

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.
SEPTEMBER 2014

W3OK

CORRAL

Club Meeting September 4th, 7:30PM At the
Bethlehem Township Community Center

SEPTEMBER PROGRAM

**“WINNOR” Protocol – Email over HF
AI / W3CE**



“ Inventor Nikola Tesla “
Doreen / K3PDL

VE TEST SESSION

There will be a test session this month on September 5th, at 7 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



MINUTES FROM THE AUGUST MEETING

A general membership meeting of the Delaware-Lehigh Amateur Radio Club Inc. (the Club) was held on August 7, 2014, at the Bethlehem Township Community Center located in Bethlehem Township, Pennsylvania.

Call to Order: Jay / N3OW, President, called the meeting to order at 1933 hrs.

Pledge of Allegiance: Led by Jay / N3OW

Member Happenings: Lawrence / AB3TY obtained a used tower and with help and some innovative thinking from Dave / N3LWY, he was able to erect it.

Mark / W2MB, while backing out of his driveway, met a ham from Holland, who was visiting nearby and happened to be walking by. The ham commented on Mark's tower and they immediately struck up a conversation. The ham operated Mark's station and they have set up a schedule.

Jay / N3OW asked how many people were still using paper logs.

Dave / NB3R attended the ARRL National Centennial Convention and had a great time. The programs, especially the ones on the early history of amateur radio, were interesting and informative. Bill / W3MJ also attended.

Bill / W3MJ purchased a Kenwood TS-990 and thanked Dave/NB3R for helping him set-up rig control and other applications for the radio.

Visitors and Guests: Scott / W3ATQ who recently moved into the area and also a group of hams from the Saylorburg / Gilbert area

Approval of the Minutes: John / NT3P asked if there were any errors, additions, or corrections to the minutes as they appeared in the last newsletter. Hearing none, Jay / N3OW asked for a motion to approve the minutes of the last meeting. **Motion:** It was moved by Dave / NB3R, second by Pete / NL7XM to approve the minutes. **Motion carried.**

Treasurer's Report: Mike / KB3LOD presented the Treasurer's Reports for May and June **Motion:** It was moved by Dave / NB3R, second by John / NT3P to approve the treasurer's reports. **Motion carried.**

Club Station: Dave / NB3R reported he fixed an antenna the County accidentally pulled down. The station will be opened on Saturday and encouraged people to stop by.

Club Repeater: Barry / K3UX believes Barry / N3NVA has made some improvements to the system as he now has full quieting on the repeater with a handheld from Franco Park.

Website Report: Jay / N3OW asked if there are any issues or problems with the website. No issues were reported.

Membership Report: George / N3SQD reported that there were no membership applications this month

Club Picnic: George / N3SQD reported that Ed / AA3OU is the Club Picnic chair. The picnic will be on August 31 (the last Sunday in August) at Louise W. Moore Park Pavilion 5 starting around noon. A sign-up sheet was passed around for a rough head count and what items people will be bringing.

Licensing Classes: Bob / KE3AW reported the first session of the fall licensing classes for Technician and General licenses will be Tuesday, September 9. Classes will be held each Tuesday for nine weeks in the Northampton County 911 Center. The classes are being promoted by flyers at area businesses, ARRL website and on the Service Electric cable television community bulletin board. Bob reported there are interested people from as far away as Shenandoah, Pa and New Jersey.

Club Logo Apparel: Mark / W2MB discussed a source for apparel such as shirts, jackets and hats embroidered with the club logo. The company is in Mark's town and he is familiar with their work from his involvement with other organizations. Mark has forwarded the club logo to the company and the cost to digitize it will be spread over the items ordered. Mark will have a list and catalogs at the meetings and will be finalizing the order in October. Contact Mark if you are interested.

RACES: Al / W3CE reported that the information has been passed on to County for the members who confirmed passing the FEMA ICS-100 and IS-700 courses and are interested in RACES participation. He expects County will complete the identification badge processing shortly.

