



Special Program Activities

What's New!

Excellent talks keep on rolling in. This update includes talks by Flex Radio and Gary Young, K2AJY of the Coast Guard Auxiliary, Jay N4GAA (see below), and VE2EQL. AMSAT and YCCC folks have firmed up their agendas, see the Abstract section for more detail. At this point we have only slots open for Sunday. If you would like to contribute to the Sunday program, please contact WO1N at ARRL dot NET.

Invasion of the New York HAMS!

Check out the Hudson Division Forum put on by the Hudson Division Director, Joyce Birmingham, KA2ANF in the Board Room at 11:00AM. Let's hope they keep the Yankee's caps to a minimum.

Jay is Back!

Back by popular demand, long time convention supporter Jay Ferron, N4GAA has signed up with a talk on Windows 8. Always a good take as Jay is one of those Microsoft insiders and he's got the badges to prove it!



The W1SJ Weekend Ham Radio Class is Back!

HAM RADIO TECHNICIAN COURSE held right at the Convention. Class runs Friday evening (6 PM – 9 PM) and Saturday (8:30 AM – 1 PM). VE Exams are available at end of course. Students must enroll PRIOR to class. Students will receive course materials prior to class day. For full course details and enrollment information, go to: <http://www.hamclass.net/boxham.htm> Get your Ham License and join the fun!

DX Dinner – Friday Evening August 24th, 6:30 PM Cocktails, 7:00 PM Dinner – Colonial Room

The YCCC is lining up a great session for the DX Dinner. Dennis, W1UE, will be the emcee and the man in charge of the door prizes. The featured speaker is Don Greenbaum, N1DG talking about his VP8ORK DXpedition Experience. Seating is limited, you must pre-order your banquet tickets, on-line, choosing between Chicken or Fish so that we provide an accurate head count for the catering services.

W1A – All Weekend....

W1A coordinator Mike Bernock, N1IW will again assemble a world class station aimed to break the 2010 Convention QSO Record. He is going to need help for the best operators out there to do it. Sign up early, Sign up often. Keep the station on the air!

Convention Banquet – Saturday Evening, August 25th, 7 – 10 PM – Federal Room

Please join the convention staff for a relaxing evening where we recognize some of New England's best and brightest Hams for their achievements and accomplishments. Our special guest, Geoff Foxx promises to keep us entertained. Ed Deichler, K2TE our convention prize chairman assures us there will be a nice door prize for this event. Note, you must pre-order your banquet tickets, on-line so that we may provide an accurate headcount for the hotel food service folks.

Friday, August 24th						
Room	Parade	Federal	Colonial	Terrace	Cotillion	Greenwood
13:00	Vendor Exhibit Setup (Closed to Public)					
14:00					SkyWARN – In Depth Earn your Spotter ID Card! Rob Macedo – KD1CY	
15:00						
16:00					W1A Station Operation Contact Mike Bernock – N1IW for station operating opportunities!	
17:00						
18:00				Cocktails		
19:00				DX Dinner Featuring Don Greenbaum – N1DG		License Class Mitch Stern – W1SJ (Pre-Registration Required)
20:00						
Seating			350	125	72	60

