

Friday, May 16th, 2025

TIME	ROOM	FORUM
9:15 AM to 10:05 AM	Room 1	Andy's Ham Radio Linux Moderator: Andy Stewart, KB1OIQ Andy (KB1OIQ) Stewart has created a popular collection of Free Software and Open Source software called "Andy's Ham Radio Linux" (AHRL). For a long time, this involved remastering Xubuntu Linux. Most recently, this software collection has been enhanced so that it can be easily installed on top of your existing installation of Debian, Ubuntu, and Linux Mint, as well as Raspberry Pi OS for RPI 4/5. AHRL has been available since 2011, with over 100,000 downloads to date.
9:15 AM to 11:00 AM	Room 2	Radio Club of America Moderator:
9:15 AM to 10:05 AM	Room 3	DX Marathon - A Program for All Hams Worldwide Moderator: Mark Wohlschlegel, WC3W Dx Marathon is the fastest growing DX Program in our hobby. Come learn about the Program! The details and results of the 2024 DX Marathon will also be
9:15 AM to 10:15 AM	Room 4	TAPR - Topics in Digital Radio Moderator: Scotty Cowling, WA2DFI, TAPR President Speakers: Stana Horzepa, WA1LOU; John Ackermann, N8UR; Mooneer Salem, K6AQ; Dr. Hyomin Kim, KD2MCR 1) TAPR Activities Update 2) Write for PSR! 3) Frequency Control for Next Generation SDRs
10:15 AM to 12:05 PM	Room 1	Elecraft K4D Users Group Moderator: Scott Wright, K0MD Speakers: Bob Wilson, N6TV, Ed Muns W0YK, Rick Tavan N6XI, Dave Anderson K4SV, Eric Swartz WA6HHQ Focus on the new Elecraft K4D HF SDR and will include a tutorial on advanced features, discussion on remote operation for DX Contesting, domestic contesting and remote via StarLink. The new K40 and VK4 remote software will be demonstrated as well as any new updates to the rig's features, controls and
10:15 AM to 11:15 AM	Room 3	Salty Walt's Portable Antenna Forum Moderator: "Salty Walt" Hudson, K4OGO "Salty Walt" -- of the popular Costal Waves and Wires YouTube channel -- shows you how to make a great antenna for outdoor operations. Learn how to make something simple that goes anywhere and connects you around the world. And get a preview of Walt's new ARRL book, Salty Walt's Portable Antenna Sketchbook. This forum is sponsored by ARRL The National Association for
10:25 AM to 11:20 AM	Room 4	Advanced Topics in Storm Spotting Moderator: Brandon Peloquin, Warning Coordination Meteorologist, National Weather Service Wilmington, OH Speaker: Nate McGinnis, Meteorologiist Every year, the National Weather Service conducts Basic Spotter Training courses both in person and virtually all across the country. While less frequent, the National Weather Service also provides trained storm spotters with an advanced course, which dives deeper into the study of thunderstorm strength, squall line tornadoes, and supercell structures. This presentation examines the complexities of storm spotting in challenging situations and why having a deeper
11:10 AM to 12:30 PM	Room 2	BalloonSat - Taking Amateur Radio to New Heights Moderator: Bill Brown, WB8ELK Speakers: Mason Mills KQ4GQB, Todd McKinney KN4TPG STEM Amateur Radio Balloon Flights. High Altitude WSPR Solar Eclipse propagation experiments. Using Pico Balloons for Weather Research. A Pico balloon will be launched right after the Forum
11:25 AM to 12:40 PM	Room 3	Collins Radio Innovation and HF Communications from the 1950s to the 80s Moderator: Francesco Ledda, K5URG

