

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.
OCTOBER 2012



W3OK

CORRAL

Club Meeting October 4th 7:30PM
At the Bethlehem Area Vo-Tech School
OCTOBER MEETING PROGRAM
DLARC Annual Awards Program & Elections

SEPTEMBER MEETING PROGRAM

"EMP Event – First Strike" from Jon / NJ3I.

An **electromagnetic pulse** (sometimes abbreviated **EMP**) is a burst of electromagnetic radiation. The abrupt pulse of electromagnetic radiation usually results from certain types of high energy explosions, especially a nuclear explosion or from a suddenly fluctuating magnetic field. The resulting rapidly-changing electric fields and magnetic fields may couple with electrical/electronic systems to produce damaging current and voltage surges.

These bursts of energy can come from two different sources: a nuclear burst or an non-nuclear E Bomb burst.

In military terminology, a nuclear warhead detonated hundreds of kilometers above the earth's surface is known as a high-altitude electromagnetic pulse (HEMP) device. The effects of a HEMP device depend on a very large number of factors, including the altitude of the detonation, energy yield, gamma ray output, interactions with the earth's magnetic field and electromagnetic shielding of targets.

Non-nuclear EMP is the concept of the explosively pumped flux compression generator for generating a nonnuclear electromagnetic pulse was conceived in the early as 1951 by Andre Sakharov of the Soviet Union but nations have usually kept their most recent work on nonnuclear EMP highly classified until the technology was old enough for similar ideas to be conceived by physicists and in other nations.

With this background presented, Jon went on to describe just what damage and to what items this damage and the effect. Any and all solid-state electronics would be incinerated and related wiring destroyed. This would mean that all automobiles built since 1965. would stop dead in their tracks. There would be no television, radio or any other means of communication, and society would be back to 1930s levels of technology. Electric power grids would be shut down. In a few words, the world as we know it would shut down.

Proper protection can be obtained by protecting your electronic equipment with Faraday cages. Magneto driven home generators would also supply electricity to enable you to survive until power and other necessities are resumed. To properly prepare for an EMP event, all the normal emergency preparations would still be a positive remedy. The actual time frame for total or even partial recovery is unsure.



FROM YOUR PRESIDENT'S SHACK

I am excited to see some new faces on the board this coming year. This group will be put to the test pretty quickly.

My place of employment is slowing down and for the remainder of the year I will be on second shift (2pm-10pm). I will miss the general meetings for the remainder of the year. I recently had to use the last two vacation days I had as my Mother's health worsened so I have none to use to take off for meetings. Arrangements have been made on the board level to cover things in regards to my schedule adjustment and as George N3SQD it will be smooth sailing. Dave N3EYT will be running the meetings

and I will be keeping track via the minutes.

That being said...

Mom passed away Sunday, September 16, with my Father and I present.

A lot of what I am is as a result of my Mom. I am sure that that is not a great insight as we all are influenced, good and bad, by our parents. It was my Mom though that encouraged the drive to keep trying new things. To keep learning. All people are important and valuable.

Over the course of the last number of years it is no secret that the DLARC has been a major part of my life. Not just since I became President. There are many folks in the club who have come along in my walk with my Mother's condition supporting me in many ways. You as a club indirectly have been a great support.

Okay...

Moving forward we have the Pa QSO party coming up shortly. I have mentioned numerous times now, if you can't operate at home, come out to the club station and help W3OK pull in some points.

This is the last general meeting with a few of the members leaving the board, make to thank them. Also, October is the awards meeting so the Bull Certificates will be turned loose. Congratulate those Members who wrestled the events into a successful year.

Alright, I look forward to seeing you all again as soon as I can.

73,

Charlie W3OPA

OCTOBER QUICK CHECK CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 QCWA Net 8:30 PM	2 D-Star Mid – Atlantic 7:30 PM	3 DLARC RACES/ARES Net (KB3WYJ)	4 DLARC MEETING	5 NO VE SESSION	6
7 GAP GALLOP	8 QCWA Net 8:30 PM	9 D-Star Mid – Atlantic 7:30 PM	10 DLARC RACES/ARES Net (W3CE)	11	12	13 Black Bear Bike Run PA QSO Party
14 PA QSO PARTY	15 QCWA Net 8:30 PM	16 D-Star Mid – Atlantic 7:30 PM	17 DLARC RACES/ARES Net (KC3II)	18	19	20 EMMAUS HALLOWEEN PARADE
21 R. W. 1/2 Marathon	22 QCWA Net 8:30 PM	23 D-Star Mid – Atlantic 7:30 PM	24 DLARC RACES/ARES Net (N3SQD)	25	26	27
28	29 QCWA Net 8:30 PM	30 D-Star Mid – Atlantic 7:30 PM	31 DLARC RACES/ARES Net(KB3WYJ)			

OCTOBER CONTESTING AT THE OK CORRAL

October 6 & 7 Oceania Contest - Phone
 October 13 & 14 Pennsylvania QSO Party
 October 20 & 21 Worked All Germany
 October 27 & 28 CQ World Wide DX Contest – Phone



VE TEST SESSION

There will not be a test session this month. The next session will be November 2nd at 7:00 PM at the Northampton County 911 Center. Pretest registration is required. Contact George / N3SQD at george@bioserv.com or Al / W3CE at w3ce@arrl.net

