



CAARA Newsletter



CAPE ANN AMATEUR RADIO ASSOCIATION

JUNE 2014 EDITION

President's Desk by Stan-W4HIX



May 2014

It always amazes me how long it takes me to get back on track after a trip. There's always a bunch of things that have to be resolved. Anyway, I've started the Field Day planning in earnest, and thanks to a bunch of folks with deep experience, we've got the technical bits of radios and antennas pretty much nailed down. The next step is getting the rest of the gear—feedlines, masts, guy lines, AC power cords, tents, etc. all checked out, inventoried and neatly packed in the trailer.

We're doing a little work on the trailer—we're added some shelving to the bulkhead wall in the main compartment. These shelves will be adjustable and 7½' long and 2' wide. They can be used as bunk beds if necessary. These shelves should get a lot of gear off of the floor of the trailer, improving the overall organization.

I've worked up a list of local government officials that are being invited to Field Day—some 20+ names. I want them to see the kind of operation we can mount if asked. We've also invited 180 hams—CAARA members and non-members—from Gloucester, Rockport, Manchester, Essex and Ipswich to stop by and say hello. I want to fill up our guest book this year.

With all of preparation, we'll need folks for setup on Friday, Operations on Saturday and Sunday and teardown on Sunday afternoon. If you can spare any time, please let me know. You don't have to attend the whole event, but your contributions make a big difference.

In may spare time, I've updated the CAARA calendar. You'll find all of the events we support, and local events run by NSRA. CAARAnet net control operators are listed on the nights they are assigned. If you have an event, let me know, or

Roger, KB1YTJ. If you can't find the calendar, let Dick Ober Know (dick@K1VRA.com) and he'll get you into the member's area of the website.

73 de Stan, W4HIX
stan@w4hix.com

Information Desk by Dean-KB1PGH



I remember back in 2007 when I got my ham license ther were rumblings in the ham community that by eliminating the morse code requirement for licensing that it would lead to chaos in the bands and the eventual end to morse code as we know it. Well it is 2014 and the world still spins and the art of morse code is alive and well on Cape Ann! The Seafarers radio group, led by Rick Maybury WZ1B, recently held their celebration luncheon ceremony where several morse code operator awards were handed out. The CW classes started in January and were held every Saturday until the end of April. The following amateur radio operators were awarded the following awards. Larry Beaulieu AJ1Z and Bob Edwards AB1LT were both awarded the Certified Master CW Operator award for 20 WPM solid copy and sending. Ruth Hodsdon WW1N was awarded Certified CW Operator with 13 WPM copy and Gardner Winchester KA1BTK earned the Novice CW Operator award with 5 WPM copy. Overall there were 14 students who took part during the class. The complete irony in all this is that everyone of those who won an award is a "non code" licensed ham! So I hope some of the "old timers" take the time to congratulate these "Newbies" for taking the time to learn and promote the art of morse code on the ham bands. Moving on the next obvious ham

radio event coming up is the "ARRL Field Day" event which is coming up at the end of June on Saturday June 28th and Sunday June 29th. CAARA will be holding theirs at the Fuller School Fields as the same as the past 3 years. the Amateur



CAARA Newsletter
Cape Ann Amateur Radio Association
6 Stanwood Street
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CAARA Newsletter is a monthly publication of the Cape Ann Amateur Radio Association (CAARA). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to CAARA members, and space is available. Material is accepted on a first come, first serve basis. Articles and other materials may be submitted by internet to Jon at k1tp@arrl.net. If possible, material should be in Word format. Material may also be submitted as hard copy to Jon-K1TP or any Club Officer.

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Jon Cunningham- K1TP Editor
Dean Burgess- KB1PGH Reporter

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Welcome to CAARA:

CAARA, an ARRL affiliated club, operates the 2 meter W1GLO repeater on 145.130 MHz with antennas located on the Cingular tower in the Blackburn Industrial Complex in Gloucester Massachusetts. It has an average effective radius of 60 miles, and serves Eastern Massachusetts, Cape Cod, Rhode Island, Southern New Hampshire, and maritime mobile stations. CAARA also operates the W1GLO repeater on 224.900. The former W1RK 443.700 repeater with antennas located in Magnolia is now located at the CAARA clubhouse and has a very limited range.

The Association is one of the few amateur radio clubs that has its own clubhouse. Located at 6 Stanwood Street in Gloucester, it includes a permanent HF station with rotating beam and vertical antenna along with a 2 meter packet station and 2 meter voice and 220 MHz transceivers.

Amateur radio exams are held on the second Sunday of each month at 10:00AM at the CAARA clubhouse. Anyone who is considering a new license or an upgrade, is welcome to test with us. There is no pre-registration necessary. Contact the head of our VE team Bob Quinn if you have any questions about monthly testing. Monthly member meetings are held on the first wednesday of each month at 7:30 PM except for July and August

Each Sunday evening at 9:00pm, the club operates a 2 meter net on 145.130. This is an open and informal net which disseminates club news and prepares operators for emergency communications work. All are invited to check into the net as club membership is not a requirement.

New! The club is open every Tuesday from 4-8PM for CAARA members to stop by and socialize, as well as use the extensive collection of ham radio gear.

Information Desk

by *Dean-KB1PGH*



Radio Relay League promotes this yearly event as a combination emergency communications exercise and public relations event. The main goal though is to get radio active, learn about portable HF operations and to have FUN!! If you have not attended field day yet I highly recommend it. You can find more about field day on the ARRL website at www.arrl.org. You can also find other field day sites through their locator if you are unable to make it out to the island of Gloucester. For July we have both the 2014 World Radio Team Championships here in Massachusetts and the 100 ARRL Anniversary Convention which will be held in Connecticut so those are two very big events to keep hams busy during the summer. One a final note on the CQ Magazine drama I finally received a "Double Issue" of CQ Magazine which covered both March and April. I quoted double issue because it really was just one issue with single articles instead of two for each month-whatever, at least I actually got a print issue from them. Now we'll see when the May issue arrives, as of this writing on My 10th no magazine yet, maybe I'll get it by Labor day!

See you next month and keep on hamming!

CAARA Public service round up for May
Several members of the Cape Ann Amateur Radio Association's emergency communications group provided a total of 20 hours of volunteer public service as they provided health and welfare communications to more than the 300 runners and children who ran the Motif #1 5K Road race and 1 Mile fun run in Rockport on Saturday May 17th 2014. The following hams assisted in this event which is a fundraiser for the Rockport Public Schools:

AA3JE, Curtis Wright, Tail Car
W4HIX, Stan Stone, Race Organizer
KB1VST, Nate Dewolf, Race Course
KB1YTJ, Roger Smith, Race Course
W1RAB, Ross Burton, Race Course
K1TP, Jon Cunningham, Race Course
KA1BTK, Gardy Winchester Race, Course

I have a great little Icom 718 HF RIG for sale with LDG autotuner for just \$575.00.....last chance to own a one owner rig before I list it on Ebay.

