and Jim Connell, General Contractor. They took area sketches and created the drawings for the 4,000 sq. ft. addition to the original Club House of 600 sq.ft. and suggested changes. Mr. Connell attended the Huber Heights Zoning meetings and provided the support to get approval in July 9, 2012 to expand the Club House. Due to the weather, we didn't break ground until October 30. The Open House was held on July 16, 2013 with congressional representatives and Huber Heights City Council members in attendance. The membership and Hamvention Committees have made good use of the new facilities.

A used ambulance was purchased for an emergency communication vehicle in 2005. We decided in 2012 that it was time to replace it. A local firm that made Mac Tool Trucks was hired to create a new larger communication vehicle for DARA. It was placed in service in 2013. It consisted of five operating positions, a hydraulic mast to elevate a beam antenna, large LED monitor that is visible on the outside of the truck for showing videos.

Since 2012, DARA sends reps to Friedrichshafen, Germany for the Ham Radio conference. A team was sent to Tokyo, Japan to participate in their Amateur Radio Conference in 2015. For the members that don't make the trip streaming is sent back.

One of newest activity that occurred due to the new Club House is the "Thursday Night Group (THG)" which is a group of makers. This group takes on all types of projects. The group has created a new display board for showing prize numbers that are drawn on Sunday afternoon of Hamvention.

Jerry Miller, WD8QAI

#### **DARA Club House and Communication Truck**





#### **Hamvention Represented Around the World**



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

This last year (2015), we expanded our travels and sent a team to Tokyo, Japan to attend the Japan Ham Radio Fair. The team was overwhelmed with attendees wanting to talk with someone from "Dayton" and the USA.

Top picture was taken just after setup of booth at the Ham Radio event in Friedrichshafen, Germany. Left to right: Jim Storms AB8YK, Janice Crawford KD8CFN, Mike Crawford KC8GLE, Janey Ruminski KB8PMF, Henry Ruminski W8HJR, Ron Cramer KD8ENJ.

Two bottom pictures taken during the show at the Big Sight in Tokyo, Japan. The team members were: Steve Coy K8UD, Jim Simpson WB8QZZ, Jeff DeVoe K8JTD, William Serrato W8CAN.

#### **Affiliated Events**

#### **Multi-Day Events**

#### FDIM (Four Days In May) 2016

FDIM is the annual conference of QRP ARCI (QRP Amateur Radio Club International).

It has been running in Dayton for more than 20 years and attracts around 400 visitors.

Although QRP ARCI is a club for QRPers, our members' interests include a variety of subjects.

FDIM covers home construction, kit building, SDR, antennas, SOTA, portable operation and much more! Full details can be found at www.qrparci.org/fdim

#### Wed, May 18, 7pm – Sat, May 21, 11pm

Holiday Inn Dayton/Fairborn I-675, 2800 Presidential Drive, Fairborn, OH 45324, United States FDIM starts with registration and socializing on the Wednesday before Hamvention.

The main event is a full day of seminars on the Thursday followed by a Vendor Evening.

#### Fri, May 20, 7:00am – 10:00pm

Buses to Hamvention (7:00am - 9:30am)
Buses back to hotel (3:30pm - 5:30pm)
Buildathon (3pm - 8pm) - (Sold Out for 2016)
QRP Club Night (8pm - 10pm)
Club Night is a free event with displays from QRP clubs and groups. It includes a "Show & Tell" and 'Homebrew-Competition'. All visitors get to vote in the competition.

#### Sat, May 21, 7:30am - 10:00pm

Buses to Hamvention (7:00am - 9:30am)
Buses back to hotel (3:30pm - 5:30pm)
FDIM Grand Banquet (7pm - 11pm)
Annual prize giving and induction to the QRP Hall Of
Fame Entry is by ticket only (tickets may be purchased

Fame. Entry is by ticket only (tickets may be purchased on Friday at the QRP ARCI booth at Hara, they will also be available at QRP Club Night on Friday evening).

#### Pre-Hamvention D-STAR Meet Greet, and Eyeball QSO Thu, May 19, 7pm – 9pm

Marion's Piazza, 1320 North Fairfield Road, Beavercreek, OH 45432

#### **D-STAR Class returns to Dayton Hamvention 2016**

The ultimate D-STAR training class, D-STAR InfoCon 2016, returns to Dayton Hamvention for the fifth year to provide an introduction to D-STAR for the many new users getting on the air and more advanced topics for more experienced D-STAR users. The three-hour class will be held on Friday, May 20th beginning at 8:00am local time. It will be held at the Drury Inn Ballroom at 6616 Miller Lane in the heart of hotel row near Hamvention. This year's topics will include getting started in D-STAR and basic operation, programming for all models of D-STAR radios, using DR Mode, downloading and updating your radio memories and using other D-STAR devices.

All registered class participants will receive a D-STAR InfoCon mouse pad and are eligible to win an ID-51A Plus dual-band D-STAR handheld to be given away during the class.

The cost of the class is \$20.00 and includes all course material. Pre-registration is required and seating is limited. Registration and payment via PayPal can be found below. For more info, send an email to Info@DSTARInfo.com.

#### **Amateur Satellite Demonstrations**

Friday 9am-6pm, Saturday 9am-5pm, Sunday 9am-1pm. Amateur Satellite operation demonstrations will be held outside the Ball Arena entrance. AMSAT will be demonstrating actual contacts with the operational amateur satellites every day. We especially want to invite youth to make a contact via an amateur satellite. All are invited to observe, participate and ask questions. Satellite pass times will be posted at the AMSAT booth (433-435, 444-446) and in the demo area.

#### **Friday Affiliated Events**

#### **AMSAT Dinner**

Thursday, 19 May 2016, 6pm-8pm

The seventh annual AMSAT (Radio Amateur Satellite Corp.) "Dinner at Tickets" party will be held Thursday at 6pm at Tickets Pub & Eatery at 7 W. Main St, Fairborn, OH. Great selection of Greek and American food and great company! No program or speaker, just good conversation. Food can be ordered from the menu;

drinks (beer, wine, sodas and iced tea) are available at the bar. Leave room for dessert; there's an in-house ice cream shop! Come as you are. Bring some friends and have a great time the night before Hamvention.

#### **Contest University**

Thu, May 19, 7am – 5pm Crown Plaza Hotel, Dayton OH

This is the day before the Dayton Hamvention officially opens. Don't miss this rare opportunity to gain knowledge that may take you years of practice, trial and error or lost time to learn otherwise. Get the edge to improve your scores and put your station in the winners circle today! Advance registration is needed. http://contestuniversity.com

#### **AMSAT/TAPR Banquet**

Friday, 20 May 2016, 6:30pm-9pm

The tenth annual AMSAT/TAPR Banquet will be held on Friday at 6:30 pm. This dinner is always a highlight of the AMSAT (Radio Amateur Satellite Corp.) and TAPR (Tucson Amateur Packet Radio) activities during the Dayton Hamvention.

Michelle Thompson, W5NYV, will present "It's just software, right?" She will survey the AMSAT Ground Terminal: Who, what, when, where, why, and how we're designing open source radio solutions for the next generation of AMSAT payloads.

Michelle is AMSAT's Team Leader for the design and execution of the AMSAT Ground Terminal. The goal is to create a "5 and Dime" (5 and 10 GHz) digital SDR transceiver that will support both voice and data modes, for both general QSOs and emergency communication, for the Phase 4B satellite and for future AMSAT projects. This is an effort to design an inexpensive ground terminal for amateurs that would cost tens of thousands of dollars commercially, for as much under \$1,000 as we can get it.

A true renaissance woman, in addition to being an engineer and a licensed amateur radio operator, Michelle has worked for Qualcomm, attends Burning Man, and is a longtime DEFCON participant. She is also the lead for Organ Donor (an AI pipe organ). Her Phase 4B Weekly Ground Engineering Reports are fascinating reading. Tickets (\$35 each) must be purchased online in advance on the AMSAT website at www.amsat.org through the

AMSAT Store tab. Tickets will not be sold at the Hamvention or at the door. The Banquet will take place at the Kohler Presidential Banquet Center, 4572 Presidential Way, Kettering, OH 45429 (just south of Dayton). The cash bar will open at 6:30 pm, with the dinner commencing around 7 pm.

#### **Top Band Dinner – 27th Annual event**

Crowne Plaza Hotel downtown Dayton Presidential Ballroom (2nd Floor) Friday evening, May 20, 2016 6 pm social hour 7 pm Dinner Dinner Speaker: Larry 'Tree' Tyree, N6TR

Reservations in advance – limited seating
Please go to http://topbanddinner.com for tickets and information

#### **Collegiate Ham Radio Dinner**

Fri, May 20, 6:30pm – 9pm

Little York Tavern & Pizza, 4120 Little York Road,

Dayton, OH 45414

What: Collegiate Ham Radio Dinner

When: Friday, May 20, 6:30pm

Where: Little York Tavern & Pizza, 4120 Little York

Rd, Vandalia, OH 45414

Organizer: Magda Moses KM4EGE, on behalf of the

Virginia Tech Amateur Radio Association Contact: magda14@vt.edu – 571-355-8582

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

This event is being organized by Magda Moses,



#### **Affiliated Events**

Friday (continued)

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 appreciated but not required.

#### 24th Annual Dayton Contest Dinner

Sat, May 21

Crowne Plaza Dayton, 33 East 5th Street, Dayton, OH 45402, United States Cash bar opens at 5:30 p.m.

Dinner starts at 6:30 p.m.

Tickets are only available on http://www.contestdinner.com Many contest operators from around the world attend this event. If you enjoy radio contesting, you do not want to miss this Contest Dinner in Dayton, Ohio. There are no tickets available at the door

#### ATV Friday Night dinner.

The ATV Friday Night Dinner will be held at the China Garden Buffet restaurant starting at 6:30pm. It is located at 112 Woodman Drive in Dayton, Ohio 45431 in the Airway Shopping Center. The Buffet Dinner is \$11.99. (937-781-9999). We have dinner then presenters talk about various ATV topics with door prizes. We conclude about 9:30pm. All are invited.

#### **SWODXA Dinner**

Friday, May 20th, 2016 at The Dayton Marriott – 1414 S. Patterson Blvd., Dayton, OH 45409

#### **Saturday Affiliated Events**

#### **Annual CW Pileup Competition**

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

#### Competition History and Details:

The Kansas City DX Club has hosted its hospitality suite at the Dayton Crowne Plaza Hotel on Hamvention weekend every year since 1980. That same year, the club introduced its popular CW Pileup Competition, which was an instant hit, and quickly became a

"must-do" for contesters and DXers from all over the world.

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

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

Beginning with the 2011 competition, those visiting the hospitality suite are able to view a live "Morse Race" on the suite's big-screen TV! The display shows a live graph of the current participants as they actually copy calls, and the rankings are updated almost instantaneously as well. This exciting new aspect of the contest was created by Chuck, NO5W, whose software engine drives our entire system.

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

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

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.



#### 2016 Dayton Hamvention Committee



# Front row sitting on floor left to right:

Dave Tritch N8YFQ, Jim Shaw AL7BA, Steve Coy K8UD, Bill Serra N8NRT, Jack Gerbs WB8SCT, Frank Beafore WS8B

# Second row sitting in chairs left to right:

Mike Buehler N8XGA, Ron Cramer KD8ENJ, Art Stauber W8AJS, Susan Jebens KD8AFP, Hazel Everetts N8PTL, Janey Ruminski KB8PMF, Jerry Miller WD8QAI, Gary Mullins K8UW.

