

Friday, May 17th, 2024		
TIME	ROOM	FORUM
9:15 AM to 10:35 AM	Room 1	TAPR - Topics in Digital Radio
		Moderator: Scotty Cowling, WA2DFI, TAPR President
		Speakers: Stana Horzepa, WA1LOU, TAPR Secretary/PSR Editor; John Ackermann, N8UR; Mooneer Salem, K6AQ; Dr. Hyomin Kim, KD2MCR
		Scotty Cowling, WA2DFI, TAPR President will give a TAPR Activities Update. Stana Horzepa, WA1LOU, TAPR Secretary/PSR Editor will present "Write for PSR!" John Ackermann, N8UR will present "Frequency Control for Next Generation SDRs." Accurate and stable frequency control is important to the quality of results for radio-based space science experiments. John's presentation discusses some of those requirements, and low cost frequency references to help meet them. Mooneer Salem, K6AQ will present "Using ezDV to get on the air with Digital Voice." A How-to guide to using ezDV with a standard transceiver to get on the air with digital voice. Dr Hyomin Kim, KD2MCR will present "Introducing the TAPR/HamSci Magnetometer." A description and deployment of the TAPR Magnetometer.
9:15 AM to 10:10 AM	Room 2	Linux and Ham Radio Software
		Moderator: Andy Stewart, KB1OIQ
9:15 AM to 9:50 AM	Room 3	ARES, SAFECOM, and Building Relationships
		Moderator: Josh Johnston, KE5MHV, ARRL Director of Emergency Management
		In 2023, ARRL was elected to serve on SAFECOM®, a program of the US Department of Homeland Security. SAFECOM supports the public safety community to improve the emergency communications ecosystem. In this Amateur Radio Emergency Service® (ARES®) forum, you'll learn about the importance of building mutually beneficial relationships with local emergency management officials, and the importance of our partnerships with served agencies. This forum is part of the 2024 ARRL National Convention track.
9:15 AM to 10:35 AM	Room 4	Digital Contest Forum
		Moderator: Ed Muns, W0YK
		Speakers: Tim Shoppa, N3QE; Ty Stewart, K3MM; Courtney Krehbiel, KD6X
		Thursday Night Fun with WRT, Tim Shoppa, N3QE Thursday Night Fun with FT NCCC Sprint, Ty Stewart, K3MM SO4R with RigSelect PRO, Courtney Krehbiel & Ed Muns, W0YK
10:00 AM to 10:50 AM	Room 3	Instructor Academy with Gordon West
		Moderator: Gordon West, WB6NOA, ARRL National Instructor
		Join "Gordo" as he shows off many new training tools to help YOU lead your next lively ham radio license classes. Discover a wealth of resources, from fresh newsletters to PowerPoint supplements tailored for Zoom sessions. Whether you're guiding radio clubs or individuals, tap into the ARRL National Instructor Program to elevate your ham radio classes. <i>This forum is part of the 2024 ARRL National Convention track.</i>
10:20 AM to 11:35 AM	Room 2	Xenia and Beyond - A History of Violent Tornadoes in Ohio and a Look Ahead at the Future of Tornado Forecasting
		Moderator: Brandon Peloquin, Warning Coordination Meteorologist, National Weather Service Wilmington, OH
		Speakers: Thomas Johnstone, KJ4FYN, Meteorologist-In-Charge, NWS Wilmington OH and Gary Clark, KC8TND, Dayton Skywarn
		In this presentation we will look back at some of the more memorable violent tornadoes to strike the Buckeye State including those that occurred 50 years ago last month. We'll also dig a little deeper into the unique place Greene County and Xenia hold in Ohio tornado history and lore and take a look at upcoming technological changes related to detecting and warning for the worst hazards mother nature has to offer. Dayton Skywarn will also be available to talk about how they have evolved over the years.