A also have a Yaesu 897 HF rig for sale in beautiful condition with LDG autotuner. This rig is loaded with optional filters and has the optional built in 110 volt supply. If interested, contact me on the repeater.

Editor Roundup

by *Jon-K1TP*



Hi Guys!

The Beverly EMA 440 repeater is now up and running. This is a 100 watt Motorola Quantar located on the red and white checkered water tower just off 128 at Brimbal Avenue.

Frequency is 442.8500, 103.5 Receive

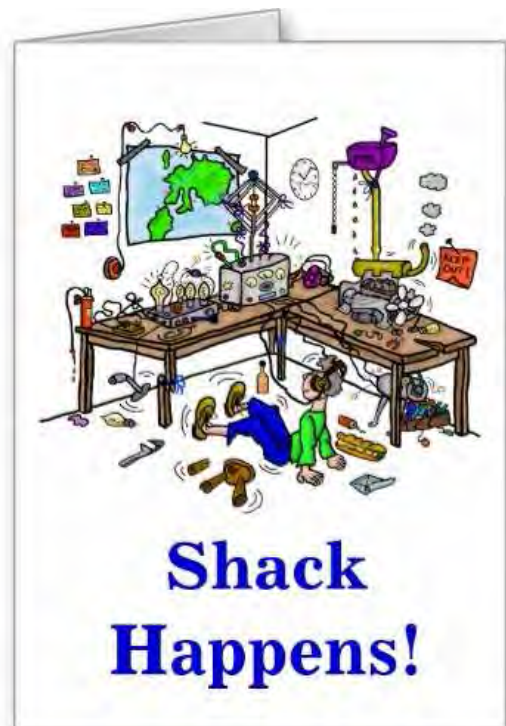
447.8500, 103.5 Transmit.

Please use this repeater as much and as often as possible.

Please let me know what the coverage is like in the Cape Ann area.

Please spread the word with all CAARA members.

Thanks & 73s Jim Hil -KA1PPM



WHAT'S GOING ON AT THE CAARA EMCOM CENTER?



Jon Cunningham, K1TP and I visited the CAARA 13 repeater site to run some tests. For those who have never been there, the shack is an amateur radio operator's dream-land! This is where it all happens with our 2-meter repeater.



Our system utilizes two antennas. As pictured, ours are the thinner ones on the left of the tower. The bottom antenna, just below the left microwave dish is the transmitting antenna while the receiving antenna is near the top of the tower, positioned directly above the bottom antenna for the greatest signal attenuation.

There are also 6 "cans" or filters to further keep the transmitted signal from opening the receiver and creating a feed-back loop. AT&T keeps the shack in neat order, a good example for any of us who mess about with communications electronics!

Submitted by Gardi-KB1BTK



A small group of hams from CAARA attended the last Nearfest Hamfest and set up a table and sold some excess gear for the club. There was still plenty of time to enjoy the exhibits, talks, and checking out the hundreds of tables selling literally anything you could want in our hobby.

Left: Jon - K1TP talking to Bob-W1GWU from Alton, NH. Bob is a living legend of ham knowledge and can fix just about anything. He has quite an impressive collection of test gear.....and he knows how to use it!



The van of Gardi- KA1BTK with Jake- W1LDL watching the CAARA fleamarket table. Jake actually sold all of the gear he brought up!



A picture of Nearfest Organizer and Chief- W1RC-Mike.

Mike joined our club not too long ago and we look forward to his many years of ham experience helping hams in the club.

Bath Time

by Curtis Wright- AA3JE

I always get in trouble with “free”. Every time. Every single stinking time.

About a year ago, my wife received a “thank you” package from someone she helped, and was not happy about some of the contents.

“SHE MEANT WELL, BUT THIS STUFF IS UNUSABLE”

I looked at the label, and it seemed a pretty ordinary jar of some kind of bubble bath.

“What’s wrong with it?” I asked.

“MUCH TOO HEAVILY PERFUMED.”

I opened the jar and sniffed at it. I could detect a faint floral odor, mild, not at all unpleasant.

“PUT THE COVER ON THAT STUFF RIGHT AWAY! IT SMELLS LIKE TWO-DOLLAR PERFUME!”

“They make two dollar perfume?”

I was stunned. The stuff she put on her Christmas list cost about a hundred times that.

“FORGET I SAID ANYTHING, GET RID OF IT.”

So I took it downstairs, and put it on the shelf to go to the swap shop. I forgot it for a while, and one Sunday morning, I happened to see it when I was on the way into the bath for a nice soak with a book. I opened the jar, tipped a few crystals in, and was delighted when they turned the

bathwater a bright blue. Pretty! With bubbles!

So I slugged in about an ounce, and enjoyed a hot soak, and felt as if I had really arrived. It was true that my family tended to stay upwind that afternoon, but they are all sort of prissy about smells anyway. Not one of them could pump out a septic tank without fussing about it.

The problem came when I went over to the club. A few of the older guys like myself were there, and one in particular was greatly offended. Hal was there. Hal had once spoken to a woman, had not liked the experience, and had perfected a defense consisting of body odor, diesel fuel, and halitosis. Anything female, (or anyone with a working nose or gag reflex), tended to keep Hal at arm’s length.

“What have you been doing?” he asked.

“Tried a new bath soap.”

“Pretty sissy, ain’t it?”

Now in this modern world, full of metrosexual innuendo and people who write best selling books about tying each other up and hitting each other with little sticks while taking their clothes off, this is not so bad.

In my world, calling someone “sissy” was a bad thing. So I dumped the jar down the toilet, and had a sweetly smelling septic field for weeks.

But I had liked the idea, so next Sunday I looked around (I bathe

EVERY WEEK, if I need it or not), and tried to find a manly scent. I found a bottle of liniment I had received for Christmas, which had a clean odor of cedar wood and camphor, so I tipped a few ounces into the steaming hot water.

Now this is the important part. Before trying this at home, READ THE ENTIRE LABEL first. I had not, and did not notice the ingredients included oleoresin capsicum. For the non pharmacists in the room, this is the active ingredient in “MACE” and “PEPPER SPRAY” and is volatile at room temperature, and ever so volatile in 140 degree bath water.