Saturday, August 25th

Room	Parade	Federal	Colonial	Seminar	Cotillion	Directors	Board	Greenw`d	Deck
09:00	Vendor Exhibits Open	Committee Use	WRTC 2014 July Debriefing Doug Grant – K1DG	MA Interoperable Program Mike Neilsen – W1MPN	DC Power Systems QRO to QRP John Grow – VE2EQL	(Open)	Committee Use	License Class 8:30 AM – 1:00PM Mitch Stern – W1SJ (Pre-Registration Required)	Committee Use
10:00		Advanced Receiver Tools for DXing	Coast Guard Auxiliary Gary Young – K2AJY	9/11 – A 10 Year Retrospective Steve Schwarm – W3EVE	AMSAT Barry Baines – WD4ASW	Stealth Antennas Eric Falkof – K1NUN	Hudson Div. Forum Joyce Birmingham KA2ANF		VE Session I 10 AM Start
11:00		Elecraft Eric Swartz WA6HHQ	Cloaking and the Invisible Ham Chip Cohen – W1YW	SKYWARN Rob Macedo - KD1CY	Tony Monteiro - AA2TX Ernie Bauer – N1AEW	Design of Direct-Digital VFOs Jim Hagerty - WA1FFL			
12:00		Advances in SDR Greg Jurrens – K5GJ	Intro to Antenna and Vector Network Analyzers Greg Algieri – WA1JXR	SEC Forum Rob Macedo - KD1CY	GEMOTO Bill Barber – NE1B Rick Zach – K1RJZ	Electrical Safety S. Kerchel - AA4AK	YL's at Noon Anne Manna - WB1ARU, WRONE, YLRL		
13:00		YCCC Meeting Open to all WRTC2014	ARRL Forum I Tom Frenaye - K1KI M. Raisbeck - K1TWF	NESMC Annual Meeting Bob McCormick W1QA	Linux in the HamShack Andy Stewart - KB1OIQ	Bora Bora DXpedition Fred and Anita Kemmerer – AB1OC / AB1QB	Committee Use	VE Session II 1 PM Start	
14:00		6 Band BPF Rolling your own HF Triplexer	Antenna Myths - The Antenna System Efficiency Quest David Allred – N1VU	Area Repeater Owners Working Session Terry Stader – KA8SCP	Backup Power in the HamShack John Kalotai – N1OLO	Efficient Portable Vert. Ant. for 40/75 M Jacques Audet – VE2AZX			
15:00		Eimac the Magnificent!	AM Forum Tim Smith – WA1HLR	NEQRP Carl Achin – WA1ZCQ Low Cost Rigs Kit Building Field Operations Efficient Antenna Designs	SteppIR Maintenance and Repair Workshop Mike Bernock – N1IW	Windows 8 Preview Jay Ferron – N4GAA			
16:00						(Open)			
Seating			350	125	72	100	40	15	14

Sunday August 26 th							
Room	Parade	Federal	Colonial	Seminar	Cotillion	Directors	Deck
09:00							
10:00	Vendor Exhibits Open	(Open)	QCWA Forum Skip Swenson – WB6VVA	(Open)	MARS Forum (Open to All)	(Open)	VE Session
11:00			DISAPPEARING HAM RADIO HISTORY: Hope for the Future ! Tom Perera – W1TP	Power Pole Workshop John Kalotai – N1OLO	Bob Veth – K1RJV	(Open)	
12:00			ARRL Forum II Tom Frenaye - K1KI M. Raisbeck - K1TWF	Meteor Scatter Mike Bernock – N1IW	How to Run a 1x1 Special Event S. Kercel – AA4AK		
13:00		Hotel Room Reconfig / Setup Prize Program Setup Ticket Exchange / Seating					
14:00		Convention Prize Program and Wrap Up					
Seating		350	125	72	100	40	40

Abstracts

Seminar Room – Friday

Boxboro SKYWARN Training Class (SKYWARN In-Depth)

Seminar Room, Friday August 24th, 2012 from 1:00-4:00 PM

Rob Macedo, KD1CY

The training class will go over the cloud formations associated with severe thunderstorms and tornadoes and describe reportable and severe weather criteria. The class will also cover winter storms, river, stream and urban flooding from various types of storms as well as coastal flooding. Hurricanes are very briefly touched on during the presentation.