- PM
- Speaker: Scott Johnson, W7SVJ
Collins Radio Company was founded in 1933 by Arthur Collins in Cedar Rapids, Iowa. The company, started in Arthurs' basement, grew to become a major supplier of innovative and high-quality radio equipment. From the mid-1940s to the 80s, Collins was a dominant force in the entire radio communications field. Collins radios were everywhere, from commercial radio stations to Strategic Air Command bombers, to Navy carriers and submarines and the NASA Apollo/Gemini programs, both earth and space". Why was Collins so dominant? In this presentation we will cover the key technological innovations that allowed Collins to displace major competitors- RCA, Magnavox and others. Amazingly
- 11:30 AM to 12:20 PM Room 4 **Kit Building Techniques for Success**
Moderator: Joe Eisenberg, K0NEB
A look at ideas for making kit building a fun experience. I'll go over tools, techniques, and ideas for both individual and group kit building experiences. The emphasis will be on techniques to make it successful for both individuals and groups. We will go over how to pick your first kit or a kit ideal for introducing kit building for your club or group. I'll show kits for all levels of
- 12:15 PM to 1:50 PM Room 1 **SOTA to the Max: Friendships, Sunspots, and Pileups**
Moderator: Keith Schlottman, KR7RK
Speakers: Charlie Brown, NJ7V
There has never been a better time to be involved with Summits On The Air. As Cycle 25 has ramped up, amateur radio operators are energizing the airwaves from high points all around the world. Activating summits with other hams provide wonderful opportunities to learn and share technological skills, while forming lasting friendships. NJ7V will share about his experience making cross-cultural bonds while activating rare summits in the Navajo Nation. KR7RK will present ideas to help you set and achieve new goals in SOTA. Chasers can also join the fun with plenty of ATNO's and DXCC countries to collect. This forum will
- 12:30 PM to 2:00 PM Room 4 **Digital Contest Forum**
Moderator: Ed Muns, W0YK
Speakers: Tim Shoppa, N3QE and Courtney Krehbiel, KD6X
This forum explores current topics in RTTY and FT8 contesting. N3QE will share insights from the data mining he has done from digital contest results. KD6X will introduce two recent advances in how multiple radios can be controlled and better utilized by the SOnR operator. W0YK will describe a unique new FT8 contest that interoperates with non-contesters in an entirely transparent way.
- 12:40 PM to 2:10 PM Room 2 **LICW and the Renaissance of Morse Code**
Moderator: Howard Bernstein, WB2UZE
Speakers: Jim Crites, W6JIM, Mike Padron, N1CC, Cathy Goodrich, W4CMG, Bob Cady, W7JNM and Katie Campbell, KQ4HRI
Morse code is making a comeback in today's tech-driven world. In this presentation we share our research and insights behind the development of our curriculum, which incorporates The LICW Method—an approach specifically designed to give adult learners the best chance for success and help them get
- 12:50 PM to 2:00 PM Room 3 **Strategy, Grantmaking, and 44Net: ARDC's Roadmap for the Future**
Moderator: Rosy Schechter KJ7RYV
Speaker: John Burwell KI5QKX
ARDC will provide an overview of its vision and strategy for 2025, along with updates on its activities and grantmaking efforts. The session will cover key grants program topics, including updates from some of our grantees about their recent work, as well as findings from our Grants Evaluation Team (GET) regarding past grantmaking activities. ARDC is also actively improving 44Net, and they will give an overview of new techniques for accessing and utilizing the 44Net addresses, helping amateur radio projects improve TCP/IP connectivity,
- 2:00 PM to 5:00 PM Room 1 **Antenna Forum**
Moderator: Tim Duffy, K3LR
Speakers: Joel Harrison, W5ZN, Fred Lass, K2TR, Greg Ord, W8WWV and Dr. Tamitha Skov, WX6SWW

Presentations will include 1) Comparison of Short Vertical Arrays for Low Band Receiving 2) Wideband Wire Antennas 3) All Choked Up! Feedline Choking Without Suffocating and 4) Solar Cycle 25 Lessons Learned for Amateur Radio

- 2:10 PM to Room 3 **Ham Radio and the Law**
3:00 PM Moderator: Fred Hopengarten, K1VR
Ham Lawyers will provide short descriptions of current legal problems and
- 2:10 PM to Room 4 **YLRL: Women Building Community Through Amateur Radio**
3:30 PM Moderator: Anne Manna, WB1ARU
- 2:20 PM to Room 2 **Lightning, Grounding and Radio Frequency Interference (RFI)**
3:35 PM Moderator: Jim Bacher, WB8VSU
Speaker: Ward Silber, N0AX
Topics include outside lightning protection, inside lightning protection and inside RF inside Management
- 3:10 PM to Room 3 **APRS - State of the Union**
4:00 PM Moderator: John Langner, WB2OSZ or Jason Rausch, K4APR
Speaker: Jeff Hochberg, W4JEW and John Tarbox, WA1KLI
APRS (Automatic Packet Reporting System) plays a crucial role in real-time tactical digital communications for amateur radio operators worldwide. We will explore the current state of APRS, including its infrastructure, applications, and ongoing projects. We will also discuss the future of APRS. Whether you're a seasoned APRS user or just getting started, this session will provide valuable
- 3:40 PM to Room 4 **Foxhunting/ Transmitter Hunting**
5:00 PM Moderator: Dick Arnett, WB4SUV
Speaker: Bob Frey, WA6EZV
New to fox hunting? Then come and learn what it takes to get started on mobile or on-foot hunts. Basic fox hunting equipment, mobile setup, as well as tips for getting started "on the Cheap" will be covered. Additional topics will include ARDF/Radio-Orienteering. Available receivers, antennas, attenuators, and transmitters for both mobile and radio-orienteering events will be discussed.
- 3:45 PM to Room 2 **Power Line Interference and Chokes**
5:00 PM Moderator: Jim Bacher, WB8VSU
Speakers: Bruce Sparrow, N2KTV and Gary Bishop, NQ0V
Topics include power handling capability of ferrite cores used for impedance matching, slaying Power Line Interference and Ham RFI starting points.
- 4:10 PM to Room 3 **100 years of MARS**
5:00 PM Moderators: Paul English, WD8DBY and Dave Antry, WD9HBA
The Military Auxiliary Radio System (MARS) celebrates 100 years of service to the Department of Defense. Comprised of specially trained volunteer amateur radio operators, MARS members support the military with over-the-air HF radio training, phone patch support to DoD and other governmental agencies, and reporting critical infrastructure information, utilized by DOD decision makers following potentially devastating events. Over the years, modes of operation have evolved from CW in the earlier years to encrypted digital messaging using military standard communication protocols. Join us, learn a brief history of MARS,