2014 Gap Gallop: Al / W3CE reported Lehigh Wheelmen Association's Gap Gallop would be on September 14. The event starts at 7:00 AM at DeSales University. Al will need about 12 operators to operate the rest stops and SAG wagons. If you have not worked a public service event before, Al will pair you with an experienced operator. Al is planning to operate net control on solar power. In prior years, the Lehigh Wheelmen Association has made donations in appreciation of the support provided by the Club. Contact Al if you are interested.

Disbursement of Donated Club Equipment: Barry / K3UX explained that he, Bob / KE3AW, Dave / NB3R, George / N3SQD, and Al / W3CE went through the Club's donated equipment that is stored in the barn and compiled a list of equipment that the Club will sell. Fair market value of the equipment was estimated by reviewing amateur radio related websites such as QTH.com eHam.net QRZ.com. The equipment will be offered to Club members at approximately half the estimated fair market value and to non-members at the estimated fair market value. The list will be posted on the Club website and e-mail reflector. There will be no advance sales or reserved equipment. The sale will begin this Saturday morning at the Club station on a first-come basis and will continue on subsequent Wednesday evenings. The equipment has only been tested on a limited basis and is being sold with a one-week grace period to provide the buyer the opportunity to more fully test the equipment. If there is a problem, bring the equipment back for a refund of the purchase price. After the one-week grace period, the sale will be considered final.

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, *only*, at nl7xm@arrl.net The winner must be present at the next Meeting to receive it, or it goes unrewarded. Officers, Board members, Newsletter staff, and Brain Teaser Authors are not eligible to win."

de Pete / NL7XM

AUGUST BRAINTEASER ANSWER



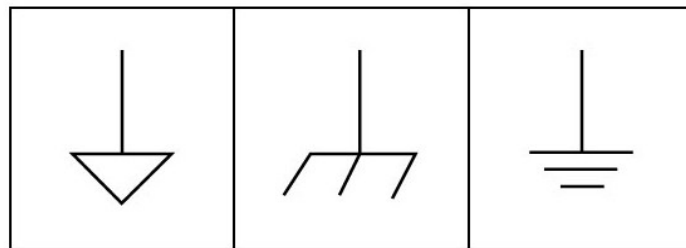
Turn any two switches "on", and the third switch "off". Wait 5 min., then turn one of the "on" switch is to "off". Open the door and go into the room. The lit lamp will be the one with the switch "on". Of the two lamps which are out, the one you just switched "off" will still be warm to the touch. The cold lamp will be the one which was switched "off" all along.



Winner – Dennis / KC3AOM

SEPTEMBER BRAINTEASER

DO YOU KNOW WHAT THE SYMBOLS STAND FOR?



Be specific.

2015 PROGRAMS

The Delaware-Lehigh Amateur Radio Club prides itself on bringing you the best programming and entertainment content possible year after successful year.

It's undoubtedly partially responsible for our unprecedented and sustained growth while ARC membership and attendance in general elsewhere struggles.

It's only July, but Program Chair Doreen Gramling / K3PDL is actively recruiting qualified talent to populate the 2015 Club calendar with presentations that deliver current and practical material to help you get the most out of Amateur Radio today. If you have a topic or idea that would be of interest to your friends and colleagues, contact Doreen promptly to secure a preferred date while some are still available.

There's plenty of time to flesh out your outline into a polished product ready for our friendly, receptive audience, but now is the time to book the month your material will be ready.

Everybody is very good at something! Share your knowledge and experience with us at the D.L.A.R.C. and write Doreen today at: countrylady06@yahoo.com

HAM RADIO ENTRY LEVEL CLASSES

Members, please help promote ham radio by passing this information to anyone you feel may be interested in earning their FCC ham radio technician license. Fall classes for Amateur Radio Entry-license test preparation will begin September 9th, and continue each Tuesday, 7-9 pm through November 4th. The course is suitable for ages 11 years and up. DLARC also is planning General Class license upgrade classes George / N3SQD and AI / W3CE will be the main instructors. The only cost will be or the ARRL study manual. For additional information - answers to your questions about the classes and/or amateur radio in general - contact Bob / KE3AW at ke3aw@arrl.net or call 610.432.8286.

