

## Saturday, May 21, 2022

Time	Room	Forum
9:15 – 10:15	Room 1	<b>Black Sky Events – What Happens When Everything Goes Dark</b>
		Moderator: Bill Feist, WB8BZH, Southern Territory SATERN Coordinator
		The possibility of a black sky event – a large-scale, wide-spread disruption of power and communications – becomes increasingly real as we progress further into the 21st century and modern civilization becomes more dependent on technology. This forum will address exactly what a black sky event is; the impacts of a catastrophic black sky event, and what would classify as such; what could cause one; if any have happened before and how, why, and what the impacts were; what the role of the government, the private sector, amateur radio, and ourselves as individuals in such an event, and how we should be prepared.
9:15 – 12:00	Room 2	<b>2022 Youth Forum</b>
		Moderator: Carole Perry, WB2MGP
		Speakers: Cody Quarles, KØDIE; Blake Pearson, KN4VKY; Ryan Pearson, KN4VKW; Jack McElroy, KM4ZIA; Audrey McElroy, KM4BUN; Benedict Wagner, AD8FQ, and Agnes Wagner, KE8LWP
		Seven talented young hams will be give presentations about ham radio adventures during the COVID-19 lockdown, a new ham experiments with APRS, sibling rivalry in ham radio, and balloon launches via amateur radio. There will be a surprise guest speaker and many fabulous door prizes for those of all ages the audience. The main door prize will be an HF transceiver, generously donated by Icom.
9:15 – 10:40	Room 3	<b>Transmitter Hunting (Foxhunting)</b>
		Moderator: Dick Arnett, WB4SUV
		Speakers: Bob Frey, WA6EZV, and Brian DeYoung, K4BRI
		Designed for both the first-time and and seasoned fox-hunters, this year’s presentation will discuss what it takes to get started with mobile and on-foot hunts, as well as high-end tech gear, including Dopplers of the past, present, and future. Equipment for setting up and competing in on-foot ARDF-type hunts will also be presented. A 2-meter foxhunt with approximately 30 transmitters will also be held after Hamvention on Saturday, May 21, at James Ranch Park (directly across from the fairgrounds).
9:15 – 10:30	Room 4	<b>Legacy Kenwood</b>
		Moderator: Mark Gilger, WBØIQK
		Speakers: Jan Servaites, N8CBX; Terry Wagoner, K9TW, and Peter Shilton, VE7PS
		This forum will discuss user interests and needs for Kenwood's legacy equipment, specifically the hybrid models (TS-500s through TS-830s).

<b>10:25 – 11:25</b>	<b>Room 1</b>	<b>How the Innovations for COVID-19 Treatments Have Impacted Ham Radio</b>
		Moderator: Scott Wright, MD, KØMD
		Speakers: Scott Wright, MD, KØMD, and Peter Marks, MD, PhD, AB3XC
		Two US ham operators were critically involved in the treatment strategies developed for COVID-19. Dr. Peter Marks, AB3XC, is head of the Center for Biologics Evaluation and Research (CBER) at the Food and Drug Administration (FDA), and is the architect behind Operation Warp Speed, which developed the vaccines and new therapeutics and drugs for COVID-19. Dr. Scott Wright, KØMD, was a national leader in the US convalescent plasma study, establishing an early treatment for COVID-19. Both will describe how their backgrounds in ham radio contributed to the creativity of approaches utilized in the pandemic and the role that ham radio social media played in aiding disease management and mitigation. They'll also take questions from the audience on the current status of the pandemic, as well as the short and intermediate term outlooks.
<b>10:40 – 11:50</b>	<b>Room 4</b>	<b>Fast Scan ATV</b>
		Moderator: Art Towslee, WA8RMC
		Speakers: Mel Whitten, KØPFX; Gordon West, WB6NOA, and Mike Collis, WA6SVT
		First, Gordon will wake up the audience with his ham radio humor. Then the speakers will describe what Amateur Television (ATV) was in the past, and how it has evolved into the digital world.
<b>10:50 – 11:50</b>	<b>Room 3</b>	<b>The Importance of Articulate Audio and How to Get It</b>
		Moderator: Bob Heil, K9EID
		It's so important to have articulate audio. This forum will explain how to achieve this, as well as provide several live demonstrations before and after adjustments. It will also cover the Bell Labs studies of the human hearing system and what frequencies are most important to keep your signal on top of the pileups.
<b>11:35 – 1:55</b>	<b>Room 1</b>	<b>DX Forum, sponsored by SouthWest Ohio DX Association</b>
		Moderator: Jay Slough, K4ZLE
		Speakers: Jeff Dorsey, TZ4AM; Gregg Marco, W6IZT; Steve Romagni, W4DTA, and Bob Naumann, W5OV
		During this forum, Jeff will discuss operating from Mali, Greg will provide an update on the Rig in a Box, Steve will talk about Venezuela IOTA, and Bob will provide ARRL's status of DXCC topics. There will also be a drawing for an HF radio, with proceeds going toward helping to fund DXpeditions.

