

2018 Forums Overall Schedule

FRIDAY May 18, 2018

SATURDAY May 19, 2018

SUNDAY May 20, 2018

	Room 1	Room 2	Room 3	Room 4	Room 5
9:15 AM	TAPR Scott Cowling WA2DFI 9:15-10:30	Remote Operating Mark Aaker K6UFO 9:15-10:15	ARRL Public Service Communications #1: Getting Started Mike Corey K1IU 9:15- 10:30	SHARES HF EMCOMM Ross Merlin WA2WDT 9:15-10:15	Parks on the Air Thomas Martin W8TAM 9:15-10:30
9:30 AM					
9:45 AM					
10:00 AM					
10:15 AM					
10:30 AM	APRS Bob Bruninga WB4APR 10:45-11:45	Mars Paul English 10:30-11:30	Antennas for Emergencies Frank Beafore WS8B 10:40-11:40	Instructor's Forum Carole Perry WB2MGP 10:30-11:30	
10:45 AM					
11:00 AM					
11:15 AM					
11:30 AM					
11:45 AM	Homeland Security John Peterson 12:00-1:45	D-Star Robin Cutshaw AA4RC 11:45-1:00	ARRL Public Service Communications #2: Building Partnerships 11:50-1:05	Kit Building Joe Elsenberg KONEB 11:45-12:45	Balloon Sat Bill Brown WB8ELK 11:45-1:15
12:00 PM					
12:15 PM					
12:30 PM					
12:45 PM					
1:00 PM	Antenna Forum Tim Duffy K3LR 2:00-5:00	National Weather Service Brandon Peloquin 1:15-2:30	Collins Radio David Knepper W3ST 1:15-2:15	Techniques of Best Operators Mitch Stern W1SJ 1:00-2:15	Using KiCad Barry Buelow WØIY 1:30-2:30
1:15 PM					
1:30 PM					
1:45 PM					
2:00 PM					
2:15 PM	Ham Radio and the Law B.Scholl K3LA J.Stratton N5AUS B.Famiglio K3RF 2:45-3:45	ARRL International Grid Chase 2018- Get in the Chase! 2:25-3:40	YLRL Anne Manna WB1ARU 2:30-3:30		New Product Showcase Media Event 2:45-3:45
2:30 PM					
2:45 PM					
3:00pm					
3:15 PM					
3:30 PM	System Fusion Mark Thompson WB9QZB 4:00-5:00	Software Defined Radio Stephan Hicks 3:50-5:00	Digital Mobile Radio John Burningham W2XAB 3:45-5:00		
3:45 PM					
4:00 PM					
4:15 PM					
4:30 PM					
4:45 PM					
5:00 PM					

	Room 1	Room 2	Room 3	Room 4	Room 5			
9:15-10:15	Drake Equipment Mark Gilger WB0IQK 9:15-10:15	2018 Youth Forum Carole Perry WB2MGP 9:15-12:00	ARRL Public Service Track# 3: Panel Discussion 9:15-10:30	HamSCI Nathaniel A Frizzell PHD W2NAF 9:15-10:30				
	Ham Nation Bob Heil K9EID 10:25- 11:20						Kenwood Equipment Jan Servaites N8CBX 10:30-11:30	
	Heil Sound Workshop Bob Heil K9EID 11:20-12:10				RTTY Contesting Ed Muns W0YK 10:45-11:45	Fast Scan ATV Art Towslee WA8RMC 10:45-11:45		
	TROPO DUCTING ON 2m Gordon West WB6NOA 12:20-1:10	Foxhunt/ARDF Dick Arnet WB4SUV 12:15-1:45	ARRL Member Forum Dale Williams WA8EFK 12:00-1:15	QCWA Ken Oelke VE6AFO 12:00-1:00	Saturn Bill Feist WB8BZH 11:45-1:00			
	Contesting Doug Grant K1DG 1:20-3:05				ARRL Public Service Track #4: Stories from the 2017 Hurricanes 1:30- 2:30	VHF-UHF Tony Emanuele WA8RJF 1:15-2:30	Robotics In The Classroom Kerry Hicks 1:15-2:15	
					AREDN Andre Hansen K6AH 2:00-3:15			
	DX Forum Jay Slough K4ZLE 3:15-5:00	Digital Modes Mel Whitten KOPFX 3:30-5:00	HamRadio Workbench Build Projects George Zafiroopoulos KJ6VU 2:45- 3:45	AMSAT Joseph Spier K6WAO 2:45-3:45				
					ARRL Collegiate Amateur Radio Initiative Andy Milluzzi KK4LWR 4:00-5:00	FCC Curt Bartholomew N3GQ 4:00-5:00		