GAP GALLOP 2014

The Wheelmen's 100 mile bicycle ride will be on Sunday September 14th this year. It will be the same course as last year starting at DeSales University. **Your Help is Needed**, . DLARC will once again be providing communications between the start/finish line at DeSales University and the several rest stops and SAG vehicles. I am missing 4 regulars for this year's ride and need replacements to fill their shoes. I have radios available to mount in the SAG vehicles or use at the rest stops. Right now I am looking for operators. If you have Sept 14th free and wish to help out at this community service event please call or Email me.

Thanks in advance

AI Wiemann w3ce 610-262-6977 w3ce@arrl.net

HANOVER TOWNSHIP NATIONAL NIGHT OUT

DLARC had a table at this event at the Hanover Township Community Center. We shared a table with Northampton County Emergency Management Services' Nick Tylenda / KA3REK. Others representing DLARC were George / N3SQD, Al / W3CE, Mike Mandell / KC3BLF, and Bob / KE3AW (not in the picture).



D.L.A.R.C. PICNIC

The annual D.L.A.R.C. Picnic will be held on Sunday August 31st at Louise Moore Park. This is the same location as last year's picnic and this year's Field Day. In Pavilion 5, Ed / AA3OU is chairing the event, and would like to know ahead of time how many would be attending. Also an idea on what food are being brought to the picnic. Contact Ed with this information..

NOMINATIONS FOR CLUB OFFICERS

September is the month when Officers and the Board of Directors (Executive Committee) are nominated for the forth coming club year. You may have been approached about running for office or nominating some one for one of the offices, this procedure is the way the club fills the offices and in that way keep the club functioning to its best ability. So think about it, come to the September meeting and be ready to nominate members or accept a nomination, that will keep the DLARC a club worthy of membership.

EDITOR'S NOTE

At the August meeting, it was mentioned about Ray / W3TDF naval service as radioman aboard the Ark. Due to the lack of photography at the time, an artist's rendition was needed to record this service.



SOME FACTS ABOUT HARMONICS

Electronics often involves periodic signals in the electromagnetic spectrum, which gives us this wonderful field known as radio. One of the interesting side effects of dealing with oscillated systems is their tendency to also create "Harmonics".

The pure and natural harmonics I will speak of are cyclic signals which are either whole number multipliers of, or whole number divisors, of the original frequency. The original frequency is called "The fundamental". Each fundamental is its own "first harmonic" (it's frequency, multiplied or divided by one). Went to signals of the same frequency or phase (and overlap perfectly), they are sometimes said to be in unison. If to signals of the same frequency and amplitude of 180° "out of phase" (occur in perfect opposition to one another), they cancel each other out. This can each be useful if XM radio and other electronic applications.

However, a system which can oscillate or cycle periodically can ALSO generate harmonics of each multiple. The "second harmonic" is the fundamental frequency times two, while the second sub-harmonic is fundamental frequency divided by two. The "third harmonic" is the fundamental frequency times three, and the "third sub-harmonic" is the frequency divided by three. This can go on indefinitely

An oscillator tuned to 1 kHz will naturally tend to purchase a ring and second harmonic at 2 kHz, and a deeper second sub-harmonic at 500 Hz. Its third harmonic will be at 3 kHz with its third sub harmonic at 333.33 hertz. and so on.

Usually (but not necessarily always), the harmonics diminish in amplitude as they get further away from the fundamental frequency." The third harmonic is usually weaker than the second harmonic, and so on. interaction with other environmental (or circuit component) features can sometimes cause a harmonic to be reinforced and amplified, perhaps making it even stronger than the fundamental. Usually, bandpass filters are added to a circuit to attenuate (reduce) harmonic frequencies before they can become troublesome; this is one reason why resistor-capacitor or resistor-inductor L – or PI – type filters often seen before and after stages of electronic amplification.