## Third row standing left to right:

KB8MUV, Henry Ruminski W8HJR, Dave Forbes KD8FO, George Ewing WD8NHI, Tom Holmes N8ZM W8LIC, Jim Tiderman N8IDS, Dan Puckett WD8AAU, Bob Pitsch AC8SL, Mark Tessneer KB8ZR, Rob Gauder WD8CXV, Marvin Force Tom Reynolds KC8AEU, Gary DesCombs N8EMO, Mike Carter W8BSI, Mark Mattix WA8NGY, Bob Baker N8ADO, Ron Moorefield

## Fourth row standing left to right:

Terry Scott NV8E, Charles Kaiser KD8JZR, Dave Hendricks N8HSO, Lee Boeckerman W8LFB, Chuck Wright K8MDB. Jerry Bodey N8QWV, Joe Muchnij N8QOD, Chris Jebens KZ8XU, Jeff DeVoe K8JTD, Mike Crawford KC8GLE, Brian Markland N8UDQ Jeff Everetts N8IBW, Michael Kalter W8CI, Jon Thuermer KB8SRQ, Dan Minnix KD8YNG, Don Parker KB8PSL, Steve Koogler K8DZ

## 2016 Dayton Hamvention Committee Administration

#### General Chairman Jim Tiderman, N8IDS Assistant General Chairman Ron Cramer, KD8ENJ

Administration.......Special Asst. To Gen. Chair......Shaw Jim.......AL7BA

	Special 7 isst. 10 Gen. Chan			
	Hara Liaison			W8LFB
	Phone Line / Info			N8LX
Administration	Phone Line / Info	Roberts	Llyn	N8LXK
Administration	Ambassador at Large Chair	Moorefield	Ron	W8LIC
	Ambassador at Large A Chair			N8NUY
				KC8AEU
Administration	Iviaii	Reynolus	10111	KCOAEU
	COMM	ITTEES		
Advance Registration		Mattix	Mark	WA8NGY
	Assistant Chair			KC8AEU
	Liaison Chair			KB8ZR
	Liaison Assistant Chair			KD8YPY
				WS8B
	Assistant Chair			W8CI
				N8QOD
	Chair			
				K8UD
				N8PTL
	Co-Chair			N8IBW
	Chair			KC8GLE
	Assistant Chair			N8ADO
	Chair			KB8SRQ
	Assistant Chair			KD8AFP
				W8CI
	Assistant Chair			WS8B
			Dave	N8YFQ
	Assistant Chair			K8UD
Forums		Hendricks	Dave	N8HSO
Forums	Assistant Chair	Scott	Terry	NV8E
Forums	Assistant Chair	Holmes	Barb	N8EYW
				KD8AQH
	Assistant Chair			N8XGA
	Chair			N8UDQ
	Assistant Chair			WD8CXV
	Chair			N8EMO
	Assistant Chair			N8ZCO
	Chair			WD8AAU
	Assistant Chair			KZ8XU
	Assistant Chan			
Mailing	Chair	Sillipson		WB8QZZ
				KD8JZR
	Assistant Chair			W8ISZ
	Chair			K8MDB
	Assistant Chair			AC8DE
	Chair			W8HJR
	Assistant Chair			KB8PMF
	Assistant Chair			
	Chair			W8AJS
	Assistant Chair			WD8NHI
	Chair			N8ZM
	Co-Assistant Chair			KD8YRI
	Co-Assistant Chair		Bill	N8NRT
Programs & Publications		Wright	Chuck	K8MDB
	Assistant Chair		Jerry	WD8QAI
	Chair		Don	K8MCA
	Assistant Chair		A Mike	W8BSI
	Chair		Jerry	N8OWV
	Assistant Chair			KB8MUV
	Chair			K8UW
	Chair			K0DHP
	Assistant Chair			
*				K8DZ
	Assistant Chair			KD8FO
				KE4WLE
	Assistant Chair			W7CLR
				K8JTD
Membership (DARA)	Assistant Chair	Serrato	william	KD8GIK

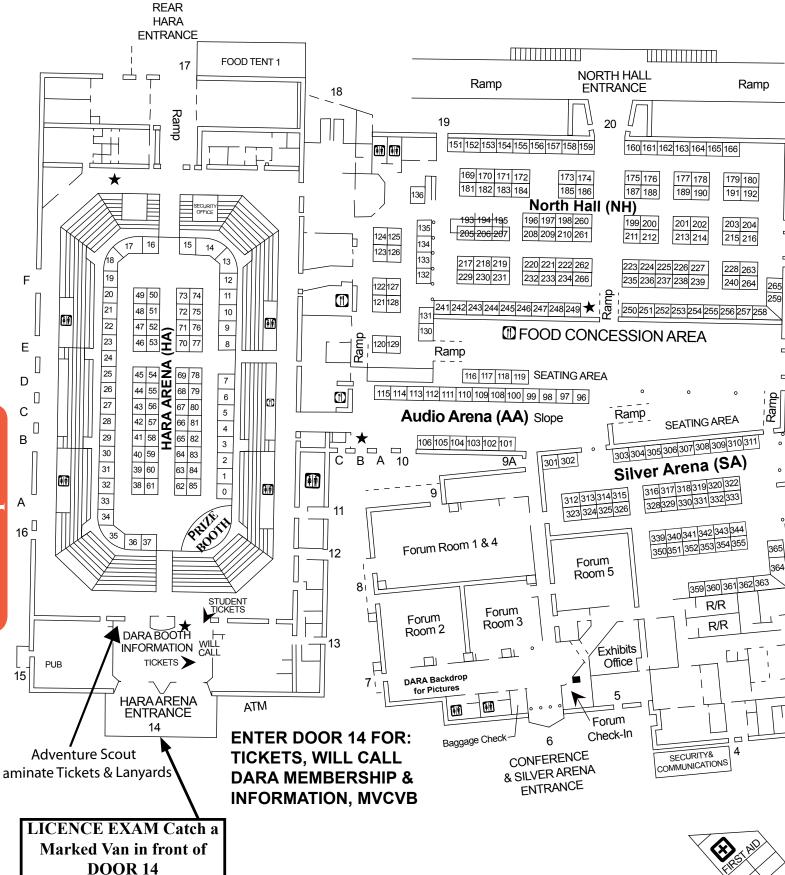
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Aventrade		Ham Nation	
Bad Dog Tools		Ham Radio Class	
Batteries America		Ham Radio Deluxe / W4PC Software	
Begali Keys		Ham Radio Outlet	,
BHI Ltd		Ham World, Inc.	
Bird Technologies Group / TX RX Systems		Hamsource	
Bonito - Radiocom - Computer International		HEIL SOUND LTD	
BRIDGECOM SYSTEMS		Helical Communications Technologies	
Buckmaster Publishing		Heritech Larm Partner AB	
Buddipole		HobbyPCB	
Byonics		Hy-Gain	
Cable X-Perts Inc		Hytech Marketing	
Capitol Electronics		ICOM America Inc	
CG Antenna		Import Communications	,
Christian Amateur Radio Fellowship (CARF).		Information Radio	
Coaxial Dynamics		Infratech	
Collins Collectors Association		iPortable	
Comet Antenna / Daiwa Meters		Jericho Prints	
Connect Systems Inc		Jetstream	
Courage Kenny Handiham Program		JJ Surplus	
CQ Communications, Inc		JK Antennas	
Cushcraft Amateur Radio Antennas		JT Communications	
CW Operators Club		KB3IFH QSL Cards	
Davis Instruments		Kent Morse Keys	
Dayton Skywarn		Kenwood USA Corporation	
Debco Electronics		KJI Electronics	
Diamond Antenna		LeafFilter Gutter Protection	
DMR-MARC		Libre Space Foundation	
Dollar Dude		Lido Mounts	
DVMEGA	*	Linux in the Ham Shack	
DX Engineering		Little Giant Ladder System	
DZKit		LnR Precision Inc	
Ears To Our World		LS&M	
ELAD USA INC		Lunar-Link International	
Elecraft Inc		LUSO Super-Techno	
Electronic Associates		M2 Antenna Systems	

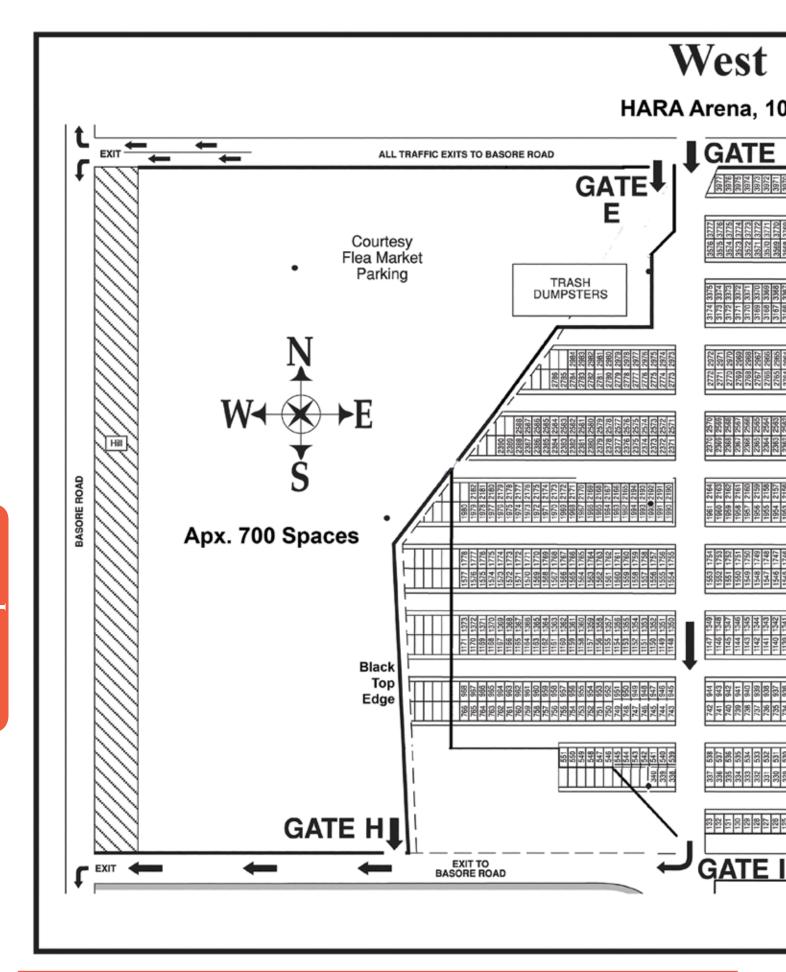
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MicroLog by WA0H		Sign Man of Ohio	
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Millner-Haufen Tool Company		SKCC Straight Key Century Club	
Mini-Circuits		Society of Amateur Radio Astronomers / Radio	
Mirage / Vectronics		Solar24	
N3BB Publishing		SteppIR Antennas Systems	
N3ZN Keys		Suspender Man	
National Federation of the Blind & The Unseen		TAPR (Tucson Amateur Packet Radio)	
National Voice of America Museum of Broadca		Tarheel Antennas	
National Weather Service	~	Tech Exchange LLC	
New-Tronics		Tech-Bond Solutions	
		Telepost Inc - N8LP	
NN4ZZ TiltPlate Northern California DX Foundation			
		Tennadyne / Cubex	
NSIRadio.com		Tennessee Equipment Supply Inc	
Nu-View 2		The American Legion National Headquarters	
Nuts & Volts / Servo Magazine		The Competition	
Nuts About Nets / Seeed Technology		The R.F. Connection	
NW Digital Radio		The Whistler Group	
Ohio Area Repeater Council		The Wireman Inc	
Old Old Timers Club		Thrive Life Foods	
Palstar Inc		Timewave Technology Inc	
Peet Bros. Company Inc		TOP-BEAM SYSTEMS INC	
Portable Rotation		Total Mast Solutions	
PreciseRF		Totally Unique Enterprise	
Pro Audio Engineering		Tower Electronics	
Protobuildbar.com		Transel Corporation	,
Qatar Amateur Radio Society		Uncommon USA Inc.	
QRP - ARCI		Universal Radio Inc	
QRP Works		UPS Store	
QSK, LLC		US Postal Service / Dayton Stamp Club	
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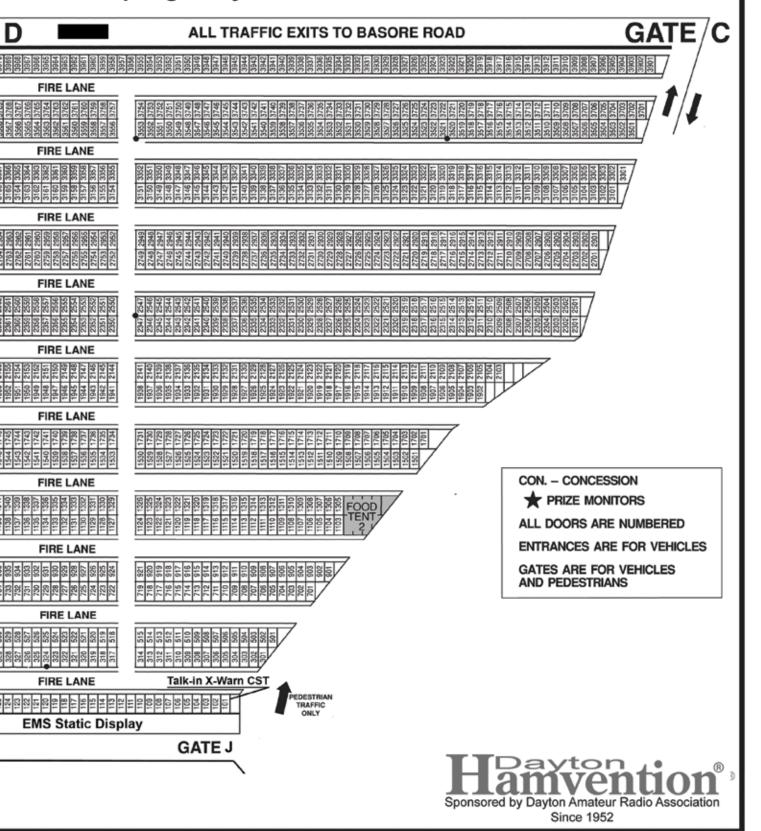