	Room 1	Room 2	Room 3	Room 4
9:15-10:15	West Mountain Radio Sholto Fisher K7TMG 9:15-10:15	Reaching The Public with Ham Radio Tommy Gober N5DUX 9:15-10:15	Receiving Antennas Eric Nichols KL7AJ 9:15- 10:15	Bicycle Mobile Mike Nickolaus NF0N 9:15-10:15
	Secure Energy for the Radio Amateur Bob Bruninga WB4APR 10:30- 11:30	The Portable Magnetic Loop Alexandre Grimberg PY1AHD 10:30-11:30	10:30-11:30	10:30-11:30

Friday May 18,2018

Friday, May 18, 2018	9:15 -10:30	Room 1	TAPR Forum Moderator: Scotty Cowling, WA2DFI Bio: Scotty was first licensed in 1967 and has been continuously active since that time. He is active while mobile on HF CW and on APRS. Scotty is an advisor for Explorer Post 599, a BSA affiliated ham club for teens in the Phoenix area. 9:15 – 9:25AM Introduction by Steve Bible, N7HPR, TAPR President 9:25 – 9:30AM Write for QST/QEX by Steve Ford, WB8IMY QST Editor 9:30 – 9:55AM “SDR vs Legacy Radio” by Adam Farson, VA7OJ/AB4OJ 9:55 – 10:20AM “Collecting Solar Eclipse Data using SDR, plus a Low Noise VHF/UHF Synthesizer” by John Ackerman, N8UR Abstract: (1) Using an SDR to collect data during the “Great American Eclipse” on August 21, 2017, and (2) a Versatile Low-Noise VHF/UHF Synthesizer. 10:20 – 10:30AM “What is HamSCI?” by Nathaniel Frissell, W2NAF Bio: Nathaniel Frissell, W2NAF, is a research professor with the New Jersey Institute of Technology Center for Solar-Terrestrial Research. Nathaniel’s interest in ionospheric science began in middle school when he was introduced to amateur radio through scouting.
Friday, May 18, 2018	9:15 -10:15	Room 2	Remote Access to your Amateur Radio Station Moderator: Mark Aaker K6UFO Speaker: Ria Jairam N2RJ, FlexRadio Systems Community Elmer. Remote access makes your station more useful and enjoyable. Let's get you online quicker, and avoid the common problems, with an overview of remote access methods being successfully used today. We'll also feature a remote operator speaking about the new SmartLink remote access software released from FlexRadio Systems and shipped with their SmartSDR 2.0 software. And yes, we'll save time for your Questions and Answers!
Friday, May 18, 2018	9:15 – 10:30	Room 3	ARRL Public Service Communications Presenter: Ken Bailey, K1FUG, ARRL Emergency Preparedness Assistant and Continuing Education Program Administrator Amateur Radio operators have a history of helping their communities by providing radio communications in good times and in bad. You need to prepare yourself. Preparedness is about training so you will be ready when called upon. Being ready is about believing it can happen and taking steps needed to act properly when things go bad. This forum is for the newly licensed ham, and for those new to public service and emergency communications who want to learn how to do more for their community. Sponsored by ARRL, the national association for Amateur Radio®.

Friday, May 18, 2018 **9:15-10:15** **Room4** **SHARES HF EMCOMM**
Moderator Ross Merlin WA2WDT

SHARES (SHARed REsources) is a Federal government HF radio program for backup communications and interoperability among Federal agencies and Federally-affiliated entities that have a need to send or receive national security or emergency preparedness communications such as state agencies, county emergency management agencies, and critical infrastructure / key resources providers (telecommunications, energy, healthcare, transportation etc.). This session will include both an introduction to SHARES for potential users and an open forum for audience members to discuss program issues with the SHARES Program Office staff.