One problem with a center-fed antenna candidate can be that it tends to send out not only the desired resonant frequency, but also the second harmonic (each half antenna's separate length). This could result in undesirable interference with other traffic. When you check a new antenna, don't forget to check the harmonics of the frequencies you plan to broadcast!

In music, this notes of the scale were once based upon natural harmonics of the pitch taken as the "tone center" of a tune. Singers and certain instruments can exploit the use of natural harmonics for every note they focus on. However, when pianos were invented, it was necessary to develop a scale which would produce each of the 14 "keys" without returning the piano for each key. Natural harmonics were no longer suitable, because musicians wish to "modulate" freely among the keys. Instead of the natural harmonic scales, Western music is now based on the Even Tempered Scale, which divides the octave (a true doubling, or halving, of frequency) by 12 equal "intervals". To accomplish this, they mathematically selected the 12th root of two (1.0594631...) to create the difference between musical have steps. Because of this artifice our music is not truly harmonic, no matter how many harmonies includes by exception, Bugle calls are based on true harmonics of the open resident pitch of the horn!

Frequency, harmonics, filters, physical pitch... But fascinating specialties to study on a rainy night in front of the computer. You might be surprised what relates to your own special interest!

de Paul Schlueter III / KB3LIC

DLARC EQUIPMENT LENDING PROGRAM

The DLARC has an equipment lender program for over 20 years but it has never been defined.

As of September 9, 2014 the lender programs has been restructured.

Here are the following ground rules:

HF radios as well as power supplies and antenna tuners can be borrowed for 90 days. This equipment MUST be returned on or before the 90 day limit.. If there isn't anybody waiting to borrow the equipment you just returned, you may borrow it again for another 90 days. You can only renew your term three times for a total of one year.

The MFJ 259B and the MFJ 269 can be borrowed for a maximum of 7 days.

You must be a club member to borrow equipment.

"The above rules are retro active." If you have any of the club's equipment on loan and have had it for 90 days or more, please return the equipment ASAP.

It is your responsibility to return the equipment, on time. It is NOT the club's responsibility to call you to tell you your time limit is up.

The club's station, located at the Milk House on the Gracedale complex, is where equipment can be picked up and returned.

Here is some of the equipment that can be borrowed from the DLARC.

Kenwood TS440SAT w/ built in tuner, hand mic and CW filter.

Yaesu FT 840

MFJ 9040 QRP CW rig with audio filter

Power supplies will be included with the above radios if needed.

MFJ 259B antenna analyzer

MFJ 269 antenna analyzer

The DLARC does have other equipment that can be borrowed. Check in at the club's station for more details. The club's station is open every Weds evening from 6:30 pm and most Saturday mornings.

This list can be changed from time to time.

Barry G. Kery / KU3X

FOR SALE BY THE DLARC

The following items, owned by the DLARC, are being sold. The items, sold at the listed price, are for, "DLARC MEMBERS ONLY!" Items can be picked up at the club's station (Milk House) on Weds evenings. They are being sold on a, "First come first serve basis", none will be held in reserve. There is a very limited warranty. After you purchase the item you have one week to test it to make sure all functions are operational. After that, it can not be returned. Most items were already given a basic test and can be retested, at the club's station, before you make your purchase. All items are offered to, "Members Only" at a price well below fair market value. Non members will be charged fair market value.

If you have any questions feel free to stop by the Milk House or you can email me: bgk3x@ptd.net

Barry G. Kery, KU3X

2 each Radio Shack 2.5 amp regulated power supplies \$3 each - Great power supply for an HT or to power numerous HT or to power numerous items in the shack

Radio Shack 10 amp regulated power supply \$10 - Perfect for a two meter mobile radio

Astron 12 amp power supply \$10 - Great for any 50 watt power output radio

MG 10 amp power supply \$10

Radio Shack HT-202 VHF HT w/ hand mic \$10 - This little radio works great and the battery is still charged.