Saturday, May 17th, 2024

TIME	ROOM	FORUM
9:15 AM to 10:05 AM	Room 1	Ham Nation and Friends Moderator: Josh Nass, KI6NAZ HamNation, Live in person, hosted by Josh. The crew will bring on friends of the
9:15 AM to 10:10 AM	Room 2	ARISS: Moderator: Frank Bauer, KA3HDO
9:15 AM to 11:15 AM	Room 3	Radio Club of America Youth Forum Moderator: Jim Storms, AB8YK Participants: Katie Campbell, KE8LQR; Lilly Colon, W8LIL; Maggie Flowers, KE2AIZ; Max Freedman, N4ML; Dominic Hord, AD8AK; Isaiah Russell, KJ5CMP; Josiah Russell, WD5JR; Levi Stevens, KG5XR Join us for the Radio Club of America Youth Forum, featuring presentations from young ham radio operators. Topics will include the Dave Kalter Youth DX Adventures, breaking records, microwaves and CW, POTA, and contesting. Learn about the growing involvement of youth in amateur radio and engage with the speakers during the panel discussion and Q&A session. The forum will conclude with prize giveaways and key takeaways, highlighting the future of ham radio and the contributions of young operators to the hobby. Whether you're
9:15 AM to 10:10 AM	Room 4	HF Digital Modes Moderator: Mel Whitten, KOPFX Speakers: Mooneer Salem, K6AQ and JoeBrett Wicker, K5YVY SSB faces many issues making QSOs on HF difficult. What if these challenges could be reduced or eliminated using modern techniques? Mooneer, K6AQ will describe how FreeDV, with the help of an ARDC grant, uses machine-learning to create a better-than-SSB digital voice mode, the Radio Autoencoder (RADE). JoeBrett, K5YVY will introduce you to a new mode, FreeDATA an open-source PC
10:15 AM to 11:45 AM	Room 1	DX Forum - Part 1 Moderator: Brian Bathe, AD8FD Speakers: DXpedition Reviews including 3D2Y, OK2WX, and XT2MD
10:20 AM to 11:20 AM	Room 2	Explore the Excitement of Parks on the Air Moderator: Kevin Thomas, W1DED Discover why Parks on the Air® (POTA) has become the fastest-growing segment of amateur radio! Since its launch in 2017, POTA has inspired thousands of hams worldwide to combine their love of radio with the great outdoors. Whether you're chasing contacts from home or activating from breathtaking parks, POTA offers something for everyone—including new operating challenges and unforgettable experiences. Join us at the Dayton Hamvention POTA Forum to learn how this incredible program came to life, meet fellow enthusiasts, and gain practical tips to level up your POTA adventures. Whether you're a seasoned activator or new to the scene, this session will help
10:20 AM to 11:15 AM	Room 4	Fast Scan Amateur Television Forum Moderator: Art Towslee, WA8RMC Speaker: Joel Wilhite, KD6W A beginners overview of Digital Amateur Television and how it is used for repeater operation. Also described will be how build and operate a DATV
11:25 AM to 12:50 PM	Room 3	ARRL Membership Forum Moderator: Scott Yonally, N8SY, ARRL Director - Great Lakes Division