Bio:

Ross Merlin, WA2WDT, is the SHARES Program Manager. He holds an Amateur Extra Class license and the General Radiotelephone Operator's License. His on-the-air interests include emergency communications, contesting, and digital modes. He is the author of the National Interoperability Field Operations Guide (NIFOG), which is widely used by public safety and emergency communications professionals across the country.

Friday, May 18, 2018 **9:15 – 10:30** **Room 5** **Parks On The Air**
Moderators: W8TAM Thomas Martin & K8VOX Julie Martin

Bio: Like many, Thomas and Julie began their love affair with portable operating with the National Parks on the Air program. To date, they have activated over 100 parks in nearly a dozen states.

Why Parks On The Air?

How to be a conscientious participant.

Gear, techniques, planning, and execution.

Friends and pileups await you on the bands. Join in the fun!

Friday, May 18, 2018 **10:45 – 11:45** **Room 1** **APRS Forum**

APRS continues to expand into more areas. Bob Bruninga, WB4APR will give an update on the state of APRS and the opportunities for APRS via the several Amateur Satellites in orbit and in work. Don Arnold, W6GPS will talk about the new Kenwood TH-D74 combined APRS and Dstar radio and Bryan Hoyer K7UDR will talk about the APRS-of-Things and Sterling Coffey N0SSC will talk about all the APRS tablet and phone applications. Others will update on their APRS projects and as time permits, other APRS topics from the floor are welcome.

Friday, May 18, 2018 **10:30 – 11:30** **Room 2** **Combined MARS Forum Hamvention 2018 (UNCLASSIFIED)**
Presentations to be given by David McGinnis and Dave Stapchuk.

English, Paul A CIV USARMY NETCOM(US)The Military Auxiliary Radio System is a Department of Defense sponsored organization the trains FCC licensed amateur radio volunteers in military communications procedures and digital messaging protocols in order to provide contingency HF communications support to the Department of Defense and Military Services. The MARS forum this year will focus on lessons learned from contingency support provided by our MARS volunteers during the 2017 hurricane season in both Texas and Puerto Rico. Presenters will demonstrate the newest military HF radio, the PRC-160 tactical wide band HF radio that will soon be fielded to military units worldwide. Additionally, presenters will discuss the latest developments in the MARSRADIO phone patch network which supports the military services with HF phone patch.

Friday, May 18, 2018 10:40 – 11:40 Room 3 **Antennas for Emergencies Forum**
Frank J. Beafore, WS8B
– This presentation will be in forum style with everyone participating in the discussion. The forum will look at emergency situations, currently off the shelf (COTS) products available and homebrew solutions based on simple antenna theory. Participants should be better prepared for a variety of emergency situations after attending this forum.

Friday, May 18, 2018 10:30 – 11:30 Room 4 **2018 Hamvention Instructors' Forum**
Moderated by Carole Perry WB2MGP
This forum is for teachers and instructors to share techniques and new ideas for the classroom and ham radio youth groups. There will be an emphasis on suggestions for teaching youth about emergency preparedness and how to tie it in to geography, social studies, and amateur radio skills.
There will be excellent opportunities for networking along with great door prizes. Speaker will be Charles Kirmuss W0CBK who is an RCA Youth Activities volunteer as well as Director of Rampart Search and Rescue for Adams, Lincoln and Morgan Colorado Counties Sheriff's Department.
Topic: Teaching Emergency Preparedness through radio communications; including weather watching, navigation with maps and gps, environmental observations, first aid, search techniques, etc; Discussion on how to organize teenagers into volunteer emergency programs (CERT, SAR, ARES).

Friday, May 18, 2018 12:00 – 1:45 Room 1 **Homeland Security Forum**
Moderator: John Peterson

The Department of Homeland Security's (DHS) Office of Emergency Communications (OEC) forum is geared toward auxiliary emergency communicators who volunteer to provide backup emergency radio communications support to public safety and emergency response agencies. Typically they are amateur radio communicators from groups such as MARS, ARES, RACES, SATERN and other amateur radio groups. Volunteer emergency communications operators/groups have been providing back-up emergency communications to the public safety community for nearly a century. They are routinely used by event planners and emergency managers at all levels of government. Today nearly all the States/territories have incorporated some level of participation by amateur radio auxiliary communication operators into their communications interoperability plans.

