

FRIDAY May 14th

9:15 a.m. - 11:15 a.m	TAPR Moderator: Steven Bible, N7HPR	Room 1
11:30 a.m. - 12:30 a.m	APRS <i>Automatic Position Reporting System</i> Moderator: Bob Bruninga, WB4APR Speakers: "New Byonics APRS Products", Byon Garrabrant, N6BG "New VHS Products APRS Products", Allen Lord, AF60F "New Argent Systems APRS Products", Scott Miller, N1VG "New RPC Electronics APRS Products", Jason Rausch, KE4NYV "Other Advances in APRS from the floor"	Room 1
12:45 p.m. - 2:15 p.m	D-Star Moderator: Greg Sarratt, W4OZK Speakers: "DVAP / DV Dongle / D-PLUS / Multiple software packages", Robin Cutshaw, AA4RC Presentation will introduce the DV Access Point Dongle (DVAP) and show DV Dongle improvements, capabilities and use. In addition a D-PLUS update, new hardware, software and advanced networking opportunities. "Home-brew D-STAR repeater", David Lake, G4ULF Presentation will show a home-brew D-STAR repeater that was developing David, G4ULF, with the K5TIT team over the last 18 months. This system is 100% compatible with ICOM's G2 network, plus running all the "usual" D-STAR add-ons such as AA4RC's D-Plus. This home-brew D-STAR repeater was an article in the February 2010 issue of RadCom. "D-RATS, D-STAR digital data software", Dan Smith, KK7DS Presentation will review the new D-RATS and other software for data communications using D-STAR radios. It will provide an explanation of available features, enhancements including file transfers, messages, mapping, Winlink 2000 and e-mail support. The use of D-RATS in emergency communications will be covered as well past experiences using it in coordinated drills with served agencies. In addition, future plans for D-RATS features and a discussion of additional usage scenarios.	Room 1
2:30 p.m. - 5:00 p.m. Moderator:	Antennas Moderator: Tim Duffy, K3LRARRL Speakers: "Is Your Antenna Properly Insured" Ray Fallen, ND8L "The 8 Vertical Receiving Array" Joel Harrison, W5ZN and Bob McGwier, N4HY "Exotic Antenna Pattern Measurements" Greg Ordy, W8WWV "What's New at SteppIR" Mike Mertel, K7IR	Room 1

9:15 a.m. - 10:45 a.m.	ARRL Public Relations Forum Moderator: Allen Pitts, W1AGP	Room 2
11:00 a.m. - 12:00 p.m.	Fox Hunting Moderator: Dick Arnett, WB4SUV	Room 2
12:15 p.m. - 2:15 p.m.	BalloonSat Moderator: Bill Brown, WB8ELK Speakers: "Digital Modes for Amateur Radio High Altitude Balloons", Bill Brown, WB8ELK "Arizona Near Space Research - Amateur Ballooning in Arizona", Jack Crabtree, W7JLC "EOSS: Twenty years of high altitude ballooning in Colorado", Nick Hanks, N0LP "Successful integration of amateur radio ballooning into a liberal arts college", Pete Sias, N0OY, "SSTV Aboard ARBONET High Altitude Balloon Flights", Doug Loughmiller, W5BL "NASA Glenn Explorer Post BalloonSat flights", Dave Snyder, Cliff Ahrens, K0CA	Room 2
2:30 p.m. -3:45p.m.	ARRL Lab: Power-Line Noise Moderator: Ed Hare, W1RFI, from the ARRL Headquarters staff ARRL Lab Manager Ed Hare, W1RFI, explains what power line noise is, how to differentiate power-line noise from other noise sources, and how to work with your power company, ARRL and the FCC to get it fixed. He also describes how ARRL is working with the FCC and the power industry on possible long-term solutions to prevent power-line noise before it happens.	Room 2
4:00 p.m. - 5:00 p.m.	County Hunting Moderator: Tim Eklin, W8JJ Speakers: "What is County Hunting?" Leo Bingham, WY7LL Forum features a 20 minute video covering the full range of county hunting topics, techniques, and information about earning the prestigious worked all counties award sponsored by CQ Magazine. Exciting new awards", Randy Hatt, AA8R Forum provide an update of club happenings from Randy prospective as a regional director and highlights the exciting new awards that are now available.	Room 2
9:15 a.m. - 10:15 a.m.	HAARP Moderator: Dr Paul Bernhardt, KF4FOR HAARP stands for The High Frequency Active Auroral Research Program. The goal of this program is to further advance our knowledge of the physical and electrical properties of the Earth's ionosphere which can affect our military and civilian communication and navigation systems. The HAARP program operates a world-class ionospheric research facility located in Gakona, Alaska.	Room 3

