

Saturday 20th		
Time	Room	Forum
9:15-10:15	Room 1	Drake Equipment
		Moderator: Mark Gilger WB0IQK
		Presenter: Ron Baker – WB4HFN Presenter: Jeff Covelli – WA8SAJ Presenter: Evan Rolek – K9SQG
		AGENDA:  - User Survey - Mark Gilger - WB0IQK - Back to Basic Trouble Shooting - Ron Baker, WB4HFN & Mark Gilger, WB0IQK - Common & Easy Fixes For the Drake 4&7 Line Radios - Ron Baker, WB4HFN - Question & Answer Session - Jeff Covelli, WA8SAJ, Ron Baker, WB4HFN & Evan Rolek, K9SQG
9:15- 12:00	Room 2	Youth Forum
		Moderator: Carole Perry WB2MGP
		Come join the fun and experience the pride by attending our 30th Hamvention Youth Forum. 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 the audience. You must be present to win! Come and show your support for our talented young hams!
		Lucas Schroeder W6LDS age 15 "The SharkRF openSPOT" Carissa Ferguson KJ4EZA age 17 "Robotics and Ham Radio" Dakota Krzysik KE8CVK age 17 "Lowell High School Youth Amateur Radio Club Through the Years!" Grace Lea KM4TXT age 9 "Solar Power Mania" Jerome Dinakar KE0BBQ age 16 "Tribute to Ellie Van Winkle" Evan Markowitz KD2IZW age 18 "Balloon Based Repeater for Emergency Applications" Ruth Willet KM4LAO age 18 "Plugging into Your Valuable Club Resources" Chris Brault KD8YVJ age 14 "Getting Started with SDR" Dhruv Rebba KC9ZJX age 13 "Community Services with Ham Radio Communications"
9:15-10:15	Room 3	SATERN
		Moderator: Bill Feist WB8BZH
		SATERN In The 21st Century: The National SATERN Committee will discuss the new Strategic Plan for SATERN approved by The Salvation Army in 2016. This will include a discussion of the goals SATERN is setting for itself over the next several years and the results of the SWOT (Strengths, Weaknesses, Opportunities, Threats) Analysis upon which those goals are based.
9:15-10:30	Room 4	HamSCI, the Ham Radio Science Citizen Investigation
		Moderator: Ward Silver NOAX

		<p>A group of panelists will share information about professional research programs supported by radio amateurs. This forum is sponsored by ARRL, the national association for Amateur Radio®. Program:</p> <ol style="list-style-type: none"> <li>1. "What is HamSCI?" Nathaniel Frissell, W2NAF</li> <li>2. "Introduction to Space Weather and Radio Propagation" by Carl Luetzelschwab, K9LA</li> <li>3. "Upper Level Lows and Six Meter 50 Mhz Sporadic E" Joe Dzekevich, K1YOW, presented by Phil Erickson, W1PJE</li> <li>4. "Ionospheric Impacts of the 2017 Total Solar Eclipse" Magda Moses, KM4EGE</li> <li>5. "VLF/LF and the 2017 Total Solar Eclipse" Bill Liles, NQ6Z</li> <li>6. "The Solar Eclipse QSO Party: Ionospheric Sounding Using Ham Radio QSOs" Nathaniel Frissell, W2NAF</li> </ol>
10:30-11:30	Room 1	<p>Hamnation</p> <p>Moderator: Bob Heil K9EID</p> <p>The hosts and many of the volunteers will be in attendance in a Town Hall type event. Ham Nation will celebrate the 300th show and the 5th year on Leo Laporte's TWIT network. The audience has grown to tens of thousands each Wednesday night and one of the top five shows on the network. Led by Bob Heil he will be joined by Gordon West, George Thomas, Don Wilbanks, Valerie Hotzfeld and Dale Puckett. Many of the net controls operators and our show notes custodian, Dan Vanevenhoven will be in attendance. The forum will open with the Ham Nation theme song written and performed by Joe Walsh, WB6ACU.</p>
10:30-11:30	Room 3	<p>RTTY Contesting</p> <p>Moderator: Ed Muns W9YK</p> <p>Advantages of SDR in RTTY Contesting, Stu Philips K6TU</p> <ul style="list-style-type: none"> <li>- Station simplification (eliminating CAT, sound card cables, etc.)</li> <li>- Built-in SO2R support</li> <li>- S&amp;P considerations when using a waterfall</li> <li>- SDR performance advantages</li> <li>- Using RTTY Skimmer with SDR I/Q</li> </ul> <p>General Q&amp;A on RTTY Contesting, Dennis Egan W1UE</p> <p style="padding-left: 40px;">Mark Aaker K6UFO</p> <p style="padding-left: 40px;">Hank Garretson W6SX</p> <p style="padding-left: 40px;">Stu Philips K6TU</p>
