

Saturday, May 19, 2018

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9:15 -10:15

Room 1 **Drake Equipment**

Moderator: Mark Gilger, WB0IQK

AGENDA:

Supporting user interests and needs for the Drake Equipment

Resource help with Parts, Documentation, etc.

Removal, Disassembly, Cleaning, & Re-installation of the Drake 4-line PTO.

Tips & Hints - Mark Gilger, WB0IQK

Questions and Answer session-

Moderator:

Mark Gilger, WB0IQK

Speakers:

Peter Shilton, VE7PS

Jeff Covelli, WA8SAJ

Mark Gilger, WB0IQK

Kenwood Legacy Equipment Forum Program Listing

Kenwood Legacy Equipment (TS-500 - TS-830)

Supporting user interests and needs for the Legacy Kenwood Equipment

Moderator - Jan Servaites, N8CBX & Mark Gilger, WB0IQK

Resource help with Parts, Documentation, etc. - Mark Gilger, WB0IQK

Hybrid relay related problem & fixes - Jan Servaites, N8CBX

SDR integration into the Legacy line - Mark Gilger, WB0IQK

Tips & Hints –:Mark Gilger, WB0IQK

Questions and Answer session

Saturday, May 19, 2018

9:15 – 12:00

Room 2 **Youth Forum 2018**

Moderated by 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!

Saturday, May 19, 2018

9:15 – 10:30

Room 3 **ARRL Public Service Communications Track #3: Panel Discussion**

Moderator: Mike Corey, KI1U, ARRL Emergency Preparedness ManagerA 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®.**Panelists:**

Rob Macedo, KD1CY, VOIP WX Net and VOIP Hurricane Net

Paul English, WD8DBY, US Army MARS

David Stapchuk, KD9DXM, US Air Force MARS

Bill Feist, WB8BZH, SATERN

Ross Merlin, WA2WDT, Department of Homeland Security, SHARED RESOURCES (SHARES)

Ted Okada, K4HNL, Chief Technology Officer, FEMA

Malcolm Kyser, KG4G, Chief of Communications, Civil Air Patrol

Saturday, May 19, 2018 9:15 – 10:30 Room 4 HamSCI Forum

Moderator: Nathaniel Frissell, W2NAF

Summary: The Ham Radio Science Citizen Investigation (HamSCI) is an organization that allows professional researchers to collaborate with the amateur radio community in scientific investigations. HamSCI aims to advance scientific research and understanding through amateur radio activities, encourage the development of new technologies to support this research, and provide educational opportunities for the amateur community and the general public.

•9:15- What is HamSCI? (Nathaniel Frissell, W2NAF)

•9:20- The Bridge Between Radio Amateurs and Space Physicists (Ethan Miller, K8GU and Phil Erickson W1PJE)

•9:35- After the Storms: Status of the Arecibo Radar/Radio Telescope (Angel Vazquez, Jr., WP3R)

•9:50- 50 MHz Propagation: Winter Sporadic E and Jet Streams (Joe Dzekevich K1YOW, Presented by Phil Erickson, W1PJE)

•10:05- Solar Eclipse QSO Party Results (Nathaniel Frissell, W2NAF)

•10:25- Closing Remarks

Saturday, May 19, 2018 10:25-11:20 Room 1 Ham Nation

This forum is the meeting place for hundreds of Ham Nation fans. Moderated by Gordon West, Don Wilbanks, Valerie Hotzfeld, Bob Heil and George Thomas they will report on behind the scenes aspect of ham radio's most popular video web cast which is a part of Leo Laporte's TWIT network. Always a great entertaining forum which brings you lots of news and happenings from the Ham Nation team.

Saturday, May 19, 2018 11:20-12:10 Room 1 Heil Sound Workshop
PARAMETRIC RECEIVE SYSTEM

After two years of development, Bob Heil will demonstrate how well a perfect designed Parametric equalization system brings new life to any and all receivers. Heil's specially designed Parametric equalization system drives the 5" woofer and 3" tweeter in a tuned cavity driven by a low distortion 25 watt amplifier. You don't want to miss experiencing this unique new system.