Yaesu YM-86 hand help mic, 4 pin connector \$5

Yaesu MH 15 ab hand held 8 pin mic \$5

Icom 8 pin desk mic IC SM5 \$5

Icom HM9 hand held HT mic \$5

Icom HM14 hand held 8 pin mic \$5

1000 watt Drake Low pass filter \$5 - If you have a tube type HF amplifier, Low Pass filters are a must.

1000 watt Drake Low pass filter, all copper \$10

2 each straight keys with two each audio oscillators \$5 for all

Heathkit FET VOM \$5

HF inline SWR / Field Strength meter \$2

MFJ 752C, audio filter \$5

Heathkit phone patch \$5

Numerous antenna, medium duty rotors...Untested \$25 each - One rotor sold but still have lots more

13 Aug 2014.....new items added

Yaesu FT-470 dual band HT with extra AA battery holder \$20

ADS200 metal desktop speaker \$5

RCA analog FET volt ohm meter \$5

EIGHTH ANNUAL LEHIGH VALLEY KNIFE SHOW - EASTON, PA

September 27 & 28, 2014 Saturday: 9 AM to 5 PM; Sunday: 9 AM to 3 PM

Buy, sell, trade, and display knives: New, antique, rusty, factory, custom, hunting, military, swords, daggers, folders, Bowies, tomahawks, razors, sharpeners, books!

Charles Chrin Community Center of Palmer Township

4100 Green Pond Road, Easton, PA 18045-2594 [Along US-22]

Admission only \$6.00! Bring your supervised children. No charge if under 13.

Show your family, children, and friends the beauty and fascination of quality knives!

Website: www.PAKnifeShow.com

Meals and snacks for sale in the Community Center. Many hotels and restaurants are nearby.

For information, call **Bill Goodman, CPA**, manager of Good Knives, LLC; **Cell: 484-241-6176**;

CPA Office: 610-770-9236, Home: 610-258-5063, E-mail: GoodKnives@GoodmanCPA.com

Directions: Easton is on the Pennsylvania / New Jersey border, in the Lehigh Valley, 60 miles north of Philadelphia, 17 miles east of Allentown, and 75 miles west of New York City. The Charles Chrin Community Center is modern and beautiful, with ample free parking. It is visible along the north side of US-22. For easy access, exit US 22 at 25th Street, also known as Nazareth Road and PA-248. Look for knife show direction signs at intersections.

US-22 going west: Take US-22 to the 25th Street exit in Easton. At first traffic light (next to MacDonald's Restaurant), cross 25th Street, continuing west on Sales Street, 0.1 mile to the next traffic light. Turn right onto Northampton Street.

Go west, 0.5 mile to next traffic light. Turn right onto Greenwood Avenue. Go north, 0.2 mile to second left. Go west on Green Pond Road, 0.7 mile to entrance into Charles Chrin Community Center on left side at 4100 Green Pond Road.

US-22 going east: Take US-22 to the 25th Street exit in Easton. At first traffic light (next to Burger King Restaurant), turn left onto 25th Street. Go north, 0.2 mile to first traffic light. Turn left onto Northampton Street (next to Gulf Station).

Go west, 0.6 mile to second traffic light. Turn right onto Greenwood Avenue. Go north, 0.2 mile to second left. Go west on Green Pond Road, 0.7 mile to entrance into Charles Chrin Community Center on left side at 4100 Green Pond Road.

I-78 and US-22 run parallel, east and west, through Easton. I-78 does *not* connect directly to 25th Street. US -22 does.

I-78 connects to US-22 via PA-611 and PA-33 in Easton. I-80 also connects to PA-33 near Stroudsburg, which goes south to US-22 in Easton. I-476 (PA Turnpike), PA-611, PA-115, PA-309, PA-209, PA-191, PA-222, PA-412, PA-212, PA-413, PA-32, PA-378, NJ-29, NJ-94, NJ-57, and NJ-46 all lead toward Easton.