10:45-12:15	Room 4	<p>AMSAT</p> <p>Moderator: Joseph Spier, K6WAO</p>


		<p>"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.</p> <p>"AMSAT Engineering Program" Jerry Buxton, N0JY, AMSAT-NA Vice President Engineering , will talk about the exciting new engineering developments that the ASCENT Program is working on as well as the latest updates on the Fox-1 project CubeSats.</p> <p>"AMSAT Satellite Operations" Drew Glasbrenner, KO4MA, AMSAT-NA Vice President Operations , will survey the current operational amateur satellites, as well as those planned for launch in the next year.</p> <p>"NxtGen Crystal Radio" Joe Spier, K6WAO, AMSAT-NA Vice President Educational Relations , will discuss the development of the NxtGen Crystal Radio, an educational ground station for classrooms to be used to teach Science, Technology, Engineering, and Math (STEM).</p> <p>"ARISS Report 2017" Frank Bauer, KA3HDO, AMSAT-NA Vice President for Human Spaceflight, will discuss the 20th Anniversary of ARISS, ARISS engineering developments &amp; operation on the International Space Station.</p>
11:45-12:45	Room 1	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 QST, 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!
11:45-12:45	Room 3	Quarter Century Wireless Association
		Moderator: Ken Oelke VE6AFO
		<p>Speakers: Larry McCalvy, WA9JMO - Vice President Carole Perry, WB2MGP - Chair, Youth Activities Committee</p> <p>Our theme "Looking Back to See Ahead"</p> <p>OUR VISION</p> <p>Celebrating Amateur Radio operators achieving 25 years in Amateur Radio and developing resources to assist young Amateur Radio operators in furthering their education through the QCWA Scholarship Program.</p> <p>Plan to attend this exciting forum to learn more about QCWA, learn how QCWA began 70 years ago, and participate in a lively 'Question &amp; Answer" session. This being QCWA's 70th anniversary, we are celebrating with a QCWA 70th Anniversary Charity Cruise leaving on October 18, 2017. Here you can learn more about the cruise. This is your forum, so be prepared to become engaged in QCWA's future!</p>
12:15-1:15	Room 2	Fast Scan ATV
		Moderator: Art Towslee WA8RMC

		<p>The schedule is as follows:</p> <table border="1"> <thead> <tr> <th>Time</th> <th>Presenter</th> <th>Call</th> <th>Topics</th> </tr> </thead> <tbody> <tr> <td>12:15 -12:20</td> <td>Art Towslee</td> <td>WA8RMC</td> <td>Welcome statement and general comments.</td> </tr> <tr> <td>12:20 -12:30</td> <td>Gordon West</td> <td>WB6NOA</td> <td>Lively greeting then focus on MAGAZINES FOR SPREADING THE ATV ACTIVITIES. I will also offer to be the the conduit for CQ Magazine and 6 minute features from our members on HAM NATION .</td> </tr> <tr> <td>12:30 -12:50</td> <td>Mike Collis</td> <td>WA6SVT</td> <td>Introduction to ATV. The "Basics of analog and digital ATV" will be covered. What you can do with ATV and how to get your own ATV station on the air.</td> </tr> <tr> <td>12:50 - 1:10</td> <td>Art Towslee</td> <td>WA8RMC</td> <td>DATV DVB-S encoding and how it may be better than DVB-T.</td> </tr> <tr> <td>1:10 - 1:15</td> <td>Art Towslee</td> <td>WA8RMC</td> <td>Wrap up and questions.</td> </tr> </tbody> </table>	Time	Presenter	Call	Topics	12:15 -12:20	Art Towslee	WA8RMC	Welcome statement and general comments.	12:20 -12:30	Gordon West	WB6NOA	Lively greeting then focus on MAGAZINES FOR SPREADING THE ATV ACTIVITIES. I will also offer to be the the conduit for CQ Magazine and 6 minute features from our members on HAM NATION .	12:30 -12:50	Mike Collis	WA6SVT	Introduction to ATV. The "Basics of analog and digital ATV" will be covered. What you can do with ATV and how to get your own ATV station on the air.	12:50 - 1:10	Art Towslee	WA8RMC	DATV DVB-S encoding and how it may be better than DVB-T.	1:10 - 1:15	Art Towslee	WA8RMC	Wrap up and questions.
