

Saturday 21st			
Time	Room	Forum	
9:15-10:15	Room 1	Forum Drake Equipment Moderator: Mark Gilger	2016 Drake Forum-- Agenda
			9:15 - 9:25 Introduction WB0IQK
			Introduction & Welcome to 2016 Drake Forum 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
			Note: Shorter presentations will enable longer Q&A time.
			WB0IQK Moderator, Presentation + Q&A Session
			WB4HFN Presentation + Q&A Session
			K9SQG Presentation & Q&A Session
			WA8SAJ Q&A Session
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 HamVention. There will be lots of prizes for the speakers, the kids in the audience, and the supportive adults in attendance. You must be present to win! And The Speakers Are
			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”
			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 Moderator: Bill Feist WB8BZH	
			SATERN: 'The Times They Are A-Changin'
			Speakers:
			Lt. Col. Ron Busroe, National CRD Secretary and National Disaster Liaison
			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 Moderator: Bob Inderbitzen	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 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.

10:30-12:15	Room 1	Hamnation	
		Moderator: Bob Heil	Bob Heil, Gordon West, George Thomas, Dale Puckett and Valerie Hotzfeld 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
		50 Years of Heil Sound !	
		Moderator: Bob Heil	
			Bob Heil will present a 40 minute presentation on the history of Heil Sound. From Bob's humble beginning as 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	1. Contest vs. DXpedition Operating, Craig Thompson, K9CT
		Moderator: Ed Muns	2. Remote Contesting, Mark Aaker, K6UFO
			3. Top Ten Tips, Ed Muns WOYK
			The Forum covers various topics of interest in RTTY Contesting.
11:15-1:30	Room 5	AMSAT	"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.
		Moderator: Mark Hammond, N8MH	
			"AMSAT-NA Fox Satellite Program." Jerry Buxton, NOJY, 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 ² 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).
12:00-1:00	Room 3	QCWA	Quarter Century Wireless Association, Inc. (QCWA)
		Moderator: Ken Oelke	Moderator: Ken Oelke, VE6AFO - President
			Speakers: Carole Perry, WB2MGP, Director & Chair, QCWA Youth Activities Program. The Quarter Century Wireless Association is where the <i>past meets the present, to lead into the future</i> of Amateur Radio. This year Carole Perry will be speaking on the QCWA Youth Activities program and how the QCWA Scholarship Program assists young Amateur Radio operators with their education. Carole will have a young Amateur Radio operator speaking on the importance of scholarships offered by QCWA. As well, meet the QCWA Board of Directors and bring your thoughts to the Board.
12:15-2:00	Room 2	Fast Scan ATV	Presentation list for the Dayton Hamvention ATV Forum on Saturday in room 2.
		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.
			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.
			Dinner Directions:
			From Hara take Wolf Rd. south to Turner Rd. Turn left (East) on Turner. Go past St Rte 48 which then turns into Shoup Mill Rd. then into Needmore Rd. Cross I-75 then Brandt Pike which turns into Old Harshman Ave. Cross Rte. 4 then road turns into Harshman Ave. Go past airport on left then cross Airway Rd. Turn left at first intersection past Airway and into Airway shopping center. China Garden Buffet is on the left next to Firestone store. Total distance is about 13 miles.

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	2016 Kenwood Forum-- Agenda 1:15 - 1:20 Introduction Introduction & Welcome to 2016 Kenwood Forum WB0IQK 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 / WB0IQK 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 WB0IQK 2:00 - 2:05 Hybrid restoration techniques WB0IQK 2:05 - 2:15 Questions and Answers WA8SAJ & N8CBX, W0NTA & WB0IQK Note: Shorter presentations will enable longer Q&A time. WB0IQK Moderator, Presentation + Q&A Session N8CBX Presentation + Q&A Session K9SQG Presentation & Q&A Session W0NTA Presentation & Q&A Session WA8SAJ Q&A Session
1:45-3:00	Room 5	ARRL Forum Moderator: Dale Williams	ARRL Member Forum 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 <i>QST</i> , 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 Moderator: George Zafiropoulos	Portable HF Antenna Design - 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.
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, K15WL 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). <i>A free FCC-engraved souvenir will be provided to attendees.</i>
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 Chris Testa is the core developer of Algoram Katena, a 50-1000 MHz software-defined transceiver that's an open platform for digital modem and protocol development. This is Chris's progress report for 2015-2016. Chris originated the Whitebox project which has become Algoram Katena.
			Codec2 and FreeDV - New Developments - Bruce Perens K6BP and Mel Whitten, KOPFX There's been a lot of new development for Codec2 and FreeDV. A new stand-alone radio design, new codec modes, new modems for both HF and VHF/UHF. We present reports from the developers.