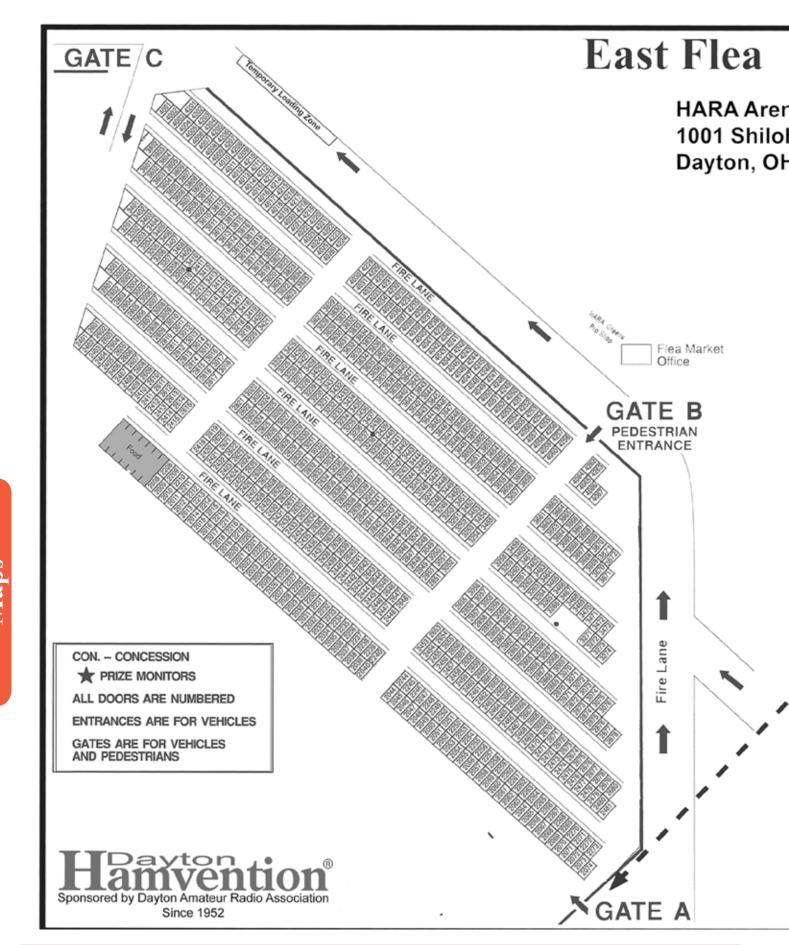




#### Flea Market

01 Shiloh Springs, Dayton, OH

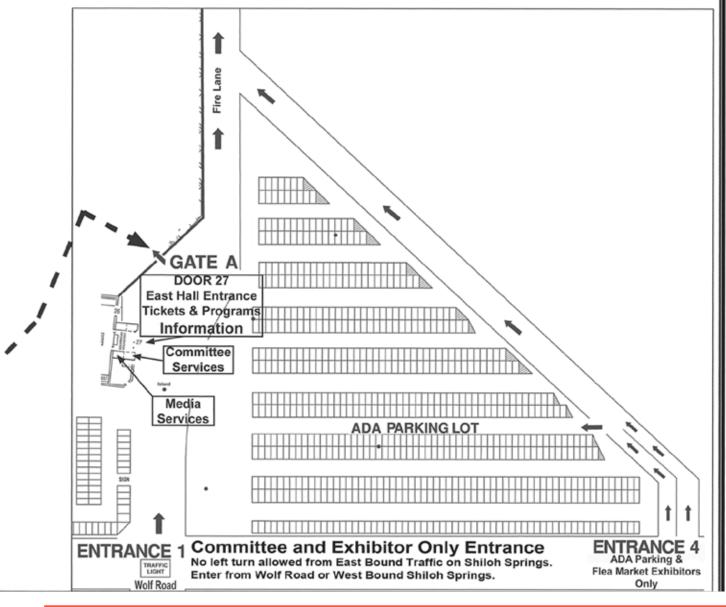




#### Market

ıa n Springs I 45415





## ARRL Exhibit & Activities Guide May 20-22, 2016

#### **ARRL EXPO - Welcome!**

ARRL, the national association for Amateur Radio®, welcomes all members and friends to Dayton Hamvention®. Use this handy guide to find ARRL-sponsored activities, exhibits and program representatives. ARRL EXPO is a large exhibit area located in the Ballarena Hall (near the 400-numbered booths).

Rick Roderick, K5UR – ARRL President

Dale Williams, WA8EFK – Great Lakes Division Director

Scott Yonally, N8SY – Ohio Section Manager

#### **ARRL Store**

Visit the HUGE ARRL bookstore to purchase popular ARRL publications, join, renew or extend your ARRL membership, and pick up official ARRL merchandise.

- FREE Gift when you join, renew, or extend your ARRL membership at the show.
- FREE Gift for **ARRL Life Members** when you stop by the ARRL Store.
- FREE ARRL Dayton 2016 Button!

**2016 ARRL Field Day Supplies** – ARRL Field Day is June 25-26, 2016. Gear up for the most popular on-the-air operating event in Amateur Radio. Official T-shirts, pins, hats, mugs, and posters are available.



**RFinder - The Worldwide Repeater Directory**. RFinder is the online repeater directory of ARRL. Check out this web service demonstration and online apps, providing subscribers with listings for 50,000+ repeaters in 170+ countries. Only \$9.99 for an annual subscription: **Subscribe.RFinder.net** 

#### 2016 ARRL National Parks on the Air – www.arrl.org/NPOTA

ARRL's yearlong operating event, National Parks on the Air, is a hit! Thousands of radio amateurs are helping ARRL celebrate the 100th anniversary of the National Park Service in 2016. They're transmitting from national parks, monuments, historic sites, and more — all while promoting the

National Park Service and showcasing Amateur Radio to the public. Visit this booth to meet NPOTA program representatives and to ask questions. And, show your support as a park activator, chaser, or both with official NPOTA shirts, pins, hats, patches, stickers, mugs, posters, and banners.







Meet the New ARRL CEO
Tom Gallagher, NY2RF –
ARRL Chief Executive Officer

Come meet and greet Tom, NY2RF and many ARRL Board officials in the ARRL exhibit area. Tom will also participate in the ARRL Member Forum on Saturday (see forum schedule).

#### ARRL Youth Rally - The Future of Amateur Radio is HERE!

The ARRL Youth Rally (pre-registration was required) will follow the Saturday morning Youth Forum (see forum schedule). Youth Rally participants ages 11-26 will enjoy a full program of ham radio hands-on activities, discovery, and sharing. The Rally will be led by Tommy Gober, N5DUX, and Jennifer Gober, KE5LNK. Tommy and Jennifer are both professional educators, and Tommy is an ARRL Education & Technology Program Instructor.

#### www.arrl.org

#### ARRL Exhibits...

- ARRL Laboratory: Get Your Handheld Radio Tested!
- ARRL National Parks on the Air
- ARRL Development and ARRL Foundation
- ARRL Volunteer Examiner Coordinator
- ARRL Public Service
- The Amateur Radio Parity Act Show your support for the Amateur Radio Parity Act, which
  seeks reasonable accommodation of Amateur Radio communications in places regulated by
  homeowner's associations and other private land use regulations. We'll help you generate
  letters to the Senate and House.
- Amateur Radio and Education
- Discover the HF Experience! Get on the air when you visit this interactive exhibit.
   Experience shortwave Amateur Radio operating! Presented by: Yankee Clipper Contest Club, Frankford Radio Club, Potomac Valley Radio Club, Society of Midwest Contesters, Florida
   Contest Group, Northern California Contest Club, RadioSport Manitoba, and Radio Amateurs of Canada.
- Radiosport and DXCC DXCC Card Checking; ARRL Contests and Awards; QSL Bureau
- RFinder The Worldwide Repeater Directory
- The ARRL Logbook of the World (LoTW)
- Ham Radio & Scouting in Action Presented by K2BSA Amateur Radio Association, k2bsa.net
- ARRL Field Organization Volunteers Visit this gathering area for ARRL Field Organization networking, hosted by the ARRL Ohio Section.
- National Traffic System (NTS)
- ARRL Visa® Card U.S. Bank
- Home & Auto Insurance Liberty Mutual Insurance

Meet representatives from the following organizations and national Amateur Radio societies in the ARRL EXPO exhibit area.

The International Amateur Radio Union (IARU)

Deutscher Amateur Radio Club (DARC) - Germany

Japan Amateur Radio League (JARL)

Qatar Amateur Radio Society (QARS)

Radio Society of Great Britain (RSGB) - United Kingdom

Dayton Hamvention® International Relations

#### ARRL-sponsored Forums (see forum schedule)

#### Friday, May 20

- The ARRL Laboratory Behind the Scenes!
   Presenter: Bob Allison, WB1GCM, ARRL Assistant Lab Manager
- Ham Radio and the Law: Antenna Permits and Problems
   Moderator: Fred Hopengarten, Esq., K1VR, Author "Antenna Zoning for the Radio Amateur"

#### Saturday, May 21

ARRL National Parks on the Air

Presenters: Sean Kutzko, KX9X, ARRL Media and Public Relations Manager, and Norm Fusaro, W3IZ, ARRL Assistant Field Services and Radiosport Manager

ARRL Member Forum

Moderator: Dale Williams, WA8EFK, ARRL Director - Great Lakes Division

#### Sunday, May 22

- Maximizing Your ARRL Field Day Effort (panel discussion)
- Amateur Radio Disaster and Emergency Communications Panel Moderator. Mike Corey, KI1U, ARRL Emergency Preparedness Manager

#### THANK YOU!

ARRL expresses its gratitude to the 2016 Dayton Hamvention® Committee, Dayton Amateur Radio Association, and all the volunteers who contributed to the success of ARRL EXPO 2016 in Dayton, Ohio.



Meet ARRL Education & Technology Program Instructors and explore the resources available for introducing radio science and wireless technology into classrooms.