This class is an in-depth 2.5 to 3 hour SKYWARN Training class using training materials as provided by the National Weather Service Forecast Office in Taunton Massachusetts and videos made by Amateur Radio SKYWARN Spotters. This training allows you to become an official SKYWARN weather spotter with the National Weather Service. If you are from the NWS Taunton coverage area (all of Massachusetts except for Berkshire County), Cheshire and Hillsborough counties of Southern New Hampshire, Rhode Island or Hartford, Tolland and Windham Counties of Northern Connecticut, you will receive a spotter ID card for the class. If you're not from the NWS Taunton coverage area or do not spend a considerable amount of time in the NWS Taunton coverage area, you will still receive credit for becoming a SKYWARN trained spotter. The NWS Taunton forecast office will forward the information to the weather office that covers your portion of New England and they will add you to their database as a SKYWARN trained spotter and send you a spotter ID card from their weather office via US mail or electronically.

Training materials and handouts are provided for the class but a notebook and a pen/pencil may be helpful to have during the class.

Seminar Room - Saturday

MA Interoperable Program

Seminar Room, Saturday Aug. 25, 9 -10

Michael Neilsen, W1MPN

Lately, we have been hearing that Amateur Radio (AR) is no longer relevant or needed in today's emergency communication (EMCOMM) matrix. Have the advances in technology and availability of funding ensuring that the goal for robust, sophisticated, and inoperable communications for our public safety and communities been achieved?

Mike, W1MPN, is the MA State RACES Officer and also serves as the Non-governmental (NGO) representative to the Statewide Interoperable Executive Committee (SIEC), reporting to the Executive Office of Public Safety and Security (EOPSS) for the program implementation. Mike will explain the significant changes in our government agencies EMMCOMM capabilities, and how AR is will be utilized. Mike will also describe the nationwide initiative for establishment of Auxiliary Communication Service (ACS) and its implementation in New England.

SKYWARN

Seminar Room, Saturday Aug. 25, 11 – 12

Rob Macedo, KD1CY

This presentation will feature the NWS Taunton SKYWARN program and how operations at NWS Taunton unfold, what is expected from the Amateur Radio community during SKYWARN activations, when SKYWARN training is offered to Amateur Radio Operators and the public and an overview of past significant events across the NWS Taunton County Warning Area since the last Boxboro New England Division Convention. In the presentation, we will also briefly cover how the SKYWARN program will support operations during hurricane net activations if required. This will be a great presentation for those who are very experienced in SKYWARN right down through those that are new to SKYWARN and would like to learn more about the program.

SEC Forum

Seminar Room, Saturday Aug. 25, 12 – 1

Rob Macedo, KD1CY

This will be an opportunity for ARES Section Emergency Coordinator's from across New England to be able to give a high-level overview of their program and what has been accomplished in their program since the last Boxboro New England Division Convention. This may include an overview of all the work done since the last hamfest or may be a specific aspect of their section's program that they are working to complete or have completed. It will also be an opportunity for ARES SEC's to share their experiences with those that attend and to answer any questions concerning the ARES program for their perspective area. The forum is slated to be helpful to all Amateurs with varying amount of experience in the ARES program.

New England QRP

Seminar Room, Saturday Aug. 25th 3 – 5

Carl Achin, WA1ZCQ

Welcome and introduction to low power, low cost rigs and kits to get on the air with. (10 minutes) Followed by two 20 minute talks (possibly, three 13 minute talks) on associated and/or related topics. Usually field operations related, stressing ease and simplicity of temporary antennas that are highly efficient, and easily deployed. Building kits is always a big theme in the QRP community with virtually hundreds of low priced kits that are full-ranged, from, beginner level, to, expert level+ (SMT type, SDR, & TFR's) in complexity. Fun of operating, both at home and in the field, is stressed, and any age, any level, is a 'mantra' in all the presentations.

NEQRP has been around for decades, and our club motto is: "The Excitement Is Building...." (Double meaning.) We have over 735 members, and have meetings and club activities quarterly. We sponsor a yearly QRP on-air contest, have a weekly HF net, and have sold thousands of kits worldwide over the years.