Come talk with the DHS Communications Unit (COMU) subject matter experts at this year's forum and learn about the nationally recognized, NIMS/ICS compliant, AUXCOMM course. In this forum you will learn about the latest changes for COMU training (aka COMU 2.0) and be updated about the new COMU courses that are currently in development and are expected to be deployed in the not so distant future. Additionally, OEC will bring in subject matter experts that were on the ground and directly involved with deployment and operations of AUXCOMM operations during last year's hurricanes. This forum is filled with new information that will be beneficial to all those who provide emergency communications support to the Public Safety community. Moderator for this Forum: John Peterson (N4KEA), from the Office of Emergency Communications in Washington, DC, will be the lead for this information packed forum.

Friday May 18,2018

11:50 – 1:05

Room 3

ARRL Public Service Communications #2: Building Partnerships

Presenters:

Mike Corey, KI1U, ARRL Emergency Preparedness Manager

Sarah Byrne, Community Partners Specialist, External Affairs, FEMA

Solid, collaborative, and mutually beneficial partnerships are key to successful disaster and emergency response. Amateur Radio public service groups rely on such partnership when serving their communities. This session will address how to build and grow partnerships of different levels of complexity, across a wide range of interests and organizations -- from Voluntary Organizations Active in Disasters (VOADs), to other non-profits and businesses. Sponsored by ARRL, the national association for Amateur Radio®.

Friday May 18, 2018

11:45-1:00

Room 2

D-Star

Moderator Robin Cutshaw AA4RC

New devices. New software. Join Robin Cutshaw (AA4RC) and more for updates on D-STAR.

Friday, May 18, 2018	11:45 – 12:45	Room 4	<p>Kit Building Moderator/Keynote Speaker: Joe Eisenberg, K0NEB Kit Building Editor, CQ Magazine “Kit Building Techniques for Success”</p> <p>A look at ideas for making your kit building experience go better and give you the highest chance for success. This forum is designed for both beginning and experienced builders. Topics to be covered include choosing the correct soldering iron and not break the bank, choosing the best type of solder and desoldering tools, how to handle winding toroids, sorting parts, and what spare parts to have on hand. If possible, onsite sources for these items will be given.</p> <p>Speaker: David M Cripe NM0S Engineer, Rockwell Collins and designer of many 4-State QRP kits Introducing the new 4SQRP kits for 2018 and what is coming in the future, and using printed circuit boards to make the cases, including the design and assembly hints.</p>
Friday, May 18, 2018	11:45 – 1:15	Room 5	<p>BalloonSat Forum Program Moderators: Bill Brown WB8ELK Great Plains Superlaunch Pico Balloon Race -Bill Brown WB8ELK Solar Eclipse Balloon Flight- Paul Verhage KD4STH (talk presented by Bill Brown WB8ELK) National Scout Jamboree Balloon Flights-Keith Kaiser WA0TJT, Kelsey Seymour K3LSY, and Mike Yammine KB8CMS Promoting STEM with High Altitude Balloons and Drones- Brian Tanner, Spaceport Indiana <i>A Pico Balloon Race will be launched after the BalloonSat Forum</i></p>
Friday, May 18, 2018	1:15 – 2:30	Room 2	<p>National Weather Service Forum Working With Amateur Radio ... To Save Lives During Severe Weather Moderated By: Brandon Peloquin, Warning Coordination Meteorologist, National Weather Service Wilmington OH</p> <p>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.</p>
Friday, May 18, 2018	1:15 – 2:15	Room 3	<p>Collins Radio Association Moderator and speaker: David Knepper, W3ST, Secretary to the Collins Radio Association</p>

Emergency Preparedness Deployment of Collins Radio Equipment for Public Safety Communications

Collins amateur radio equipment, still has relevance and practicality in providing effective, dependable communications in any natural or man-made catastrophic event. Utilizing its superb capability and dependability, a Collins KWM-2, for example, can still be part of an integrated emergency communication system. This session will describe in detail the packaging of Collins ham equipment that still has relevance and capacity to provide reliable and dependable emergency communications.

Friday, May 18, 2018

1:00 – 2:15

Room 4

TECHNIQUES OF THE BEST OPERATORS 2018

Mitch Stern W1SJ

Tony Pazzola W2BEJ

Now that you've bought up all that great stuff at Hamvention, how exactly do you set it all up?