#### Meet these ARRL Headquarters Staff in Dayton!

Bob Allison, WB1GCM

Alli Barbieri, KC1ARQ

Zoe Belliveau, W1ZOE

Stephanie Borden, KC1ELY

Marjorie Bourgoin, KB1DCO

Lauren Clarke, KB1YDD

Michael Corey, KI1U

Steve Ewald, WV1X Norm Fusaro, W3IZ

Tom Gallagher, NY2RF

Jennifer Glifort

Mike Gruber, W1MG

Dan Henderson, N1ND

Bob Inderbitzen, NQ1R

Bart Jahnke, W9JJ

Deb Jahnke, K1DAJ

Debra Johnson, K1DMJ

Sean Kutzko, KX9X

Kim McNeill, KB1WUX

David Patton, NN1N Michael Scharr

Barry Shelley, N1VXY

Maria Somma, AB1FM

Yvette Vinci, KC1AIM

Dan Wall, W1ZFG



#### **Major Prize Donor List for 2016**

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Auburn Metrology Lab
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Times Wire & Cable Total Mast Solutions Universal Radio US Tower Yaesu

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

#### **2016 Dayton Hamvention Major Prizes**

- US Tower TX-455 Tower
- ICOM IC-7100
- ICOM IC 7300
- Yaesu FTDX1200 with FFT-1
- Kenwood TS-590SG
- Kenwood TS-590SG
- Kenwood TS-590SG
- Total Mast Solutions Hiperpod Mast System
- ICOM IC-718
- Winners choice of Tarheel antenna
- ICOM ID-5100A Deluxe
- Times Wire 500' roll of LMR 400 plus connectors, boots, & crimp tool
- CrankIR w/80 meter kit, plus 6' stand & storage bag
- Yaesu FT-450D
- Xiegu X108G HF radio + AT-3208UV dual band handheld
- ELAD USA FDM-S2 SDR Receiver + SFE Development board
- Butternut HF9V 9 band HF vertical antenna



#### **Prize Donor List 2016**

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CG Antenna tory

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M2 Antenna Systems, Inc Wireless Holdings

Main Trading Company Yaesu - Vertex Standard

#### Friday, May 15<sup>th</sup>

Forum

Time Room 9:15-11:15 Room 1

**TAPR** 

**Moderator: Scott Cowling** 

9:15 – 9:25AM Introduction by Steve Bible, N7HPR, TAPR President 9:25 - 9:35AMWrite for QST/QEX by Kai Siwiak KE4PT, QEX Editor 9:35 – 10:00AM "SatNOGS - A network of open source satellite ground stations" by Corey Shields KB9JHU

Abstract: Cubesat operators tend to have few ground stations of their own and rely on amateur operators to help collect telemetry. With cubesat deployments on the rise, more and more data is lost as there are not enough ground stations listening. The SatNOGS Project is a Network of Open Source Satellite Ground Stations, focusing on Low Earth Orbit (LEO) satellites. In this presentation, we introduce SatNOGS as a way to increase the amount of data collected from these satellites and returned to their operators. Learn what the SatNOGS project is, how it works, and what we have planned for the future of amateur radio satellite reception.

10:00 – 10:25AM "HamWAN High Speed IP Radio Network" by Bryan Fields, W9CR

Abstract: Presented will be an amateur radio high-speed IP backbone concept (HamWAN) with an emphases on building regional highly available networks. Utilizing the same techniques which enable the Internet, Amateur Radio networks may be built connecting projects to the Internet or other sites. Included will be an update on the regional HamWAN network deployments.

10:25 – 10:50AM "SDR Disrupt" by Chris Testa, KD2BMH

Abstract: Tools and techniques for software defined radio continue to evolve at a rapid pace, and we'll go over the landscape and advancements in SDR technologies this past year. Numerous technologies are driving the powerprice-performance curve to a new level of efficiency. We'll take a look at John Stephensen, KD6OZH's mesh project (part of TAPR), which helps pave the way for next-generation wireless links. Latest developments in digital voice will also be discussed.

10:50 – 11:15AM "HackRF Update" by Mike Ossmann, AD0NR Abstract: Having developed HackRF One, the world's lowest cost wideband Software Defined Radio transceiver, the HackRF project continues to produce open source hardware designs for SDR. Find out about our designs in development now and our ideas for future boards that will enable the next generation of SDR enthusiasts.

9:15-10:45 Room 2 **Remote Operating** 

Moderator: Mark Aaker K6UFO

Speakers: Brian Moran N9ADG, Editor of ARRL

Contest Update, Dennis Egan W1UE, Enthusiast for Remote, DXing, Digital Modes

Hamvention® The Radio Frontier 2016

Forums Friday

How to implement remote access to your radio station to allow operating while away from home. We'll review a variety of current solutions in hard ware and software. If your travel schedule or antenna restrictions are keeping you off the air - remote access allows you to chase DX, contest or check into your favorite net from anywhere with your laptop or smartphone. We''ll look at solutions for radio control, antenna switching, AC power, digital modes and more. Remote access is a great club project to get more club members on the air. Remote access allows special event stations in locations where antennas and feedlines are not possible. We will help you avoid the common problems and pitfalls, and advance your remote operation.

#### 9:15-10:15 Room 3 SHARES HF EMCOMM

**Moderator: Ross Merlin** 

SHARES – SHAred RESources Government HF Emergency Radio System

This session, conducted by Ross Merlin WA2WDT, the SHARES Program Manager, will discuss the recent expansion of the federal SHARES HF Radio Program to support state agencies, county Emergency Management agencies, and critical infrastructure / key resources providers in addition to the legacy stakeholder group of Federal agencies. SHARES provides emergency backup and interoperability communications for many of the civil agencies previously supported by the MARS programs. Recently all MARS members were granted access to the SHARES program, and the MARS and SHARES are working more closely together to improve and maintain the readiness of HF emergency communications. The presentation will conclude with a question and answer session.

#### 9:15-10:15 Room 5 Having Fun with CW

Speaker: Dan Romanchik, KB6NU, author of The CW Geek's Guide to Having Fun with Morse Code, the "No Nonsense" amateur radio license study guides, and the popular amateur radio blog, KB6NU.Com. When he's not writing about amateur radio, he works CW on the HF bands and teaches electronics and ham radio classes in Ann Arbor, MI.

Despite the fact that there is no longer a Morse Code test, many new opera tors are interested in learning and using this mode. Dan will explore some of the reasons why CW is still such a popular mode, how to learn Morse Code, how to select a key, how to make contacts, and even more importantly, how to have fun with CW.

#### 10:30-12:00 Room 3 Instructors Forum

**Moderator: Carole Perry** 

This Forum will answer the FAQs about introducing amateur radio in to schools, recruiting females into the hobby, and the advantages of a college amateur radio club. Maria Lysandrou "KD9BUS "Attracting Females into Ham Radio." Bob Roschewsk KA2PBT "How to Advance Amateur



Radio in the School System." Also presenting, high schoolers Lukas Purasson KD2ISB and Nick Roschewsk KD2HBR who will speak about "Antenna and the Engineering Design Competition." Sam Rose KC2LRC "Advantages of College Ham Radio Clubs."

10:30-11:30 Room 5 The ARRL Laboratory - Behind the Scenes

Moderator: Bob Allison, WB1GCM, ARRL Assistant Lab Manager ARRL members who are familiar with the monthly column QST Product Review have some idea of the work supported by the ARRL Laboratory. But did you know the Lab has an answer man, Zack Lau, W1VT, who runs the ARRL Technical Information Service? He provides the answers to members who call or write to the Lab for help. Did you know the Lab has an RFI expert? Mike Gruber, W1MG helps members experiencing RFI problems. Who is the watchdog against spectrum encroachment from consumer devices? Lab Manager Ed Hare, W1RFI is a prominent board member serving on several industry standards committees. He also won the BPL battle for all of us. Come hear about how the ARRL Lab supports members and the entire Amateur Radio Service!

11:00-12:00 Room 2 The Propagation of Radio Waves Through the Standard Atmosphere Moderator: Frank Beafore

By executive order of President Franklin D. Roosevelt in the summer of 1940, the National Defense Research Committee (NDRC) was ask to research and compile a Summary Technical Report on the "state-of-the-art" relating to radio propagation. In 1945, these related studies were declassified and published in 1946. Since then, many of the printed manuscripts were lost or destroyed. This forum will be given based on one of the manuscripts of the same title above. Relating to radio propagation, this presentation will focus on: antennas, factors influencing transmission, radio gain, propagation aspects of equipment, and terrain diffraction. The entire presentation will refer to the manuscript and tie technology discovered in the mid 1940's to today's learnings. In typical forum fashion, the moderator will ask for audience participation.

11:30-12:30 Room 1 APRS

**Moderator: Bob Bruninga** 

Another exciting year in APRS will be discussed plus announcements of new ideas, projects, new radios and products plus comments from the floor. Speakers will be:

WB4APR, Bob Bruninga - APRS Operating notes N6BG, Byon Garrabrant and Allen Lord - Byonics Update KE4NYV, Jason Rausch - RPC Electronics Update W6GPS, Don Arnold - AVMAP G6 update KA2DDO, Andrew Pavlin - author of YAAC Forums

### 11:45-12:45 Room 5 Kit Building

Moderator and Keynote speaker: Joe Eisenberg, K0NEB, Kit Building Editor, CQ Magazine Kit news – "Who's in and who's out of the kit business?" Also, we will take a look at hints and tips for kit builders. Topics to be covered include easy new kits to build and techniques to increase your chances of success.

Speakers: Wayne Burdick, N6KR, Elecraft,

James Bennett, KA5DVS, Pacific Antennas/QRPKITS.COM

### 12:15-2:15 Room 2 Balloon SAT

### Moderator: Bill Brown and zdoug Loughmiller W5BL

Trans-Atlantic Pico balloon flight with APRS and WSPR - Bill Brown WB8ELK Building and designing a Pico Tracker - Mike Hojnowski KD2E-AT Amateur Radio Balloons over North East Texas - Doug Loughmiller W5BL Spaceport Indiana STEM activities with high altitude balloons - Brian Tanner A high altitude balloon will be launched after the forum at 3:15 pm in the flea market

### 12:15-1:45 Room 3 Collins Radio

### **Moderator: David Knepper**

Presenters: Robert Spooner, AD3K and David Knepper, W3ST Tips on Collins Restoration and Repair Sponsored by the Collins Radio Association

### 12:45-2:15 Room 1 DSTAR

### **Moderator: Robin Cutshaw**

D-STAR continues to grow with a number of new devices and new software which makes D-STAR unique among the digital protocols. The speakers this year are experts in the many facets of D-STAR and will be updating attendees with the latest news, radios, and gadgets.

### 1:00-2:15 Room 5 Techniques of Best Operators

### **Moderator: Mitch Stern**

Why is working new stations such a struggle? Why does everyone else work the juicy DX but I can't? Why is it every time I get into a QSO, it ends up getting swallowed up in a blast of QRM? Our forum today will certainly help. Now that you've bought up all that great stuff from the Flea Market and got home and set it all up, what do you do after you turn it on? How do you go about easily making contacts with others? A good station certainly helps, but knowing WHAT to do and what NOT to do when you get on the air is even more important. We'll start off with some of the basics of good operating, move on to the more serious matter of public service and emergency operation, dabble with DX and finally learn how to use contests to become better operators. You won't be same operator by the end the day and will be a force to be reckoned with on the bands!



You will be treated to on-the-air war stories, equipment recommendations, super suggestions and then you'll get to participate in the dreaded Hamvention QSO Party. Don't miss it!

### Room 3 2:00-3:30 **Foxhunt ARDF**

**Moderator: Dick Arnett, WB4SUV,** 

Speakers: Bob Frey, WA6EZV and Brian DeYoung, K4BRI Topics include demonstration and discussions on a variety of equipment used for VHF mobile, on foot, and ARDF style transmitter hunts. Equipment used to locate intentional interference will also be demonstrated.

### 2:30-3:45 Room 2 Ham Radio and Law: Antenna Permits and Problems Moderator: Fred Hopengarten, Esq., K1VR,

Author "Antenna Zoning for the Radio Amateur"

Ham Radio and the Law: Antenna Permits and Problems

A discussion by Amateur Radio attorneys on legal issues of interest to hams: avoiding restrictive covenants, presenting your case for a tower permit, and information on recent court rulings on PRB-1. Updates on proposed legislation to protect hams living under homeowner association restrictions.