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		<p>Mike Collis WA6SVT - Transmitter supervisor for KCBS TV in LA. ATV operation since 1976. Engineer for Amateur Television Network with linked ATV repeater system covering three states. Publisher of Amateur Television Quarterly Magazine.</p> <p>Gordon West WB6NOA - Gordo celebrates 55 years in ham radio , taking part in ATV for the Rose Parade , along with ATV helicopter portable for his City.emergency preparedness comms .</p> <p>Art Towslee WA8RMC - Hamvention ATV Forum moderator for 11 years. Retired electrical engineer. Owns DATV-Express LLC which he and 3 other partners designed and produce the DATV-Express digital DATV transmitter board for sale to Hams. He also authors articles in ATVQ Magazine.</p> <p>ATV Friday Night dinner. The ATV Friday Night Dinner will be at China Garden Buffet restaurant starting at 6:30PM on 112 Woodman Drive in Dayton, Ohio 45431 (Airway Shopping Center). Buffet Dinner \$11.99 (937-781-9999). We have dinner then presentations about various ATV topics with door prizes concluding about 9:30PM. All are invited.</p>																								
12:30-1:30	Room 4	ARRL Collegiate Amateur Radio Initiative																								
		Moderator: Andy Milluzzi KK4LWR																								
		A growing number of campus radio clubs and student radio amateurs have begun to share ideas and suggestions on the ARRL Collegiate Amateur Radio Initiative (CARI) Facebook page, <a href="http://www.facebook.com/groups/ARRLCARI">www.facebook.com/groups/ARRLCARI</a> . They'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. The ARRL Collegiate Amateur Radio Initiative is sponsored in part by the W1YSM Snyder Family Collegiate Amateur Radio Endowment.																								
12:45-2:30	Room 1	Contesting																								
		Moderators: Doug Grant K1DG & Ward Silver NOAX																								
		<p>"WRTC2018 Planning Update" - Christian Janssen, DL1MGB</p> <p>"The New CQWW Contest Directorate" - Doug Zwiebel, KR2Q; Bob Naumann, W5OV; Scott Robbins, W4PA</p> <p>"Single-op Contesting in the 21st Century" - Tom Georgens, W2SC/8P5A</p> <p>"25 Years of Multi Multi Contesting at K3LR" - Tim Duffy, K3LR</p>																								

1:00-2:00	Room 3	Kenwood Equipment
		Moderator: Jan Servaites N8CBX
		<p>Presenter: Mark Gilger – WB0IQK</p> <p>Presenter: Terry Wagoner - K9TW</p> <p>Presenter: Jeff Covelli – WA8SAJ</p> <p>–Help with Parts, Documentation &amp; Service - Mark Gilger, WB0IQK</p> <p>–Hybrid Net Repeat Questions - Mark Gilger, WB0IQK</p> <p>–Parts &amp; Service - Mark Gilger, WB0IQK</p> <p>–Basic Trouble shooting - Mark Gilger, WB0IQK, Terry Wagoner, K9TW</p> <p>–The Early 500 series (TS500/510/511) - Jan Servaites - N8CBX</p> <p>–Questions and Answers - Jeff Covelli, WA8SAJ, Jan Servaites - N8CBX</p>
1:30-2:30	Room 2	MESH
		Moderator: Bill Curtice W8APB, Miami Valley Mesh Alliance (MVMA)
		<p>Hams around the world are now building radio-based high speed digital mesh networks across their cities using microwave technologies and low cost commercial hardware adapted for Amateur Radio use. Mesh provides flexible, high speed wireless communications that can be adapted to varying terrain types, can be rapidly deployed, are fun to build and use, and are particularly well suited to the EmComm needs of many served agencies.</p> <p>The MVMA is delighted to host Andre Hansen, K6AH, of the Amateur Radio Emergency Data Network (AREDN) Project, speaking on how to build an effective AuxComm, high-speed data network based on Ubiquiti airMAX products and the AREDN Project's firmware.</p> <p>Andre will describe a 3-tiered architecture---using illustrations of actual installations---where AREDN implementers in San Diego, Riverside, San Bernardino, Orange, and Los Angeles Counties have combined to cover over 16,000 square miles with a potential of supporting Incident Command System (Memorandum Of Understanding) relationships with EOCs, ARES, RACES, and Red Cross serving over 18 million people.</p> <p>He will also discuss critical network services that must be established in order to make that network useful to disaster Incident Commanders and responders.</p> <p>Additional information may be found at the Mesh Networks Booth #1001, at <a href="http://www.aredn.org">www.aredn.org</a>, and at <a href="http://www.miamivalleymesh.org">www.miamivalleymesh.org</a></p>
		and at <a href="http://www.miamivalleymesh.org">www.miamivalleymesh.org</a> .