10:30 a.m. - 12:00 p.m.	<p>Teacher Workshop</p> <p>If you plan to work with kids in ham radio, or already have a young people's class or group, you won't want to miss this forum. Come hear well known Industry professionals, as well as teachers, share their exciting ideas and suggestions about recruiting, teaching, and working with young adults.</p> <p>Moderator: Carole Perry, WB2MGP</p> <p>Speakers:</p> <p>“The Influence of Teachers and Ham Radio on My Career ” Bob Heil K9EID</p> <p>“The Role of The Instructors In Working With Kids. Gordon West WB6NOA</p> <p>“A School Radio Club—A Quarter Century in the Waiting” Jim Mayercak WX8J</p> <p>“Murphy's Law of Middle School Parents and Administrators.” Jim Hendershot WA6VQP</p>	Room 3
12:15 p.m. - 1:45 p.m.	<p>Ham Radio and the Law</p> <p><i>Getting It Up & Keeping It Up</i></p> <p>Moderator: Jim O'Connell ,W9WU, ARRL Volunteer Counsel</p> <p>Speakers: Fred Hopengarten, K1VR, Author: Antenna Zoning for the Radio Amateur Paula Uscian, K9IR, ARRL Volunteer Counsel Cliff Ahrens, K0CA ARRL Midwest Division Director and Chairman of the ARRL Legal Defense and Antenna Assistance Committee.</p> <p>A discussion by amateur radio attorneys on legal issues of interest to hams: how to avoid restrictive covenants, how to present your case for a tower permit, and information on the latest court rulings on RFI, PRB-1 and towers.</p> <p>Updates on the ARRL's Legal Defense and Antenna Assistance Committee.</p>	Room 3
2:00 p.m. - 3:30 p.m.	<p>Add-on DSP Speakers— Live Demos</p> <p>Moderator: Gordon West, WB6NOA</p> <p>Gordon West brings in the latest add-on DSP speakers from ClearSpeech and bhi , and lets the audience judge which ones hush the noise best . Gordo describes how they can sniff out propagation beacons , and a blast off with the new 10 watters just announced at Hamvention. Finally, some of the DSP manufacturers will be on hand, to go one on one, and to give away a DSP door prize to one lucky ham . Gordo, will of course, poke a little fun during these demos !</p>	Room 3
3:45 p.m. - 5:00 p.m.	<p>Techniques of the Best Operators</p> <p>Moderator: Mitch Stern, W1SJ</p>	Room 3
9:15 a.m. - 10:15 a.m	<p>QRP: Why Should I Try It</p> <p><i>Utilizing five watts or less</i></p> <p>Moderator: Ken Evans, W4DU</p> <p>Speakers: “Getting started with QRP” Rich Arland, K7SZ</p>	Room 5

Rich will explain where to find information on these small simple QRP rigs that you can buy and/or build. You will also learn how many hams have worked the world using this gear. Anyone interested in having over 300 DXCC confirmed using one watt and simple receivers? Come and see how it's done and join in on doing more with less.

10:30 a.m. - 11:30 a.m.

Antennas—The Final Frontier

Room 5

Moderator: Frank J. Beafore, WS8B

With amateur radio equipment becoming very complex and difficult to service, the average ham has much less opportunity to build simple systems that enhance their station and operating efficiency. Antennas, on the other hand, are easy to fabricate and add a lot to the effectiveness of an average radio station. Based on a simple theory and basic mathematics, very efficient antennas can be designed and built

This forum will introduce the participants to the history and basic theory of the design and building of a variety of antenna systems. Everyone will leave with enough knowledge to build their own, antenna system, which will give them the pride of conquering radio's "last radio frontier".