Speakers:

Bob Famiglio, Esq., K3RF, ARRL Volunteer Counsel and Vice Director: The concept of Viewshed, and how to present it favorably

Jim O'Connell, Esq., W9WU, ARRL Volunteer Counsel: Buying a house Kevin Kaufhold, Esq., W9GKA, ARRL Volunteer Counsel: Case study for PRB-1

Dan Henderson, N1ND, ARRL Regulatory Information Manager: Update on the Amateur Radio Parity Act

### Room 5 2:30-3:30 Old Transmissions and Voices of the Past

Moderator: Moderator: John Dilks, K2TQN, QST Editor of the "Vin tage Radio" column for 15-years, writing over 160 columns.

PowerPoint includes Photos, Graphics, and the actual Voices of the follow ing Wireless Pioneers telling their personal accounts and stories: Marconi, Jack Binns, Irving Vermila (Ham #1), Dr. Lee DeForest, Hugo Gerns back, Edwin Armstrong, John Reinartz (life story), Leon Deloy – (French 8AB - first transatlantic QSO), Elmo Pickerill (first airplane-to-ground QSO, 1910), Art Collins, General Griswold (USAF- SAC), Clarence Tuska describing the start of QST magazine in 1915, an SOS from the passenger ship "PRINSENDAM" in 1980 and early Wireless Ship transmissions on 500kc CW

2:30-5:00 Room 1 Antennas

**Moderator: Tim Duffy** 

"Bent Elements for Impedance Matching and Performance Enhancement



within Yagi Antennas for HF" Justin Johnson, G0KSC, will share some of his research that indicates increased Yagi antenna performance with bent elements. "The Antenna Book – its Purpose and Structure in the Internet Age" Ward Silver, N0AX As editor, Ward will explain what is new in the latest ARRL Antenna Book and how best to use the new material to enhance your antenna system. "Innovative Wideband Techniques in Antennas – A New OWA Concept" Dr. Jim Breakall, WA3FET, will describe a totally new approach to increasing VSWR bandwidth of many antennas. "Low Band Antennas at W3LPL: 50 Years on Continuous Improvement" Frank Donovan, W3LPL As the low bands continue to get better, Frank will describe what he has learned from his extensive experience of designing, construction and using low band antennas at W3LPL.

# 3:45-5:00 Room 3 Software Defined Radio - Why SDR? Moderator: Stephan Hicks, N5AC

Abstract: This is a common question that all hams ask (or should ask). I will try to answer the question "What does the SDR do for me that a conventional radio doesn't?" Examples of virtual receivers, remote operation and open-source design will be discussed.

Jared Boone, AF7SO

SDR In Your Hand

Abstract: Ham software-defined radio is often done with a PC or expensive and power-hungry FPGA hardware. I will discuss my PortaPack project, where I do lots of battery-powered SDR with the \$5 microcontroller in the HackRF One.

Jared Boone, AF7SO, channels his radio and electronics obsessions into his open-source hardware business, ShareBrained Technology.

Stephen Hicks, N5AC, VP Engineering, FlexRadio Systems

Station simplification, DX and remote operation with the FLEX-6000 and Maestro. Part of the promise of a true software defined radio (SDR) is the ever expanding wealth of software capabilities. In this talk we discuss how new software capabilities added to the FLEX-6000 platform along with the Maestro control system have led to simplification of station design, better DX capabilities and remote operating possibilities.

The three speakers will form a panel at the end of the presentations and will address questions from the audience as a group.

### 3:45-5:00 Room 5 Digital Mobile Radio

### Moderator: John Burningham, W2XAB

Digital Mobile Radio (DMR) is the international standard for professional radios, there are over a dozen manufactures in the world. Hams have built a couple of world wide networks over the last few years. Learn about what is going on in the amateur DMR community, the new innovations and what the future holds.

### 4:00-5:00 Room 2

### County Hunting Moderator: Dr. Timothy Eklin, W8JJ

Tim, W8JJ holds USA-CA #1203 and has worked and confirmed all U.S. counties and will serve as moderator for this forum. Tim is also the Great Lakes District Director for the Mobile Amateur Radio Awards Club (MARAC).

Randy Hatt, AA8R – Speaker #1

Randy, AA8R holds USA-CA #885 and will answer the following questions: What is County Hunting? How do you get started? What equipment do I need? What frequencies, modes, and protocols do county hunters use? Randy will also share some benefits of joining the Mobile Amateur Radio Awards Club (MARAC).

Bob Voss, N4CD – Speaker #2

Bob, N4CD holds USA-CA #883 and will discuss going mobile for the dual purpose of activating counties while participating in the National Parks on the Air (NPOTA) event. This is a fun and interesting way to increase your contacts while mobile. Bob is an avid travel enthusiast and he is the first amateur to operate from all 3,077 U.S. counties twice.

# Saturday 21st

### 9:15 - 10:15 Room 1

### Drake Equipment

### **Moderator: Mark Gilger**

9:15 - 9:25 Introduction/Welcome WB0IQK

9:25 -9:30 Review of Articles & Resources (Ron's Web Page) WB0IQK

9:30 - 9:45 TR-7 Trouble Shooting WB4HFN

9:45 - 9:50 TR-7 DSP Mini Filter WB4HFN

9:50 - 9:55 TR-7 XLOCK Freq. Stabilizer WB4HFN

9:55 - 10:00 How I lost my Drakes, Almost K9SQG

10:00 - 10:15 Q & A, Ron, Jeff, Mark, & Evan WA8SAJ & WB4HFN,

WB0IQK & K9SQG

### 9:15-12:00 Room 2

### **Youth Forum**

### **Moderator: Carole Perry**

Come join the fun and share the pride by attending this forum to support our talented young speakers. Bring kids with you to inspire them to join the fun of being a youngster in ham radio. This is where young people will get to meet with other youngsters. Stay tuned for special announcements about fabulous opportunities for young adults in ham radio and at Ham Vention. There will be lots of prizes for the speakers, the kids in the audi ence, and the supportive adults in attendance. You must be present to win! Speakers: Maria Lysandrou KD9BUS age 17 "Attracting Females into Our Hobby" Kelsey Seymour K3LSY age 17 "Preparing Yourself: An in-depth look at Go-Kits for Emergencies"

Kelsey Seymour K3LSY age 17 "Preparing Yourself: An in-depth look at Go-Kits for Emergencies"

Brandon Geik WA9REV age 16 "ARISS contact and Cell Phones down and Radios Up"

Eli Musgrave KM4HFZ age 15 and Zach Haidari KM4QIV age 14 "Discover the Fun and Magic of Digital Radio Communications" Hope Lea KM4IPF age 9 "Talking through the Birds" Skyler Fennell KD0WHB age 17 "Home Brewing on a Budget" Jacob Nagal AD0JA age 16 "Programming New Radios"

Marty Sullaway KC1CWF age 13 "Home Brewing Fun" William Ferguson KJ4EYZ age 14 "Setting Up a Radio Station to Chase DX" Dhruv Rebba KC9ZJX "Being a young ham in India."

# 9:15-10:15 Room 3 SATERN "The Times They Are A-Changin" Moderator: Bill Feist, WB8BZH

Speakers:

Lt. Col. Ron Busroe, National CRD Secretary and NationaDisaster Liason Bill Shillington, W9ZCL, Territorial SATERN Coordinator, Central Territory

Maj. Patrick E. McPherson, WW9E, SATERN Founder Bill Feist, CEM, WB8BZH, National SATERN Liaison

Lt. Col. Ron Busroe, National CRD Secretary, who is responsible for The Salvation Army's National Disaster Services program, will present SATERN Founder Major Patrick E. McPherson, WW9E, with The Salvation Army's Exceptional Service Award for his dedicated service in founding and developing the SATERN program over the past 28 years. Mr. William H. Feist III, CEM - WB8BZH, will then be officially announced as the newly appointed National SATERN Liaison and will outline the work of the National SATERN Committee on SATERN's Strategic Plan.

# 9:15-11:00 Room 5 ARRL Member Forum: ARRL National Parks on the Air Moderator: Bob Inderbitzen

Presenters: Sean Kutzko, KX9X, ARRL Media and Public Relations Manager, and Norm Fusaro, W3IZ, ARRL Assistant Field Services and Radiosport Manager

Come hear an update on ARRL's year-long on-air event, celebrating the 100th Anniversary of the National Park Service. Get tips for activating and chasing the more than 400 National Park Service administrative units — and learn about some of America's finest natural and historic landmarks along the way.

Forums

### 10:30-12:15 Room 1 HamNation

**Moderator: Bob Heil** 

Bob Heil, Gordon West, George Thomas, Dale Puckett and Valerie Hot zfeld will all be present to talk about how the show is put together and some of the future plans of Amateur Radio's number one HD webcast, Ham Nation beginning it's 5th year Bob Heil will present a 40 minute pre sentation on the history of Heil Sound. From Bob's humble beginningas a B3 Hammond organ dealer to one of the leading innovators of the live sound industry and how all of this ended up with Heil Sound being the only manufacturer in the Rock n Roll Hall of Fame - all because of Amateur Radio!

### 10:30-11:45 Room 3 RTTY Contesting

**Moderator: Ed Muns** 

- 1. Contest vs. DXpedition Operating, Craig Thompson, K9CT
- 2. Remote Contesting, Mark Aaker, K6UFO
- 3. Top Ten Tips, Ed Muns W0YK

The Forum covers various topics of interest in RTTY Contesting.

### 11:15-1:30 Room 5 AMSAT

Moderator: Mark Hammond, N8MH

"AMSAT Status Report." Barry Baines, WD4ASW, AMSAT-NA President, will highlight recent activities within AMSAT and discuss some of our challenges, accomplishments, projects, and any late breaking news.

"AMSAT-NA Fox Satellite Program." Jerry Buxton, N0JY, AMSAT-NA Engineering Vice President, will review the upcoming launches of four Fox spacecraft and exciting new engineering developments.

"AMSAT's HEO and GSO Plans." Bob McGwier, N4HY, AMSAT-NA Director, will discuss AMSAT-NA opportunities for High Earth Orbit and Geo-Synchronous Orbit satellites.

"AMSAT Satellite Operations." Drew Glasbrenner, KO4MA, AMSAT-NA Operations Vice President, will survey the current operational amateur satellites, as well as those planned for launch in the next year.

"ARISS Report 2016" Frank Bauer, KA3HDO, AMSAT-NA Vice President

for Human Spaceflight, will discuss ARISS developments & operation on the International Space Station.

"Teaching STEM Using the Fox Satellites<sup>2</sup> Joe Spier, K6WAO, AMSAT-NA Educational Relations Vice President, will explain how the Fox MEMS gyroscopes, radiation experiments, and cameras will be used to teach Science, Technology, Engineering, and Math (STEM).

Forums

### 12:00-1:00 Room 3 Quarter Century Wireless Association

### Moderator: Ken Oelke, President QCWA

Speakers: Pete Varounis, NL7XM (Pete the Greek), QCWA Director & Call Sign Historian, and Carole Perry, WB2MGP, Director & Chair, QCWA Youth Activities Program.

The Quarter Century Wireless Association is where the past meets the present, to lead into the future of Amateur Radio. The forum will have an exciting presentation by 'Pete the Greek' on the "Art Of The QSL".

Do not interpre the title as being a presentation on the art of QSLing, for it is not. Don't miss out on this exciting presentation to be first debut at Hamven tion. Carole Perry will be speaking on the QCWA Youth Activities and how the QCWA Scholarship Program assists these young Amateur Radio operators with their education. As well, meet the QCWA Board of Directors and bring your thoughts to the Board.