Here's a little history and background on the club: <http://newenglandqrp.org/node/516>

Federal Room – Saturday

Advanced Receiver Tools for DXing – Theory and Application in the K3

Federal Room, Saturday Aug. 25, 10 - 12

Eric Swartz - WA6HHQ

Co-founder and Chief Operating Officer, Elecraft

Eric is the co-founder and Chief Operating Officer of Elecraft, Inc., which he started with Wayne Burdick, N6KR, Elecraft's Chief Technical Officer, in 1998. Licensed since 1971, Eric credits his early interest in Amateur Radio with leading him to a career in electronic design and management. He is a veteran of Silicon Valley and has a B.S. in Engineering and Applied Science from Yale University. He is a self described 'entrepreneurial addict' and has been involved in a number of successful high tech start ups, most recently before Elecraft, as co-founder and President of Verisys Inc., a leading manufacturer of SCSI protocol analyzers for the computer industry.

Advances in SDR – Flex Radio

Federal Room, Saturday Aug. 25 12 – 1

Greg Jurrens – K5GJ

Yankee Clipper Contest Club Forums

Federal Room, Saturday Aug. 25 1 - 5

Dennis Egan – W1UE

Scheduled speakers include K1DG regarding WRTC2014 organizing progress and results of the WRTC style test run held this past summer. Lee, N1BA will be updating his progress and findings on the YCCC 6 Band Pass Filter project. Dennis, W1UE will be doing a short presentation on "rolling your own" WRTC Triplexers. A special appearance by "Eimac the Magnificent" has been promised if time allows. It should be a busy 3-4 hours!

All Hams are invited to the meeting, particularly if you are interested in Contesting and Radio Sport. We hope to see you there!

Directors Room - Saturday

Stealth Antennas (and Hidden HAM Radio)

Directors Room, Saturday Aug. 25, 10 - 11

Eric Falkof, K1NUN

A 45 minute presentation that will show you some of the problems, what you can do and the tools you can use, even for those of us who share common walls with our neighbors.

Design and Applications of Direct Digital VFO's

Directors Room, Saturday Aug 25, 11 - 12

Jim Hagerty, WA1FFL

Hagerty Radio Co.

Direct-Digital Synthesizers, or DDS, have taken the place of LC oscillators in most modern radio equipment. Jim Hagerty, WA1FFL (Hagerty Radio Co.), has been building these devices for more than 10 years. Jim will talk about how to build and use them. Jim will describe some of the more challenging and interesting aspects of putting a DDS system together for your equipment.

Electrical Safety

Directors Room, Saturday Aug. 25, 12-1

Steve Kerchel, PhD, PE- AA4AK

Steve will discuss electrical safety practices in Amateur Radio

Steve has been an electrical engineer for 39 years, was a Development Engineer in the Electromagnetic Compatibility Group at Oak Ridge National Laboratory, and has over 100 technical publications. He was first licensed as a ham in 1964.

Bora Bora DXpedition, Planning and Execution

Directors Room, Saturday Aug. 25 1 - 2

Fred and Anita Kemmerer, AB1OC / AB1QB

Fred (AB1OC) and Anita (AB1QB) talk about their recent DXpedition to Bora Bora, French Polynesia. They will share information about and pictures of Bora Bora and they will talk about the planning that they did to prepare for the DXpedition and what they took. They will also share information about their station and operations in Bora Bora including details about propagation and the type and location of the contacts that they made. Finally, they will discuss the approach they took for confirming contacts and QSL'ing as well as what they learned from the experience.

Efficient Portable Vertical Antenna for 75M and 40M

Directors Room, Saturday Aug. 25, 2 - 3

Jacques Audet, VE2AZX

This presentation describes the work done in designing and building an efficient vertical antenna that can be used in clear spots, near the water, to enhance its performance for DX operations. It uses elevated radials and an umbrella that serves as a capacitive hat to cover the 75m band. Modeling results are also shown as well as measured data compared to a standard car rooftop vertical. Variations in the basic design are explored with actual component values shown.