<b>12:00 – 1:20</b>	<b>Room 3</b>	<b>Good Operators and the ARRL Volunteer Monitor Program</b>
		Moderator: Riley Hollingsworth, K4ZDH, ARRL Volunteer Monitor Program Administrator
		Amateur radio has a long history of enforcing rules and regulations and helping each operator stay within the lines. Hear from Riley Hollingsworth, K4ZDH, about his development of the ARRL Volunteer Monitor Program, using guidelines provided by the FCC and his years of experience working in the FCC Enforcement Bureau. Riley will cover why it's important to help each other maintain high standards on the air, the issuance of "good operator" notices to recognize exemplary behavior, how to deter poor operating practices, and what triggers a "VM Advisory" and "Going Far Afield." Sponsored by ARRL The National Association for Amateur Radio®.
<b>12:00 – 1:30</b>	<b>Room 4</b>	<b>VHF, UHF, and Microwave Operations</b>
		Moderator: Tony Emanuele, K8ZR
		Speakers: Joel Harrison, W5ZN; Andrea Slack, K2EZ, and Jason Baack, N1AV
		In this forum, speakers will discuss operating 222MHz for the Worked All States (WAS) Award, VHF roving, what happens when you combine amateur radio with a scavenger hunt and college road rally, and the preparations for Jason's 1296 and 902MHz EME DXpedition from KH6.
<b>12:10 – 1:40</b>	<b>Room 2</b>	<b>AMSAT Forum</b>
		Moderator: Robert Bankston, KE4AL
		Speakers: Robert Bankston, KE4AL; Jerry Buxton, NØJY; Alan Johnston, KU2Y, and Frank Karnauskas, N1
		The AMSAT Forum will highlight the organizations recent activities and discuss some of its challenges, accomplishments, and current and upcoming missions. Speakers will cover engineering, education, operations, and development.
<b>1:30 – 2:30</b>	<b>Room 3</b>	<b>ARRL Membership Forum</b>
		Moderator: Dale Williams, WA8EFK, ARRL Great Lakes Division Director
		Speakers: Rick Roderick, K5UR, ARRL President, and David Minster, NA2AA, ARRL CEO
		The ARRL is the national association for amateur radio® in the United States. For many of us, being an ARRL member is about participating in the hobby of a lifetime. We're developing and exploring the ever-growing field of ham radio interests and activities, and we're sharing our passion for ham radio with others. ARRL is also amateur radio's representative voice in regulatory and legislative matters – protecting it as a national and international resource. Member-volunteers are serving their communities and training as emergency communicators through ARRL's Amateur Radio Emergency Service® (ARES). At this session, you'll hear from ARRL representatives on several key areas of membership interest. Find out how ARRL supports dozens of ways to get involved and get radio active. Members and prospective members are all welcome!