11:45 a.m. - 12:45 p.m.

Kit Building

Room 5

Moderator: Joe Eisenberg, K0NEB

DZ Kits Brian Wood, W0DZ

Hendricks Kits: Doug Hendricks, KI6DS

Elecraft Wayne Burdick, N6KR

1:00 p.m. - 2:15 p.m.

YLRL

Room 5

Moderator: Cheryl Muhr, N0WBV

Speakers: Nancy Rabel-Hall, KC4IYD/8,
Anne Manna, WB1ARU

Young Ladies' Radio League will present this forum especially for licensed women hams and women who are interested in learning more about our hobby from the women's point of view. All presenters are past Presidents of Young Ladies' Radio League who will be speaking on the efforts of YLRL to connect women in the hobby with one another. Topics will include nets, web pages, publications and conventions. There will be door prizes.

2:30 p.m. - 5:00 p.m.

SDR

Room 5

Moderator: Bob McGwier, N4HY

SATURDAY May 15th

9:15 a.m. - 12:15 p.m.

Youth Forum

Room 1

You won't want to miss this one!

Moderator: Carole Perry, WB2MGP

Come join the fun and share the pride by attending this forum to support our talented young speakers. Bring kids who are with you to inspire them to join the fun of being a youth in ham radio. Kids will get to meet other young hams, and we'll all be treated to hear from Gordon West WB6NOA and Bob Heil K9EID. Co-sponsors this year are ICOM, MFJ, L'Anse Creuse ARC, Radio Club of America, Heil Sound, and Gordon West, The W5YI Group and Kenwood..

For the very first time....ADULTS will have their own drawing for an ICOM 7200 hf rig!!!! You must be present to win!

The Kids:

Nate Anderson, KD0JAV, age 14	Boulder, Colorado
"Hams Save Lives With Skywarn."	
Brady Gordon, KD0BJS, age 10	Boulder Colorado
"Digital Modes—QSO's Below the Noise level."	
Andrew Koenig, KE5GDB, age 16	Houston, Texas
"Youth and Amateur Radio Satellites."	
Randy Mitchell, KJ6BXV, age 11	Ojai, California
"Beginning in Ham Radio and Starting a Youth Net."	
Joey Freeland, KD0HFZ, age 15	Central City, Iowa
"My First Year: Exploring Hobbies Within the Hobby"	
Josh Gerard, KC8ZOW, age 16,	
Caleb Pratt, KD8CPK age 15 and Ben Veltman, KD8GBY,	
age 16 from ARGYL (amateur radio group of youth in Lowell)	
"Build it Yourself."	Lowell, Michigan
Jeff Onan, KD8KUR, age 16 and Bob Schreur, KD8IJI, age 16	
from ARGYL, Amateur Radio Group of Youth from	
Lowell, Michigan "Building a Good Club."	Lowell, Michigan

To pay tribute to the amateur radio clubs that do so much to enhance the hobby and service, there will be representatives speaking from the following clubs:

L'Anse Creuse ARC; Dr. Henry Catherino, N8AT

BARC Jr; Steve Meer, K0SCC

Ojai Valley ARC; Wayne Francis, W6OEU, President

You will not want to miss an exciting announcement about a Youth DX Adventure by Dave Kalter KB8OCP and Don Dubon N6JRL

12:30 p.m. - 2:30 p.m.

Contesting

Room 1

Moderator: Doug Grant, K1DG

Speakers: "Building a Texas-size Contest Station"

Don Daso, K4ZA; John Crovelli, W2GD;
George Demontrond, NR5M
"A Century of Contesting Down Under" - Chris Platt, VK5CP
"Countdown to WRTC 2010" - speaker TBA
"How to Become a 50 wpm CW Wizard" - Cal Darula, K0DXC

2:45 p.m. - 5:00 p.m.