FUTURE PROGRAM ANNOUNCEMENT

The program for the February 7th, 2013 will be Lt. Colonel and NASA Astronaut Terry Hart., who was a mission specialist on STS 41-C Challenger. Presently a professor at Lehigh University. **Be sure not to miss this program!! Mark it on your calendar now.**



MINUTES FROM THE SEPTEMBER MEETING

A general meeting of the Delaware-Lehigh Amateur Radio Club Inc. was held at the Bethlehem Area Vocational/Technical School at 3300 Chester Avenue, Bethlehem, PA. On September 6th 2012

Call to Order: The meeting convened at 1930 hrs. with George Wieland / N3SQD presiding. Charlie Lazarchak / W3OPA, President, was absent due to personal obligations.

Pledge of Allegiance: Led by George / N3SQD

Members in Attendance: 47 with 3 guests: Stephanie / WX3K, Walter / K3OQF, and Kathy / KB3LFO.

Bob / KE3AW's Recent Loss: George / N3SQD informed the membership that Bob / KE3AW's mother had just passed away, and he asked the members to remember Mrs. Green and Bob in their prayers.

Show & Tell: Al / W3CE showed a nifty compact "go-kit" that he has put together for a HF rig that he plans to take of trips to the local park and on longer vacation trips. The radio, amplifier, auxiliary equipment, and antenna fit in a plastic case not bigger than a bread box. Al / W3CE mentioned that on a recent trip he had worked a Kansas state competition on sideband at 5 watts with the compact rig.

Barry / KU3X reported that Jon / NJ3I and he had that day worked Europe and Asia using magnetic loop antennas from the grounds of the Bethlehem Township Recreation Center. Barry explained that due to the high "Q" of the magnetic antennas, Jon and he were able to work the same band without interfering with one another, even though their rigs were set up only 9-10 feet apart.

Pete / NL7XM reported his experience at an antique radio show that took place in Rochester, NY, August 25th and 26th. Pete stated that the whole experience was fabulous. On display was a German "Enigma" deciphering machine, a complete collection of Russian radios from the 1920's, a recreation of the Titanic radio room, and an authentic reproduction of a radio program broadcast by the 1909 San Francisco Radio Club. Pete / NL7XM said that it was a great time.

Guests: Stephanie / WX3K stood and introduced herself to the membership. She mentioned that she has been in ham radio since 1974 and has been active in CW and other radio modes. Bill / K3ANS lauded Stephanie efforts as a CW operator in contests over the years, and he stated that she had done her share of "tower work", obviously meant as a compliment.

Walter / K3OQF stood and introduced his wife Kathy/KB3LFO. Walter stated that he has been a ham for 15 years and his wife Kathy has been a ham for a shorter period.

The membership treated the guests with a rousing "Welcome!"

Minutes Approved: George / N3SQD asked for a motion to approve the minutes of the August meeting. Doreen / K3PDL made a motion to approve the August minutes; 2nd by Paddy / AJ3B. **Motion carried.**

Treasurer's Report: Mike / KB3LOD then presented the Treasurer's Report. A motion to accept the report was made by Pete / NL7XM; 2nd by Jay / N3OW. **Motion carried.**

Redner's Check: George / N3SQD then recognized Pete / NL7XM who presented a check for \$200 from Redner's. The check represents 1% of the qualified purchases to Redner's that the Club has made during the past year. This was met with wide approval by the Club membership.

Club House: Dave / NB3R stood and reported that D-Star is back up and operating though a problem still exists with the reflectors that provide the gateway for the system.

Dave / NB3R went on to report that the Club House now has 5 operating stations with 3 amplifiers. Dave informed the membership that we have a great set up at the Milk House. Dave / NB3R related how he and Ken / N3IYX had worked the entire world over a 12 hour period during the previous Friday. The past Sunday they had worked China. Dave / NB3R encouraged members to come to the Milk House and experience Dxing for themselves.

In a closing comment, Dave / NB3R complimented Al / W3CE on the fine job he did in organizing the Club picnic.

PA QSO: George / N3SQD encouraged the membership to participate in this year's PA QSO Party. George briefly explained the event and mentioned that the Club has a fine tradition in this competition. The event takes place October 13th and 14th. **Secretary's Note:** all are encouraged to participate in this event and to report their contest record to the Club for inclusion in the final tally. Contact George / N3SQD for details.

Repeater: Don / KC3II reported that no issues appear to exist at present.

Website: Brad / W3JXQ had no issues to report.

Membership: George / N3SQD had no new candidates for membership to present.

Balloon Project: Al / W3CE reported that the launch for the High Altitude Balloon Project will not take place this year. The schedule for the launch has been pushed back to Spring 2013.

Halloween Parade: George / N3SQD announced that the Club will again be providing radio communication for the Emmaus Halloween Parade on October 20th. Bob / KE3AW will again be chairing this event and he needs volunteers. Please contact Bob if you are interested in helping.

Black Bear Bike Ride: The Black Bear Bike Ride will take place on October 13th. Volunteers are sorely needed since the event conflicts with the PA QSO Party. Volunteers should contact Ben / KB3CTX for details.