PUBLIC RELEASE OF ARRL EMERGENCY COMMUNICATIONS ADVISORY COMMITTEE REPORT

Many in our section may not be aware that the League had created an emergency communications advisory committee several years ago. It was staffed by members throughout the country who were deemed to have substantial experience with either the National Traffic System and/or the Amateur Radio Emergency Service. The committee was co-chaired by Jim Cross, WI3N, MDC SM and Dave Colter, WA1ZCN, ASEC, former SEC, NH ARES. The full report and the introductory message from the co-chairman introducing the report is a must read for all members who are interested in ARES and NTS.

I have uploaded it to the file downloads section of the home EPA page of the National website, found at: www.arrl.org/Groups/view/eastern-pennsylvania. You may have to sign in to the ARRL main page first, then you will see an EPA link just below your sign-in field. If you did not know, the link brings you to our main national EPA page from the ARRL home page. Downloadable files are found at the very bottom of the page, so scroll down and check it out. Let me know what else you would like to see there by the way.

The quality of the full report is exceptional and I ask that you take the time to read it because it covers some of the most pressing and important issues we will face with respect to amateur radio's role in emergency communications and its related activity-message and traffic handling.

First, read the introduction transmittal letter to gain a sense of what the report is about and what kinds of issues the committee addressed. Then, while the report is lengthy, make some time to read through it because it is truly a professionally produced work. Some of the current, important issues involved in emergency communications and separately in the national traffic system will be familiar to those of you active at all in either of these important activities. However, I ask that the rest of you interested in a healthy future of amateur radio also take time to at least read the introductory letter and hopefully skim through the report itself if you do not have time to study it more closely. I am interested in your comments.

As for my position, I am in favor of most, if not all of, the recommendations of the committee because of the value those recommendations have to the healthy future of the amateur radio service. Others seem less interested in what the ARRL membership wants. But I represent your interests as your representative, so I will make your comments known to the board of directors. If you take the time to write to me, I will take the time to read your comments. If you choose to write to our Atlantic division director Bill Edgar, N3LLR and our vice-director Tom Abernathy, W3TOM directly, please copy me as well so I can gain a sense of our section membership position on this.

73.And I'll see you on the radio.

Bob Famiglio, K3RF EPA SM

HOUSE BILL WOULD REQUIRE FCC TO EXTEND PRB-1 COVERAGE TO RESTRICTIVE COVENANTS

A bill with bipartisan support has been introduced in the US House of Representatives that calls on the FCC to apply the "reasonable accommodation" three-part test of the PRB-1 federal pre-emption policy to private land-use restrictions. HR.4969, the "Amateur Radio Parity Act of 2014" was introduced on June 25 at the request of the ARRL, which worked with House staffers to draft the proposed legislation. The bill's sponsor is Rep Adam Kinzinger(R-IL). It has initial co-sponsorship from Rep Joe Courtney.(D-CT). If the measure passes the 113th Congress, it would require the FCC, within 120 days of the Bill's passage, to amend the Part 97 Amateur Service rules to apply PRB-1 coverage to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). Presently, PRB-1 only applies to state and local zoning laws and ordinances.

"There is a strong federal interest in the effective performance of Amateur Radio stations established at the residences of licensees," the bill states. "Such stations have been shown to be frequently and increasingly precluded by unreasonable private land-use restrictions, including restrictive covenants."

The 11-page PRB-1 FCC *Memorandum Opinion and Order* is codified at Â§ 97.15(b) in the FCC Amateur Service rules, giving the regulation the same effect as a federal statute. In short, PRB-1 states that local governments cannot preclude Amateur Radio communications; they must "reasonably accommodate" amateur operations, and the state and local regulations must be the minimum practicable regulation to accomplish a legitimate governmental interest. Subject to those guidelines, municipalities may still establish regulations with respect to height, safety, and aesthetic concerns.