DX

Room 1

Moderator: Don Dubon, N6JRL

Speakers:

"Midway Island DX Pediton", Tom Harrell, N4XP/K4M

"Chesterfield Islands DX Pediton", George Wallner, AA7JV/TX3A

"Iraq DX Pediton", Paul Ewing, N6PSE/YI9PSE

9:15 a.m. - 10:15 a.m

SATERN

Room 2

Salvation Army Team Emergency Radio Network

Haiti following the January 12 earthquake

Moderator: Ken Panczyk, W9KMP

Speaker: Mr. Bill Shillington, W9ZCL; Central Territory SATERN Coordinator
Major Shirran will begin the SATERN forum presentation with an overview of the response to Haiti in the first 11 days following the January 12 earthquake. He will set the scene for the event with some history, then move to The Salvation Army's initial response with personnel and resources. He will also focus on communications on the ground, including SATERN/ Amateur Radio response during the initial stages of the international response to the crisis.

He will then present the second phase of Haitian relief efforts: logistics of food and water distribution and solving of various security problems.

10:30 a.m. - 11:30 a.m

Drake

Room 2

Moderator: Evan Rolek, K9SQG

Restoring, enhancing, or upgrading Drake equipment...the choices are yours

"Pieces, parts, and places", Mark Gilger, WB0IQK.

"Adapting the L4B linear to modern rigs, plus some cosmetics", Evan Rolek, K9SQG.

"C-line PTO improvements and maintenance: why the C-line still belongs in your arsenal", Rob Sherwood, NC0B.

"Ask the Experts: Questions & Answers", Jeff Covelli, WA8SAJ, Mark Gilger, WB0IQK, and Gary Poland, W8PU.

FREE prize drawing including Drake memorabilia, Sue, our "Lady of Luck".

11:45 a.m. - 2:00 p.m.

Newsline Town Hall Meeting

Room 2

AMATEUR RADIO AS A WAY TO FIND (OR KEEP)

A JOB IN TODAYS SHRINKING JOB MARKET

Moderator: Bill Pasternak, WA6ITF; Amateur Radio Newsline, Inc. - Los Angeles, CA. (Fox Television Stations / KTTV - Retired)

Sponsored by the Amateur Radio Newsline, Inc.

With the United States and world economies still in a downward spiral,

and jobs getting scarcer by the day, this year's "Ham Radio Town Meeting" will deal with the topic of how an amateur radio license might get you a job—or at least a job interview and/or how to use your amateur license to keep a job you might now have. It will do this by attempting to answer these questions:

- How do you make a potential employer more aware of the value of employing a ham?
- How do you impress a potential employer with your skills gained through amateur radio?
- What do you do if the company you are working for closes its doors?

To accomplish this, we are assembling a group of speakers who have "been there and done that" over the years and who, thanks to holding an Amateur Service license have been able to weather more than one financial storm.

We will not have all the answers, but hopefully we will at least be able to give you some general guidance in gaining employment or keeping a job as unemployment continues to rise.

Speakers: *Speakers subject to change at this time.*

Diana Eng, KA2UHB - Fashion Designer of Electronic Integrated Clothing - NYC, N.Y. - Integrates electronics into clothing design. Diana is also a former Project Runway contestant. Diana also produces and hosts on-line videos explaining the various aspects of electronics and communications.

Bob Heil, K9EID-Heil Sound Ltd., Fairview Heights, IL, says that he is : "A Poster Child For Ham Radio." His interest in radio and electronics as a "kid ham" brought him success in sound reinforcement, equipment design, home theater design and now as the designer / manufacturer of the latest generation in high performance microphones for the broadcasting, recording and live sound industries, as well as amateur radio.

Steve Mendelsohn, W2ML- ABC Television NYC, NY - Ham radio has gotten him every job he's ever had—including network engineering positions at CBS and ABC. Steve is the first to tell you that all of this happened because he got interested in ham radio as a teen.

Rich Moseson, W2VU - Editor - CQ Magazine - Bloomfield, N.J. His first big break was at CBS-TV where his ham license helped him get a job on In The News. His second big break was when his ham license got him the position as founding editor of CQ-VHF. And the rest is history.