Wheelmen Bike Ride: Al / W3CE announced that the Club will again be providing communications for the Wheelmen Bike Ride on October 7th. The route takes the riders from NACC Community College to Wind Gap and back. Volunteers are needed and should contact Al / W3CE for details.

Runners' World Half Marathon: AI / W3CE reported that the Club has been contacted by Runners' World Magazine to provide radio communications for a 1/2 marathon scheduled for October 21st. The run will take place in Bethlehem and the magazine would like DLARC to assist. 1000 runners are expected. AI/W3CE will call the representative of the magazine for details.

VE Session: George / N3SQD announced plans for a VE session to take place September 7th at the Northampton County 911 Center at 7:00 PM. AI / W3CE will be leading the session and needs some VE examiners to help conduct the session. George / N3SQD received offers from Stephanie / WX3K and Bill / NC3P to help with the VE Session.

October Slate: George announced the slate of candidates for the election at the October meeting:

President: Charlie / W3OPA
Vice-President: Dave / N3EYT
Treasurer: Mike / KB3LOD
Secretary: John / NT3P
Jon / NJ3I
Doreen / K3PDL
Gary / N2AUO
Dave / KA3IWC
Pete / NL7XM
George / N3SQD

Close Nominations: Upon a prompt from George / N3SQD, Vic / N2OFF moved to close the nominations; 2nd by Bob / NE2C. **Motion carried.**

Gas Grill: George asked for a motion to charge AI / W3CE with the job of purchasing a gas grill for the Club. Dave / N3EYT so moved; 2nd by Bob / NE2C. **Motion Carried**

Technical Classes: George / N3SQD announced that classes were again underway for preparation for those seeking their technical class license and another class for those seeking their general class license. The classes run for approximately 9 weeks. Not too late to join. Classes meet every Tuesday night at 7:00 PM at the Northampton County 911 Center. Contact George / N3SQD, AI / W3CE, or Bob / KE3AW for details.

Nation Air and Space Museum: AI / W3CE announced a trip to the Smithsonian Air & Space Museum planned for September 13th. The planned departure time is 6:00 AM; the planned return time is 8:00 PM. Contact AI / W3CE if interested.

Boy Scout Jamboree: Jamboree-on-the-Air is an annual scouting event that uses amateur radio to link Boy Scouts around the world. This event takes place October 20th and 21st. Jay / N3OW questioned whether the Club had any plans to participate in this event this year. AI / W3CE stated that he approached a local Cub Scout group but has not received a response.

Secretary's Note: it seems that this is a lost opportunity to connect to the younger community and promote ham amateur as an activity for the young.

Closing Moments: Bob / NE2C informed the members that the Penn Jersey Radio Club has recently taken advantage of a Federal grant targeted to efforts to clean up highways for the various states who participate. The Penn Jersey Club was able to earn about \$800.00 for about 16 hours of work over two days. Bob / NE2C suggested that DLARC should investigate this program as a avenue to generate revenues for the Club. Bill / K3ANS informed the Club of a Motorcycle Hill Climb at Steel City on the following Sunday. Bill also mentioned that Easton is presenting a Knife Show on September 29th and 30th. Members should check out these events.

Dave / NB3R informed the members of an DXpedition (NH8S) that is currently occurring on Swain's Island from September 6th to September 19th. Members interested in making DX contacts are put on notice.

Adjournment: The meeting was adjourned on a motion by Doreen / K3PLD; 2nd by Jay / N3OW. **Motion Carried.**

50/50 Raffle: Steve / KB3WYJ won and donated his winnings to the Club.

What's In Your Pocket: Pete / NL7XM led the Club in a game for 4 prizes. Scavenger items included a PL 259 connector, an index card, an appointment card for a haircut, a utility bill, a Q-tip, a Thank You card, a "Do Not Duplicate" key, a tire pressure gage, a golf ball, plastic fork, dental floss, Ketchup packet, a tooth pick, a stapler, a bottle opener. Four prizes were handed out.

Program: "EMP Event - First Strike!" - Jon / NJ3I
Respectfully Submitted,
Joe / AB3OS, Secretary



THE DLARC K3NZ PAQSO AWARD

This award is named in honor of Norm Zoltack, K3NZ and will be awarded to the club individual earning the highest score in the club during PAQSO party. Norm was a super contester and a guiding force in his 40 plus years with the DLARC.

Requirements:

1. You must be a single operator.
2. You must apply your score to the DLARC's aggregate.
3. Portable, mobile, rover and home operations count.
4. You can operate from any county.

DX TRANSMITTER TOWER LOCATION USING GOOGLE EARTH AND YOUTUBE

Upon publishing my Rare Out-of-Season Costa Rica analog television channel (4) via sporadic-e at a distance of 1,240 air miles distance video on Youtube on September, 9, 2012 from the Saturday, September 8, 2012 event, I was curious as to the broadcaster tower location and it's appearance.

<http://www.youtube.com/watch?v=ZIMnFwHkAlQ&list=UUvXtysq6al9idrp5ayQOMhA&index=2&feature=plcp>

In my pursuit of this quest I visited the Wikipedia website to obtain the information, however the URL link only mentioned that Channel 4 is a private Costa Rican television channel, owned and operated by Repretel that was founded in 2000 with their website being www.repretel.com.