Jacques is a retired EE. He worked mostly in test engineering at Nortel on a number of products and components operating from dc to light-wave frequencies. His areas of interest are in RF simulations, filters, duplexers, antennas and using computers to develop new test techniques in measurement and data processing. web site: ve2azx.net

Cotillion Room - Saturday

DC Power Systems QRO to QRP

Cotillion Room Saturday, Aug. 25th 9 – 10

John Grow, VE2EQL

John will discuss all the details of current battery technologies and its charging for use in Amateur Radio. Topics will include, selecting the right batteries, DC Monitoring, Battery Charging, Wiring & protection circuits. These applications will be good for QRO @ (= < 200 Watts) operators to QRP including, Man-pack applications.

VE2EQL, has been a long time QRP'er and experimenter. John has been involved with DC Power systems for the past 15 years. He is responsible for Sales in the United States for RIC Electronics, a North American manufacturer of Industrial Battery Chargers, DC to DC converters, Inverters, Transformers, and Low - Medium voltage Switchgear. John's website is www.ricelectronics.com . To get an ideal of John's experience, check out <http://www.eham.net/articles/1299>

AMSAT

Cotillion Room Saturday, Aug. 25th 10 - 12

Barry Baines, WD4ASW, Tony Monteiro, AA2TX, Ernie Bauer, N1AEW

Barry Baines, WD4ASW, AMSAT President, will present the AMSAT Status Report highlighting recent activities within AMSAT, and discuss some of the challenges and accomplishments of the organization. Tony Monteiro, AA2TX, AMSAT VP-Engineering, will discuss the design and status of Project-FOX, and the ongoing university collaborations. Finally Ernie Bauer, N1AEW, the AMSAT Area Coordinator will present an Introduction to Amateur Radio Satellites, providing an overview on the basics on getting started in using the current "fleet" of amateur radio satellites.

GEMOTO Group

Cotillion Room, Saturday Aug. 25th, 12 - 1

Bill Barber, NE1B and Rick Zach, K1RJZ

DMR is an open standard, non-proprietary digital mode supported by many commercial two-way radio vendors worldwide. And maybe soon some amateur-oriented vendors? Existing commercial vendors range from Tait in New Zealand to Motorola as MotoTrbo. GE-heir Harris markets the Hytera-manufactured product from China. How does DMR present itself to ham radio operations? Are local DMR repeaters available (yes!)? Can they be linked worldwide (yes!)? Is this just another interesting form of D-Star? No! DMR for hams is for real and it is operational in New England now.

Bill Barber, NE1B is a recently-retired system engineer for a very well known two-way radio manufacturer. Bill will share his technical and practical expertise from both a commercial system engineer and a long time, repeater-building ham.

Rick Zach, K1RJZ is one of the area's "mover and shakers" when it comes to Digital Mobile communications.

Linux and Ham Radio

Cotillion Room, Saturday Aug. 25th, 1 - 2

Andy Stewart, KB1OIQ

Discussions regarding Linux and Ham Radio. This well received presentation is back by popular demand in an even larger room this year. Please fill it up!

Andy, KB1OIQ is President of PART and a major player in the Linux / Ham Radio world with programs to his credit such as FL_MoxGen and aa-analyzer. Andy is a local resident and the father of two great hams KB1USE and KB1PZG.

Backup Power For Your Station

Cotillion Room, Saturday, Aug 25th 2 - 3

John Kalotai, N1OLO
HamSource.Com

John will lead a discussion of various backup power sources for your station. Included will be the use of generators, UPS, solar, wind and battery. He will also talk about how to plan your power requirements for a 24 hour outage.

SteppIR Maintenance and Repair Workshop

Cotillion Room, Saturday Aug. 25th, 3 – 4:30

Mike Bernock, N1IW

Mike will offer hands on demonstrations of SteppIR component maintenance. Review of recent upgrades. Experience and tech tip sharing.

Mike, N1IW is an early adopter of the SteppIR antenna solutions. Mike was instrumental in getting SteppIR to the Boxboro convention in the early years and is a strong advocate of the antenna solutions provided by SteppIR. Mike's SteppIR's have endured several New England ice storms without problem.