Why is working new stations such a struggle? Why does everyone else work the juicy DX but I can't? Why is it every time I get into a QSO, it ends up getting swallowed up in a blast of QRM?

Questions, questions, questions!

Our forum today will help you go in the right direction.

A good station certainly helps, but knowing WHAT to do and what NOT to do when you get on the air is even more important. We'll start off with some of the basics of good operating, learn the details for putting together a great station for those portable operations, explore the mysteries of antennas and propagation, dabble with digital, dabble with DX and finally learn how to use contests to become better operators. You won't be same operator by the end the day and will be a force to be reckoned with on the bands!

You will be treated to on-the-air war stories, equipment ideas and super suggestions. Don't miss it!

Friday, May 18, 2018

1:30 – 2:30

Room 5

Using KiCad EDA Open Source Design Software

Moderator: Barry Buelow, WØIY. Rockwell Collins

Biography: WØIY. Retired from 30+ years at Rockwell Collins, plus consulting at NASA, and other aviation manufacturers. Barry spends a great deal of time designing circuits, assembling PCB and tinkering with my 3D printer and toys. He volunteers with the Iowa State Univ Solar Car project and has organized a group of other Collins retirees who do home brewing.

Abstract: KiCad EDA is one of a very few Open Source Electronic Design Automation suites. It provides tools for schematic capture and PCB layout. The tool is as easy to use as any other design software and provides Gerber outputs which can go to most PCB shops. It also supports Pick-and-Place operation by providing a component placement file.

Friday, May 18, 2018

2:00 – 5:00

Room 1

ANTENNA FORUM

MODERATOR: Tim Duffy K3LR

“A Five Element Parasitic Rotatable Vertical Yagi for 160 meters”

by Joel Harrison, W5ZN

Joel will review his installation and operation of his high performance directional antenna system for the 160 meter band.

“A Pragmatic Approach to 630 Meter Antennas”

by E.M. Tichansky, NO3M

Eric will present an overview of practical 630 meter antennas for transmit and receive for all variety of lot sizes

“Near Vertical Incidence Skywave (NVIS) Antenna System Design, Construction and Operation”

by Cory Gibson, W3CDG

Cory will present a detailed paper using NEC models, construction, deployment and on air validation of NVIS antennas for 40 and 80 meter emergency communications.

“Hydro Excavation for Radio Antenna Tower Construction”

by Everett Jackson, WZ8P

Hydro Excavation is the process of removing or moving soil with pressurized water. An air conveyance or vacuum is then used to transfer the soil or debris to a debris tank.

This allows for a non-destructive and more accurate way to excavate soil for tower foundations. There is no need for a backhoe or bulldozer and

concrete may be poured more quickly. This allows for a non-destructive and more accurate way to excavate soil for tower foundations. There is no need for a backhoe or bulldozer and

Friday, May 18, 2018

2:45 – 3:45

Room 2

Ham Radio and the Law

Barney Scholl K3LA

“Am I Am Going To Be Required To Light My Fifty Foot Tower Under The FAA Extension, Safety, and Security Act of 2016?” Or “What additional provisions has the FAA created that could affect us all”.

Description of presentation. The speaker will address the provisions of The FAA Extension, Safety, and Security Act of 2016 and whether the enacted law will require your current or future antenna support structure to be lighted. The 2016 Act will not affect most radio amateurs, but due to the included definitions, it could affect an existing or future tower. So it is better to be aware of its provisions before you buy that hilltop parcel of land for your future super station.

The speaker is Chester (Barney) Scholl, K3LA. Barney has been a radio amateur for 55 years and is a life member of the ARRL. Barney is now an attorney in private practice. He has represented radio amateurs and cellular companies in tower related matters and currently is solicitor for a local zoning hearing board and a member of a local planning commission.

This session also plans an extended Q & A period for the panel to allow audience members to steer discussions with respect to other topics of interest.

“Legal Liability laws Can Leave You Feeling Naked At Your Next Field Day, Hamfest or Public Event”

Description of content: Learn how you and your club may avoid poverty and perdition. Adult content, not recommended for the shy or risk adverse.

Speaker: The speaker is John Robert Stratton, N5AUS. John, an ARRL Life Member, is the ARRL West Gulf Division Vice-Director and Legislative Director, holds a degree in Aerospace Engineering and is an attorney in private practice specializing in civil litigation.