After searching the internet for more information, I found William Hepburn's Central America and Caribbean TV station lists at <http://www.dxinfo.com/tv.htm>. After clicking on the Central America tab button a country listing appeared with technical data, such as analog channel, video offset frequency, call sign, network/slogan, city, power (kW), latitude and longitude.

This source indicated that the transmitter has a "Z" off-set (video carrier assigned to 67.250 MHz), call sign is TIIVS assigned and located at Volcan Irazu, near the capital of San Jose and runs 10kW ERP power.

Loaded with this information, we visit Google Earth. For those not familiar with it, it lets you virtually fly anywhere on Earth to view satellite imagery, maps, terrain, 3D buildings, from galaxies in outer space to the canyons of the ocean application than you can download. Link below.

<http://www.google.com/earth/index.html>

Within Google Earth, we use the search box and enter "Volcan Irazu". This will result in you being taken to a overhead satellite view over that location. You will notice a red pushpin over the spot you had entered in the search box. There are also very small, 3/8" photo icons overlying the satellite image at various locations.

Since the image covers a large land mass, take your mouse over the red pushpin and use your scroll wheel (on the mouse) and roll it up, this will cause the map to zoom-in. Keep zooming until you see a broadcast tower and a white observation structure to the right of the tower. If you had zoomed in too far, use your mouse scroll wheel and reverse direction, down.

Again, you will see extra picture icons taken and uploaded by individuals visiting this location. If you roll your mouse over the third picture icon east (right) of the tower it will show a title with "Antennas de radio y television de Costa Rica en Volcan Irazu" will appear. Click on it, a picture will appear showing the tower!

Note: You can not save or copy images to your PC within the application as they are copyright material.

There is one feature that is overlayed over the map image that I really like. That is geographical coordinates (latitude/longitude) along with elevation level over when you roll your mouse over a spot on the map. Here it shows the tower the GPS coordinates are 9.58.35.34N, 83.51.15.66W at 11,208 ft.

Now that we know what this tower physically looks like we can search one more source, Youtube. Hopefully you old timers (over 65 years old) have heard of it by now. If not, it is a video-sharing website in which users can upload, view and share videos.

After a search was performed, I found three videos that showed the broadcast tower. In one video I learned that Vulcan Irazu is a National Park in Cartago province, 15 miles east of the capital. It is the highest (11,260 ft elevation) active volcano in Costa Rica. From Lookout Point it is possible to see both oceans, the Atlantic and Pacific.

Websites:

Volcan Irazu Trip - <http://www.youtube.com/watch?v=e0giLTFFqEc>

Irazu Volcano MSSU 2010 - <http://www.youtube.com/watch?v=jdG6-HQa6IM>

Irazu Volcano, Costa Rica – December 2011 - <http://www.youtube.com/watch?v=9nqCaQJJAUA>

Anywhere Costa Rica - <http://www.anywherecostarica.com/attractions/national-park/irazu-volcano>

73's

Mike Schaffer / KA3JAW

Tampa, Florida EL87su

DLARC FORUM

Subscribing to the DLARCforum will insure your accessibility to the DLARC's latest news and information pertaining to the club and its activities. This is also a way to address any questions to the membership in general, on any amateur radio and/or DLARC subject. Additional forum information is available in the January 2009 issue of the OK Corral. Go to <http://mailman.qth.net/mailman/listinfo/dlarcforum> to sign up for the DLARCforum.

REDNERS' SUPERMARKETS SAVE-A-TAPE PROGRAM

Here's how it works:

Redner's has a terrific program to support the Club **AT NO COST TO THEM**, if our members simply sign up for a Gas Card that records their shopping points, and give their cash register receipts to, **Pete / NL7XM**, He'll do the rest.

Note: This does not affect your gas points in any way.

HELP THE ENVIRONMENT

Donate your old, empty printer ink cartridges to the Club for recycling. Any brand, model, size or shape; color or black. Please bring them to the meeting in a leak proof ziplock type baggie and give them to Pete / NL7XM. This simple act can help your Club by reducing recurring expenses, and make you feel a lot better about our environment.

PENNSYLVANIA QSO PARTY 2012

October 13th and 14th are the dates for the 2012 PA QSO Party. As in the past the DLARC is hoping to regain its position as the number one club in the state. Now is the time to check your station and antennas, so you are prepared for the party. The Norm Zoltak / K3NZ award for the highest scoring single operator station will be awarded again this year.

LEHIGH WHEELMEN 2012 GAP GALLUP

October 7th is The Gap Gallup. Great scenery, varied terrain and lightly traveled roads make it one of the most enjoyable rides in the Northeast. Starting at the Northampton Community College, the 100 mile route crosses the Kittatinny Ridge (Blue Mountain) at Little Gap in Danielsville, then meanders for miles through the heavily wooded and sparsely populated countryside north of the mountain. The Gallup returns via the Delaware Water Gap, where the Delaware River makes a spectacular cut through the ridge. A 68-mile option crosses Little Gap with the 100, but returns through Wind Gap. Riders always appreciate the predominately downhill final 25 miles of both routes! There is also a 50 mile option, which runs along the south side of the Blue Mountain without crossing the ridge.