Saturday, May 19, 2018 10:45-11:45 Room 3 RTTY Contesting

1. "Will Digital Contesting Migrate from RTTY to FT8?", Ned Stearns, AA7A

FT8 is a new digital mode introduced this past year and has taken the digital DXing world by storm. Almost instantly FT8 dominated the activity over RTTY, JT65 and PSK. The WSJT Developers and DXpedition organizers recognized the potential for high QSO rates under marginal propagation conditions and worked together to develop an "FT8 DXpedition Mode". What does all of this portend for RTTY contesting?

2. "RTTY Transmit Bandwidth Management", Ed Muns, W0YK

Most RTTY signals are far wider than they need to be. This causes unnecessary QRM to other stations and reduces the number of stations that can operate successfully in a given band segment. This presentation will describe the problem and the solutions for both AFSK and FSK.

3. "RTTY Contest Q&A"

This is an opportunity for attendees to have their questions addressed, either pertaining to the presentations or other topics.

Saturday, May 19, 2018 10:45 – 11:45 Room 4 ATV Forum

Art Towslee, WA8RMC, Welcome statement and general comments.

Gordon West WB6NOA, Warms up the ATV Forum with fun audio sounds, couple of one liners and preview of al excitement Mike, WA6SVT, and team are doing for digital ATV on the West coast.

Selecting, Buying and Building a Hi-Def Digital ATV Station. With the growing availability of Digital ATV gear, Mel will help determine what is needed to assemble your first station or add capability to an existing one. The latest Modulators, Demodulators, Cameras, Amplifiers, and other video devices will be explored in a fast moving and informative presentation on this ever changing technology.

Saturday, May 19, 2018 10:30 – 11:30 Room 5 Kenwood Equipment Forum

Moderator: Jan Servaites, N8CBX, Mark Gilger, WB0IQK

Speakers; Jan Servaites, N8CBX, Jeff Covelli, WA8SAJ, Mark Gilger, WB0IQK

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Questions and Answer session - Jan Servaites,N8CBX, Jeff Covelli – WA8SAJ, Mark Gilger, WB0IQK

Saturday, May 19, 2018 11:45 – 100 Room 5 National SATERN

Moderator: Bill Feist WB8BZH

As technology progresses, the domestic and global communications infrastructure has become increasingly robust and resilient. This has led many to believe that there is little or no possibility that this infrastructure can completely fail. The 2017 Atlantic Hurricane Season proved that it really CAN fail - even catastrophically fail - given the right circumstances.

This talk will be about HOW it failed - particularly in Puerto Rico, the U.S. Virgin Islands and other places in the Caribbean, how the Salvation Army Team Emergency Radio Network (SATERN) and the general amateur radio community responded to that failure, and the lessons learned from that response.

Saturday, May 19, 2018 12:20-1:10 Room 1 TROPO DUCTING ON 2m EVERY JULY - 2500 miles!

Moderator: Gordon West, WB6NOA

July is VHF/UHF tropospheric ducting month, all over the USA. Gordo, WB6NOA, will offer live demos on how local high pressure weather systems will refract VHF/UHF radio waves, over hundreds and thousands of miles, simplex, even on FM. Hear the record breaking sounds of this every-July phenomenon, where even a handy talky can work the DX! Hot day, no wind, smoke on the horizon - work tropo! Gordo shows you how.

**Saturday, May 19, 2018 12:15 – 1:45 Room 2 Foxhunting (Transmitter Hunting) & Amateur Radio Transmitter Hunting (ARDF)
Speakers Bob Frey, WA6EZV and Brian DeYoung, K4BRI**

Topics include demonstration and discussions on a variety of equipment and techniques used for VHF and HF mobile, on foot, and ARDF style transmitter hunts. On Saturday afternoon we will be having an on foot foxhunt with multiple transmitters in a local park.