Suddenly my eyes started streaming, my throat started to close up, I started gagging, and grabbing a towel, fled up the stairs.

“WHAT ARE YOU DOING? PEOPLE CAN SEE IN HERE YOU KNOW. YOU ARE NOT PROPERLY..... WHAT’S THAT SMELL? OH GOD, I’M GOING TO BE SICK.....”

I led my gagging spouse to the porch, hoping I could carry off the notion that I had just come from the pool and had wrapped a towel around myself. This was not easy, since my beloved “SHE WHO MUST BE OBEYED” was making some pretty critical remarks and asking some pointed questions. Loud enough to alert most of Rockport.

“YOU PUT WHAT IN THE BATH WATER?”

“LINIMENT! ARE YOU AN IDIOT?”

“JUST ASK NEXT TIME.”



After a half-hour on the porch our eyes stopped streaming, we could both breathe, and I could go back inside, get the gas mask (if you live in our house, you own one), set up the blower fans and cleared up the problem.

Take a tip from an old salt- skip the bubble bath if you are male and over 60.

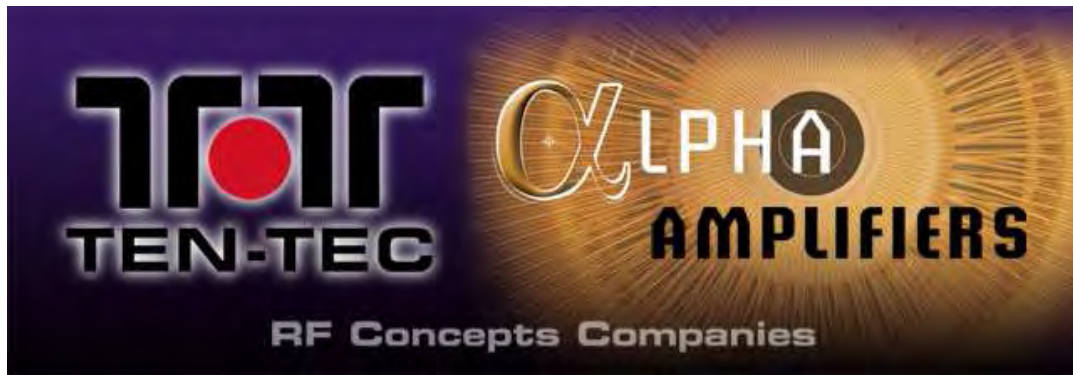


RANDOM SHOTS

A picture of Ross- W1RAB looking at the camera while up at Nearfest.

Below: A meeting of the minds at the repeater site checking out the antenna and duplexers.





Alpha Amplifiers and TEN-TEC Merge Under RF Concepts Banner LONGMONT, Colo.- May 9, 2014 - Announcing today the merger of Longmont, Colorado - based RF Concepts LLC / Alpha Amplifiers and Sevierville, Tenn.-based TEN-TEC Inc., RF Concepts Chairman Michael Seedman, AA6DY, declared the union the perfect combination of amateur radio brands. The merger creates a multi-million-dollar company with products that span QRP transceivers to full-legal-limit amplifiers and establishes an organization with the size and scale to continue to innovate into the next decade and beyond. RF Concepts/Alpha Amplifiers has been building amplifiers continuously since the early 1970s and has put more than 13,000 amplifiers in the hands of demanding amateur radio operators. Alpha Amplifiers are considered “the finest line of linear amplifiers in the world” by the ham community. TEN-TEC, founded in 1968, produces top-of-the-line receivers, transceivers, amplifiers and tuners and is known worldwide for the reliability and performance of its products.”For more than 40 years, Alpha Amplifiers and TEN-TEC have shared a reputation in the amateur radio market for offering exceptionally well-engineered, American-made products backed by extraordinary customer service,” said Seedman. “Alpha Amplifiers is

known for ‘key down performance,’ and TEN-TEC is known for pushing the boundaries of transceiver performance and capabilities. “The merger of these brands under the RF Concepts banner makes perfect sense,” added Seedman, “not only in terms of creating a powerful product line, but also in terms of positioning our company for the future. This merger more than doubles the size of our business allowing us to invest more capital in innovative engineering and customer-driven product development.” RF Concepts’ operations will now be shared between its Longmont Colorado facility and its Sevierville Tennessee facility. The company is currently seeking a new operations facility in the Sevierville area to more efficiently house factory operations, part of the engineering resources, and technical and customer support services. The Colorado facility will house engineering resources, technical and customer support services, and much of the front-office operations. Both Jim Wharton, NO4A, who in January of this year took the reins of TEN-TEC upon the retirement of founder Jack Burchfield, K4JU and Ken Long, N0QQ, who has been overseeing the operations at Alpha Amplifiers will be Presidents of their respective group, working together to build a strong, innovative company. “Ken and I have spent quite a bit of time

discussing our short- and long-term focus over the last few weeks and I feel our responsibilities are very clearly defined.”, said Wharton.”Jim and I have a lot of work to do to make sure the merging of these two brands goes as smoothly as possible.” added Long. The merger announcement comes just days before one of the signature amateur radio events in North America-the Dayton (Ohio) Hamvention-where more than 75,000 hams are expected to converge on the Hara Arena Complex to discover the latest innovations in amateur radio. Both Alpha Amplifiers and TEN-TEC will operate separate booths at this years show (May 16 - 18). Both booths will feature new products and special offers to commemorate the merger. At booths 209-210 in the North Hall, Alpha Amplifiers will be demonstrating the soon-to-be released DreamTuner 4040 Automatic Antenna Tuner, a graphically based, 4KW Autotuner. At booths 458-450 in the East Hall, TEN-TEC will unveil the Patriot, an open source, arduino-based SSB transceiver. **About RF Concepts/Alpha Amplifiers** RF Concepts/Alpha Amplifiers manufactures high-end linear amplifiers for ham radio enthusiasts. Based in Longmont, Colo., the company is known worldwide for its quality amplifiers. Alpha Amplifiers have been continuously manufactured in the

United States since the early 1970s. About TEN-TECTEN-TEC Inc. was founded in 1968 to provide beautifully engineered, well-crafted, well-supported and high-performing products to the amateur radio market. For 46 years the Sevierville, Tenn.-based company has passionately designed, crafted and tested premium products which have earned the company a solid reputation and loyal brand followers throughout the world.