- Join leaders from ARRL for an update on the organization's ongoing efforts to promote and protect the art, science, and enjoyment of amateur radio, and to develop the next generation of radio amateurs. Learn how ARRL is working to foster a vibrant ecosystem connecting radio amateurs and radio clubs to boost recruitment, licensing, and training efforts. Hear about ARRL's advocacy efforts for the Amateur Radio Emergency Preparedness Act, recently reintroduced to both the US Senate and House. This important legislation seeks to restore the rights of Amateur Radio Operators to install antennas necessary to serve their
- 11:25 AM to 12:20 PM Room 4 **Hints and Kinks with the NanoVNA**
Moderator: Eric Nichols, KL7AJ
The popular NanoVNA is capable of much more than just an antenna analyzer. We will go into depth on some of the less-known functions and applications.
- 11:30 AM to 12:30 PM Room 2 **Parks on the Air: The Road Ahead**
Moderator: Kevin Thomas, W1DED
Speakers: Rick Parent (???), John Ford (AB00), Thom Martin (W8TAM), Mike Case (W8MSC), Tom Suggs (N4MTE), Mark Torigian (K8MST), and Kevin Thomas
Get an exclusive look at the future of Parks on the Air® from the leaders shaping its direction! Join POTA's President and board members for an engaging session on POTA's evolution and vision.
Learn firsthand about upcoming initiatives, exciting program enhancements, and new ways to connect with the global POTA community. With a dynamic Q&A session and special surprise guests, this forum is a must-attend for anyone passionate about POTA's future. Bring your questions and your enthusiasm—be
- 11:55 AM to 1:25 PM Room 1 **DX Forum - Part 2**
Moderator: Brian Bathe, AD8FD
Speakers:
DXPedition Reviews including V73WW & N5J
- 12:30 PM to 1:25 PM Room 4 **VHF-UHF-Microwave Forum**
Moderator: Tony Emanuele, K8ZR
Current topics related to the amateur bands from 50 MHz thru the mm-Wave
- 12:40 PM to 1:40 PM Room 2 **Remote HF**
Moderator: Michael Walker, VA3MW
- 1:00 PM to 4:00 PM Room 3 **ARRL Youth Rally Activities**
Moderator: Steve Goodgame, K5ATA, ARRL Education and Learning Manager
Connect with other young hams at Hamvention! We'll get to know each other, and we'll explore a variety of amateur radio interests and activities. Take part in a foxhunt, help launch a pico balloon, make a contact with a parachute mobile station, and other fun! Bring a 2-meter handheld radio if you have one. This session is limited to students ages 11 – 21. Pre-registration is recommended at www.arrl.org/expo. This forum is sponsored by ARRL The
- 1:35 PM to 3:50 PM Room 1 **Contesting**
Moderator: Doug Grant, K1DG
Speakers:
This forum will explore several topics of interest to both beginning and experienced contesters.
"The Great Montana Sweepstakes Shootout of 2024" - Chris Hurlbut, KL9A/KM7W, and Pat Barkey, N9RV, "Youth Contesting in Europe" - Jules Benkemoun, F4IEY, "QSO Party Roving in Style" - Chris Knox, KI1P, "Introducing
- 1:35 PM to 2:30 PM Room 4 **Close Encounters of the Microcontroller Kind**
Moderator: Glen Popiel, KW5GP
Join ARRL author Glen Popiel, KW5GP, in an all-new presentation as he demonstrates advanced projects and design concepts with the Arduino and other microcontrollers. Learn just how much fun you can have creating your own microcontroller-based projects for your ham shack, family, and friends.
- 1:50 PM to Room 2 **AMSAT**

- 3:10 PM Moderator: Phil Smith, W1EME
Speakers:
- 2:40 PM to Room 4 **Node Red Live Build**
3:50 PM Moderator: Kyle Krieg, AA0Z
- 3:20 PM to Room 2 **System Fusion**
5:00 PM Moderator: Mark Thompson, WB9QZB
Speakers: John Kruk, N9UPC, Sales Manager, Amateur Radio Sales Division,
- 4:00 PM to Room 1 **HamSCI: The Ham Radio Science Citizen Investigation**
5:00 PM Moderator: Nathan Frissell, W2NAF
- 4:00 PM to Room 4 **ARRL Collegiate Amateur Radio Program (CARP)**
5:00 PM Moderators: Tony Milluzzi, KD8RTT, Advisor, ARRL Collegiate Amateur Radio Initiative
Andy Milluzzi, KK4LWR, Advisor, ARRL Collegiate Amateur Radio Initiative
Bob Inderbitzen, NQ1R, Staff Liaison, ARRL Collegiate Amateur Radio Initiative
Since the ARRL Collegiate Amateur Radio Program (CARP) was established in 2017, we've been growing our community of participating students and ham radio clubs at colleges and universities. CARP holds monthly Zoom meetups and make connections through our CARP Facebook group and Discord. Join us! We're (re)inspiring ham radio among our nation's colleges and universities, meeting other students, and developing career connections. Students, alumni, and faculty are all welcome! The ARRL Collegiate Amateur Radio Program is sponsored in part by the W1YSM Snyder Family Collegiate & ARRL Affiliated Club
- 4:10 PM to Room 3 **Software Defined Radio**
5:00 PM Moderator: Stephen Hicks, N5AC

