

Friday, May 20, 2022

Time	Room	Forum
9:15 – 10:35	Room 1	<p>TAPR</p> <p>Moderator: Scott Cowling, WA2DFI</p> <p>Speakers: Scott Cowling, WA2DFI; Stanley Horzepa, WA1LOU; John Ackermann, N8UR; John Hays, K7VE and Jonathan Rizzo, KC3EEY</p> <p>During this forum, Tucson Amateur Packet Radio (TAPR) President Scott Cowling, WA2DFI will give an activities update, and TAPR Secretary and Packet Status Register (PSR) Editor Stanely Horzepa, WA1LOU, will tlak about writing for TAPR's newsletter, PSR. Additionally, John Ackerman, N8UR, will present on the "SynthDO GPS Disciplined Oscillator Project."</p> <p>John Hays, K7VE, will discuss Amateur Radio Digital Communications (ARDC) grants, and Jonathan Rizzo, KC3EEY, will present, "The Whistler Catcher, a VLF Module for the TangerineSDR."</p>
9:15 – 10:15	Room 2	<p>HF Remote Operating Techniques</p> <p>Moderator: Michael Walker, VA3MW</p> <p>HF remote operating has become a mainstream part of ham radio operations. This session will discuss how to get started, ideas for operating, and how to be successful.</p>
9:15 – 10:20	Room 3	<p>ARRL Field Day-Ready – Ready, Set, Go!</p> <p>Moderator: Bart Jahnke W9JJ</p> <p>Speakers: Bart Jahnke, W9JJ; Bob Naumann, W5OV, and Scott Roberts, KK4ECR</p> <p>During this session, you'll have a chance to learn about field day rules, including what's new this year, from ARRL Radiosport and Regulatory Information Manager Bart Jahnke, W9JJ; hear operating tips from ARRL Director of Operations Bob Naumann, W5OV, and let ARRL Public Relations Committee Member Scott Roberts, KK4ECR, teach you how to "get a boost" by promoting your Field Day activation.</p> <p>ARRL Field Day, ham radio's most popular on-the-air event, is June 25 – 26, 2022. Field Day is fun whether you're participating from the great outdoors with your radio club, or from your home or backyard. It's also a terrific opportunity to practice your personal radio communications readiness and to demonstrate amateur radio to the public. Hear from a panel of Field Day experts who will cover the educational, operating, and public relations objectives of a successful and fun Field Day.</p>
9:15 – 10:15	Room 4	<p>Using and Collecting Collins Radios</p> <p>Moderator and Speaker: Dan Knepper, W3ST</p> <p>Continue the legacy of preserving Collins amateur radio equipment for tomorrow's ham. Founder of the Collins Radio Association Dan Knepper, W3ST, will talk about the critical elements of purchasing, repairing, and maintaining Collins radios for decades to come.</p>
10:25 – 11:25	Room 2	<p>DMR Technology and Infrastructure</p> <p>Moderator: John Burningham, W2XAB</p> <p>Learn about DMR technology and the infrastructure that supports the networks, including repeaters, hotspots, Voice over Internet Protocol (VoIP), and user radios.</p>