SOLAR WIND MAY CONTRIBUTE TO LIGHTNING ON EARTH

A new study suggests the activity of the sun may have more of an influence on lightning storms on Earth than was previously thought. This, according to researchers at the University of Reading in England who found that when an especially fast-moving solar wind may be connected to an increase in the number of lightning storms recorded here on Earth. Amateur Radio Newslines's Heather Embee, KB3TZD, has the details: — According to meteorologists, lightning strikes the Earth about 4 million times a day. One theory on how it forms suggests that the gas in our atmosphere is electrified by cosmic rays. When our sun is in the most active part of its 11 year cycle, in theory its magnetic field is at its strongest and should account for fewer cosmic rays from entering our atmosphere. Based on this one would expect to see fewer lightning strikes at the peak of the solar cycle than at its low point. While previous studies have shown a negative or inverse correlation between solar activity and lightning over the long term, this latest research found just the opposite. As scientists looked at the

relationship between solar activity and lightning over a much shorter period of a few weeks they noted that when the sun was most active they did see a drop in cosmic rays. The big surprise was that they also noted a definite increase in amount of lightning. As part of the study, the scientists looked at the speed of the solar wind coming off the sun, which varies depending on which part of the sun is facing the Earth. When a fast solar wind swept over our home planet, the researchers found that the number of recorded lightning strikes actually went up. The exact cause of this phenomenon has yet to be determined, but one possibility is that charged particles from the sun are riding on extremely fast solar winds. While they don't move quite as quickly as the cosmic rays, they may move fast enough to serve the same function with the aid of a swift movement from the solar wind. If the theory eventually proves to be true, it could help weather forecasters to predict the likelihood of lightning storms in the future. This in turn could be a safety net to let hams and other two-way radio users know when they should lower their towers, make sure to disconnect all gear from both their antenna lead in cables and ground all connectors. Also that its time to disconnect their gear from the AC power lines coming into their homes.

ARRL Vice Director Agrees to Conditions to Resolve Conflict- of-Interest Situation

ARRL Rocky Mountain Vice Director Dwayne Allen, WY7FD, has agreed to stipulations spelled out by the ARRL Board of Directors to address a conflict-of-interest situation arising from the employment of his wife, Katie Allen,

WY7KRA, by CQ Communications Inc. Emphasizing that there had been no allegations of impropriety on the part of either Dwayne or Katie Allen, the ARRL Ethics & Elections Committee determined on April 24 that Katie Allen's March 28 appointment as Sales and Marketing Manager for CQ Communications Inc created a conflict of interest for her husband that would disqualify him from continuing to serve as a Vice Director. Katie Allen is the former ARRL Membership Manager and a present volunteer member of the ARRL Public Relations Committee.

Under the agreement, to which Dwayne Allen must adhere as long as his wife is employed by CQ Communications, Allen "will diligently recuse himself" from portions of any Board, Committee, or other ARRL meeting — including any discussion or votes — that pertain to ARRL advertising and marketing matters as well as to the ARRL Financial Plan as it relates to advertising and marketing matters. Allen also must recuse himself from "any other discussion or vote where a conflict of interest might arise" and abide by ARRL non-disclosure requirements.

According to the resolution, the board "may revisit the issue of a conflict of interest" involving Dwayne Allen, if the Ethics & Elections Committee feels he has failed to comply with the terms of board resolution.

The Ethics & Elections Committee's April 24 action marked the first application of a conflict of interest policy, adopted by the Board in July 2006 and contained in Bylaw 45, to a situation involving an elected ARRL official already in office.

A look at the Honda EU2000i portable Generator

by Dean KB1PGH

Well as you know I operate HF portable due to EMI conditions at my home. For the past few years I have been using deep cycle marine batteries to power my Icom 7000. Now don't get me wrong, it's great using quiet DC power with no RFI or EMI but when the battery runs out of juice that's the end of operating so I started to look into generators. Nowadays there are 3 major brands of portable generators out there that have inverters, Generac, Yamaha and Honda. Now I'm looking for a generator that puts out pure 60 HZ sine wave AC power that matches the same power off of the electrical grid coming into my home. If your operating sensitive electronic equipment like ham radios, computers and today's modern technology you need that pure 60 HZ sine wave to run that electronics. The cheap power inverters only produce a "Modified" sine wave which produce RFI and EMI and you'll hear it on the receiving end on HF. The Generac generator has a "Modified Sine Wave inverter" so that's out so I was left with the choice of the Honda and the Yamaha which both have the pure sine wave inverters. I went with the Honda EU2000i because of the great reviews on www.eham.net and the great reputation of Honda equipment. I also was able to get a great price of \$ 899.00 from www.mayberrys.com. Mayberrys is offering a discount to all ARRL members on the Honda 2000i because of all the emergency

communications ARES does. All you have to do is call and ask for the ARRL coupon discount code. Plus they offer free Fed Ex shipping and it's tax free!

So let's get to the facts of the Honda EU2000i portable generator. First it weighs in at just 47 pounds which is lighter than my 66 pound deep cycle battery! It has a GX 100 Honda Commercial grade, overhead cam, 3.5 HP 98 CC air cooled engine. It can run from at least 4 hours to as much as 9 hours on a single gallon of gas depending on AC load. It runs super quiet at 53 to 59 decibels which is quieter than normal speech! As you can see from the front panel it has

normal operation, overload and low oil. The generator has an automatic low oil shut off built in. You can also see a 20 amp circuit breaker as well. You can see the Eco Throttle switch which allows the generator to run slower and quieter on lighter AC loads to extend gas usage and extend engine life. You can also connect 2 Honda EU2000i's together with the parallel ports thus doubling your portable power! The motor runs on 10W 30 motor oil, I used Mobile 1 Synthetic oil for cooler running of the engine and better horsepower since it is air cooled. I purchased an aftermarket magnetic tip dipstick to catch any metal sludge during the



two 13.6 AMP 120Volt AC outlets that put out 2000 watts Max and 1600 rated power. It has a DC outlet where you can attach a jumper cable to charge car batteries at 8 amps unregulated power. Mayberrys supplied the cable for free with purchase of the generator, they also supplied a wrap around cover for free as well! The front panel also has a couple of indicator lights which show

break in period and oil change funnel to help with the oil changes. I also purchased a 5 gallon jug and pumped 93 octane with Marine Sta-bil gas preserver which counteracts the ethanol in the gas. As of this writing I only got to start it up and it runs really quiet. It was an easy start with engaging the choke, turning the Eco-throttle to "OFF", turning the gas cap vent to the on position, turning the

engine switch to the “On” position and giving the pull start a couple of times. I bought a 50 FT 15 AMP heavy duty outdoor cord so I can set the generator a safe distance away.

