

**DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.**  
**SEPTEMBER 2021**



***W3OK***

***CORRAL***

**Club Meeting September 2nd, 7:30PM**  
**At the Nancy Run Fire House**

**SEPTEMBER MEETING PROGRAM**  
**TBA**

**DLARC HISTORY**  
**Field Day 1883**



**John Correll, Rick / K3OO, Tony / K3ZUF**  
**and Tom / N3EBH in the back**



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### AUGUST MEETING MINUTES

President Jim Matlack / KC3MKP called the meeting to order at 7:35 p.m.

**President's Report:** Jim opened by thanking Ed / AA3OU for obtaining the social hall at Nancy Run. Jim said at the Club will be sending the Fire Company a donation at the end of the year. Jim said all Northampton county facilities with again require masks. Since the Milkhouse is on county property, using masks at the Club Station is required. He added, members should use their judgment when in the Milkhouse and have a mask if someone from the county should pop in.

Bob / KE3AW said the 911 Center is not allowing any group to use the facility; hence the Club does not have a location for classes. Bob said he was looking for alternative sites. Bob asked for any leads.

Jim reiterated the need for a Program Chair. He said there had been resistance for programs to be presented on Zoom and hoped that with our in-person meetings at Nancy Run, the resistance will abate.

Jim said Don / KC3II has decided to step down as Newsletter Editor and the Club is now searching for Don's replacement.

Jim said Stephanie / WX3K was not in attendance who was to give the Field Day report.

Jim said the Club continues to be in need of a Program Chair with the passing of Walt Tremer / KC3MNP. Jim added the Club is need for programs. Programs do not have to be radio related.

**Announcements:** George / N3SQD presented statistics concerning the rise in Covid infections specifically Northampton County. A discussion ensued.

Dave / N3EYT said the cost of a personalized amateur radio call sign license plate is \$11.

**Guests:** None

**Secretary's Report:** Larry / AB3TY, announced the Minutes for the July General Meeting. Steve / W3NAM motioned to accept. It was seconded by Dean / AB3BD and so moved.

**Treasurer's Report:** Larry / KC3JTK presented the report for June. Dean / AB3BD motioned to accept. It was seconded by George / N3SQD and so moved.

#### **Committee Reports:**

**Membership:** Membership Chairman Terry / KC3JHT was not at the meeting. Larry / AB3TY presented Eric Shaw / KC3SKY for membership. Eric is a Technician. Jim / KC3MKP motioned to accept Eric's application. It was seconded by George / N3SQD, and so moved. Larry said with Eric and 2 members renewing at the meeting, there are 154 voting members, 3 associates, and 9 life members for a total of 156.

**Club Station:** Jim thanked Steve / NS3L for his hard work as Station Manager. Adam / KC3OJA has taken over the position. Jim read an email from Adam who was not in attendance. The email detailed he had been in contact with George / N3SQD concerning the beam and controller. Adam also said that he would coordinate with the county Park Supervisor in reference to what needs to be removed from the Barn. George reiterated what had caused the rotator to fail and what repairs would be necessary. In lieu of contacting Charlie Adams / K3HKZ to have a climber scale the tower, George said he would fabricate an open loop controller to rotate the beam.

**Tech Committee:** Nothing to report..

**Website:** Larry / AB3TY reported no issues and explained to click on the arrows to the right of the items on the header to have drop-down menus appear. Larry said Dave / N3EYT has posted Field Day 2021 pictures.

**Repeater:** No issues reported.

**New Business:** John / NT3P said the date for nominations was approaching. John said the Board members agreed to stand for re-election. John added that any member interested in running for a position should email him at [NT3P@arrl.net](mailto:NT3P@arrl.net). John said that individual V.E. testing is available at either the Milkhouse or at a member's house until scheduled testing can resume. To setup a test, please contact him.

**Adjournment:** There being no further business, the meeting was adjourned at 8:36 p.m. Steve / NS3L made the motion. It was seconded by Steve / W3NAM and so moved.