<b>1:40 – 2:40</b>	<b>Room 4</b>	<b>Quarter Century Wireless Association (QCWA) Annual Members' Meeting &amp; Forum</b>
		Moderators: Ken Oelke, VE6AFO, QCWA President
		QCWA celebrates amateur radio operators achieving 25 years in the hobby and develops resources to assist young amateur radio operators in furthering their education through the QCWA Scholarship Program. Plan to attend this exciting forum to learn about QCWA youth activities, as well as its support for the Young Ham Lends a Hand program among others. This year, the Annual Members' Meeting will be held in conjunction with the forum. Learn of the associations past achievements, as well as financials and other business. Plan to participate in a lively question and answer session.
<b>1:50 – 3:20</b>	<b>Room 2</b>	<b>The Fast Track to Understanding Ham Radio Propagation</b>
		Moderator: Michael Burnette, AF7KB
		Michael is the author and narrator of the Fast Track series of ham license courses, as well as supporting workbooks and other material, including The Fast Track to Understanding Ham Radio Propagation, which covers propagation from the ground up – literally! This lively, fast-paced presentation is a plain-language guide to really understanding ionospheric propagation.
<b>2:05 – 3:50</b>	<b>Room 1</b>	<b>Contesting</b>
		Moderator: Doug Grant, K1DG
		Speakers: Ray Higgins, W2RE; Rockwell Schrock, WW1X; Ed Muns, WØYK; Tim Coker, N6WIN, and Carlo De Mari, IK1HJS
		In this forum, speakers will discuss how to take remote contesting to the next level, how to build a contest station in Arizona, what can happen when checking digital contest logs, as well as provide an update regarding World Radiosport Team Championship (WRTC) 2022/2023.
<b>2:45 – 3:50</b>	<b>Room 3</b>	<b>Parks on the Air</b>
		Moderator: Matt Heere, N3NWV
		This forum is all about Parks on the Air (POTA), including where it came from, how it works, and how you can get involved.
<b>2:50 – 3:50</b>	<b>Room 4</b>	<b>HamSCI: Ham Radio Science Citizen Investigation</b>
		Moderator: Nathan Frissell, W2NAF
		Speakers: Veronica Romanek, KD2UHN; Scotty Cowling, WA2DFI; Diego Sanchez, KD2RLM, and Bill Engelke, AB4EJ
		The Ham Radio Science Citizen Investigation (HamSCI) is a group that connects the radio amateur community with the professional research community. Veronica Romanek, KD2UHN, will present on traveling ionospheric disturbance (TID) observations using the Grape Low-Cost Personal Space Weather Station. Scotty Cowling, WA2DFI, will give an update on the status of the TangerineSDR project. Diego Sanchez, KD2RLM, and Bill Engelke, AB4EJ, will present a climatology of TIDs and machine learning techniques for automatic detection of TIDs, using observations from Reverse Beacon Network, WSPRnet, and PSKReporter data.

<b>3:30 – 5:00</b>	<b>Room 2</b>	<b>Digital Modes</b>
		Moderator: Mel Whitten, KØPFX
		Speakers: Phil Karn, KA9Q; Bruce Perens, K6BP, and Mooneer Salem, K6AQ
		<p>Phil will describe his multichannel multicast software-defined radio (SDR). He'll show it running in real-time on a Raspberry Pi 4 with an Airspy R2 (20 MS/s real time), demodulating every FM channel on a VHF or UHF band. See how Phil, Bruce and Mooneer have recorded all the activity in the 2-meter, 70-centimeter, and 125-centimeter bands, collecting over 1.1 TB of data in the past year.</p> <p>For those of you who've wondered how you can use digital voice on HF, Mooneer will introduce FreeDV, an open-source HF mode, and describe the latest developments and how it's used on the air.</p> <p>If you haven't tried operating remote yet because of the cost or complexity, Bruce will describe his \$14 remote radio controller and how to add one to your station, so you too can take advantage of remote radio operations.</p>
<b>4:00 – 5:00</b>	<b>Room 1</b>	<b>Having Fun with Morse Code</b>
		Moderator: Dan Romanchik, KB6NU
		CW is the quintessential amateur radio mode. It's historic, folkloric, and can be a lot of fun. In this session, Dan will explore some of the reasons why CW is still such a popular mode, as well as how to learn Morse code, select a key, make contacts, and have fun.
<b>4:00 – 5:00</b>	<b>Room 3</b>	<b>ARRL Collegiate Amateur Radio</b>
		Moderator: Tony Milluzzi, KD8RTT, Advisor, ARRL Collegiate Amateur Radio Initiative
		Speakers: Tony Milluzzi, KD8RTT, Advisor, ARRL Collegiate Amateur Radio Initiative; Andy Milluzzi, KK4LWR, Advisor, ARRL Collegiate Amateur Radio Initiative, and Bob Inderbitzen, NQ1R, Staff Liaison, ARRL Collegiate Amateur Radio Initiative
		Since the ARRL Collegiate Amateur Radio Initiative (CARI) was established in 2017, the community of participating students and ham radio clubs at colleges and universities has grown. CARI holds monthly Zoom meetups and makes connections through the CARI 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. Hear from students, alumni, and faculty. As a Dayton tradition, we often gather on Saturday evening for pizza. CARI is sponsored in part by the W1YSM Snyder Family Collegiate Amateur Radio Endowment.
<b>4:00 – 5:00</b>	<b>Room 4</b>	<b>The New Technician Class Q-&amp;-As for instructors!</b>
		Moderator: Gordon West, WB6NOA
		Join Gordon West, WB6NOA, to learn about the new questions in the Technician-class question pool. Gordon has some great teaching techniques for the new questions to add to your classroom, or Zoom, instruction techniques.