Saturday, May 19, 2018 12:00 – 1:15 Room 3 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!

Saturday, May 19, 2018

12:00-1:00

Room 4 **QCWA Forum - 2018**

Ken Oelke, VE6AFO - QCWA President

Our Theme "Reaching Out To Amateur Radio Youth"

OUR VISION

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.

This year we are inviting all past, and hopeful future, recipients of a QCWA scholarship to join and tell us about your activities and achievements, and how the scholarship has assisted you with your education. If you are reading this, please introduce yourself at our forum.

Plan to attend this exciting forum to learn about QCWA Youth Activities and a new QCWA/RCA Youth initiative, as well learn of our support for the ARISS Program and Dave Kalter Memorial Youth DX Adventure. This year we will be holding the Annual Members' Meeting in conjunction with our forum. Learn of our past achievements, financial and membership growth. This is your forum, so be prepared to become engaged in QCWA's future! Plan to participate in a lively 'Question & Answer' session.

Saturday, May 19, 2018

1:20 – 3:05

Room 1 **Contesting Forum**

Moderator: Doug Grant, K1DG

"The Reverse Beacon Network turns 10" - Pete Smith, N4ZR

Ten years ago, Skimmer technology gave rise to the Reverse Beacon Network, changing contesting forever. Nowadays, the RBN is used for numerous purposes both during and outside contests. N4ZR will examine some of the ways the RBN is being used and how you can use it to improve your contest scores.

"Countdown to WRTC2018" - Christian Janssen DL1MGB

The WRTC2018 Opening Ceremonies will be held 54 days from today in Wittenberg, Germany. The teams and referees have been chosen, the sites have been selected, the volunteers are being trained, and the committee is looking after all the details to make the event a success, including both the competition and the opportunity for contesters from around the world and their families to share the excitement.

"What has the WWROF been up to lately?" - John Dorr, K1AR

The World Wide Radio Operators Foundation was formed in 2009 to help improve the skills of

amateur radio operators around the world, utilizing education, competition, advancement of technology and scientific

research, promoting international friendship and goodwill, and preparing them to better serve society in

times of communication need. Current and recent projects include funding the log-checking infrastructure, managing awards programs,

a successful Webinar program, and most recently, providing generators for amateurs in Puerto Rico who were left without

power after two devastating hurricanes.

"Winning a contest using a remote station" - Chris Hurlbut, KL9A; Kevin Stockton, N5DX; Nate Moreschi, N4YDU

As remote stations have become commonplace, some of them have been used for contesting. While some operators have questioned whether remote stations would be capable of winning contests, others took up the challenge and have been very successful. Today's panelists have won major contests operating both "in-person" and remotely, and can offer some interesting observations on remote contesting.

Saturday, May 19, 2018 1:30 – 2:30 Room 3 ARRL Public Service Communications #4: Stories from the 2017 Hurricanes

Firsthand accounts from volunteers who supported Amateur Radio's response to the 2017 hurricanes in Puerto Rico, US Virgin Islands, and across the Southeast US.

Sponsored by ARRL, the national association for Amateur Radio®. Panelists:

Mike Corey, K11U, ARRL Emergency Preparedness Manager (moderator)

Oscar Resto, KP4RF - ARRL Public Service (guest)

Fred Kleber, K9VV – ARRL Section Manager, US Virgin Islands (guest)

Andy Anderson, KP4AAN - ARRL Public Service (guest)

Saturday, May 19, 2018 1:15 – 2:30 Room 4 VHF/UHF/Microwave Forum 2018

Moderator: Tony Emanuele K8ZR

CQ Magazine VHF+ Column editor.

1. "Are the Bands Hot or Not: The VHF+ Remote Beacon Network." John Ackermann, N8UR. There's a propagation monitoring tool that VHFers aren't taking advantage of. Learn how the VHF+ Reverse Beacon Network can spot openings and help increase activity.

2. "Roving: A Beginners Experiences in VHF Contesting" Mark Kerhlikar, WD9HBF.