So the Honda EU2000i generator is built to last quite a few years. People are still running theirs from 2005 when Honda started making them. This generator is perfect for Amateur Radio Emergency Services communications, ARRL Field Day and every day HF portable operations. It has more than enough wattage to run 100 watt station. You could also use this for camping, RV’ing, running

power tools etc. I can also use this for home use to run a fridge, computer, Wi fi, modem, cable tv and television when the power goes out. The Honda EU2000i also comes with a 3 year warranty. I’m looking forward to using this during Field day. A few other CAARA members own this generator as well and the club owns the little brother Honda EU1000i. So if you’re looking for portable HF power and emergency back up home power I would say take a look at the Honda EU 2000i and don’t forget not to get sold short on cheaper models and models with inferior “Modified” sine wave technology.



New pirate stations in Ukraine conflict

Two CW stations have appeared on the higher HF bands, claiming to operate from Donetsk, as promoting a separatist ‘Peoples’ Republic of Donetsk’, or ‘NovoRossiya New Russia’.

The callsigns, **D0A** and **1C4M** are believed to be two operators on the same transmitter. The callsigns are invalid and do not count for anything in ham radio terms.

While a QSL manager may be

appointed shortly in Donetsk, communications are poor, and direct QSL is unlikely to succeed.

There is some doubt that the stations are really in Donetsk. There is evidence that they may be operating from Kazakhstan.

Win a free Wouxun KG-UV8D HT

AmateurRadio.com is giving away a free Wouxun KG-UV8D!

The new KG-UV8D 2M/440

handheld transceiver features 999 programmable channels, a large color LCD screen, full duplex and cross-band repeat, and much more!

This giveaway is open to all licensed amateur radio operators worldwide and includes free worldwide shipping.

To enter, visit the [giveaway page](#) and leave a comment.

You must enter by Tuesday, 3 June 2014 20:00 UTC to be eligible. For more information or to enter the drawing, visit [AmateurRadio.com](#)

SOME TIMES MANMADE RF CAN DRIVE YOU TO EXTREME MEASURES!

AFTER PAYING ATTENTION TO DETAIL AND RFI MITIGATION, MY NOISE FLOOR IS S ZERO. ZERO MAN MADE NOISE INGRESS! I USED FLEX FIX TAPE AVAILABLE AT HOME DEPOT ALL FEED LINES AND ROTOR CABLES HAVE MULTIPLE FLOATING SHIELDS (5) 8FEET LONG. EACH WRAP ISOLATED WITH NON INDUCTIVE MEDIUM (DUCT TAPE) .

73 Ray NR1R



DX News from the ARRL

FRANCE, TM. TM70BBC commemorates D-Day on the air from June 3 to 13. QSL via F5UOW. TM70UTAH marks the Allied landing on Utah Beach 70 years ago. They will be QRV from June 2 to 12 on 80 meters to 10GHz using CW, SSB, and digital modes. QSL via F5RJM, LoTW, Logs available on ClubLog.

MALAWI, 7Q. Look for Kenneth, LA7GIA to be QRV as 7Q7GIA from Lilongwe from May 31 to June 8 on 40 to 10 meters using CW and SSB.

QSL via home call.

GHANA, 9G. Arno, DL1CW will be QRV as 9G5ZZ until June 1 on 40 to 10 meters. This is a CW only expedition, with some occasional RTTY.

QSL via DL1CW. No LoTW, no eQSL.

TONGA, A3. Masa, JA0RQV is active until June 3 from Niuatoputapu

(OC-191) as A35JP/p on 80 to 6 meters using CW and SSB. QSL via home call, LoTW.

PANAMA, HP. Jose, HP2B (ex-HP2AT), Jose, HP2BWJ, Emilio, HP2E, Max, HP2EK and others will be QRV for the 100th anniversary of the Panama Canal as 3E100PC from June to August. QSL direct via HP2B, LoTW.

ALAND ISLANDS, OH0. Pasi, OH3WS will be active as OH0/OH3WS from May 31 to June 1. QSL via home call.

MARKET REEF, OJ. Pasi will then visit Market Reef from June 2 to 7.

He plans to be QRV during his free time as OJ0W on 40 to 10 meters using CW and some SSB. QSL via home call.

MICRONESIA, V6. Sho, JA7HMZ will be QRV as V63DX from Pohnpei (OC-010) from May 30 to June 5 on 80 to 6 meters. QSL via home call, direct only.

ALBANIA, ZA. Chris, PA2CHR will be active ZA/PA2CHR, on 6 and 2 meters, running 800W for EME, MS, ES, and TR, from May 31 to June 5. QSL via home call.

BELIZE, V3. Travis, AF6WU and Kjerstin, AF6KJ will be active as V31WU and V31DV, respectively, from Caye Caulker, NA-073, from June 9 to 15. Activity will be on the HF bands using SSB and PSK31. QSL both call signs via AF6WU, direct, by the Bureau, LoTW or eQSL.

ICELAND, TF. Gust, ON6KE will be operating holiday style as TF/ON6KE from June 27 to July 4 using JT65, SSB and CW, typically during his early mornings and evenings. QSL via LoTW and eQSL only.

MARIANA ISLANDS, KH0. Akira, AF1Y/KH0 will be QRV from June 4 to 6

from the Garapan Area of Saipan, on 20 to 6 meters using SSB. QSL via DU1/JH0CKF at the DU bureau.

ST. PIERRE MIQUELON, FP. Eric, FP/KV1J will be active from July 5 to 15. He plans to be on SSB, RTTY and some CW, on 80 to 10 meters and 6 meters if it opens. QSL direct or bureau to his home call, LoTW or eQSL.

CANADA, VC. Special call VC3JUNO will be QRV June 6 to July 31 to commemorate the 70th anniversary of the D-Day landings in Normandy, France. Juno was the codename for the beach that Canadian forces landed on. QSL on LoTW or direct or bureau to VE3JO.

ARUBA, P4. K5NOT, W5BL and W5LJW will sign P40TX, P40DL and P40LW, respectively, until June 4. They may also get the P40DM group call. Look for them on 20 to 12 meters as well as 10 and 6 meters if the MUF cooperates.

BURKINA FASO, XT2. Harald, DF2WO will be active as XT2AW from Ouagadougou between November 17 and December 2. Activity will be holiday style on CW and SSB. QSL via M0OXO

OPERATIONS APPROVED FOR DXCC CREDIT

The following operations are approved for DXCC credit:

Albania, ZA/IZ4JMA, 2013 and 2014 operations.

Laos, XW7T, 2014 operation.