“Unintended Consequences of the Amateur Radio Parity Act.” Or “What you don't know may hurt you”.

Description of presentation. The speaker will address the controversy over the language of the Amateur Radio Parity Act and whether the proposed law will provide any significant relief for radio amateurs living in homeowners associations or under restrictive covenants running with their land. Bob will also discuss the unintended consequences of the proposed law. The Amateur Radio Parity Act will affect many radio amateurs that do not live in a HOA, but are characterized by broad language of the act to be in a community association even if there are no HOA documents or covenants. Also, the proposed statute does not actually guarantee an effective outdoor antenna for many living in an HOA.

The speaker is Bob Famiglio, K3RF. Bob has been a radio amateur for 51 years and is a life member of the ARRL. A graduate electrical engineer, Bob is now an attorney in private practice. He has represented radio amateurs in significant legal disputes involving antennas and HOA restrictions beginning even before the passage of PRB-1.

Friday, May 18, 2018 2:45 – 3:45 Room 5 New Product Showcase

Moderator: Michael Kalter

Dayton Hamvention is hosting a media event allowing companies to formally announce their new products. This is primarily a media event and will be available online following the Showcase. Public seating begins when media seating is satisfied.

Friday, May 18, 2018 2:25 – 3:40 Room 3 ARRL International Grid Chase 2018 -- Get in the Chase!

Presenter: Bart Jahnke, W9JJ, ARRL Contest Branch Manager Come hear an update about ARRL's year-long on-air event, the ARRL International Grid Chase. Get tips about participating, uploading your log data to ARRL's Logbook of The World (LoTW), scoring, and awards. Remember, at the end of each month, totals on the Grid Chase leader board reset to zero. Will you be next month's leader?

Friday, May 18, 2018 2:30 – 3:30 Room 4 **Young Ladies' Radio League**
Moderator, Anne Manna, WB1ARU
Young Ladies' Radio League is sponsoring this Forum for all women, licensed or not. Every woman ham is a "Young Lady" no matter what her age. The forum will provide an opportunity for meeting and networking with others who share our hobby or are interested in finding out more about it. Speakers will provide information on varied interest areas in ham radio including nets, special events, clubs, contests, scouts, emergency preparedness, and more. Bring your questions to the YL Forum and find out about women in Amateur Radio and hear from Young Ladies of all ages! OMs are also welcome to earn awards and are appreciated for their support.

Friday, May 18, 2018 4:00 – 5:00 Room 2 **System Fusion Forum**
Moderator: Mark Thompson, WB9QZB
Speaker: John Kruk, N9UPC, Sales Manager, Amateur Radio Sales Division, Yaesu USA
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 Yaesu's System Fusion™ technology including 2m / 70cm Analog FM / C4FM Digital Voice Repeaters and Mobile & Portable radios and WiRES-X™ (Wide-coverage Internet Repeater Enhancement System) & IMRS™ (Internet-linked Multi-site Repeater System) VoIP communications linking systems.

Everyone who is using or interested in System Fusion is encouraged to attend and participate to share their experiences & ask your questions about System Fusion.

Friday, May 18, 2018 3:50-5:00 Room 3 **Software Defined Radio**
Moderator Stephan Hicks N5AC
Multiple speakers will discuss new advances in the world of Software Defined Radio and will form a panel at the end to discuss questions from the audience. Moderated by Steve Hicks, N5AC, VP Engineering FlexRadio Systems.

Friday, May 18, 2018 3:45 – 5:00 Room 4 **DMR Networks Forum**

Moderator: John Burningham, W2XAB

The current state of the DMR networks, radios, and hot spots followed by a short introduction to writing your own code plugs.