### 12:15-2:00 Room 2 Fast Scan ATV

### **Moderator: Art Towslee**

12:15 PM - 12:20 PM Art Towslee WA8RMC Introduction
12:22 PM - 12:32 PM Gordon West WB6NOA "Gordo On Tropo". Gordon West describes his tropo ATV experiences from California to Hawaii.
12:34 PM - 12:59 PM Mel Whitten K0PFX "High Definition ATV the Easy Way". Mel shows an easy way to create high definition ATV.
1:02 PM - 1:32 PM Mike Collis WA6SVT "ATV uses and ATN update". Mike will show us unique ways to use a drone for ATV.
1:35 PM - 2:00 PM Grant Taylor VE3XTV "DATV Repeater Design". Grant is experimenting with possible ways to create a DATV repeater.

### 12:30-2:30 **Room 1** Contesting

### **Moderator: Doug Grant**

"Progress on WRTC2018 preparations" - Chris Janssen, DL1MGB

"Building a 21st-century Multi-Single: ED8X" - Paul Young, K1XM and Charlotte Richardson, KQ1F

"Design and Construction of an HF/VHF/UHF Contest Station" - Fred and Anita Kemmerer, AB1OC/AB1QB

"An All-SDR Contest Station" - Craig Thompson, K9CT

### 1:15-2:15 Room 3 Kenwood Equipment

### **Moderator: Mark Gilger**

Note: Shorter presentations will enable longer Q&A time.

1:15 - 1:20 Introduction & Welcome

1:20 - 1:25 Hybrid Net Stats WB0IQK

1:25 - 1:30 Band switch repair W0NTA / WB0IQK

1:30 - 1:35 Molex board plug problems W0NTA / WB0IQK

1:35 - 1:40 Final unit cathode / screen grid protection W0NTA /

WBØIOK

1:40 - 1:55 TS-900 Restoration N8CBX



1:55 - 1:57 VFO-230 Power on Modification K9SQG

1:57 - 2:00 Resource help with parts, documentation and service WB0IOK

2:00 - 2:05 Hybrid restoration techniques WB0IQK

2:05 - 2:15 Questions and Answers WA8SAJ & N8CBX, WØNTA & WB0IQK

### 1:45-3:00 Room 5 ARRL Forum

Moderator: Moderator: Dale Williams, WA8EFK, ARRL Director – Great Lakes Division

ARRL is the national association for Amateur Radio in the US. ARRL members help advance the art, science, and enjoyment of Amateur Radio. ARRL publishes the popular monthly journal QST, coordinates an extensive all-volunteer field organization, and serves members as Amateur Radio's representative voice in regulatory and legislative matters. Hear from local and national ARRL officials on key areas of membership interest. Find out how ARRL supports dozens of ways to get involved, get active, and get on the air. Members and prospective members are all welcome!

# 2:15-3:15 Room 2 Portable HF Antenna : Think like a backpacker Moderator: George Zafiropoulos, KJ6VU

Whether you operate SOTA, Field Day, or just setup in the back yard, operating portable HF radio is more popular than ever. In this session we will apply the light weight backpacker's approach to compact, portable antennas including the new Trail Friendly PackTenna. Wire antennas are simple to build if you know a few basic design techniques. In addition to the antenna, we will also look at new light weight battery technology, solar power and other operating accessories.

### 2:30-3:30 Room 3 System Fusion

### **Moderator: Mark Thompson**

The System Fusion Forum will include a presentation & discussion about Yaesu's System Fusion Voice & Data technology designed exclusively for Amateur Radio.

The forum will review the DR-1X 2m/70cm FM/C4FM Digital Voice Repeater and System Fusion Mobile & Portable radios incorporating both Analog FM & C4FM Digital Voice on the same repeater & network along with the WIRES-X (Wide-coverage Internet Repeater Enhancement System) VoIP internet communications linking system.

Hams experienced in using System Fusion technology and deploying repeaters & WIRES-X will be available to share their experiences and answer your questions about System Fusion.

Everyone who is using or interested in System Fusion is encouraged to attend & participate.



Forums Saturday

### 2:45-5:00 Room 1 DXing

### **Moderator:Tom Inglin**

VP8STI and VP8SGI DX-pedition 2016 - Dave Collingham, K3LP Palmyra Atoll 2016 - Lou Dietrich, N2TU and Craig Thompson, K9CT Chesterfield Islands 2015 DX-pedition - Gene Spinelli, K5GS Heard Island DX-pedition 2016 - Bob Schmieder, KK6EK

### 3:15-5:00 Room 5 VHF-UHF

### **Moderator: Tony Emanuele**

Microwave Learnings by a Sophomore Microwave Enthusiast:

Bill Koch, W2RMA

Building a Super Rover: Terry Price, W8ZN 10 GHz Horn using a Metal Beverage Bottle:

Jeff Wadsworth, KI5WL How to Work Long Distance Paths for 1.2 GHz: Lauren Libby, W0LD ISEE-3 Reboot Project:

The Arecibo Tales: Dana Whitlow, K8YUM

### 3:30-5:00 Room 2 Federal Comunication Comission

### Moderator: Curt R. Bartholomew, N3GQ

I will be speaking on behalf of both the Wireless Telecommunications Bureau (Part 97 Rules Update) and the Public Safety and Homeland Security Bureau (Leadership Tips for Clubs & EmComm Teams). A free FCC-engraved souvenir will be provided to attendees.

# 3:45-5:00 Room 3 Digital Modes Now and For the Future Moderator: Mel Whitten

Algoram Stretch, the world's longest microphone cable! - Bruce Perens K6BP Stretch is a new product that allows you to remotely operate a conventional transceiver or receiver using only a web browser on a phone, laptop, tablet, or desktop with no software to install! Stretch is plug-and-play: plug it into your rig and connect to your network, and you can be on the air remotely in minutes. Operate your rig from anywhere, stream its audio or securely share it with hams worldwide. Stretch adds FreeDV digital voice to any HF rig. It's an open platform with lots of CPU power left over, free development software and its own app store, so Stretch does what you want it to do.

Algoram Katena - Progress on an Open Platform handheld SDR - Chris Testa KD2BMH

Codec2 and FreeDV - New Developments - Bruce Perens K6BP and Mel Whitten, K0PFX

There's been a lot of new development for Codec2 and FreeDV. A new standalone radio design, new codec modes, new modems for both HF and VHF/ UHF. We present reports from the developers.



# Sunday May 22th

9:15-10:15 Room 1 Amateur Radio Disaster and Emergency Communications Panel Moderator: Mike Corey, KI1U, ARRL Emergency Preparedness Manager

A chance to hear from representatives from Amateur Radio's largest organizations active during times of disaster and emergency. Speakers:

- Rob Macedo, KD1CY, VOIP WX Net and VOIP Hurricane Net
- Julio Ripoll, WD4R, Amateur Radio at the National Hurricane Center, WX4NHC
- Paul English, WD8DBY, US Army MARS
- David Stapchuk, KD9DXM, US Air Force MARS
- Bobby Graves, KB5HAV, Hurricane Watch Net
- Bill Feist, WB8BZH, SATERN

9:15-10:15 Room 2 ARRL Forum - Maximizing Your Field Day Effort Moderator:Bob Inderbitzen, NO1R

ARRL Field Day, Amateur Radio's most popular on-the-air event, is June 25 – 26, 2016. Hear from a panel of experienced participants who will cover the educational, operating, and public relations objectives of a successful and FUN Field Day! Panel:

- Dan Henderson, N1ND, ARRL Regulatory Information Manager: How to maximize your Fun for Field Day
- Mike Corey, KI1U, ARRL Emergency Preparedness Manager: Having a Safe Field Day
- Scott Westerman, W9WSW, ARRL Public Relations Committee Chair: get a boost from using Social Media to promote your Field Day activation.

9:15-10:15 Room 3 West Mountain Radio "Getting Started With Amateur Digital Modes" Moderator: Sholto, K7TMG

Presented by Sholto Fisher of West Mountain Radio

This session will start with a review the history and benefits of digital modes. The popular modes will be covered along with what those modes are best used for (DX, contesting, ragchewing, traffic, emcomm, nbems, email...). The attendee will learn about what hardware and software is required along with basic operating instructions for the popular programs such as HRD/DM-780, Fldigi, MultiPSK, and RMS Express. This session will include Illustrations and audio samples of common digital transmissions.

9:15-11:15 Room 5 Bicycle Mobile Hams of America Moderator: Mike Nickolaus, NF0N

Jeff Slattery: N8SUZ GOBA Communications Director

The Great Ohio Bicycle Adventure is the largest bicycle tour in the country with communications support provided entirely by ham radio. Participants bike 50-60 miles per day during the third week in June. Jeff Slattery, N8SUZ,

Forums

has been GOBA Communications Director for 16 years. He will provide an overview of how a new communications plan is developed for touring a different area of Ohio each year along with a review of on-tour communications operations. GOBA will be in southwest Ohio for 2016.

Keith Miller: NE9KM

A design project for a bicycle mount for the Elecraft KX3. Keith will have the bike, radio and antenna on display. The presentation will include photos and description of the building process.

We plan to have bicycle mobile displays and demonstrations of each will be conducted.

# 10:30-11:30 Room 1 NTS - "Revitalizing the National Messaging Layer" Moderator: James Wades, WB8SIW

FEMA, Cascadia Rising and the National Traffic System
Recent events have resulted in a renewed interest in the National Traffic
System with its consistent and systematic procedures, standardized radiogram
format and resilient high frequency networks. New programs such as NTSDigital, NTS Communications Emergency Response Teams and improved
relationships with served agencies promise to transform NTS. Those with an
interest in a professional approach to emergency communications will want to

learn more about these developments and how to get involved with NTS.

# 10:30-11:30 Room 2 Tower Safety How to erect, dismantle or work on a tower / antenna without injuring yourself!

Moderator: Mark Allen, W6PC

Today, Mr. Allen is Vice President of ROHN<sup>TM</sup> Tower Company in Peoria, IL. He is a registered professional engineer in several foreign countries, a Senior Member of IEEE and a Senior Member of SBE for more than 35 years and, lastly, an active HF amateur operator with a call sign of W6PC. Additionally Mr. Allen is a Fellow in The Radio Club of America and is currently serving on the Board of Directors

Assisting in the presentation is Mr. Alan Spindel, AG4WK, who has more than 35 years in the communications industry, and, spent part of his career as a professional tower climber. Mr. Spindel has a master of science in electrical engineering and resides in Nashville, TN.

### 10:30-11:30 Room 3 Ham Radio Delluxe

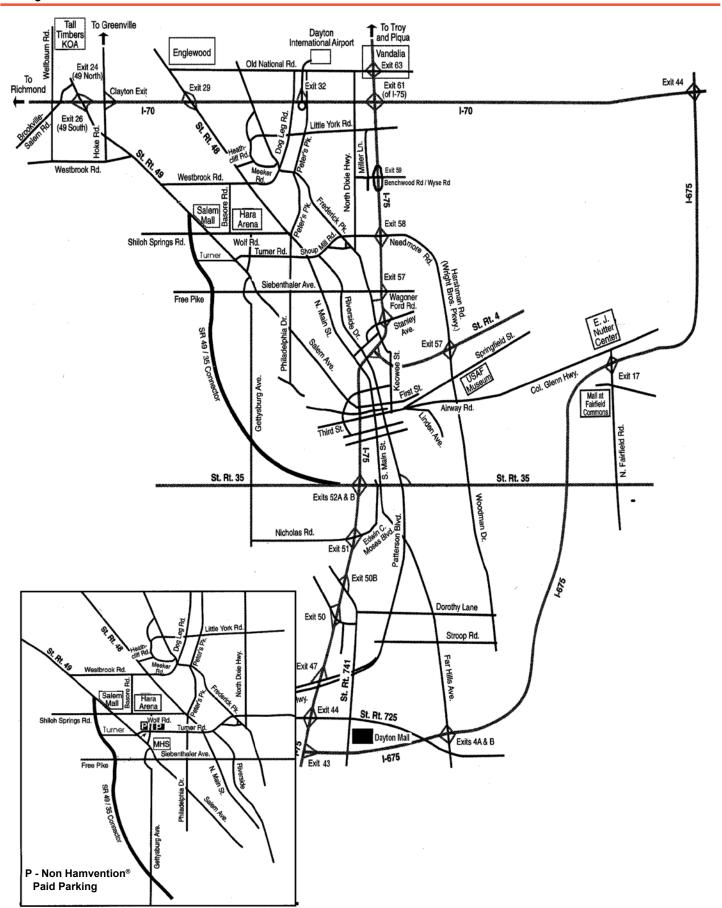
Moderator: Rick Ruhl, W4PC

Rick Ruhl, W4PC, owner of HRD Software, LLC will be doing his annual overview with the theme of the magic of hrd. This will go over the new features of HRD 6 and update everyone on the progress of the program

There will be a question and answer session after the presentation and a special surprise at the beginning of the forum.