1:45-3:00	Room 4	Public Service Communications Panel Discussion
		Moderator: Mike Corey, KI1U, ARRL Emergency Preparedness Manager

		<p>A chance to hear from representatives from Amateur Radio's largest organizations active during times of disaster and emergency. Sponsored by ARRL, the national association for Amateur Radio®. Speakers:</p> <ol style="list-style-type: none"> <li>1. Rob Macedo, KD1CY, VOIP WX Net and VOIP Hurricane Net</li> <li>2. Julio Ripoll, WD4R, Amateur Radio at the National Hurricane Center, WX4NHC</li> <li>3. Paul English, WD8DBY, US Army MARS</li> <li>4. David Stapchuk, KD9DXM, US Air Force MARS</li> <li>5. Bobby Graves, KB5HAV, Hurricane Watch Net</li> <li>6. Bill Feist, WB8BZH, SATERN</li> <li>7. Ross Merlin, WA2WDT, Department of Homeland Security, SHARED RESOURCES (SHARES)</li> </ol>
2:15-3:30	Room 3	System Fusion
		Moderator: Mark Thompson WB9QZB
		<p>The System Fusion Forum will include a presentation &amp; discussion about Yaesu's System Fusion Voice &amp; Data technology designed exclusively for Amateur Radio.</p> <p>The forum will review the Yaesu System Fusion 2m/70cm FM/C4FM Digital Voice Repeaters and Mobile &amp; Portable radios incorporating both Analog FM &amp; C4FM Digital Voice and the WIRES-X (Wide-coverage Internet Repeater Enhancement System) VoIP internet communications linking system.</p> <p>Hams experienced in using System Fusion technology and deploying repeaters &amp; 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 &amp; participate.</p>
2:30-3:15	Room 1	Kids Training for Ham Radio
		Moderator: Gordon West WB6NOA
		<p>Gordo invites kids and teachers to attend this action-packed forum , where the KIDS will likely steal the spotlight on ham radio training ! Learn what it takes to interact with school students , and to get them excited about wireless fun with live demos - that the kids will do ! Learn from our students on what it will take to turn them into active ham radio operators !</p> <p>Everyone will receive the Instructor Academy diploma !</p>
2:45-3:45	Room 2	HamRadio 360 Workbench Podcast - Building Portable HF Gear.