3. "Some of My Favorite Test Gear Comes from China." Michael Davis, KB1JEY VHF enthusiasts have observed that new test equipment can often cost more than our car and legacy models can strain our backs. The good news is that good quality yet inexpensive signal generators, spectrum analyzers and other pieces of test gear manufactured overseas are readily available. This presentation will offer some tips on how to secure these values.

4."What's new in VHF Contesting: Events, Modes and the International Grid Chase." Bart Jahnke, W9JJ. ARRL Contest Branch Manager.

Saturday, May 19, 2018 **1:15 – 2:15** **Room 5** **Robots in The Classroom' Forum**

Moderator, Kerry Hicks

Forum Description:Forum Description:

Teams, coaches, and mentors from around Ohio will discuss the various FIRST programs that introduce kids of all ages to robotics, programming, and "gracious professionalism." They will be there to talk about the programs, how they benefit the kids (and the adult mentors as well), and how the programs have spurred interest in STEM. Of course, THERE WILL BE ROBOTS to show off!

Saturday, May 19, 2018 **2:00 – 3:15** **Room 2** **AREDN – Amateur Radio Emergency Data Network
AT THE CENTER OF EMERGENCY PREPAREDNESS**

Andre, K6AH, the AREDN Project Manager, will discuss why delivering mesh networking as part of your group's EMCOMM services will produce a paradigm change for the disaster services community you serve.

Hams such as yourselves, are now building or have already implemented AREDN networks in their own cities and counties throughout the US.Learn how hams are utilizing this exciting technology to meet the expectations of served agencies by providing them access, through a high-speed network, to applications they already use.Andre will also describe how you can get involved, what equipment you should consider, and how to assemble your go kit.

Finally, Andre will discuss the amazing tools you will be providing first responders and disaster service agencies such as the ARES/RACES (AUXCOM), EOCs, CERT, and the Red Cross.

Saturday, May 19, 2018 **3:30 – 5:00** **Room 2** **Digital Modes Forum**

Moderator: Mel Whitten, K0PFX

"Developing Emcomm Rural America"

Seven years ago, CQ columnist and Illinois Macoupin County Emergency Coordinator, Ron Ochu, KO0Z moved from suburban living near St. Louis to rural Illinois. Ron will share Emcomm lessons learned on exploring ways for ham radio operators to gain access into the "inner circle of trust" in rural America's bureaucratic structure. Change isn't easy, but it is possible if you have the will, the means and something to offer.

Mark Miller, N5RFX

"Mobile Repeaters for DMR"

Setting up a digital repeater for emergency communications. Examples include: 1. Motorola XPR 8300/8400. 2. How to select a transceiver for Home brew digital repeater. 3. Configuring a homebrew DMR repeater for emergency use.

Bruce Perens, N6BP

"2018 Digital Voice and Open Source Update"

Bruce Perens is showing off! There are new development in digital voice, digital modems and protocols, new and amazing hardware, space and satellites, even rules and regulations! Bruce Perens K6BP is one of the founders of the opens Source movement in software, a digital voice proponent, and has helped steer Amateur Radio toward the future for two decades, Come and hear what's going on.

Time will be allotted for attendees to ask questions.

Saturday, May 19, 2018 2:45 – 3:45 Room 3 HamRadio Workbench Build Projects

Moderator: George Zafiropoulos

Abstract: George and Jeremy from the Ham Radio Workbench Podcast will talk about the latest show build projects along with tips and tricks for setting up your own workbench. If you are new to home brewing, want a deeper technical understanding of all things radio or are an experienced hands-on DIY type, this session is for you. We will touch on popular projects including portable HF antennas, portable power, home brew station accessories, DMR hotspots and repeaters, pocket sized test equipment and more.

Saturday, May 19, 2018 2:45 – 3:45 Room 4 "AMSAT Status Report"

Moderator: Keith Baker, KB1SF / VA3KSF

"AMSAT Status Report" Joseph Spier, K6WAO, AMSAT-NA President, will highlight recent activities within AMSAT and discuss some of our challenges, accomplishments, projects, and any late breaking news.