# **Dayton Area**



# **Forums Overall Schedule**

'		Fric	Friday			Saturday	rday			Sunday	day	
	Room 1	Room 2	Room 3	Room 5	Room 1	Room 2	Room 3	Room 5	Room 1	Room 2	Room 3	Room 5
9:15 am	TAPR	Remote	OUADEO UE	Having fun	Drake		SATERN		Disaster	ARRL Forum	Getting	
9:30 am	Digital	0perating	EMCOMM	Willi CW	Equipment		Bill Feist	ARRL	and	Bob	Started with Digital	
9:45 am		Mark Aaker	0915-1015	Romanchik	Mark Gilger		0915-1015	Member	0015-1015	Inderbitzen	Modes	Bicycle Mobile
10:00 am	Scott Cowling	0915-1045		0915-1015	0915-1015	Youth		5 6	201-200	0915-1015	0915-1015	Mike
10:15 am	0915-1115					Forum		Boo Inderbitzen				Nickolaus
10:30 am				ARRL		Carole Perry	RTTY	0915-1100	NTS	Tower	Ham Radio	0915-1115
10:45 am			Instructor's	Library	nother Memoria	0915-1200	Contesting		James	Safety	enuxe	
11:00 am		Propagation	Forum	600 AIIISON	nam Nauon		Ed Muns		Wades	Mark Allen	Rick Ruhl	
11:15 am		Frank Beafore	Carole Perry	0511-0601	Bob Heil Gordon West		1030-1145		1030-1130	1030-1130	1030-1130	
11:30 am	APRS	1100-1200	1030-1200		1030-1215							
11:45 am	Rob Brimings			Kit Building								
12:00 pm	5000			Joe Eisenberg			Quarter	AMSAT				
12:15 pm	1130-1230		Collins	1145-1245		Fast Scan	Century Wireless	Mark				
12:30 pm			Radio			ATV	Ken Oelke					
12:45 pm		Balloon Sat	David				1200-1300	115-1330				
1:00 pm	D-Star		Knepper	Techniques	Contesting	Art Iownslee						
1:15 pm	Robin	IIMOIG IIIG	1215-1345	of Best Onerators	Doug Grant	1215-1400	Kenwood					
1:30 pm	Cutshaw	1215-1415		Mitch Ctern	1230-1430		Equipment					
1:45 pm	1245-1415			ואוונכון סנפו וו			Mark Gilger	ARRL Forum				
2:00 pm			Foxhunt/	1300-1415			1315-1415					
2:15 pm			ARDF			Portable HF		Dale Williams				
2:30 pm		Ham Radio	Dick Arnett	pl0		Systems	System	1345_1500				
2:45 pm		and the Law	1400-1530	ransmis- sions		1415-1515	Fusion	000				
3:00 pm		Fred Hopengarten		John Dilks			1430-1530					
3:15 pm	Antenna	1430-1545		1430-1530				VHF-UHF				
3:30 pm					DX Forum			Tony Emanuele				
3:45 pm	LIM DUM		Software	Digital	Tom Inglin	FCC	Digital	1515-1700				
4:00 pm	1430-1700	County	Denned Radio	Mobile	1445-1700	Curt	Modes					
4:15 pm		Hunting	Stephan	John		Багполошем	Mel Whitten					
4:30 pm		Tim Eklin	Hicks	Burningham		1530-1700	1545-1700					
4:45 pm		1600-1700	1545-1700	1545-1700								
5:00 pm												



### **Amateur of the Year – Joe Taylor – K1JT**.

Joe was first licensed as KN2ITP in 1954, and has since held call signs K2ITP, WA1LXQ, W1HFV, VK2BJX and K1JT. He was Professor of Astronomy at the University of Massachusetts from 1969 to 1981 and since then Professor of Physics at Princeton University, serving there also as Dean of the Faculty for six years. He was awarded the Nobel Prize in Physics in 1993 for discovery of the first orbiting pulsar, leading to observations that established the existence of gravitational waves. After retirement he has been busy developing and enhancing digital protocols for weak-signal communication by Amateur Radio, including JT65 and WSPR. He chases DX from 160 meters through the microwave bands.

# Technical Achievement – John S. Burningham, D.I.T., W2XAB



John was first licensed in 1970 as WB8GZR, later as WB9GQM, WB8PUF, and currently as W2XAB. He has been involved with amateur repeaters for over 40 years. After working in the aerospace industry and Motorola, he has been teaching in higher education for over 20 years, currently as a Senior Lecturer at Clayton State University in the Department of Computer Science and Information Technology teaching computer networking; he will retire this May. He is a life member of the ARRL and QCWA and has belonged to AMSAT and TAPR in additional to a number of local clubs as he moved between ten different states. John is currently active in the DMR community, having published a beginner's guide [http://guide.k4usd.org] and a DMR article in QST and a contributing author in the ARRL 2016 Handbook. He has also

presented a number of forums at ham fests including the Hamvention promoting DMR.

### Special Achievement Award – Stan Horzepa, WA1LOU



The Special Achievement Award recognizes WA1LOU as an advocate for cutting edge technologies that are now commonly used in amateur radio. Stan authored five books and wrote over 1,200 pieces for the ARRL and TAPR while evangelizing the use of home computers, packet radio, APRS, Digital Signal Processing (DSP) and Software Defined Radio (SDR) in amateur radio. Licensed in 1969 as WN1LOU, Stan has sampled almost every entrée on the ham radio menu and served in a slew of roles including Section Manager of Connecticut. Presently, Stan is a director and secretary for TAPR and serves as editor of TAPR's newsletter (PSR). "LOU" has driven the 735 miles to Hamvention most years since 1978 and looks forward to doing so forever. "My fondest memories of ham radio are rubbing elbows and making

friends with the makers and shakers of our hobby who show up at Hamvention every year."

### Club of the Year - Rocky Mountain Ham Radio



Description on next page



# Club of the Year - Rocky Mountain Ham Radio

Rocky Mountain Ham Radio is not your typical Amateur Radio club. The organization—based in the Denver, Colorado suburbs— offers its services to other Ham radio clubs and A.R.E.S. groups to help them be successful. Technical assistance, classroom training on a myriad of subjects, mentoring, equipment/system design and public service are among the services provided. The group owns and maintains fixed analog and digital/DMR repeater assets including one of the premier DMR private networks in the nation linked with an Amateur band microwave network that spans the Front Range of the Rocky Mountains from Cheyenne, Wyoming to Cañon City, Colorado with expansion in progress to Albuquerque, New Mexico. The group also owns and operates a deployable communications command post in a 26 foot trailer with capabilities that include satellite Internet, terrestrial 4G Internet, D\*Star, IP telephone, DMR, HF, VHF, UHF and packet/PACTOR. Working hand-in-hand with partner clubs and ARES groups, team members are proud to serve our communities. Rocky Mountain Ham Radio also maintains a VE team to support licensing and upgrades and we work jointly with our associated youth organization, the Cherry Creek Young Amateur Radio Club to ensure a steady stream of new Hams are ready to become the next generation of members. There are no dues; membership is granted by ongoing participation in our events throughout the year. Rocky Mountain Ham Radio is not in competition with anyone; it exists to serve everyone!

## **Previous Award Winners**

### 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.... Wavne 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

# Previous Award Winners (continued)

### SPECIAL ACHIEVEMENT AWARD

1977.....South American Moonbounce (EME) Expedition Team of the Mt. Airy VHF Radio Club Inc., Philadelphia, PA Elliott Weisman, K3JJZ Anthony Sousa, W3HMU S. William Olsan, W3HQT Walter Boldman, K3BPP Daniel Mitten, WA3NFU Socrates Martinez, WB3AFY Bohnar Aguilar, WB3AOP 1978.....Ronald Moorefield, W8ILC 1979.....Edward Tilton, W1HDQ 1980.....Joseph Merdler N6AHU 1981 ..... Bill Pasternak, WA6ITF, 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 1995..... Ed Briner, WA3TVG 1996.....John Kraus, W8JK 1997.....Joseph J. Fairclough, WB2JKJ 1998......John B. Bellows, Jr., KØQB 1999......Paul D. Lieb, KH6HME 2000......A. Prose Walker, W4BW 2001......Frank Bauer, KA3HDO 2002......Dr. Owen Garriott, W5LFL 2003......Jonathan Taylor, K1RFD 2004......George S. Wilson III, W4OYI 2005...... D. Bharathi, VU2RBI 2006......Riley Hollingsworth, K4ZDH 2007..... Ed Hare, W1RFI 2008...... Emery McClendon, KB9IBW 2009......Richard Garriott, W5KWQ 2010......Richard "Dick" Ross 2011.....Fred L. Lloyd, AA7BQ 2012...... Steve Betza, WZ2V 2013......George a. Thomas, Jr, W5JDX 2014..... David Sumner, K1ZZ 2015...... Thomas C. Medlin, W5KUB

### TECHNICAL EXCELLENCE AWARD

1984....Lyle Johnson, WA7GXD 1985 ...Richard Whiting, WØTN

1986...M. E (Doug) DeMaw, W1FB

1987....Henry (Hank) Oredson, WØRLI

1988....Lew McCoy, W1ICP

1989....Byron Goodman, W1DX

1990....Bob McGwier, N4HY

1991....Lou McFadin, W5DID

1992....Gerald Cromer, K4NHN

1993....Dick Jansson, WD4FAB

1994....Dick Newell, AK1A

1995.... Philip Ferrell, K7PF 1996.... William Orr, W6SAI

1997.... Al Ward, W5LUA

1998.... Robert E. Bruninga, WB4APR

1999.... Alfonso R. Torres, KP4AQI

2000.... Dr. H. Paul Shuch, N6TX

2001.... Peter Martinez, G3PLX

2002.... Allen Waller, K3TKJ

2003.... Steve Dimse, K4HG

2004.... Barry Sanderson, KB9VAK

2005.... Dr. Jerry Sevick, W2FMI

2006.... Richard Illman, AH6EZ

2007.... David Cameron, VE7LTD

2008.... Thomas C. McDermott, N5EG

2009.... Copthorne Macdonald, VY2CM

2010.... Simon Brown, HB9DRV

2011.... Roy W. Lewallen, W7EL

2012.... Joel R. Hallas, W1ZR

2013.... David Rowe, VK5DGR

2013.... David M. Whitten, II, KD0EAG

2014.... David Freese Jr, W1HKJ

2015.... Reverend George Dobbs, G3RJV



# 2016 ARRL/DARA Scholarships

### Christopher R. Blackwood, KD2CXC,



lives in Washington, New Jersey, and graduated from Warren Hills Regional High School. He is currently completing his freshman year at Stevens Institute of Technology in Hoboken, New Jersey studying electrical engineering.

Chris states that he has always been fascinated with radio communications, and was especially curious about how devices allow for communications through 'an unseen connection.' During his freshman and sophomore years in high school, Chris experimented with schematics for pirate FM transmitters and direct conversion radio receivers. After learning about Amateur Radio, Chris quickly earned his Technician Class license. He connected with other hams in his area, some of whom were also his mentors for his FIRST Robotics Team, and formed a club – the WC2FD Mechanized Contest Battalion.