Sunday, May 18th, 2025

TIME	ROOM	FORUM
9:15 AM to 10:20 AM	Room 1	Ham Radio Trivia with Kahoots! Moderator: Kyle Kreig, AA0Z Kyle Krieg hosts Ham Radio Trivia live and in person using Kahoots! Come join the 4 rounds of fun. Prizes to the top 3 winners in each round!
9:15 AM to 10:20 AM	Room 2	ARRL FCC Update Moderator: Bart Jahnke, W9JJ, ARRL Regulatory and Radiosport Manager Speaker: Riley Hollingsworth, K4ZDH, ARRL Volunteer Monitor Program ARRL Regulatory and Radiosport Manager Bart Jahnke, W9JJ, will lead a discussion with FCC officials and ARRL Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH, who spent decades in the FCC Enforcement Division about issues facing the Amateur Radio Service and the FCC's current enforcement efforts. Learn more about types of complaints that are filed; ARRL's process for helping members with enforcement and RFI issues, and ARRL's role in protecting the amateur radio spectrum. This forum is sponsored by ARRL The
9:15 AM to 10:20 AM	Room 3	ARRL Youth Outreach through STEM Moderator: Steve Goodgame, K5ATA, ARRL Education and Learning Manager Discover how amateur radio can engage students in STEM education disciplines (science, technology, engineering, and math), igniting their passion for higher education and careers in technological fields. Steve will cover strategies to involve youth in ham radio, from learning about how-radios-work and building things, to communication via satellites and with astronauts -- promising a journey of skill development and friendship. ARRL is empowering the next
9:15 AM to 10:20 AM	Room 4	Starting a Club Youtube Channel Moderator: Chris Perry (KY4CKP) and Brian Perry (KY4BDP) Starting a club YouTube channel to share information on products, building antennas and other projects and inspire hams to be active in our hobby!
10:30 AM to 11:30 AM	Room 1	Go Kit Design, A Fresh Approach Moderator: Vince d'Eon, VE6LK Vince builds his go-kits for a purpose and will talk about Go-Kit Building Design Considerations and outline some key points to help you assemble your own kit before you break out the credit card, and will tour you through his kits. Use this approach to design your own kit(s). You can read up in advance of the presentation on his website and bring along your questions. [URL
10:30 AM to 11:30 AM	Room 2	ARRL Radiosport Forum - Level Up! Moderator: Bart Jahnke, W9JJ, ARRL Regulatory and Radiosport Manager Make the most from DXing and contesting! ARRL Radiosport leaders will share an update on 2025 contests, award hunting, and other radiosport activities like the International Amateur Radio Union (IARU) 100th Anniversary activity and 2025 ARRL Field Day (June 28 - 29). Also learn how to find a contest club in your area to get a seat on a winning team. Get a free 2025 ARRL Field Day sticker for attending this forum, while supplies last. This forum is sponsored by ARRL The
10:30 AM to 11:30 AM	Room 3	ARES - Building Relationships in Public Service Moderator: Josh Johnston, KE5MHV, ARRL Director of Emergency Management Volunteer operators working within the ARRL Amateur Radio Emergency Service® (ARES®) provide a valuable resource to their communities. That public benefit is built on a foundation of trust with the agencies local groups serve. In this forum, you will get an overview of the goals and direction of the ARES program -- including how partnerships and collaboration are key. Program leaders will talk about how community service and emergency communications have evolved in recent years, and why the Amateur Radio Service is as critical as
10:30 AM to 11:30 AM	Room 4	Homebrewing in 2025 Moderator: James Kretzschmar, AE7AX

AM

In this presentation I discuss topics such as: (1) How to get started, (2) Where to get ideas, (3) Where to source parts, (4) Techniques in building circuits, (5) Simple starter circuits, (6) Simple test equipment, (7) Useful math, and (8) 40