Saturday, May 19, 2018

Saturday, May 19, 2018 **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

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 - 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

CQMagazine 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

Sunday, May 20, 2018

- Sunday, May 20, 2018 9:15 – 10:15 Room 1 West Mountain Radio's presentation**
Exploring Network 105 - The HF amateur packet radio network.
Moderator: Sholto Fisher.
Network 105 has been in continuous operation since 1986 and is a global RF Wide Area Network. It's a place to chat & make friends, exchange personal mail, experiment with computers & software, and explore the ever evolving network.
This presentation is not beginner level but all are welcome to attend.
- Sunday, May 20, 2018 9:15 – 10:15 Room 2 Reaching the Public with Ham Radio**
Many radio clubs organize displays and exhibits to garner interest for Amateur Radio. They recruit new hams at Maker Faires, school and Scouting events, county fairs, public events, and science and technology conventions. Clubs also setup displays for the general public during ARRL Field Day. Come learn and share different methods for organizing exhibits and engaging the public at non-radio events. Sponsored by ARRL, the national association for Amateur Radio®
Tommy Gober, N5DUX – Instructor, ARRL's Teachers Institute on Wireless Technology
Bob Inderbitzen NQ1R – ARRL Marketing Manager
- Sunday, May 20, 2018 9:15 – 10:15 Room 3 Receiving Antennas**
Moderator: Eric Nichols, KL7AJ
Eric P. Nichols, KL7AJ . KL7AJ is a two-time recipient of the William Orr, W6SAI Technical Writing Award, conferred by the ARRL. He is currently technical editor for the W5YI group, working closely with Gordon West. He has written dozens of articles for QST, and is the author of The Opus of Amateur Radio Knowledge and Lore, Radio Science for the Radio Amateur, Propagation and Radio Science, and, Digital Storage Oscilloscopes for Ham Radio. He is currently writing a book on active and passive receiving antennas for ARRL, the topic of this talk.
"Receiving antennas are DIFFERENT! Almost every amateur radio station can benefit from having a separate receiving antenna. Eric Nichols, KL7AJ will discuss the profound differences between the requirements of transmitting and receiving antennas, and how to optimize antennas for reception. As the overall noise floor in the HF band steadily increases, the deployment of well designed, low-noise receiving antennas will be increasingly important. Exciting new technologies make small, effective receiving antennas possible and practical."
- Sunday, May 20, 2018 9:15 -10:15 Room 4 Bicycle Mobile Hams of America (The 28th Annual BMHA forum at Hamvention)**
Moderator: Mike Nickolaus, NF0N

Bicycle Mobile Hams of America got its start in 1989 when a QST article by Hartley Alley, NAOA asked hams who operate their radios while bicycle-mobile to get together and form a group. BMHA hosts a website along with the BMHA Yahoo Groups forum.

Mike Nickolaus: NF0N : Review of 2018 BMHA Bicycle Trail Ride

Steve D'Amico: KC8QVO : Bicycle setup and overview of some of his trips. Steve will have his bike and demonstrate his gear and show ergonomic tips for all day trips. He will show some pictures of the trips he has done.

We plan to have bicycle mobile displays and demonstrations of each will be conducted.

Sunday, May 20, 2018 10:30 – 11:30 Room 1 Secure Energy Forum
Speaker: Bob Bruninga, WB4APR

Solar, wind, batteries and electric cars are revolutionizing the home energy considerations for the Radio Amateur. Just in the last ten years, home grid-tie solar now costs less than half the utility, The average cost of the 35 Electric Cars now on the market with incentives now costs several thousand dollars less than the average gas car. And with the Tesla Gigafactory, now energy storage for the home is becoming practical. These all contribute to energy security for the home and ham shack but it is not your father's 60 Hz legacy iron boat anchors any more. For example, the engine/generator in a simple Prius is rated at 50,000 Watts. Home solar is typically 5 to 10 kW.. Come learn about what you can do to incorporate new energy into your home and shack.

Sunday, May 20, 2018 10:30 – 11:30 Room 2 The "Portable Magnetic Loop Antenna" Forum
Speaker: PY1AHD ALEX - Alexandre Grimberg

Magnetic Loop antennas exist for more than 100 years and Alex decided design the Portable Magnetic Loop Antenna for a simple then ever outdoor antenna operation, and as the ultimate solution for the antenna restricted hams. For over 15 years of intense work Alex was challenged to break 5 unbeatable technical paradigms to create the first Portable Magnetic Loop Antenna The world famous AlexLoop.

All those 15 years of the Portable Magnetic Loop Antenna research and development challenges will be compacted on a 50 minutes presentation which will bring to the audience technical information and a lot of fun. Five short duration videos will be presented including some exotic projects such as the Coke Loop - <http://www.alexloop.com/artigo36.html> "