AI / W3CE is looking for operators to man the SAG wagons and the various check points. There will be a sign-up sheet at the meeting, or AI can be contacted at w3ce@arrl.net.

DLARC TO ASSIST IN 100-MILE BIKE TOUR

A "Century Run" bicycle tour will take place on October 113, 2012. DLARC will provide the communications for the tour. **Ben / KB3CTX** will chair the contingent of member amateur radio operators. The route will include the Delaware Water Gap National Recreation Area and High Point State Park. If you are interested in more details, please contact kb3ctx@arrl.net

EMMAUS HALLOWEEN PARADE, OCTOBER 20!

An annual enjoyable and very helpful public service event, the Emmaus Halloween Parade is scheduled for the evening of Saturday, October 20 (Rain date Sunday, October 21). Annually DLARC assists this activity by providing communications during the entire parade.

We will need 16 amateur radio operators to properly cover this event, in which the hams are in their vehicles, using 2-meter rigs, interspersed between parade units throughout the parade. This allows us to have eyes and ears from beginning to end, all along the parade route. We will watch for any problems, including breaks in the parade progression, rowdy behavior, etc., and report them to net control where the proper authorities will be contacted to correct the problems and keep the parade moving along safely.

After the parade we'll have our traditional Dutch Treat social gathering at a local restaurant. This Halloween Parade has been successful for about two decades, and is recognized by the Emmaus Halloween Committee as a prime reason for smooth operation of the parade.

Anyone interested in participating in this year's parade, please contact Bob, ke3aw@arrl.net or 610.432.8286.

Bob / KE3AW

RUNNER'S WORLD MAGAZINE'S HALF MARATHON

Runner's World Magazine has requested that the DLARC supply communications for their half marathon. To be run on Sunday October 21st. AI / W3CE is coordinating the event and will need volunteer operator for the event. Details to follow as AI gets them. Contact AI at w3ce@arrl.net if you are able to operate and more information.

EXECUTIVE COMMITTEE 2012 – 2013

OFFICERS

President – Charles Lazarchak / W3OPA -
Vice President – Dave Blankenship / N3EYT
Secretary – John Barbaz / NT3P
Treasurer – Mike Gower / KB3LOD

BOARD of DIRECTORS

Gary De Mave / N2AUO
Dave Mellman / KA3IWC
Jon Matson / NJ3I
Doreen Gramling / K3PDL
George Wieland / N3SQD
Pete Varounis / NL7XM

Since there is only one candidate for each office, and according to Article VI section 3 of the constitution and by-laws, the secretary shall cast the necessary vote..

HIGH ALTITUDE BALLOON PROJECT

Because of conflicting projects, AI / W3CE announced that the High Altitude Balloon Project has been canceled for this year. A new launch date will occur in the Spring of 2013. More details will be forth coming.

DLARC PICNIC 2012



SEPTEMBER 13th, VISIT TO THE NATIONAL AIR AND SPACE MUSEUM



Photos by Vic / N2OFF

MONTHLY BRAIN TEASER

"A special prize awaits the first Club Member to submit the correct answer to this month's Brainteaser to the Pete / NL7XM at nl7xm@arrrl.net. The winner must be present at the next Meeting to receive it, or it goes unrewarded. Officers, Board members, and Brain Teaser Authors are not eligible to win."

de NL7XM



SEPTEMBER BRAINTEASER ANSWER

20 hams were required. 48 days times five per shift equals 240 total shifts, but if each ham could only work 12 shifts, 20 were needed ($240 / 12 = 20$)
NO WINNER



OCTOBER BRAINTEASER de KB3LIC

What is the unique characteristic shared by the words listed below?

MONTH ORANGE SILVER PURPLE

GET SET FOR THE 2012 SIMULATED EMERGENCY TEST

Are you ready to respond to a local communications emergency? How about within your area, state or beyond? The ARRL Simulated Emergency Test (**SET**) -- an exercise that enables you and your local, District and Section leaders to test equipment, modes, operating skills and emergency deployment plans to see if everything is in place and ready for an actual emergency event -- is October 6-7, 2012. The SET is one of the premier events of the year that invites the Amateur Radio Emergency Service (**ARES**), the National Traffic System (**NTS**), the Radio Amateur Civil Emergency Service (**RACES**), members of the ARRL Field Organization and other groups to work in concert together to practice and prepare. ARRL Field Organization Leaders at the Section and local levels -- along with many other volunteers who are active in public service and disaster preparedness communications -- are developing emergency-like scenarios in consultation with a variety of agencies for that rely on radio amateurs to provide service during emergencies. Make this the year that you decide to create a personal plan and to be ready and help if and when you're needed. Taking part in an SET is one step toward doing just that. To find out how you can be a part of the local or Section-level SET and other related activities, contact your Section Manager

The wider community is also encouraged to be involved in the SET by way of working relationships and agreements with community and public service agencies, giving everyone a chance to test and improve these cooperative agreements. The ARRL maintains national agreements and/or Memorandum of *Understandings* with several organizations, including the American Red Cross (**ARC**), the National Weather Service (**NWS**), the Federal Emergency Management Agency (**FEMA**), the **Salvation Army**, the Association of Public Safety Communications Officials-International (**APCO**) and others.