Colonial Room – Saturday

WRTC 2014 – July 2012 Event Debrief

Colonial Room, Saturday Aug. 25, 9 – 10

Doug Grant, K1DG

This meeting is invite only for the WRTC July 2012 demo team participants. Lessons learned, RBN and SDR results will be reviewed. 2013 planning will begin.

Coast Guard Auxiliary

Colonial Room, Saturday Aug. 25, 10 – 11

Gary Young, K2AJY

Gary will briefly explain that the Auxiliary is one of three parts of "Team Coast Guard", and that the group is a part of Homeland Security. Gary will describe the departments, one of which is communications, along with aviation and surface operations, under the Response Group. The talk will cover the communications program, i.e. HF nets, SHARES, something called AUXMON (a monitoring task), VHF repeaters, etc. Finally, Gary will relate the Auxiliary's participation in the Mid-West Floods, Katrina, Deep Water Horizon, 9/11 and radio watch-standing at Coast Guard Stations to name a few.

Gary, K2AJY is the National Branch Chief for Radio Telecommunications Integration and the First District-North, Communications Officer for the CG Auxiliary.

CLOAKING AND THE INVISIBLE HAM

Colonial Room, Saturday Aug. 25, 11 - 12

Chip Cohen, W1YW

Over the last 100 years, radio amateurs have contributed to the background that led to the first wideband invisibility cloak (works at microwaves). Here I trace the ancestry and describe the future. Are cloaks any good today? Come see a tower/mast section disappear at microwaves, and think about co-site and other issues at antenna farms, and cloaking benefits such as taking coax out of your power pattern; better ground systems; and more. In the near future the prospect for real invisibility cloaks at infrared and visible light is almost certain, and improvements in fidelity will lead to a very different world, a spin off of ham-genuity. Are we ready for it? **Come see the Demo!**

Chip Cohen, W1YW was first licensed in 1966 and has achieved #1 DXCC Honor Roll; 8BDXCC; Public Service Commendation; contest wins; moonbounce; and just plain rag chewing. Today he awaits Ol Man Sol to get active but in the meantime he is experimenting away in an antenna/electronics lab building tomorrow's technologies. An inventor with 3 dozen patents, he holds a Ph.D. in astrophysics from Cornell; is a retired BU professor; and is widely known for his work on gravitational lenses, and fractal antennas. He is CEO of Fractal Antenna Systems in Waltham.

Introduction to Antenna and Vector Network Analyzers

Colonial Room, Saturday Aug. 25, 12 – 1

Greg Algieri, WA1JXR

This presentation will present a look inside and provide an understanding of how Antenna Analyzers work as well as the various Antenna measurements they can perform. The talk will be centered around the popular MFJ 259B Antenna analyzer, and provide several live demos of Antennas and Transmission line measurements.

In addition the presentation will include a introduction to the Vector Network Analyzer (VNA), a fairly new piece of test equipment to the Amateur Radio Hobby. The VNA provides enhanced two-port measurement capability of both Amplitude and Phase for measurement of Antenna systems as well as Filters, Traps, Stubs etc. The presentation will include description of how the VNA works inside as well as several live demos of Antennas, Traps, Filters, etc using the SDR-kits DG8SAQ VNWA

Greg is a Senior Principal Electrical Engineer for Raytheon Co. designing RADAR systems for 35 years and has been a Ham Radio Operator since 1967.

Antenna Myths - The Antenna System Efficiency Quest

Colonial Room, Saturday Aug. 25, 2 – 3

J. David Allred, N1VU

What can you do to make your antenna system efficient? How much of the power that leaves your transmitter goes where you want it to go? Which watts wind up where? And, of course, which of the Antenna Myths will interfere with your efforts to make improvements?

There are plenty of claims for methods or hardware that will increase efficiency. But, what really makes a difference in your antenna system efficiency? Low SWR? High radiation resistance? Exact length for resonance? Best conjugate match? Fat coax? Fat elements? Ladder line? Antenna wax?