**Program:** None

### SEPTEMBER QUICK CHECK CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 DLARC Net (N3WR)	2 DLARC MEETING 7:30 PM	3	4
5	6	7	8 DLARC Net (K3PDL)	9	10	11
12	13	14	15 DLARC Net (KC3MKP)	16	17	18
19	20 DLARC BOARD MEETING	21	22 DLARC Net (W3CE)	23	24	25
26	27	28	29 DLARC Net (KC3II)	30		

### SEPTEMBER CONTESTING AT THE OK CORRAL

- September 4 & 5 – Russian RTTY World Wide Contest
- All Asian DX Contest – SSB
- September 11 & 12 – WAE# DX Contest - SSB
- ARRL September VHF Contest
- September 18 & 19 – SARL VHF/UHF Digital Contest
- ARRL 10 GHz and Above Contest
- September 25 & 26 – CQ WW DX Contest – RTTY
- AGCW VHF/UHF Contest

### 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.

### 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@arrl.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 and EMA issued IDs will be needed to be on the scene of an emergency.

### NEW MEMBER

The DLARC is continuing to grow, so be sure to greet our new member, shake his hands, and give them a warm welcome to our club. The newest member is Eric Shaw / KC3SKY.

### PROGRAM CHAIRPERSON

Walt KC3MNP, our program director, has Become a Silent Key. A chairperson is needed for scheduling and presenting programs for the monthly meetings. For more information contact any board member, at their addresses listed at then end of this newsletter.

### WEDNESDAY EVENING DINNER CLUB

Don't forget the Wednesday Evening Dinner Club. Club members get together for dinner prior to heading up to the "Milkhouse" for the weekly gathering. Listen to the Wednesday Net for the following weeks location. Each week is a different location. Also it is posted on the club FORUM. A fun get together!

## W3OK CLUB STATION

The W3OK Club station better known as the milk house boasts 4 stations with a multiple Yaesu's (various models) and a Kenwood TS-590. A computer for each station offering several logging software including Log 4 old men, WJST-X, N1MM, and Ham Radio Deluxe. Each station can be used for CW and digital. Also hooked up to the Kenwood is an amplifier than can be utilized. The milk house boasts a beam antenna (which is pointed NW and planning on being fixed in the near future) and boasts dipole antennas that handle 6m-180m. So there is a variety of modes and bands that can be worked on one of the many antennas. We do offer D-star through our gateway. Milkhouse has a linked 2m/70cm/6m repeater system. As our 2 meter system is located at the milk house and the 70cm is located off of Levis Road in Nazareth, Bushkill Township. The milk house is open Wednesday evenings at 7 and Saturday Mornings at 9. Masks are required due to Northampton County requirements.

## 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 " WORDS "

The winner is **Sharon / N3SET**



## SEPTEMBER BRAINTEASER

What flies without wings?

## PA QSO PARTY 2021

This year's PA QSO Party is to beheld on October 9<sup>th</sup> & 10<sup>th</sup>, the first full weekend in October. Here we are in September and now is the time to check antennas and other necessary equipment so as to be ready. In the past the DLARC has won the club championship and members have won the individual county awards. So lets step up and see what we can do this year. All information can be found on their web site – paqso.org.



## 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.

## LOOKIN' FOR DLARC MEMBERS' HELP

Each spring and fall for the past number of decades DLARC has offered classes in preparation for the FCC ham license tests. I suppose many reading this message may have gone through the classes, as I did back in 1990. The classes have proven to be very helpful to passing the license exam, but also in allowing new hams to get some ideas of how they might set up their unique stations, learn on-the-air protocol, experience hands-on transceivers, to name a few additional information beyond the FCC exam. Each of the two sessions per year, spring and fall, have been scheduled for 10 Tuesday evenings, 7: 00 p.m. to 9:00 p.m. The 10th session is dedicated to VE testing for those in class as well as non-students.

We want to continue the classes, but this year we are facing a problem. We need a room for the fall series of classes. The room at the 911 Center cannot be guaranteed for us at this time. Although we would like to start classes on the traditional day after Labor Day, we may need change the start day and date, and /or class times when we find a location. We'll cross that bridge when we come to it!

So, here is where your help can be valuable. We are looking for leads from anyone who knows of a possible meeting room(s) in a school, library, church/synagogue, fire hall, municipal building, etc., which could meet our needs, and if so, would you please pass that information to us - with the contact name and phone number if known. We are most interested in locations near the center of Northampton County, but will appreciate all leads to pursue.