10:30 – 11:45	Room 3	Digital Contesting
		Moderator: Ed Muns, WØYK
		Speakers: Jeff Blaine, ACØC, and Ed Muns, WØYK
		Jeff Blaine, ACØC, and Ed Muns, WØYK, will discuss what to do when geography is working against you during RTTY contesting, and what's considered a complete and valid FT8 contact.
10:30 – 11:30	Room 4	Instructor's Forum
		Moderator: Carole Perry, WB2MGP
		Speaker: Bob Inderbitzen, NQ1R
		Carole Perry, WB2MGP, will discuss the free resources and networking opportunities available to recruit, retain, and showcase youth in ham radio through her RCA Youth Activities program. Bob Inderbitzen, NQ1R, will share information about current ARRL resources available to support instructors working with youth and beginners. This will be a great opportunity for sharing motivations and experiences.
10:45 – 11:50	Room 1	ARISS 2.0: A Next Generation Vision for Amateur Radio on the International Space Station
		Moderator: Frank Bauer, KA3HDO
		Speakers: Frank Bauer, KA3HDO; Randy Berger, WAØD; Rosalie White, K1STO, and Diane Warner, KE8HLD
		This year, ARISS celebrates 25 years as an international team. Our new vision, ARISS 2.0, will expand ARISS youth education outcomes, ham-in space operations, flight hardware systems, and even our space platform (in addition to ISS, think commercial space stations and lunar operations). Learn what ARISS is doing to support ham radio operations on human spaceflight vehicles – now and over the next 25 years. Expect some surprise guests and new announcements.
11:35 – 1:00	Room 2	D-STAR
		Moderator: Robin Cutshaw, AA4RC
11:45 – 12:50	Room 4	Kit Building
		Moderator: Joe Eisenberg, KØNEB
		Learn beginner and experienced tips and tricks for building kits with emphasis on techniques that increase your chances of success. Tools, including soldering and desoldering aids, will be discussed, as well as information about where these things can be found online and at Hamvention. Suggestions for group kit building supplies will also be covered.
11:55 – 1:05	Room 3	Amateur Radio High Altitude Balloons (ARHAB) Forum
		Moderator: Bill Brown, WB8ELK
		Speakers: Bill Brown, WB8ELK; Tom Medlin, W5KUB, and Jack McElroy, KM4ZIA
		This forum will talk about amateur radio payloads carried aloft to the edge of space via weather balloons. Long duration pico balloons with solar-powered payloads that can circumnavigate the world will also be discussed.

12:00 – 1:50	Room 1	AUXCOMM: Future Advances in EmComm
		Moderator: John Peterson, N4KEA
		Speakers: John Peterson, N4KEA, and Dan Wills, K7RUF
		Since 2009, the Federal Government's Cybersecurity and Infrastructure Security Agency's (CISA) Emergency Communications Division (ECD) has led the charge in standardizing volunteer emergency communications support for the public safety community around the United States. This includes the creation of a nationally standardized training course, called AUXCOMM; an electronic Field Operations Guide (FOG), and a comprehensive nationally accepted Position Task Book (PTB) and more. Join us and learn what advances are planned for the future.
1:00 – 2:15	Room 4	Techniques of Best Operators
		Moderator: Mitch Stern, W1SJ
		There are many ways to communicate with ham radio – phone, CW, and scores of digital modes. Each requires the proper setup and technique for success.
		I hear many stations on the air with distorted voices, poor Morse Code, weird noises in place of digital tones, and poor techniques, such as not using phonetics, not tuning properly, and not having properly configured computers. This often results in not making a contact.
		This forum will discuss techniques for public service operating; digital modes; DXing, including pileups, antennas, and station setup; propagation; how to build skills with contesting, and how to train new operators.
		You'll also hear on-the-air stories, equipment ideas, and suggestions.
1:10-2:30	Room 2	National Weather Service
		Moderator: Brandon Peloquin
		NOAA's Weather – Ready Nation initiative is about building community resilience in the face of increasing vulnerability to extreme weather and water events. To achieve this, the National Weather Service (NWS) strives to develop and strengthen partnerships with those who contribute to this initiative. This presentation will describe the partnership between Amateur Radio operators, and the NWS and how they work together to help communities be better prepared for severe weather.
1:15-2:25	Room 3	ARRL Amateur Radio Emergency Service (ARES)
		Moderator: Josh Johnston, KE5MHV, ARRL Director of Emergency Management
		The Amateur Radio Emergency Service® (ARES®) consists of licensed amateurs who have volunteered their qualifications and equipment with their local ARES leadership, for communications duty when disaster strikes. Come learn about opportunities to volunteer and train and hear stories about best practices, the importance of building mutually beneficial relationships with local emergency management services, and the importance of our partnerships with served agencies. Sponsored by ARRL The National Association for Amateur Radio®.