For 28 years, FCC regulations have "prohibited the application to Amateur Radio stations of state and local regulations that preclude or fail to reasonably accommodate Amateur Service communications," the bill points out, "or that do not constitute the minimum practicable regulation to accomplish a legitimate state or local purpose." Since PRB-1 was enacted, the FCC has said several times that it would prefer to have some guidance from Congress before extending the policy to private land-use regulations.

HR.4969 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure.

ARRL Hudson Division Director Mike Lisenco, N2YBB, is a principal advocate for the current legislative initiative to gain PRB-1 recognition for CC&Rs. Lisenco said the most urgent task now is to get additional co-sponsors to sign onto HR.4969

NOTICE NOTICE NOTICE

We are enjoying our superior new meeting quarters, but for that reason, it is also a very popular venue for many other groups. To reduce congestion as other scheduled activities end and folks try to exit, we have been politely asked to refrain from entering the lobby before 7:15. Your strict consideration is appreciated. With the nicer weather, a pre-meeting get together can be had in the pavilions near the parking lot area.

PENNSYLVANIA QSO PARTY 2014

October 11th and 12th are the dates for the 2013 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. This year the Bonus Station is W3TDF, operated by the QCWA Chapter 17. This will be a multi-county operation using Ray / W3TDF's call honoring his 90th birthday, and many years of record producing QSO party scores.



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.

AUGUST MEETING PROGRAM

Nikola Tesla Inventor, Engineer (c. 1856–1943)

Serbian-American inventor Nikola Tesla developed the alternating-current electrical system that's widely used today, and discovered the rotating magnetic field (the basis of most AC machinery)

Serbian-American inventor Nikola Tesla was born in July of 1856, in what is now Croatia. He came to the United States in 1884, and briefly worked with Thomas Edison before the two parted ways. He sold several patent rights, including those to his alternating-current machinery, to George Westinghouse. His 1891 invention, the "Tesla coil," is still used in radio technology today. Tesla died in New York City on January 7, 1943

His inventions include the "Tesla coil," developed in 1891, and an alternating-current electrical system of generators, motors and transformers—both of which are still used widely today. On the AC electrical system alone, Tesla held 40 basic U.S. patents, which he later sold to George Westinghouse, an American engineer and business man who was determined to supply the nation with the Tesla's AC system. He would succeed in doing just that, not long after purchasing Tesla's patents.

At the 1893 World Columbian Exposition, held in Chicago, Tesla conducted demonstrations of his AC system, which soon became the standard power system of the 20th century, and has remained the worldwide standard ever since. Two years later, in 1895, Tesla designed the first hydroelectric powerplant at Niagara Falls, a feat that was highly publicized throughout the world.

Around 1900—nearly a decade later after inventing the "Tesla coil"—Tesla began working on his boldest project yet: Building a global communication system—through a large, electrical tower—for sharing information and providing free electricity throughout the world. The system, however, never came to fruition; it failed due to financial constraints, and Tesla had no choice but to abandon the Long Island, New York laboratory that housed his work on the tower project, Wardenclyffe. In 1917, the Wardenclyffe site was sold, and Tesla's tower was destroyed.

In addition to his AC system, coil and tower project, throughout his career, Tesla discovered, designed and developed ideas for a number of important inventions—most of which were officially patented by other inventors—including dynamos (electrical generators similar to batteries) and the induction motor. He was also a pioneer in the discovery of radar technology, X-ray technology and the rotating magnetic field—the basis of most AC machinery.

Thank You, Doreen / K3PDL, For this exceptional Presentation

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.

PARTY BALLOON CARRYING RADIO PAYLOAD CIRCLES THE NORTHERN HEMISPHERE



A simple party-style balloon carrying a 434 MHz solar-powered Amateur Radio transmitter is nearing the end of its trip around the Northern Hemisphere. Launched on July 12 from the UK by Leo Bodnar, MOXER, the so-called B-64 balloon is expected to complete its final transatlantic crossing over Cornwall in the UK on July 31 or August 1. It then is expected to continue east into Europe. So far the balloon has traveled some 15,500 miles and traveled over 17 countries.