Together with his club members, Chris participated regularly in contesting all year long, including Field Day, and worked to raise awareness of the role Amateur Radio in his community. The club traveled regularly to Dayton Hamvention, presenting projects at the Youth Forum. Chris even presented the Emergency Antenna Platform System at Dayton, and was also invited to repeat this presentation at ARRL's Centennial Celebration last July, the RCA Technical Symposium, and the New York Maker Faire.

Chris intends to make a career either in electrical engineering or biomedical engineering. His choices are heavily influenced by his involvement and hands-on experiences in Amateur Radio, electronics and robotics. He says, "it gives me the power to fix problems as they arise, and truly change the world by making a meaningful addition to it."



### Samantha K. Young, KC9ENB,

lives in Sidney, Ohio and graduated from Sidney High School with an impressive array of honors, awards and a long list of community involvement. She is currently studying at the Ross University School of Medicine in Iselin, New Jersey.

Samantha obtained her Amateur Radio license at the age of 12, and states that "[Amateur Radio] has been a vital part of my life experiences." Samantha plans a career in medicine as a doctor, and says that operating has furthered her knowledge of physics that will help her greatly in her studies. "As a medical student, understanding the circuitry in the context of resistance and capacitance directly relate to human anatomy; our organs are all connected both in series and parallel in dif-

ferent areas of the body via our blood vessels." She has even found a way to combine her interest in ham radio and medicine by providing services as an EMT.

Samantha hails from a family of six, all of whom are hams, and Amateur Radio brings them together closer, volunteering at local parades and fireworks, participating in Field Day, on family vacations, and attending and volunteering at Dayton Hamvention. She has been an ARRL member for five years.



# Jonathan E. Thielen, KDØCFX,

is from Buffalo, Minnesota, and graduated first in his class at Buffalo High School. He is attending Iowa State University and pursing a degrees in Meteorology and Mathematics.

Jonathan was first licensed in 2007, and earned his Extra Class license by the age of 12. His high school awards include being a National Honor Society member, a National Merit Semifinalist, a U.S. Presidential Scholar Candidate, and Spokesperson on the AA Minnesota State Champion Knowledge Bowl Team, where he also received the MVP award, Coach's Award and All Conference Award. Jonathan was also active with the school newspaper, and served as editor-in-chief and lead website editor.

Jonathan has been active with SKYWARN since 2007, serving as an active storm spotter with the Twin Cities Metro SKYWARN program. His other Amateur Radio activities include volunteering with a local triathlon to provide radio support, and Field Day by assisting in managing the GOTA station and SKYWARN publicity display.

Jonathan explains that weather has always intrigued him, and he joined SKYWARN in 4th grade to become a spotter. This experience led him to understand the importance of Amateur Radio for reporting purposes. From there, it was a quick leap to become interested in electronics, physics, wave propagation, and circuitry. Jonathan has been an ARRL member for 7 years.

Jonathan intends a career in Research Meteorology, which will allow him to continue his study of weather, along with mathematics, physics, chemistry, computer science and meteorology.

# **ARRL/DARA Scholarships**

### David Schwartz, W2DJS,



is from Scarsdale, New York, and was valedictorian of his graduating class from the New Rochelle High School. He is now attending Yale University where he is studying Engineering.

David was first licensed in 2009, and currently holds a General Class license. He enjoys contesting, and has participated in ARRL DXCC, Field Day, the Digital Modes Club, and the Westchester Emergency Communications Association. He has been an ARRL member for 10 years.

He says Amateur Radio has helped his create relationships, made him proficient in geography, taught him about societies around the world, and have a deeper appreciation for looking beyond appearances.

David's other high school honors include the English and Spanish Honor Societies, the National Honor Society, and AP Scholar with Distinction. He also founded and was president of his high school Robotics Team, and served on the New Rochelle Youth Bureau Board of Commissioners

### **Future Scholarships**

The ARRL Foundation will be announcing the recipients of DARA's 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. 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.

# 2015 DARA Local Scholarship

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

# Daniel Smith, KD8FZL,



received a DARA Local Scholarship at our September DARA Membership meeting. Daniel is an active DARA member working at Hamvention over the last nine years on several committees including: Prize Booth, DARA Booth, and filming Live Stream. The last few years he has been helping the Live Stream Committee and driving golf carts. He attends Sinclair Community College studying Communication and then will attend Bowling Green State University to complete a degree in Media Arts. He will use the degree to work in the Mass Communications field.

Applications for the DARA Local Scholarship may be submitted at any time and must follow the guidelines set forth in the application. Information and Application Form for the DARA Local Scholarship may be found on the Dayton Amateur Radio Association Website - W8BI.org in the member's area. Please address any questions or submit applications to the committee at – localscholarship@w8bi.org

# Yaesu Celebrates Its 60th Anniversary from 1956 to 2016, Reaffirming Our Commitment to Achieving Superiority and Excellence in Performance.



Yaesu is a unique company making innovative communications equipment. Our Founder's vision of pursuing excellence and excitement in our products has been our goal for 60 years, and we constantly endeavor to achieve this goal through the passion, enthusiasm and diligence of all of our employees.

Yaesu will continue to achieve new milestones in the coming decade through unique design, innovation, and hard work, while never forgetting the needs of our customers.

We firmly believe that these efforts will ensure that our technologies and products not only appeal to the minds, but also the hearts of our customers.





# **Dayton Hamvention Past General Chairs**

1952-1955	John J. Willig, W8ACE *
1956-1957	Rudy Plak, W8ZOF (W6TIK) *
1958	Frank J. Schwab, W8YCP (W80K) *
1959-1960	Ed F. Bonnet, W80VG *
1961-1962	Joseph H. McNutt, W8GFN *
1963-1964	Sheemon A. Wolfe, W8WJL *
1965-1966	Edgar A. Smith, W8RKL *
1967	
1968-1969	Jack Ohmart, K8CUA *
1970-1971	Kenneth E. Mills, W8RLY
1972	George L. Shearer, WA8IHC (KE8WJ) *
1973-1976	Ted L. Suarez, K8BSC *
1977	
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	Jim Tiderman, N8IDS
	J. CO T.

\* Silent Key

# **Past DARA Presidents**

		1		
1926	C.A. Petry8AWN	1971	Jules Wittebort	
1927	C.A. Petry8AWN	1972		WA8UUX
1928	Lou DriggsW8HEQ	1973		W8IPT
1929	Ray Stotts	1974		W8RLY
1930	Art JohnW8DMI	1975	Robert O. Wilson	
1931	Fred RawsonW8KKH	1976	Robert O. Wilson	
1932		1977	Melvin L. Levy	
1933	Fred AllenW8GER /W8FU	1978	Melvin L. Levy	
1934		1979		W8SVI
1935	Dan C. McCoyW8CI/W8DG	1980		W8SVI
1936		1981	Victor M. Stauder	N8FPF/WA2KOO
1937		1982	Victor M. Stauder	N8FPF/WA2KOO
1938	Emil HenrichW8OVL	1983		N8ZM
1939		1984	Victor M. Stauder	N8FPF/WA2KOO
1940	Russ Gardner W8TPC	1985	Edgar "Red" Smith	W8RKL
1941		1986	Ray Smith	KR8B
1942	Cheever ElyW8LJ	1987	Ray Smith	KR8B
1943	Cheever ElyW8LJ	1988		KP4AQI
1944	Cheever ElyW8LJ	1989	Thomas Holmes	N8ZM
1945	Hyde E. RubleW8PTF	1990	Thomas Holmes	N8ZM
1946	Hyde E. RubleW8PTF	1991	Ron L. Moorefield	W8ILC
1947	Russ HardyW8AQT	1992		N8ZM
1948	Clem WolfordW8ENH	1993	Victor M. Stauder	N8FPF/WA2KOO
1949	John WilligW8ACE	1994	Thomas Holmes	N8ZM
1950	Clem WolfordW8ENH	1995	Dave Coons	WT8W
1951	Frank SchwabW8YCP/W8OK	1996	Dave Coons	WT8W
1952	Frank Schwab W8YCP/W8OK	1997	Michelle Ervin	
1953	Hyde E. RubleW8PTF	1998	Gary DesCombes	N8EMO
1954	Rudy PlakW8ZOF	1999		N8EMO
1955	Allan D. GunstonW8GQ	2000		N8ZGT
1956	Andrew B. HendersonW8WYL	2001	Reuben Meeks	
1957	Robert G. SiffW8QDI	2002	Reuben Meeks	W8GUC
1958	Ed F. Bonnet W8OVG	2003	Mike Buehler	N8XGA
1959	Joseph H. McNuttW8GFN	2004	Mike Buehler	N8XGA
1960	Walter G. BurdineW8ZCV	2005	Michael Kalter	W8CI
1961	Robert F. Zimmerman W8DPW/W8ZM	2006	Michael Kalter	W8CI
1962	Hyde E. Ruble W8PTF	2007	Jim Simpson	WB8QZZ
1963	Richard D. McFadden K8ERE	2008		WB8QZZ
1964	Ted Suarez K8BSC	2009		K8UD
1965	Robert E. WilcoxK8EJI	2010		WB8QZZ
1966	Jim DakinK8BPC	2011	_	K8UD
1967	Ken MillsW8RLY	2012		N6JRL
1968	George ShearerWA8IHC/KE8WJ	2013	Don Dubon	
1969	George ShearerWA8IHC/ KE8WJ	2014	Reuben Meeks	
1970	Owen VanceWA8PHW	2015		N6JRL

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# **Dayton Amateur Radio Association**

# **DARA Board**



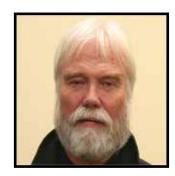
Don DuBon, N6JRL President



Sam Anderson, N8VES Vice President



Nancy Krodel, KC8RMT Secretary



Michael Kalter, W8CI Treasurer



Jim Simpson, WB8QZZ Junior Trustee



Rob Lunsford, KB8UEY Senior Trustee



Jim Tiderman, N8IDS Hamvention General Chair

# **Planning Council**



Charles Kaiser, KD8JZR



Lee Boeckerman, W8LFB



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





# **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**

Needmore Road

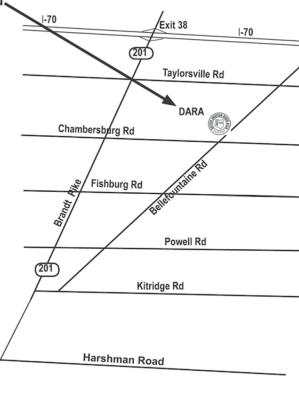
6619 Bellefontaine Road

From Hamvention: Take Wolf Road south, Turn left on Turner Road, Turner Road is also known as Wright Brothers Parkway. Continued 6.9 miles on Wright Brothers Parkway to Brandt Pike (SR# 201). Turn left on Brandt Pike and travel 2.2 miles to Chambersburg Road. Turn right on Chambersburg Road. At the Four Way Stop in .75 miles, turn left on to Bellefountaine Road. DARA's Club House will be 100 yards on your left.

From Remote Parking (Old Salem Mall): Go north (right) on Salem Avenue (SR# 49) to I-70. Go east on I-70 to Exit 38. Go south on Brandt Pike (SR# 201) 1.5 miles to Chambersburg Road. Turn left on Chambersburg Road. At the Four Way Stop in .75 miles, turn left on to Bellefountaine Road. DARA's Club House will be 100 yards on your left.

Alternate Route From Remote Parking (Old Salem Mall): Go south (left) on Salem Ave ) 0.8 miles to the Intersection of Brumbaugh and Turner Roads. Turn left on Turner Road and follow the directions above "From Hamvention:"

From Downtown Dayton: Take I-75 north to I-70. Go east on I-70 to Exit 38. Go south on Brandt Pike (SR# 201) 1.5 miles to Chambersburg Road. Turn left on Chambersburg Road. At the Four Way Stop in .75 miles, turn left on to Bellefountaine Road. DARA's Club House will be 100 yards on your left.



Wright Brothers Parkway

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

# Constantly Building Upon Our Own Innovation

Visit the KENWOOD booth for the 2016 Commemorative Pin

KENWOOD DAYTON 2016



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