10:45 AM to 12:15 PM	Room 1	Elecraft K4D Users Group
		Moderator: Scott Wright, K0MD

		<p>Speakers: Bob Wilson N6TV, Eric Swartz WA6HHQ, others</p> <p>The forum will feature a Tips and Tricks for K4D owners and users, Discussion on new features with the K4D including remote operation and updates from Eric about the K4HD. The forum will have ample time for Q/A and will have a working model of the radio present to demonstrate its features and techniques.</p>
10:45 AM to 11:45 AM	Room 4	<p>How to Grow an Amateur Radio Club from Nearly Dead to Amazing!</p> <p>Moderator: Chris Perry, KY4CKP</p> <p>Speaker: Brian Perry, KY4BDP</p> <p>Lake Cumberland Radio Association (LCARA): KY4BDP Brian Perry and Chris Perry KY4CKP present ten steps any club can implement to grow their membership and get their members active and involved in club events. Consistently hold activities such as workdays, skills training, field days and social gatherings (don't forget to have lots of great food). A club that is active together grows together!</p>
11:00 AM to 11:50 AM	Room 3	<p>Youth Outreach Through Amateur Radio STEM Education</p> <p>Moderator: Steve Goodgame, K5ATA, ARRL Education and Learning Manager</p> <p>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 generation of STEM leaders! <i>This forum is part of the 2024 ARRL National Convention track.</i></p>
11:45 AM to 1:15 PM	Room 2	<p>BalloonSat - Taking Amateur Radio to New Heights</p> <p>Moderator: Bill Brown, WB8ELK</p> <p>Speakers: Mason Mills KQ4GQB, Todd McKinney KN4TPG</p> <p>Presentations will include 1) STEM Amateur Radio Balloon flights 2) Science Under Totality: Ballooning During the North American Solar Eclipse 3) Using Amateur Radio Pico Balloons for Weather Research A Pico balloon will be launched right after the Forum.</p>
11:55 AM to 12:45 PM	Room 4	<p>Kit Building Techniques for Success</p> <p>Moderator: Joe Eisenberg, K0NEB</p> <p>A look at tools, tips and techniques to give kit builders from beginning to advanced the best chance of success. I will cover ways to handle different parts as well as sorting parts and even dealing with the growing number of surface mount parts as well as hints on winding toroids. Kits appropriate for beginners up to advanced builders as well as kits appropriate for group kit building experiences.</p>
12:00 PM to 12:50 PM	Room 3	<p>Enhancing Transmitter Performance: The ARRL Clean Signal Initiative</p> <p>Moderators: Mike Ritz, W7VO, ARRL Second Vice President; George Spatta, W1GKS, ARRL Laboratory Manager; Rob Sherwood, NCOB, Sherwood Engineering Inc.</p> <p>Join us as we examine an ARRL initiative aimed at improving amateur transmissions: The ARRL Clean Signal Initiative (CSI). We'll explore how this work will drive improvements to transmitter design, while educating amateurs on the new standards being created. This forum is part of the 2024 ARRL National Convention track</p>
12:25 PM to 1:50 PM	Room 1	<p>Fine Tuning Your SOTA Experience</p> <p>Moderator: Keith Schlottman, KR7RK</p> <p>Speakers: Charlie Brown, NJ7V & Brian Betz, W7JET</p> <p>Are you ready to maximize your fun in the Summits On The Air program? This forum will explore the latest techniques and innovations to help you get the most out of your SOTA adventures. Bring your ideas and questions, because this forum will be interactive with the audience. Whether you're a seasoned SOTA veteran or just getting started, this forum will provide you with valuable insights and practical advice that will help you take your SOTA adventures to new heights. Don't miss out on this opportunity to learn from experienced activators and connect with fellow SOTA enthusiasts.</p>
12:55 PM to 1:55 PM	Room 4	<p>Instructor's Forum</p> <p>Moderator: Carole Perry, WB2MGP</p> <p>Speakers: Tim Duffy, K3LR</p> <p>The Instructors' Forum welcomes teachers, instructors, scout leaders, youth group leaders and any ham looking for ideas on how to go into a school or on how to recruit and retain young hams. Carole Perry WB2MGP will speak about all the free resources for instructors through her RCA Youth Activities Program. Tim Duffy K3LR from Dx Engineering will speak about the YDXA at K3LR in 2023 and about introducing young hams to contesting.</p>

1:00 PM to 1:50 PM	Room 3	How to Control Your Ham Shack with A Node-RED Dashboard
		Moderator: Kyle Krieg, AA0Z
		Node-RED is an easy to learn flow-based programming language that ham radio operators can use to build simple web-based dashboards which provide command, control, and automation in their ham shack. In this presentation we will learn how to get started with Node-RED, what you can control, and some example dashboards. No programming experience necessary as there are ham radio flows already programmed for major manufacturers to get you started. This forum is part of the 2024 ARRL National Convention track.
1:25 PM to 2:30 PM	Room 2	Remote HF Station Ideas and Buiding Blocks or New Hams & Remote Operating
		Moderator: Michael Walker, VA3MW
		Mike VA3MW will delve into the intricacies of Remote HF Radio Operation. He will compare the challenges and strengths of each approach, providing an understanding of what it takes to achieve reliable remote HF radio performance. This session is perfect for those interested in exploring remote HF radio operations. Also, the Chesapeake Amateur Radio Service club will present on a distributed server network for its members to utilize five FlexRadios located across the Hampton Roads area and North Carolina.