Radio amateurs and listeners within range may be able to copy B-64's Contestia 64/1000 digital mode signal on 434.500 MHz USB. While over the UK, the balloon will alternate Contestia transmissions with APRS, also on 434.500 MHz. The tiny transmitter runs just 10 mW output and weighs 11 grams.

The balloon has been tracked along the way using APRS and the UK High Altitude Society network over Europe, Siberia, and even briefly over North Korea before heading over Japan. It briefly passed over the US before swinging north into Canada. UKHAS reports that OX3XR in Greenland copied the B-64 transmission on July 29. The "B-64" designation denotes the number of similar balloons Bodnar has launched. The transmitter stores positions during its flight and transmits a log file displaying 5 days of previous locations in the comments field of its APRS transmissions. Bodnar's B-63 balloon is said to be about 12 hours behind B-64.

THE DLARC FORUM

A few years ago the Executive Committee established an electronic mailing list for D.L.A.R.C. Members and friends to provide an easy way to disseminate information on a timely basis. This mailing list is called the "DLARCforum" and all club members with email capability are welcome to join.

Joining the list is easy, just go to this website :<http://mailman.qth/mailman/listinfo/dlarcforum> and fill in the appropriate boxes. Instructions for the subscription process are available on the page. If you don't have internet service, but do have email service you can still subscribe by sending a subscription request directly to the list administrator, ka3jwe@arrl.net.

The DLARCforum is a "closed" list which means only subscribers can post messages, so your mailbox won't be filled with junk mail from unknown sources. The list uses a "text only" format which means, that only messages in plain text are passed. Messages received in HTML are filtered and stripped of any formatting before being sent out to list subscribers. The list will not accept or pass attachments such as files and pictures. This is done to eliminate the possibility of spreading any type of computer virus or other harmful programs. The forum is an "un-moderated" list, which means that there is no moderator screening messages before they are passed on.

Since its beginning, the volume of messages on the DLARCforum has been relatively low compared to other similar mailing lists. So don't worry your your inbox won't be overflowing with messages if you subscribe. There is also the ability to configure your preferences for the list to your personal liking.

So, please consider joining the list if you're not already subscribed. You'll be better informed about current club activities and also have the knowledge and experience of over half the membership at your disposal. Anything you want to know, all you have to do is ask!

de Don / KA3JWE List administrator

F.Y.I.

The October Program is Elections & Annual Awards Presentations – Charlie / W3OPA

The D.L.A.R.C. meets the "FIRST" Thursday of each month. Membership, friends and interested persons meet at the Bethlehem Township Community Center, 2900 Farmersville Road, 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.

QCWA Chapter 17 holds a net Monday evenings at 8:30 PM on 3960 +/- depending on conditions.

Mid-Atlantic D-Star Net meets each Tuesday at 7:30 PM. The following repeaters Dstar repeaters are available in the Lehigh Valley. W3OK -145.11000MHz -0.600 Port C – W3OI -147.16500MHz +0.600 Port C, – W3OI - 445.02500MHz -5.000 Port B All repeaters on the net are linked through **Reflector 020 port A**, so all stations checking into the net should make sure that they have *their local repeater call sign followed by the letter "G" in the eight position of the RPT2 field*. Otherwise, you will only be heard locally and not over the Reflector. Dongle users wishing to check into the net should Log On by connecting directly to Reflector 20, port A, rather than through your local repeater in order to conserve local bandwidth.

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.

The Clubhouse telephone number is 484-895-7038.

EXECUTIVE COMMITTEE 2012 – 2013 OFFICERS

President – Jay Mason / N3OW ----- president@dlarc.org
Vice President – Dave Blankenship / N3EYT ----- vicepresident@dlarc.org
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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 Township Community Center
TALK IN ON 146.700 (PL 151.4)

THE W3OK TRUSTEE --- Barry Vogt / N3NVA

**The W3OK Corral is published monthly and is the Official Publication of the
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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

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