National Preparedness Month

ARRL is a **National Preparedness Month Coalition Member**. Held each September, National Preparedness Month (**NPM**) is a nationwide effort to encourage Americans to take simple steps to prepare for emergencies in their homes, businesses and schools. The US Department of Homeland Security is working with a wide variety of organizations -- including the ARRL -- to highlight the importance of emergency preparedness and promote individual involvement through events and activities across the nation. We encourage you to consider this year's Simulated Emergency Test and all preparations for it as a demonstration of Amateur Radio's readiness and as an active participant in National Preparedness Month.

SET on the Calendar

In consideration of local and Section-wide schedules with agencies and many others participants, ARRL Field Organization Leaders have the option of conducting their local or Section-wide Simulated Emergency Test on another weekend. Check with your local ARRL Field Organization leadership for the exact date in your area.

The Simulated Emergency Test guidelines and the 2012 SET reporting forms (including Emergency Coordinator Annual Report forms) are **posted on the ARRL website**. If you are the Emergency Coordinator, Net Manager or a Section Leader who is in charge of reporting this year's SET activity on behalf of your group, please feel free to download the forms on the web page, fill them out as appropriate and return them to ARRL Headquarters as suggested on the forms. Thank you -- and good luck in the SET!

WEDNESDAY NIGHT NETS

Additional Net Controls are needed for the Wednesday Night ARES, RACES & DLARC net. If we have enough interested operators, it will only be necessary for each operator to have only one net session in each three month period. Actually 13 weeks in a period, so 13 net controls would be ideal, and maybe some extras to fill in if needed. This would give us a pool of experienced controls, for any emergency which would arise. Interested operators should contact Don / KC3II at kc3ii@arrrl.net or Al / W3CE at w3ce@arrrl.net. The NIMS IS-700 and ICS-100 courses are not required to be a net control, but should the need arise and we do supply controls and operators for real emergencies, then the courses requirement will be in effect.

NEW MEETING LOCATION

Effective with the January 3rd 2013 meeting, the DLARC will have a new meeting location. It will be The Bethlehem Township Community Center. It is located at 2900 Farmersville Rd. Bethlehem, Pa. 18020. This is the location where we have met before when unable to use the scheduled location.

LASER RECORD BROKEN

LLNL smashes record with 500 terawatt laser shot

During the summer of 2012, a team at the **Lawrence Livermore National Laboratory's** (LLNL) National Ignition Facility (NIF) took a shot millions of times more powerful than the one heard around the world. The lab's laser system of 192 beams produced more than 500 terawatts of power and 1.85 megajoules of ultraviolet laser light to its target.

To put this in perspective, 500 terawatts of power is 1,000 times more power than the United States uses at any instant in time. 1.85 megajoules of energy is about 100 times more than any other laser regularly produces today.

According to physics experts, this breakthrough will lead the way to study materials in these extreme conditions and in duplicating the actual phenomena that occur in a nuclear reaction. Combining extreme levels of energy and peak power on a target in the NIF is a critical requirement for achieving one of physics' grand challenges – igniting hydrogen fusion fuel in the laboratory and producing more energy than that supplied to the target.

These are important steps toward achieving ignition and providing experimental access to user communities for national security, eliminating the need for underground nuclear testing, understanding the universe and the quest for clean and

sustainable fusion energy.

FCC DENIES PETITION SEEKING TO DESIGNATE NATIONWIDE EMERGENCY CALLING FREQUENCY

Saying that it believes that the Amateur Service “allows flexibility to provide emergency communications in a way that takes into account channel availability and other local conditions,” the FCC **denied a *Petition for Rulemaking to create a nationwide emergency calling frequency***. The *Petition* -- filed by Bryan Boyle, WB0YLE, of Morrisville, Pennsylvania, and Jim Dixon, WB6NIL, of Alhambra, California -- called upon the FCC to designate 146.550 MHz as a “non-exclusive nationwide Amateur Radio Service emergency communications channel using FM wideband modulation.”

Boyle and Dixon noted in their *Petition* that other services, such as the Citizens Band Radio Service, the Aviation Service and the Maritime Service have specific channels set aside for emergency communications. They claimed that use of these channels “to good effect by those in distress [and that this] is a testament to the need for individual services to have a readily accessible and publicized” emergency communications channel. In denying the *Petition*, the FCC said in part that Boyle and Dixon “had not shown an existing problem that would be addressed by a rule change designating a nationwide Amateur Service emergency calling frequency.”

The FCC told Boyle and Dixon that the rules of the Amateur Radio Service allow “an amateur station to transmit one-way messages necessary to providing emergency communications,” maintaining that these messages may “be transmitted on any frequency authorized [by] the control operator of the amateur stations transmitting the messages. Additionally, the rules require that, at all times and on all frequencies, each control operator must give priority to stations providing emergency communications. Administration of these rules is accomplished primarily through voluntary frequency planning by, and cooperation among, Amateur Radio operators.”

Pointing out that the its Wireless Telecommunications Bureau had previously considered establishing a nationwide common calling or distress channel “in a service where transmission of such communications is permitted but not required...and the channels are shared by all users,” the FCC said that it had concluded that “it was not necessary to designate a Family Service Radio (FRS) channel for establishing emergency communications because emergency communications have a priority on all FRS channels and the record did not demonstrate that FRS users were having any difficulty establishing communications.”