SPECIAL EVENT STATIONS

W1AW Centennial Stations W1AW/0 in Missouri and W1AW/7 in Wyoming will be QRV until 2359z on June 3. In addition, W1AW Centennial Stations W1AW/4 in Alabama and W1AW/5 in Louisiana will be QRV starting at 0000z on June 4. They will be active until 2359z on June 10.

HAM RADIO IN SPACE: ITAR RESTRICTIONS ON US RADIO AMATEURS TO BE RELEASED

Some good news for United States hams and amateur radio groups involved in the development of ham radio satellites. ITAR regulations are being eased. Graham Kemp, VK4BB of the WIA news is here with the details: -- The International Traffic in Arms Regulations or ITAR inexplicably applies to amateur radio satellites. It threatens US radio hams with jail terms or six figure fines if they cooperate with amateurs outside the USA on satellite projects. Cooperation includes talking about or publishing on the web certain information regarding amateur radio satellite systems. Among the projects affected by ITAR has been the New Zealand Amateur Radio satellite KiwiSat. A 2009 IARU Region 3 report highlights that ITAR requirements made AMSAT-NA direct its members to cease operation with AMSAT-ZL in the development of Kiwi SAT. Satellite Today reports that after 15 years of restrictions and intense scrutiny, the United States Department of State is reclassifying satellites and several related components so they will no longer be treated as weapons. For the Amateur Radio Newline, I'm Graham Kemp, VK4BB, reporting from Brisbane, Australia. -- ITAR regulations were also partially responsible for AMSAT North America's cancellation several years ago of its Eagle ham-sat project because those same restrictions made it almost impossible to work with its international partners on this ambitious project. The new and less restrictive ITAR rule on satellites and related technology become effective this coming November 10th except for Selection 121.1, Category XV(d), which is effective June 27th. (WIA News, Satellite Today, lexology.com,

Southgate, others) **

DXCC: UKRANE CALLS CRIMEA A TEMPORARILLY OCCUPIED TERRITORY

Ukrainian Amateur Radio League says that it considers the Crimea as a temporarily occupied territory and that it should continue to be listed as a part of the Ukraine for ham radio awards purposes. In a May 3rd letter to the ARRL, the Ukrainian National Society noted that it strongly believes what it terms as the illegal referendum held in Crimea on March 16th and subsequent illegal annexation of the Crimea peninsula by the Russian Federation does not change the status of this territory. Back in March, the ARRL Awards Committee had evaluated the current situation in Crimea in light of the DXCC rules and determined that Crimea is not a DXCC entity. This was because neither Russia nor the Ukraine is a rare entity and the vast majority of confirmations used for DXCC credit for either entity do not involve Crimea. Now in a response to the Ukrainian Amateur Radio Leagues letter, ARRL Chief Executive Officer Dave Sumner, K1ZZ, acknowledged the Ukrainian society's position but reiterated the ARRL Awards Committee's determination that the annexation did not lend Crimea status as a new DXCC entity. (UARRL, ARRL, Southgate) **

RADIO LAW: OHIO COURT OF APPEALS DISMISSES SWANTON OHIO CHALLENGE

TO HAM RADIO TOWER Some good news for an Ohio ham. In a surprise move, the Ohio Sixth District Court of Appeals has dismissed an appeal from the Village of Swanton in an amateur radio antenna zoning case. The matter involves Gary Wodtke, WW8N, who has been try-

ing to erect a 60 foot antenna support structure on his residential lot since 2009. But Swanton had established a fixed antenna height of 20 feet above the residential roofline, and it turned down Wodtke's antenna variance application for the taller structure. On appeal in January, Wodtke won a final judgment in his favor in the Fulton County Common Pleas Court. The court ruled that federal and state law preempted Swanton's antenna ordinance. But the town had appealed that decision but this new ruling means that Swanton really has no place to go with this matter other than the possibility of it appealing to the Ohio Supreme Court. It should be noted that the ARRL was making ready to file a Friend of the Court Brief on Wodtke's behalf when this latest ruling was handed down. A detailed report on this decision is on line at the ARRL website at www.arrl.org. (ARRL Letter, Delara News, Delaware (Ohio) Amateur Radio Association)

SPECIAL AM NETS MARK D-DAY LANDINGS

Friday, June 6th marks the 70th anniversary of the Allied D- Day landings in Normandy, France. To commemorate this event the United Kingdom's Vintage and Military Amateur Radio Society is organizing a series of full carrier amplitude modulation nets on 80, 60 and 40 meters for operators of vintage military wireless gear that would have been in use at that time. These special AM nets will be open to all amateurs and joining stations are encouraged to undertake a little research beforehand, in order to provide a description of how their equipment type was used in Operation Overlord. The schedule times and frequencies for these net operations are 07.00 hours GMT on 3. 615

MHz, 11.00 UTC on 7.143 on MHz and 15.00 hours UTC on 5.317 MHz in those nations where operation on this 5 MHz frequency using full carrier AM is allowed. More about the sponsoring group is on the web at vmars.org.uk. (Southgate) **

ON THE AIR: COMMEMORATING D DAY IN FRANCE

On the air, two stations in France plan to be operational to commemorate the 70th anniversary of "D day" during the month of June. From June 6th to the 20th listen out for TM7JUN on 160 through 6 meters using CW, SSB, PSK, RTTY and JT65. QSL via F4GAJ. Also listen out for the special event callsign TM70BMC from June 5th to the 8th. This operation will be located atop Mont Canisy in France's Normandy Province. If you make contact QSL to FF5ILL via the bureau. (Various) **

DX UP FRONT: TX5K GETS THE 2013 BEST COMMUNICATION AWARD In DX up front, word that DX Coffee and DX University have honored the TX5K operation from Clipperton Island with the 2013 Best Communication Award. This in recognition of the large amount of information given before, during and after the operation via the operation's official website and the related blog. According to the award sponsors, the information provided was extremely complete and covered everything from the documents describing the project, the equipment, the pilots and photo gallery. Also, the very detailed information reported on the blog let readers experience every facet of the DXpedition from beginning to end. (OPDX) **

DX UP FRONT: KJ6GHN /KH7 ON WAKE ISLAND Also, Lisa Marks, KJ6GHN, is now operational stroke KH9 from Wake Island. She is currently working on Wake and will be

there for the next few years. Her station is an Icom 718 and has been mainly operating PSK on 15 meters. QSL via the address on QRZ.com but she asks that those wanting a card to be patient mail only comes twice a month. She does upload to Logbook of the World and ClubLog, and also accepts bureau QSLs. (OPDX)