We will look at your transmitter's RF output as it makes the trip to its intended destination (probably Rare DX). Along the way, we will refute a few Antenna Myths to discover what will, and what won't, make a positive contribution to your antenna system efficiency, which measurements are most helpful, and how to get the most improvement for the least cost.

David Allred, N1VU, has been having fun with antennas for a very long time. He has worked in electronics for broadcasting, research, industry, and the military. More recently, he founded and runs Photon, Inc. in Cambridge, providing computer systems, networking, and Apple technology consulting services for businesses and other organizations. Photon also helps clients with antenna related work in systems, design, testing, training, and installation. David spends time on HF with SSB and CW when he isn't modifying his K3 or building new antennas. He is a member of the Harvard Wireless Club, QRP ARCI, RSGB, and ARRL.

Sunday – Seminar Room

Power Pole Workshop

Seminar Room, Sunday Aug. 26th, 11 - 1

John Kalotai, N1OLO

HamSource.Com

John will present a hands-on workshop using various tools to assemble Anderson PowerPoles including Hints and Kinks.

Sunday – Colonial Room

QCWA Forum

Colonial Room, Sunday Aug. 26th, 10 - 11

Skip Swenson, WB6VVA

This year's forum will include: A brief overview of the history and purpose of the organization, a summary of activities occurring at the national level, and an opportunity to hear from some of the New England chapters. We hope to see you there! - Skip Swenson, National Director, Quarter Century Wireless Association.

DISAPPEARING HAM RADIO HISTORY: Hope for the Future !

Colonial Room, Sunday Aug. 26, 11 - 12

Tom Perera, W1TP

Remember a company called Heathkit? Remember Hallicrafters, Hammarlund, National and Collins? Remember the surplus military radios after WW-2? Remember Radio Row in New York City and how the World Trade Center took over all the surplus stores? Join Tom for a trip back to those days and see pictures and videos of what Ham Radio used to be. Then look to the present and future to see how some museums and Hamfests are helping to keep Ham Radio alive and well now and for future generations.

Tom, W1TP is a retired professor who specializes in the History of Enciphered Military Communications, and the Telegraph. He has published widely in these fields, maintains several online museums, and is well known to people who attend radio events from New England to Dayton and Germany. His knowledge, combined with 58 years experience as a licensed ham, makes this is a presentation you won't want to miss.

ARRL Forum II

Colonial Room, Sunday Aug. 26th, 12 - 1

Tom Frenaye, K1KI / Mike Raisbeck, K1TWF

Your chance to pass along your feedback on how the League is doing protecting our valuable resource.

Sunday – Cotillion Room

MARS Forum

Cotillion Room, Sunday Aug. 26 10 – 12

Bob Veth, K1RJV

All are welcome to an open meeting of the MARS operating groups.

Meteor Scatter

Cotillion Room, Sunday Aug. 26 12 – 1

Mike Bernock, N1IW

Mike will share his Meteor Scatter experience with a detailed talk on the use of the WSJT software, best practices and biggest challenges. Mike's talk comes complete with spectrum displays captured from his operating setup.

Mike, N1IW enjoys many aspects of the hobby, with contesting, meteor scatter and digital communications high on his list of favorites. Check out Mike at any of his two Boxboro talks or stop by the W1A station where he will be parked most of the weekend when he is not giving a talk.

Sunday – Directors Room

How to Run a 1x1 Special Event Station

Directors Room, Sunday Aug. 26, 12 – 1

Steve Kerchel, PhD, PE- AA4AK

This forum covers some of the practicalities of running your own special event station, including procedures for obtaining a 1X1 callsign, accessing free publicity, QSLing, and coordinating ham operations with the non-ham organizers of events. Illustrative material will be included from his operations as N1P (August 2007 - 400th anniversary of the Popham Colony), N1R (May 2009 - 100th Anniversary of Midcoast Chapter of the Red Cross) and N1R (May 2012 - Brunswick ME Relay for Life)."