The FCC did note, however, that unlike channels in the Citizens Band Radio Service and the Maritime Service, channels in the FRS are not routinely monitored by emergency first-responders: “Like the FRS, the Amateur Service differs from the services in which our rules designate a nationwide emergency calling channel in that it is not routinely monitored by safety entities such as the police or the Coast Guard. Additionally, those services do not require an individual to have an operator license or otherwise demonstrate the ability to operate the station by performing such functions as selecting transmitting channels to avoid interference. Therefore, we believe the administration of these services primarily through operational rules that specify the use of a channel and transmitter technical standards is reasonable.”

The FCC observed that under the current rules of the Amateur Radio Service, operators can use “multiple channels on the same or different amateur band if needed for an event, or use multiple channels in the same band when multiple, but different events occur.” It also mentioned that the Boyle and Dixon’s proposal “that the channel be a ‘non-exclusive nationwide’ channel is, substantively, no different from current channel priorities because all Amateur Service channels are shared and may be used for providing emergency communications. If such a ‘non-exclusive nationwide’ channel is needed, nothing in our rules prevents the amateur community from voluntarily agreeing to designate a channel for this purpose. We conclude, therefore, that you have not shown an existing problem that would be addressed by a rule change designating a nationwide Amateur Service emergency calling frequency.”

WAKE UP WITH A LEMON

Start your morning off right with a glass of water – and some fresh lemon juice squeezed into it. Lemon juice is an antioxidant, and also a good source of calcium, potassium, and vitamin C. In addition, it may give your immune system a boost and help with digestion throughout the day.

If you do squeeze fresh lemon (as opposed to getting just from a bottle), be sure to wash it thoroughly ahead of time to clean off any that are bacteria, but they drift into the juice.

FCC RELEASES CONGRESSIONAL MANDATED STUDY ON AMATEUR RADIO

On August 20 -- in response to a Spring 2012 Congressional directive -- the Federal Communications Commission [released its findings](#) on the *Uses and Capabilities of Amateur Radio Service Communications in Emergencies and Disaster Relief: Report to Congress Pursuant to Section 6414 of the Middle Class Tax Relief and Job Creation Act of 2012*.

This report contains the FCC's "review of the importance of emergency Amateur Radio Service communications relating to disasters, severe weather and other threats to lives and property in the United States; and recommendations for enhancements in the voluntary deployment of Amateur Radio operators in disaster and emergency communications and disaster relief efforts; and recommendations for improved integration of Amateur Radio operators in the planning and furtherance of initiatives of the federal government." It also required "that the study identify impediments to enhanced Amateur Radio Service communications and provide recommendations regarding the removal of such impediments." "There are many positive things included in the FCC report to Congress," said ARRL Regulatory Information Manager Dan Henderson, N1ND. "We are pleased that the Commission highlighted the existing Amateur Radio infrastructure to provide disaster and time-critical communications. They also recognized the flexibility of the Amateur Service in working with federal, state, local and tribal emergency service agencies to supplement existing communications. The affirmation of the value that Amateur Radio brings to the communities across the country is underscored by the suggestion that 'DHS work with state, local, and tribal authorities so they may develop disaster area access or credentialing policies for trained amateur operators, including a means for documenting their qualifications...'"

While the FCC did hold Amateur Radio in a positive light in its discussion of emergency Amateur Radio Service communications, the FCC report was not as favorable in the portion of the study that addressed impediments to enhanced Amateur Radio Service communications. In the comments provided to the FCC as they prepared the study, the ARRL -- as well as numerous individuals -- cited the proliferation of specific land-use restrictions, such as deed restrictions and homeowners associations covenants, that prohibit the erection of even modest Amateur Radio antennas. The ARRL cited that such restrictions now apply to tens of millions of homes and condominiums. In communities across every state, these restrictions make finding suitable living arrangements that would also allow amateurs to participate effectively in providing support communications nearly impossible to find. The FCC disagreed with that assessment stating "...our review of the record does not indicate that amateur operators are unable to find homes that are not subject to such restrictions. Therefore, at this time, we do not see a compelling reason for the Commission to revisit its previous determinations that preemption should not be expanded to CC&Rs."

When considering any current rules that serve as impediments to enhanced Amateur Radio Service communications, the report did agree with the ARRL's position, stating that "Commission rules that may be an impediment to enhanced Amateur Service emergency communications can, as the ARRL notes, be considered through the Commission's rule making process. Consequently, we do not believe that Congressional action is necessary to address any of these issues."

In the report, the FCC recommended that "DHS consult with the public safety, emergency management and Amateur Radio emergency communications associations and groups to identify training opportunities that will support better utilization of Amateur Radio operators for emergency communications, and to solicit views on how Amateur Radio capabilities could be further incorporated into response plans or initiatives. We also recommend that OEC include these recommendations in the NECP."

Henderson noted that it is significant "that the FCC recommends efforts be continued by DHS to facilitate the training and utilization of Amateur Radio across the emergency and disaster response spectrum -- from the public sector through to the various groups and organizations which provide support communications via the Amateur Service, including ARES, RACES, MARS or locally organized support groups. When served agencies and amateur groups plan and train cooperatively, it only enhances our abilities to serve our communities and the public."