2:00-5:00	Room 1	Antenna Forum
		Moderator: Tim Duffy, K3LR
		Speakers: Tim Jellison, W3YQ; Ted Rappaport, N9NB; Frank Donovan, W3LPL, and Randy Hall, K7AGE
		<p>Tim Duffy, K3LR, has been the Antenna Forum moderator for 39 years. He's active on the HF bands and enjoys hosting multi-operator teams. Tim is also the CEO of DX Engineering.</p> <p>Tim Jellison, W3YQ, is a trained and certified tower climber and a certified tower rescue professional with 40 years of tower and antenna experience. He'll share his work on tower and antenna installation, maintenance, and safety.</p> <p>Ted Rappaport, N9NB, professor and director of a wireless research center at NYU, will talk about ways that you can improve the performance of vertical antennas.</p> <p>Frank Donovan, W3LPL, is an electrical engineer and has built one of the largest amateur radio stations in the world. He has over 50 years of experience designing and building antennas. He'll talk about high-performance 6-meter Yagi antenna systems.</p> <p>Randy Hall, K7AGE, is in the midst of a completely new station build at his home in Oregon. He'll teach construction and design techniques that will help at your own station.</p>
2:30-3:45	Room 4	YL Reunion
		Moderator: Anne Manna, WB1ARU
		Speaker: Katherine Campbell, KE8LQR
		The Young Ladies' Radio League is sponsoring a "YL Reunion" for all women, licensed or not. Every woman ham is a "young lady" (YL), no matter what her age. Katherine Campbell, KE8LQR, will share the success of YLs and school clubs. You'll also learn what YLs are doing in the hobby, reports on new nets and awards, and ways to join the fun. Come prepared with questions to find out more about women in amateur radio, and hear from young ladies of all ages. There will be prizes too! Male operators are also welcome and are appreciated for their support.
2:35-3:45	Room 3	ARRL Youth Outreach
		Moderator: Steve Goodgame, K5ATA, ARRL Education and Learning Manager
		<p>Most recently, Steve Goodgame, K5ATA, helped 60 middle and high school students earn their ham radio licenses, and several have upgraded. Now, Steve leads ARRL's Education and Learning programs. Join us in exploring ways to engage students with ham radio through technology, learning how radios work, and how to build things, communicating with astronauts through satellites, and competing in contests and winning awards, developing skills, career networking, and making new friends. This forum is for club representatives, teachers, young hams, and anyone who wants to grow amateur radio. Sponsored by ARRL The National Association for Amateur Radio® and contributors to the ARRL Education and Technology Fund.</p>
2:40-3:45	Room 2	Amateur Radio & the Law
		Moderator: Fred Hopengarten, Esq., K1VR
		Speakers: David Siddall, Esq., K3ZJ; John Robert Stratton, Esq., N5AUS; Barney Scholl, Esq., K3LA, and Fred Hopengarten, Esq., K1VR
		In this session, David Siddall, Esq., K3ZJ, will share how to effectively file FCC comments; John Robert Stratton, Esq., N5AUS, will talk about ARRL and Capital Hill; Barney Scholl, Esq., K3LA, will discuss estate planning for radio amateurs, and Fred Hopengarten, Esq., K1VR, will share news about antenna zoning.

3:55-5:00	Room 2	System Fusion Forum
		Moderator: Mark Thompson, WB9QZB
		Speaker: John Kruk, N9UPC
		<p>The System Fusion Forum will include a presentation and discussion about Yaesu's System Fusion voice & data technology that's designed exclusively for amateur radio.</p> <p>The forum will review updates to Yaesu's System Fusion technology, including 2-meter and 70-centimeter analog FM/C4FM digital voice repeaters and mobile radios, WIRES-X (Wide-coverage Internet Repeater Enhancement System), and IMRS (Internet-linked Multi-site Repeater System) Voice over Internet Protocol (VoIP) communications linking systems.</p> <p>Everyone using, or interested in using System Fusion is encouraged to attend, participate, and share their experiences with the technology.</p>
3:55-5:00	Room 3	Software-Defined Radio
		Moderator: Stephan Hicks
		Multiple speakers will discuss current SDR advances and projects with all speakers forming a panel at the end to answer your questions on software defined radios and technology.
3:55-5:00	Room 4	Summits on the Air: Tips to Elevate Your SOTA Experience
		Moderator: Keith Schlottman, KR7RK
		<p>The Summits on the Air (SOTA) program is booming, and it provides amateur radio operators with an exciting way to enjoy the hobby. Electronics miniaturization and advances in battery technology allow us to carry a full HF station in a small backpack and contact the world. GPS systems and tracking tools allow operators to push the boundaries of their operating positions in a safer, more efficient manner. There are many opportunities to be involved with SOTA on a daily basis. This session will explore tips from both the field and the shack to help you get the most out of your SOTA experience. Whether you're new to SOTA or are a seasoned activator or chaser, join us for a fun and interactive talk packed with ideas to consider on your next SOTA adventure.</p>