Contact: Bob Green/KE3AW [KE3AW@ARRL.NET](mailto:KE3AW@ARRL.NET) or phone 610.419.9286

TNX,

Bob/KE3AW

## ***The Emmaus Halloween Parade. 2021.***

After missing a 2020 Emmaus Halloween parade due to the Covid-19 pandemic, official plans and preparations already have begun for the 2021 event!

***The date of the parade is Saturday, October 16 @ 7:30 with a rain date of Sunday October 17 @ 6:30.***

**NOTE:** This will not cause any conflict with the annual PAQSO Party, [October 9](#) and 10! The Emmaus Halloween Parade is one of the longest Halloween Parades in the Lehigh Valley. Typically, many thousands of spectators line both sides of the 2.2 mile route. For a safe and successful event reliable communication is needed throughout the entire time, between the parade staff and police, fire and ambulance services. This is where our club members come in. as we in parades in the past 25+ years.

DLARC will participate in the parade with 15 amateur radio operators; 14 in their personal vehicles moving and interspersed within each division. Our responsibility is to provide Safety and Welfare service communication. We keep the parade marshal alerted of any pauses in the walking the parade. Additionally, inappropriate behaviors of spectators and parade participants - irregularities observed by hams, and passing messages to and from the pedestrian parade officials along the route and the parade marshal, via reporting through our net control (our 15th ham), who will shadow the marshal throughout the parade.

It is an authentic, valuable communications service, and we are respected by the Emmaus Parade Officials for the work we do. We help them meet their goal of a community activity of safe fun in a seasonal parade, with that has a minimum number of interruptions and breaks in the flow.

***After the parade we convene at the Superior Restaurant (across from the exit of the parade onto Main Street/State Street) for a "Dutch Treat" - a cup of coffee, perhaps, or a full-course meal, but surely a good social time together a recount experiences of the evening. Spouses and friends are allowed to ride with you, as long as you can assure they will cause no distractions; no loss of your attention on the route to the ham operator.***

We use a local repeater for our transmissions. What you need to bring is at least a 2-meter HT, fully charged, preferably with a power cord to run it from the vehicle, or a mobile radio which includes 2-meters, and an antenna, i.e., a mag-mount on your vehicle.

Again, we are looking for DLARC member hams available for the parade. First time participants will be given full review of details of examples in the past; they also will be slotted in the second half, or so, in order to hear/learn the protocol being used.

***Please contact me, Bob/KE3AW  
at [610.419.9286](tel:6104199286) or [KE3AW@arrl.net](mailto:KE3AW@arrl.net),  
with your interest and/or questions  
as well as your commitment to  
participate, of course.***

***de, Bob/KE3AW***

## **HF RADIO PROPAGATION AND SUN SPOTS**

- an overview of the basics of the effects that sunspots have on HF radio propagation and radio communications in general including two way radio communications, maritime mobile radio communications, mobile radio, radio broadcasting and amateur radio communications.

### **Solar effects on propagation includes:**

As electromagnetic waves, and in this case, radio signals travel, they interact with objects and the media in which they travel. As they do this the radio signals can be reflected, refracted or diffracted. These interactions cause the radio signals to change direction, and to reach areas which would not be possible if the radio signals travelled in a direct line. HF radio communications of various forms including two way radio communications, maritime mobile radio communications, radio broadcasting, amateur radio communications, and in fact any form of radio communications that uses the HF bands and ionospheric radio propagation is very dependent upon the state of the ionosphere. The higher the levels of radiation received from the Sun, the greater the levels of ionisation in the ionosphere and in general this brings better propagation conditions for HF radio communications.

It is found that the number of sunspots on the Sun has a considerable effect on the levels of radiation emitted and hence impacting on the ionosphere. In turn this has a marked effect on radio communications of all forms. Sunspots are therefore of great interest to anyone involved in HF radio communications, as it affects the radio propagation conditions so significantly.