With the delivery of the FCC's report to Congress, the ARRL will determine its next step in its efforts to find relief for amateurs who live under unduly restrictive private land-use regulations. "Our review of the FCC report shows that there is a lot to be done if amateurs living in deed-restricted properties are to receive even the limited relief they enjoy under the Commission's PRB-1 ruling or the limited relief given to deed-restricted properties given by the FCC's OTARD ruling," Henderson said. "This means continuing ARRL's efforts on Capitol Hill and continuing to seek a Congressional directive to the Commission to extend those limited preemptions to include prohibition of effective Amateur Radio antennas and support structure that are imposed by private land use restrictions. The FCC report to Congress is not the final action in this fight. It merely lays the groundwork for the next steps to be taken by the ARRL," he concluded.

SIX WAYS TO REUSE ALUMINUM FOIL

Scour a barbecue grill or remove stuck on food from pots, pans and oven racks.

Scrub rust off chrome and steel

To sharpen no garden shears and scissors, cut through folded layers of foil a few times. For heavy duty garden shears fold the foil even thicker.

To reduce static cling, put a crumbled piece of foil in the clothes dryer.

Keep cats and dogs away from certain areas by putting foil down -- most of them dislike working on it.

To keep birds and deer away, hang strips of foil on strings in the garden.

What else should do with used foil: Wrap leftovers in used foil, but if the foil has come in contact with raw meat, do not reuse it for other purposes.

F.Y.I.

The September prizes were won by Steve / KB3WYJ, Al / W3CE, Gary / N2AUO and Doreen / K3PDL..
The November Program will be Al / W3CE "Long Delayed Echoes"

The D.L.A.R.C. meets the "FIRST" Thursday of each month. Membership, friends and interested persons meet at the Bethlehem Area Vo-Tech School (3300 Chester Avenue, Bethlehem, Pa. 18020) at 7:30 PM. Committee reports and announcements of all present and future activities will be presented at that time. Followed by that month's program.

The EASTERN PENNSYLVANIA District 2 ARES Net meets every Wednesday at 1930 hours local time. (Just after the DLARC Net) On 147.255 (pl 162.2). And linked to 449.375 on Blue Mountain, 443.350 in Allentown and 147.180 in Berks County.

D-Star Mid-Atlantic Regional net meets the second and fourth Tuesdays of each month on the 147.165 port with a number of other repeaters in Eastern Pennsylvania, New Jersey and New York City area .

The OK Corral is an organization publication for the purpose of informing members of the D.L.A.R.C. of educational and training opportunities, club events, relevant news articles and a monthly calendar of daily activities, meetings and dates. Every member of the D.L.A.R.C. Is welcome to contribute articles of interest to this newsletter. Opinions, items of interest, and even suggestions towards the improvement of newsletter and/or the DLARC, itself would also be accepted, as a sort of "Letters to the Editor" section.

The Milkhouse telephone number is 484-895-7038.

EXECUTIVE COMMITTEE 2011 – 2012 OFFICERS

President – Charles Lazarchak / W3OPA ----- president@dlarc.org
Vice President – Dave Blankenship / N3EYT ----- vicepresident@dlarc.org
Secretary – Joe Garvey / AB3OS ----- secretary@dlarc.org
Treasurer – Mike Gower / KB3LOD ----- treasurer@dlarc.org

BOARD of DIRECTORS

Gary De Mave / N2AUO ----- captiangdm@gmail.com
Bob Oppen / NE2C ----- ne2c@arrl.net
Dave Mellman / KA3IWC ----- dbm073@gmail.com
Jon Matson / NJ3I ----- cjfishing@rcn.com
Jay Mason / N3OW ----- n3ow@rcn.com
George Wieland / N3SQD ----- George@bioserv.com

PHONE NUMBERS FOR THE EXECUTIVE COMMITTEE OF THE DLARC CAN BE FOUND ON THE WEBSITE / MEMBERSHIP LISTING CLUB MEETINGS

All regular meetings of the D.L.A.R.C. Are held on the first Thursday of each month at
7:30 PM at the Bethlehem Area Vo-Tech School
TALK IN ON 146.700 (PL 151.4)

THE W3OK TRUSTEE --- Jon Matson / NJ3I

**The W3OK Corral is published monthly and is the Official Publication of the
DELAWARE LEHIGH AMATEUR RADIO CLUB INC.
14 Gracedale Avenue
Nazareth, Pa. 18064-9211**

ARES, RACES AND DLARC NET

All Radio Amateurs are welcome to participate in the ARES, RACES and DLARC net. This net meets Wednesday at 1900 hours local time, on the W3OK Repeater 51.76, 146.70 and 444.90 (pl 151.4). With an alternate frequency of 147.370 (167.9) W3OI Repeater.

THE NEWSLETTER STAFF

Editor – Don Holmes / KC3II ----- editor@dlarc.org
Web Master – Brad Snyder / W3JXQ ----- w3jxq@dlarc.org
Photographer – Dave Arwood / NB3R ----- nb3r@nb3r.com
Circulation – Pete Varounis / NL7XM ----- nl7xm@arrl.net