Allen Pitts, WIAGP - Media Realizations ARRL - Newington CT. - Allen came to the ARRL after a three-year stint as executive director of The Box Project Inc—a national, member-based charity that matches volunteers with families needing help. For eight years prior to that, he directed a multi-program human services agency that, among other things, was responsible for emergency shelters, transitional living, a court alternative sanctions program, emergency food services and an AIDS respite program. He also has many years experience as a senior therapist in hospital psychiatry settings.

Bob Sherman, K2SJP - Aircraft Radio Engineer (retired) - Tampa FL - An amazing ham radio double career story: Out of trade school his ham license got him an avionics tech position with Pan Am. He was on the

verge of retirement when the airline folded— leaving him without a job or a pension. His ham license got him a job and second career at FedEx from which he recently retired.

Note: Door prizes will be drawn between speakers and at the end of the session. You must be present to win.

- | | | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2:15 p.m. - 3:15 p.m. | Ham Radio Workbenches
Moderator: Dino Papas, KL0S
This presentation is intended to examine building a ham radio workbench from the basic to the advanced and to help stimulate interest in the technical side of ham radio. The presenter's hope is that those in attendance will come away with a better understanding of how they can put together their own ham workbenches by learning more about the tools and test equipment available to them, both for maintaining their stations and antennas and in homebrewing their own gear. | Room 2 |
| 3:30 p.m. - 5:00 p.m. | ATV (Fast Scan Amateur Television)
Moderator: Art Towslee, WA8RMC—"ATCO repeater update"
Speakers:
"Dress up for live demos" Gordon West, WB6NOA
"Philadelphia, PA repeater update" Ron Cohen, K3ZKO
"ATN California repeater update and ATVQ Magazine"
Mike Collis, WA6SVT
and Bill Brown, WB8ELK
"Grand Rapids, Mich repeater update"
Ron Fredricks, K8DMR
"Dayton, Ohio repeater update" Jess Nicely, KB8OFF
"An Amateur's Life in ATV/Image Communications"
Ralph Taggart, WB8DQT) | Room 2 |
| 9:15 a.m. - 10:15 a.m. | FCC EmComm (Emergency Communications)
Moderator: Bill Cross, W3TN (Wireless telecom FCC)
Speaker: Curt Bartholomew, N3GQ.(Homeland Security FCC) | Room 3 |
| 10:30 a.m. - 11:45 a.m. | ARRL Lab: Antenna Modeling and Propagation Prediction Software
Moderator: Ed Hare, W1RFI, from the ARRL Headquarters staff.
An introduction to using propagation and antenna modeling software to answer common antenna questions and to plan and build the best antenna for you! | Room 3 |
| 12:00 p.m. - 1:00 p.m. | RTTY Contesting
Moderator: Shelby Summerville, K4WW
RTTY contesting from the Stanford University Amateur Radio Club station, W6YX.
The Stanford University club station W6YX has a history dating back to the 1920's, but participation in RTTY only began in 2001. Improvements in equipment, operating techniques, and in the number of skilled operators have lead to rapidly improving contest scores, and a number of First Place | Room 3 |

finishes in NAQP RTTY. Our speaker, Stanford alumni and club member Mark Aaker, K6UFO, will discuss how the changes occurred, and how the lessons learned can help individuals, and other school and club stations, increase their enjoyment of RTTY and RTTY contesting.

- | | | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1:15 to 2:15 | ARRL Member Forum | Room 3 |
| | Moderator: Jim Weaver, K8JE, ARRL Director—Great Lakes Division | |
| 2:30 p.m. - 3:30 p.m. | Amateur Radio Emergency Service® (ARES) | Room 3 |
| | Moderator: Jack Sovik, KB8WPZ, ARRL Ohio Section
Emergency Coordinator | |
| | Speaker: Allen Pitts, W1AGP, ARRL Media and Public
Relations Manager | |
| 3:45 p.m. - 5:00 p.m. | Maintaining Your Collins Ham Radio Equipment | Room 3 |
| | Moderator: David Knepper, W3ST/W3CR
Secretary of the Collins Radio Association. | |
| | Speakers: Ted Craven, W5USI,
Factory Service Representative for Collins
Amateur Radio Equipment, Collins Radio Company. | |
| 9:15 a.m. - 11:00 a.m | VHF/UHF/Microwave | Room 5 |
| | Moderator: Michael Schulsinger, N8QHV &
Red Dakin, W8ULC | |
| | Speakers: "AML Amplifier Update", Richard Frey, WA2AAU
"Data Antennas", Kent Britain, WA5VJB
"Achieving DXCC at Microwave", Sam Jewell, G4DDK/W5DDK | |
| 11:15 a.m. - 1:30 p.m. | AMSAT | Room 5 |
| | Moderator: Alan Biddle, WA4SCA | |
| | Speakers: Barry Baines, WD4ASW, AMSAT President
Drew Glasbrenner, KO4MA, AMSAT VP of Operations
Gould Smith, WA4SXM, Project Manager, AMSAT
ARISSat-1
Alex Harvilchuck, N3NP, a Systems Engineer with IBM | |
| | "AMSAT Status Report" What is happening within AMSAT? Barry will highlight current activities within AMSAT and discuss some of the challenges facing the organization. | |
| | "AMSAT Satellite Operations and International Satellite Operations". Drew will discuss operational AMSAT satellites as well as update on new and future International Satellites. | |
| | "Getting ARISSat-1 Ready to Fly". Gould will talk about the current status of the satellite project, testing and the delivery of two satellites to Russia in July. | |
| | "NextGen CubeSat Program Update". Alex is the NextGen CubeSat Program Manager and will be providing an update on the Program. A team of Binghamton University engineering students have been modifying the power systems from ARISSat-1 for use in a 3U CubeSat, with a U/V linear transponder, for AMSAT. | |

1:45 p.m. - 3:00 p.m.

SSTV

The Most Spectacular Mobile Slow Scan Installation Ever

Room 5

Moderator: Don Miller, W9NTP

Speaker: Stephen Smith, WA8LMF

Stephen will show slides of his electronic car which features not only SSTV, but also GPS and other electronic setups operating from his car. There will be a field trip to his nearby parked car. This will give the audience a chance to see this remarkable car and to question how he accomplishes these things.

3:15 p.m. - to 5:00 p.m.

Combined MARS

Room 5

Military Auxiliary Radio System

Moderator: Ronald Jakubowski, (MAJ, AUS-Retired),
AAA9AR/K2RJ

Speakers: MAJ Scott Hedberg, AD7MI

Jim Aylward, AAM5EOH (KC8PD)

“The History of MARS” MAJ Scott Hedberg, AD7MI,
School of Advanced Military Studies, Command & General
Staff College, Ft. Leavenworth, KS

This presentation explains conditions that lead to the creation of the Army Amateur Radio System (AARS) in 1925 and how the AARS developed through the US entry into WWII. Throughout this 15 year period the predecessor to MARS demonstrated a great deal of diversity in what it could accomplish as an organization. From providing direct communications support to Army units in the field and augmentation of the War Department's Radio Network to providing a vital communications link for CCC camps during the Depression as well as fulfilling a primary emergency communications role to state and federal officials, AARS proved itself as an adaptable organization that was capable of providing a range of communication services based on the requirements of the government. These historical themes serve as a "bridge" to present day doctrine.

“Updates from the Chiefs”

The Chiefs of the three services of MARS, Army, Air Force and Navy-Marine Corps. will provide an update on the progress and changes occurring through the past year and looking ahead to the next year.

“Emergency Planning – From the Bottom-Up”

Jim Aylward, Ohio Army MARS Emergency Coordinator (AAM5EOH),
Portage County RACES Radio Officer, EC ARES or Portage

County, President, Portage County Amateur Radio Service (KC8PD)

Jim will briefly explain the process of coordinating various local and regional agencies with MARS and the Amateur Service by leveraging the unique services each can provide. He will also present some practical ideas on preparedness and how to provision a “go-kit.”