		Moderator: George Zafiropoulos KJ6VU
		<p>It's never been a better time to be a ham especially if you like to design and build equipment and go out to operate portable. Jeremy, KF7IJZ, and George, KJ6VU, hosts of The Workbench podcast, talk about the growing interest in building and use of portable HF radio gear. In this session we talk about setting up your workbench and build projects including an HF antenna analyzer, low voltage disconnect, portable HF antennas, radio and battery selection. For more info go to <a href="http://www.hamradio360.com">www.hamradio360.com</a></p>
3:15-5:00	Room 4	VHF - UHF
		Moderator: Tony Emanuele K8ZR

		Microwaves are Easy. Kent Britain WA5VJB Modern VHF transverter considerations. Sam Jewell G4DDK Hardware Sequencing: What they didn't tell me. Marshall Williams K5QE Construction of portable VHF beams. Zack Widup W9SZ WSJT-X MSK144 meteor scatter and VHF Contesting. Tony Emanuele K8ZR
3:30-5:00	Room 1	DX Forum
		Moderator: Jay Slough K4ZLE
		<p>The DX forum is once again sponsored by the SouthWest Ohio DX Association and Yaesu, in coordination with the Hamvention organization. At the conclusion of the forum we will have a drawing for an FT-1200, generously donated by Yaesu. All proceeds from this drawing are used to sponsor future DXpeditions. You do not have to be present to win. SWODXA has been able to make significant donations to many DXpeditions thanks to your participation in this drawing and profits from the DX Dinner, which is also sponsored by SWODXA.</p> <p>Randy Rowe, N0TG, will tell us about the CY9C operation from last August. He and Murray, WA4DAN, were co-leaders of this trip which has been dubbed "The Best Little DXpedition in North America". Randy lives in TX, so you can guess the subtle allusion to a theatrical production with a similar name! Randy and Murray are veterans of several expeditions, most notably are trips to Sable, CY0, and Navassa in days of yore. St Paul Is. Is an interesting entity and you will certainly be informed and entertained as he reveals "the rest of the story".</p> <p>Our second speaker is Bob Eshleman, W4DR, (ex W4QCW). He will tell us about the first activation of Navassa Is., back in 1954 as KC4AB. Bob's achievements are legendary, within our hobby and outside the hobby. He has too many awards and DX activations to enumerate here, but suffice it to say his position in the CQ Magazine DX Hall of Fame, speaks for itself. Randy, N0TG, has operated from Navassa in the intervening years, but Bob and two other teen age friends beat the big boys out to get there first. We are sure you will enjoy hearing how this happened and you will get a driver's seat feel for how different DXpeditioning was in the early 50s than it is now. Can you imagine the owner of Bacardi Rum providing his yacht for such an activity, especially to 3 teenagers?</p>
		<p>outside the hobby. He has too many awards and DX activations to enumerate here, but suffice it to say his position in the CQ Magazine DX Hall of Fame, speaks for itself. Randy, N0TG, has operated from Navassa in the intervening years, but Bob and two other teen age friends beat the big boys out to get there first. We are sure you will enjoy hearing how this happened and you will get a driver's seat feel for how different DXpeditioning was in the early 50s than it is now. Can you imagine the owner of Bacardi Rum providing his yacht for such an activity, especially to 3 teenagers?</p>
3:45-5:00	Room 3	Digital Modes Now And For The Future
		Moderator: Mel Whitten KOPFX

		<p>Introduction to low cost HF monitoring with RTL-SDR  Speaker – Carl Laufer, RTL-SDR.com  Abstract – This talk will be a brief introduction to using the RTL-SDR and other cheap SDRs for HF reception and monitoring. The RTL-SDR is an ultralow cost software defined radio that is opening the radio world up to new people. I will cover what an RTL-SDR is, what it can do, and what options you have to enable HF reception with one. I'll then give some examples of previous work that shows people successfully receiving digital modes with the RTL-SDR.</p> <p>New Developments in Digital Amateur Radio from the DV4 Team  Speaker – Ulrich Altvater, AG0X  DV4 is a digital voice technology for the VHF/UHF bands with network and RF connectivity for both mobile and fixed station. Uli will describe the Yeasu System Fusion (YSF) reflectors and MyRoom features include messaging, Private/Public rooms, and transcoding. The DV4mobile LTE network will also be described. On the hardware/device side, Uli will provide updates on the DV4mini improvements, DV4home software, and the new DV4mobile's current status, beta test procedure and pricing.</p> <p>What's New with FreeDV?  Speaker – Mel Whitten, KOPFX  A quick update on the improvements in FreeDV and CODEC 2 including new modes recently released. FreeDV is an open source digital voice mode addressing the propagation and interference challenges that HF radio present. A free GUI application for the Linux, Windows and Apple OSX, FreeDV allows any SSB radio to be used for digital voice in half the bandwidth of SSB.</p>
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4:00-5:00	Room 2	"Dealing with Impossible Hams in Your Club or Team."
		Moderator: Curt Bartholomew N3GQ
		FEDERAL AGENT
		<i>Emergency &amp; Continuity Manager</i>
		Public Safety and Homeland Security Bureau
		<b>Federal Communications Commission</b>
		 FEDERAL COMMUNICATIONS COMMISSION
		be the ham your country needs you to be.