2:00 PM to 4:00 PM	Room 1	Antenna Forum
		Moderator: Tim Duffy, K3LR
		Speakers: Dr. Nathaniel Frissell, W2NAF; Guy Olinger, K2AV; Greg Ord, W8WWV
		Presentations will include 1) Dr. Nathaniel Frissell, W2NAF; First Results of the 2023-24 HamSCI Festivals of Eclipse Ionospheric Science; 2) Guy Olinger, K2AV; 160 Meters RF Loss, 5/16 Wave Single Wire Folded Counterpoise and Some Antennas; 3) Greg Ord, W8WWV; AUTOEZ: A Revolution in the Evolution of Antenna Modeling
2:00 PM to 2:50 PM	Room 3	Ground is a Myth!
		Moderator: Kristen McIntyre, K6WX, ARRL First Vice President
		Ground is something you stand on, but in an electrical sense, the meaning is much less clear. When it comes to hams and ground, things get really confused. We drive rods into the earth, but why? Let's take a look at whether any of this makes sense, and what theory tells us about "ground," and if it exists in any sensible way at all. We'll talk about DC grounds, RF grounds, and even about gravity. This forum is part of the 2024 ARRL National Convention track.
2:05 PM to 3:30 PM	Room 4	Women Building Community Through Amateur Radio
		Moderator: Anne Manna, WB1ARU
		Young Ladies Radio League is pleased to present a forum for all women interested in ham radio, whether licensed or not. The format will include presentations showcasing the connections that women are making through many varied amateur radio activities. There will also be time for meeting and networking with other YLs.
2:40 PM to 3:45 PM	Room 2	New Adventures using TCP/IP on 44Net (AMPRnet) and an ARDC Update
		Moderator: John Hays, K7VE, ARDC Outreach Manager
		Speaker: Jon Kemper, KA6NVY ARDC Technical Director
		ARDC has been very busy improving 44Net and will present new techniques for accessing and using the 44Net addresses for Amateur Radio projects needing TCP/IP connectivity. ARDC will also give a short update and review on its activities and grant making program. The forum will conclude with the opportunity for participants to share their projects done in conjunction with ARDC and to interact with ARDC leadership.
3:00 PM to 3:50 PM	Room 3	Gaming the Amateur Radio Modes
		Moderator: David A. Minster, NA2AA, ARRL CEO
		Delve into the world of radiosport gaming! Whether you're a seasoned operator or just starting out, enjoy these tips and tricks covering station design, operating, instruction, and mastering the art of amateur radio modes including FT8. Push the boundaries of radiosport gaming, and level up! <i>This forum is part of the 2024 ARRL National Convention track.</i>
3:40 PM to 5:00 PM	Room 4	Foxhunting/ Transmitter Hunting
		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.
4:00 PM to 5:00 PM	Room 1	The Law and Amateur Radio
		Speakers: Bob Famiglio, Esq., K3RF, ARRL Atlantic Director, Fred Hopengarten, Esq., K1VR, Past ARRL New England Director
		Bob Famiglio, Esq., K3RF, ARRL Atlantic Director, "What the ARRL Legal Defense Fund Can Do for You"
		Fred Hopengarten, Esq., K1VR, Past ARRL New England Director, "Amateur Radio is Not a Personal Wireless Service"
		The panel will present an update and Q&A for the pending ARRL HOA Bill.
4:00 PM to 5:00 PM	Room 3	Five Steps to a Successful POTA Activation
		Moderator: Michael Martens, KB9VBR, @KB9VBRAntennas on YouTube
		Parks on the Air® draws thousands of hams to the great outdoors for portable operating fun! Activating a park takes a bit of planning: from park selection, equipment, setup, logging, and reporting. Michael will share tips and tricks he uses along the way for smooth activations. This forum is part of the 2024 ARRL National Convention track.
3:55 PM to 5:00 PM	Room 2	HamSCI: The Ham Radio Science Citizen Investigation
		Moderator: Nathan Frissell, W2NAF
		HamSCI is an international project to bring together the amateur radio and professional space science communities to advance both science and ham radio. This forum will highlight just a few of the activities HamSCI has been conducting over the past year, with talks on the recent Solar Eclipse experiments, the HamSCI Personal Space Weather Station, and collaborations with the ARDC-funded National Radio Astronomy Observatory Ham Radio Project.
		Presentations will include 1) HamSCI: Bringing the Amateur Radio and Professional Scientific Communities Together – Nathaniel A. Frissell, W2NAF
		2) Results from the 2023/2024 Festivals of Eclipse Ionospheric Science and Solar Eclipse QSO Parties – Gary Mikitin, AF8A
		3) Solar Eclipse Observations Using the HamSCI Grape Personal Space Weather Station Network – Rachel Boedicker, AC8XY
		4) WSPRDaemon, KA9Q-Radio, and the HamSCI Personal Space Weather Station - Rob Robinett, AI6VN
		5) The NRAO Exploring the EMS/Ham Radio Project: Progress and the Way Ahead – Jesse Alexander, WB2IFS