DISTRACTED DRIVING: SHAKER HEIGHTS OHIO NEW LAW VERY AMBIGUOUS

A new and somewhat ambiguous ant-distracted driving ordinance has been enacted in Shaker Heights, Ohio, that appears at least on the surface to cover only cellphones and texting. But there is a kind of caveat in that there is no exemption for amateur radio or other mobile operations. In fact, the ordinance is written in such a vague way as almost to leave it to those enforcing it to decide if the law is being broken. To quote from the Frequently Asked Questions or FAQ published by the city to explain what was enacted, the new ordinance prohibits the use of a hand-held electronic wireless communications device in any manner for composing, sending, or receiving text messages or using such a device to dial, answer, talk or listen. And it's the last three words - answer, talk or listen -- that might be broadly interpreted by a law enforcement officer to include those using two-way radios that require a push to talk microphone, or even simply listening to one. There are very few exemptions to the Shaker Heights ordinance. These only apply to Police Officers, Fire Fighters and Public Works Department employees. Members of the public will only see an exemption during emergencies to contact law enforcement, hospital, a health care provider, the Fire Department, or other similar emergency agency. The complete FAQ

that tries to answer questions pertaining to the new ordinance is on the web at shakeronline.com/faq/category/72-police. Those affected by it might want to take a look and let us know what they think. (KC5FM)

FCC CITES CALIFORNIA ONLINE RETAILER FOR IMPORTING AND MARKETING ILLEGAL SMARTPHONES

Don't sell counterfeit smartphones in the United States. This is the crux of a warning to one company from the FCC as we hear from Amateur Radio Newslines's Hal Rogers, K8CMD: -- The FCC Enforcement Bureau has cited Panasystem Corp., a California-based online electronics retailer, for importing and marketing what the agency termed as counterfeit smartphones marked with unauthorized or invalid labels falsely indicating that the devices were certified by the FCC. The FCC investigation identified the smartphones imported by Panasystem as counterfeit Samsung models of the "Galaxy S Duos" and "Galaxy Ace." Although these devices were labeled with seemingly-valid Samsung FCC Identifiers, the investigation showed that Samsung neither manufactured the devices nor authorized the FCC Identifier labels. The investigation also revealed that another set of smartphones imported by Panasystem contained counterfeit BlackBerry model 9790 devices. These smartphones were also labeled with invalid FCC Identifiers, which rendered them illegal for sale in the United States. The FCC Enforcement Bureau's Citation notified Panasystem that it must take immediate steps to come into compliance and discontinue the importation and marketing of these uncertified devices. If it fails to comply with the FCC's directive it may be subject to

penalties of up to \$16,000 for each model per day for each violation. For the Amateur Radio Newline, I'm Hal Rogers, K8CMD. -- The complete text of the Citation issued to Panasystem Corp. is available at tinyurl.com/banned-smartphones (FCC) **

RADIO READING: JUNE 432 AND ABOVE EME NEWSLETTER

The June 2014 edition of the free 432 MHz and Above EME Newsletter is now available. The current issue includes a picture of the impressive 15 foot dish antenna that Peter Blair, G3LTF, used in 1964 for his experiments as well as a report on the recent GS3PYE/P DXpedition. You can download your free copy in either Word or PDF formats at tinyurl.com/432-and-above. Archive copies of past editions can be found at the website as well. (Southgate) **

HAM HAPPENINGS: INTERNATIONAL MUSEUMS WEEKEND IN JUNE

The 2014 International Museums Weekend will take place on the two weekends of June 14th/15th and 21st/22nd. The purpose of the happening is to set up and operate amateur radio special event stations at as many of the museums as possible throughout the world. The choice of museum is left you, however planners say that it is best to try for either the largest or most unusual site that is willing to host your operation. More details about the event, its history and how to register can be found at www.radio-amateur-events.org (Southgate) **

RADIO PROMOTION: NEW RADIO PSA'S FROM ARRL

ARRL Media and Public Relations Manager Sean Kutzko, KX9X, has created a series of new thirty second

audio public service announcements or PSA's designed for radio station air-play to promote Amateur Radio and Field Day. The spot named "Amateur" talks about the how the Amateur Radio Emergency Service helps during disasters. "Careers" tells how amateur radio skills can lead to a career path, and references the ARRL website. "What Is Ham Radio" is a generic spot to promote how much fun Amateur Radio can be. There are also two PSA's promoting Field Day one of which includes an 8 second music background or bed near the end to add your clubs contact information. All are available for free download at arrl.org/public-service-announcements (ARRL)

HAM RADIO IN SPACE: ARISS PARTNERS MEET IN THE NETHERLANDS

Partner members of Amateur Radio on the International Space Station or ARISS recently met for the first time in almost two and a half years at the European Space Agency Space Research and Technology Centre in the Netherlands. The purpose of the gathering was to reassess the ARISS program's overall direction and to consider new goals for it. One of the key speakers was Lou McFadin, W5DID, who among other things noted that there is need for what he termed as a power override switch. This would a simple way for the astronauts to shut completely down ARISS equipment during safety-critical events such as Extra Vehicular Activities which are better known as space-walks. W5DID also suggested that there would be a definite advantage of installing a new and higher power VHF/UHF transceiver in the Columbus module similar to the one located in the Service Module. Of late, many ARISS school contacts have been made using the 5 watt Ericsson hand-

held transceiver making some of these QSO's difficult to achieve. The gathering was presided over by ARISS International Chairman Frank Bauer, KA3HDO. Meeting minutes and committee reports are on the web at tinyurl.com/ariss-meet-2014. (ARRL) **

New Amateur Radio Public Service Announcements

ARRL Media and Public Relations Manager Sean Kutzko KX9X has added new 30-second radio/audio public service announcements (PSAs) to promote Amateur Radio and the 2014 ARRL Field Day

The spot named "Amateur" talks about the meaning of the word amateur and how the Amateur Radio Emergency Service (ARES) helps during disasters. It includes an 8-second "bed" at the end for local clubs to provide contact information. "Careers" tells how Amateur Radio skills can lead to a career path, and it references the ARRL website. "What Is Ham Radio" is a generic spot to promote how much fun Amateur Radio offers. It includes an 8-second bed at the end for a local club billboard.

Two PSAs for 2014 Field Day are available. One includes 8 seconds at the end for local clubs, one does not.

The PSAs for Promotions web page includes tips on how to get airplay for Amateur Radio PSAs.