"AMSAT Engineering Program" Jerry Buxton, N0JY, AMSAT-NA Vice President for Engineering, will talk about the Fox-1 and Golf (Greater Orbit Larger Footprint) Projects.

"ARISS Report 2018" Frank Bauer, KA3HDO, AMSAT-NA Vice President for Human Spaceflight will discuss ARISS' "Next Generation ARISS Radio System" on the International Space Station.

Saturday, May 19, 2018 3:15 – 5:00 Room 1 DX Forum

Moderated by Jay Slough, K4ZLE

We welcome anyone interested in DX to attend our forum this year. While we may be one of the last forums on Saturday, we should prove to be most interesting. The forum will consist of three major presentations.

6O6O - Samolia, by Adrian, KD8SCA

DX interest should span more than reports of someone or some group hauling a bunch or radio equipment to some possibly rare locality, setting the equipment up and making myriads of millisecond QSOs. There is often a humanitarian component to some DXpeditions and editorially perhaps there should be more emphasis on this aspect of our hobby. This expedition was just such a trip. While Adrian and Ken, LA7GIA, term this a DXpedition, there was an altruistic purpose to the trip. Adrian will tell us why they went and about the organization they are supporting by this trip.

3C1L and 3C0L - Equatoria Guinea and Annobon Island, by Yuris, YL2GM

Those of us in the US are familiar with commercials for Eveready batteries and the Energizer Bunny. "It just keeps going and going and going!" That describes this two man team and their recent operation. These two top tier operators were constantly on the air and snapping off contacts like there was notomorrow. Little did we know then that this was only a reconnaissance trip for the 3C3W and 3C0W trip that took place in early 2018. The first trip was not without its trials and tribulations. Come meet one of the operators first hand and hear what was involved in making these operations a reality.

3Y0Z - Bouvet, by Bob, K4UEE

While every major DXpedition has its rough spots, none in recent history has produced more heartache and pain for the direct participants and the DX community as a whole than this one. Thirty one days at sea in the waters of the Southern Ocean would be enough, in and of itself, but to see your objective setting directly in front of you and not being able to fulfill your goal would break the heart of anyone - especially after the planning and preparation that went into this trip. Bob was one of the leaders for this trip and will "come out of retirement", so to speak, to tell us about that experience.

In addition, to the presentations described above, there will be a Yaesu transceiver raffled at the conclusion of the forum. Tickets may be purchased at the forum and the winner does not have to be present to win. One hundred percent of the proceeds from this raffle are used to help fund DXpeditions like those above. Here is your chance to help make future trips possible and to potentially win a nice radio.

Saturday, May 19, 2018 4:00 – 5:00 Room 3 ARRL Collegiate Amateur Radio Initiative

A growing number of campus radio clubs and student radio amateurs are sharing ideas and suggestions on the ARRL Collegiate Amateur Radio Initiative (CARI) Facebook page. 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.

Andy Milluzzi, KK4LWR, ARRL Public Relations Committee

Tony Milluzzi, KD8RTT, ARRL Volunteer, Collegiate Amateur Radio Initiative

Saturday, May 19, 2018 4:00 – 5:00 Room 4 FCC Disaster EmComm Public Workshop

Moderator: Curt Bartholomew, N3GQ, FCC Emergency Manager

FEDERALAGENT

Emergency & ContinuityManager

5 DHS/FEMA Officials, including Ted Okada, K4HNL, Chief Technology Officer

One DHS/OEC Official: John Peterson, N4KEA

One NCC Official: Ross Merlin, WA2WDT, SHARES Program Manager

One American Red Cross Official: TBD

One Winlink Official: Steve Waterman, K4CJX/NCS396

One US Army MARS Official: Paul English, WD8DBY, Program Manager

One USAF MARS Official: TBD

Several ARRL Officials: TBD

One SATERN Official; TBD

One Southern Baptist Disaster Relief Official: TBD