SUNDAY May 16th

- 9:15 a.m. - 10:15 a.m.** **Red Cross** **Room 1**
Greater Erie County Red Cross Chapter
Moderator: Dan Miller, K3UFG
Speakers: Judy Miller, K1UFG
 Duane Whittingham, N9SSN
The Greater Erie County (PA) Chapter of the American Red Cross is quickly establishing themselves as "W3ERC - The EmComm Voice of the Tri-State Area. We may well be the only Chapter in the world with a Verizon cell tower on our premises that sports a 4-element Tri-bander on top at 110' and VHF/UHF vertical antennas at the 50' level. Currently, our communications room has: VHF/UHF Voice, VHF APRS, VHF RMS Winlink, HF Voice/Digital (10 thru 80M), and EchoLink. We are presently pursuing NBEMS as well. In addition to our annual Chamfest, regularly held licensing classes and upgrade classes, we offer EmComm EC-001 and are preparing to do a regional Red Cross Exercise this year. Please join us to share your strengths and weaknesses as we continue to improve Red Cross Chapter communications capabilities.
- 10:30 a.m. - 11:30 a.m.** **Demo of a Synchronous Rotary 500 W Spark Gap Transmitter** **Room 1**
A Fantastic Journey Back To Our Roots"!
Moderator: Jim Stafford, W4QO
Speakers: Wes Lamboley, W3WL & Hal Kennedy, N4GG.
Stop by and smell the ozone from Blue Lightning"
- 9:15 a.m. - 10:15 a.m.** **ARRL Resources for Radio Clubs** **Room 2**
Moderator: Norm Fusaro, W3IZ and
 Maria Somma, AB1FM, from the ARRL Headquarters staff
- 10:30 a.m. - 11:30 a.m.** **QCWA** **Room 2**
Moderator: Bob Roske, N0UF
Speakers:
 Vice President Ken Oelke VE6AFO
 Secretary Walt Supina N3WS
 Frank Harris WA4PAM
 President Emeritus Harry Dannals W2HD
 Past President John Johnston W3BE
 Baldy Baldwin , W0OLF
 Val Erwin W5PUT
 Carolyn Harrison , WATROUS
 Tony Hirsch W8RSH
 Larry McCalvy, WA9JMO
 Bill Pasternak, WA6ITF
 Ken Simpson, W8EK
- 9:15 a.m. - 10:15 a.m.** **Hamming in Hong Kong** **Room 3**
In Hong Kong (and China), every day is an adventure!

Moderator: Dan Van Hoy, VR2HF/K7DAN)

Join Dan for an insightful and colorful look at life in the largest country in the world from a ham's perspective. You'll also get a fresh report on the state of amateur radio and clubs in Hong Kong, China and the rest of Asia. Dan will have lots of pictures and stories to share and will host a Q&A session.

10:30 a.m. - 11:30 a.m.

**An introduction to the Arduino for
Amateur Radio Applications**

Room 3

Moderator: Jim Kvochick, WB8AZP

Introduction to Arduino for Ham Radio Operators will provide a brief introduction to the Open Source hardware and software components that make up a programming platform that have already supported thousands of electronic hobbyists in applying microprocessor technologies to hundreds of avocations.

The flexibility and low cost of this environment makes it a perfect candidate for 100's of uses around the ham shack.

There will be ample time for questions and discussion after the presentation. Additionally, there will be a small raffle (winner must be present) after the session.

9:30 a.m. - 11:15 a.m.

Bicycle Mobile

Room 5

The 20th Annual BMHA forum at Hamvention

Moderator: Mike Nickolaus, NF0N

Speakers: Barry Bogart, VE7VIE/WV2J
Arnie Grubbs, KA0NCR
Norm Huber, N9ZKS

Hams of America got its start in 1989 when a QST article by Hartley Alley, NA0A 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.

Our featured speaker is Barry Bogart is an experienced tourist and will be on tour while attending the Hamvention. Barry is riding his folding bike and will be demonstrating his setup complete with APRS.

Norm Huber is our newsletter editor and will be showing his newsletter ideas. Arn Grubbs, will be reviewing his Hamvention ride.

We will also will have bicycle mobiles on display.