<http://www.arrl.org/placing-audio-psas>

Download the amateur radio public service announcements from <http://www.arrl.org/public-service-announcements>



ANOTHER HOMEBREW BUDDIPOLE ANTENNA PROJECT by Wayne K5UNX

I knew when I started building my station that I wanted a couple of portable antennas. I like making things, and decided to give it a shot after deciding that I might be able to actually make an antenna that worked following [Budd's directions](#). I made the Buddistick first, then later made the Buddipole. Both are easy to make and work well. I use them both (not at the same time) for my main antenna right now, until I can get a full size dipole hung up, and coax run to the house etc. I am fairly new to the HF world and I don't have my home station complete yet, so these antennas were a quick and easy way for me to get started on HF.



Pictured first are the components of the Buddipole. Starting at the top-left are the two 20 meter coils. To the right, the shorter coil set is for 15 and 17 meters. To their right is the "T" component for mounting the antenna on a painter's pole. The black adapter changes the threads from PVC to the painter's pole. In the middle are the two antenna whips, mounted in some CPVC with speaker wire coming out of the ends allowing for connections to be made to the whips. The bottom two pieces are CPVC arms with speaker wire running through them, and connectors.

The following picture shows the Buddipole set up with the painter's pole extended. The length of the extended painter's pole in this picture is about 10 ft



PORTABLE OPERATION OUT OF THE VAN

by

Gardi- KB1BTK



Parked along-side of a beautiful little lake in Boxford, the “Floundah-Rig” antenna set up and the station humming!

Made contacts with a station at the Indianapolis Motor Speedway, and an ARRL QSO Party station in Wisconsin! What could be better

16 New England communities to host International Radiosport competition

The **World Radiosport Team Championship** (WRTC) organizers have selected 16 New England communities as operating sites to host its 7th quadrennial radiosport competition, the first held in the United States since 1996. From July 9 through 14, the world's top amateur radio operators will converge on towns spanning the Route 495 corridor for the "Olympiad of amateur radio," WRTC2014. Previous WRTC competitions have been held in Seattle (1990), San Francisco (1996), Slovenia (2000), Finland (2002), Brazil (2006), and Russia (2010).

WRTC2014 pits 59 two-operator all-star amateur radio teams, representing 38 countries, in a battle of operating skill and strategy under emergency field conditions, for personal and national pride on a world stage. Similar to Olympic athletes, competitors hone their skills for superior performance through mental and physical conditioning, talent, skill and strategy. This form of competition evolved as a method of practicing emergency communication, but also serves as a laboratory for technology innovation and experimentation, much like other technical sports, such as motor sports or sailing.

Operating sites for WRTC2014 include private properties, state parks and other state- and town-owned facilities in Mansfield, Wrentham, Devens, Assonet, Berkley, Dighton, Pepperell, Hollis (NH), East Taunton, Plymouth, Carver, Leominster, Medfield, Cohasset, Hingham and Norwell, each carefully selected to establish a level playing field. Competing teams were selected from around the world in a series of 55 qualifying events over a 3-year period. Just earning a spot in the competition is a prestigious accomplishment for every competitor, allowing them to represent their country and have the opportunity to win a coveted place on the podium.

WRTC2014 teams will compete to contact other amateur radio stations in countries around the globe using both voice and Morse code transmissions. Top teams will operate without sleep for the entire 24-hour competition in an effort to contact as many stations and countries as possible, pursuing the highest score, to earn the distinction of "the best in the world." Top level radiosport enthusiasts originate from all walks of life and a variety of professions. It is common for technology CEOs, emergency room physicians, retired diplomats, members of the military, and engineers to each compete on a level playing field with university students, bankers, grocery store managers or antique dealers.

Amateur Radio, or "ham radio" as it is often called, enables licensed participants to use short wave frequencies to communicate with peers from around the world. Licensed "hams" in the United States are authorized by the Federal Communications Commission (FCC) to use their radio equipment to talk anywhere on earth, using different "modes of operation" such as voice, Morse code, or any of several digital modes, also pioneered within the ham radio community. Today, there are more licensed amateur radio operators than ever before - over 700,000 in the U.S. alone, in addition to more than a million operators around the world. Radio amateurs are prohibited by law from accepting compensation of any kind for any activities they perform as radio operators. Everyone involved in WRTC2014 is participating purely for the love of the sport.

"WRTC2014 is much more than an international sporting competition," shares Randy Thompson, WRTC2014 Co-Chairman. "It is also an opportunity for these great operators to meet each other, often for the first time, after years of radio contacts. It also allows radio amateurs within New England to interact with some of the top operators from around the globe, and to demonstrate the international appeal of amateur radio."

Returning to the United States after 18 years, WRTC2014 gathers competitors, referees, and visitors from around the world to connect and celebrate amateur radio. Westborough's DoubleTree by Hilton Hotel serves as team village, headquarters, and the venue for the WRTC2014 opening and closing ceremonies. Hundreds of spectating visitors are also expected to attend, taking advantage of the rare opportunity to network with amateur radio luminaries worldwide, while enjoying the surrounding area's rich history and regional charm. On the global scale, thousands more will "tune in" and participate over the airwaves, and follow the event's real-time Internet scoreboard to stay abreast of competition results. The largest "radiosport" competitions draw activity from over 20,000 participants and can collectively include more than two million two-way contacts – all in one weekend.

Amateur radio plays a key role as a critical emergency service in times of disaster when other forms of communication

fail. Locally, this was demonstrated after the 2013 Boston Marathon bombing, when cellular networks were overloaded and failed. Amateur radio operators have assisted in providing communication services to the Marathon for many years, and were on hand to provide vital communications for Marathon volunteers following the bombing. Critical communication services were also provided by hams during the aftermath of 9/11 and Hurricane Katrina. Radio amateurs have been involved in the front lines of developing modern communications systems, including the fundamental technology used in all cell phones.

2014 also marks the centennial anniversary of the founding of the American Radio Relay League (ARRL) – the national association for amateur radio in the United States. ARRL assists people in obtaining their amateur radio license and promotes the wide variety of interests within the hobby. The ARRL will hold its national convention weekend following WRTC2014 in Hartford, CT. WRTC2014 is recognized by ARRL as a centennial celebration activity. Many WRTC participants and visitors are expected to stay in the area to attend both events. Information about ARRL is available at www.arrl.org

WRTC



World Radiosport Team Championship

<p>The Building Center of Gloucester 1 Harbor Loop Gloucester, MA 01930 Phone: 978-283-3060 Mon-Fri: 7am-5pm Sat: 8am-4pm Sun: Closed</p>	<p>building center <small>SINCE 1903</small></p>  <p>GLOUCESTER • ESSEX</p>	<p>The Building Center of Essex 140 Western Avenue Essex, MA 01929 Phone: 978-768-7151 Mon-Fri: 7am-4:30pm Sat: 8am-2pm Sun: Closed</p>
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