### **What are sunspots?**

If the sun is viewed by projecting its image onto a screen, dark areas can be seen from time to time. These can last anything from a few hours right up to several weeks. These spots are cool areas (relatively speaking) on the surface of the sun. The temperature is around only 3000°C against a sizzling 6000°C for the rest of the surface. It is much hotter under the surface reaching temperatures in excess of a million degrees Celsius.

### **A word of warning**

Under no circumstances should the sun be viewed directly, even though dark glasses. In the past many people have had their sight damaged by doing this.

These sunspots are areas where there is intense magnetic activity. The fields in these areas are enormous and as a result the surface of the sun is disrupted. In these areas the surface cools dramatically causing a darker region to be perceived.

Around the sunspot there is an area called a plage. This is slightly brighter than the surrounding area and it is a large radiator of cosmic rays, ultra-violet light and X-rays. In fact it results in the overall level of radiation coming from the sun to increase. In turn this increased radiation level from around the sunspots causes the ionosphere to become ionised to a greater extent. This means that higher frequencies can be reflected from the ionosphere.

As sunspots appear in groups, especially the larger ones a sunspot number was devised. This is not the number of sunspots that are observed but a number indicating the level of sunspot activity. The number is very closely related to the actual amount radiation received from the Sun. In this way it is a good measure of solar activity. The daily readings are smoothed mathematically to take out the erratic variations to give the Smoothed Sunspot Number. Sometimes the abbreviation SSN is seen, and it is this smoothed sunspot number that it refers to.

### **Eleven year cycle**

The number of sunspots on the surface of the sun varies with time. At times very few or even none may be visible, whereas at other times the number is very much greater. Although the number varies greatly over short periods of time as the sun rotates, careful analysis using the SSN reveals a longer term trend. It is found that over a period of approximately eleven years over which the sunspots vary. At the peak of this cycle conditions on the bands at the top of the short wave spectrum are very good. Low power stations can be heard over remarkably long distances. At the bottom of the cycle bands around 30 MHz will not usually support normal propagation via the ionosphere.

Sunspots have been observed by the Chinese since before the birth of Christ. However it was not until the mid-eighteenth century that astronomers started to keep records of sunspot numbers. By looking at these over the years it is possible to see the trend since then, and the cycles which have occurred since then. Cycle number 22 officially started in September 1986. It started with a sunspot number of 12 and rose rapidly over the following 33 months to reach a peak of 158. From its peak the sunspot number fell slightly and rose again to give a second, smaller peak before falling to bring the cycle to an end in 1996

### **Summary**

The sunspot activity is of great importance to anyone involved in HF radio communications. Whether two way radio communications, maritime mobile communications, general mobile communications, point to point radio links, amateur radio communications, radio broadcasting or whatever form of radio communications. The level of sunspot activity has an enormous effect on the ionosphere and hence on HF radio propagation conditions. Accordingly even a superficial understanding is advantageous.

## **IMPORTANT NOTICE**

Please check the web page roster listing. It is important that your telephone number and email address are correct. This is the only way we can contact members. If you do not receive the newsletter in your email and are registered for the phone tree and do receive the notices by phone, your email address is incorrect on the roster, and the same for your telephone number.



## **Delaware-Lehigh Amateur Radio Club History**

### **Chapter 8**

#### **The Seventh Decade, 2006-2015**

##### **Presidents**

Five people served as DLARC President during this decade: William Twaddell N2DH in 2006-2007; Alfred W. Wiemann W3CE in 2008-2009; George E. Wieland III N3SQD in 2010-2011; Charles Lazarchak W3POA in 2012-2013; and Jay D. Mason N3OW in 2014-2015.

##### **Meetings and Membership**

During the course of the decade, the club held its monthly meetings at four locations: the Northampton County 911 Center, Nancy Run Fire Company, Bethlehem Area Vocational-Technical School, and Bethlehem Township Community Center. Two speakers drew substantial audiences. Riley Hollingsworth K4ZDH, retired special counsel for the Spectrum Enforcement Division of the FCC Enforcement Bureau, arrived in the Lehigh Valley courtesy of DLARC Air (George Wieland N3SQD). His well received talk was held at Lehigh University to accommodate the multi-club interest. Astronaut Terry Hart's program drew almost 120 people, including 38 youths, to learn about the space program and his flight on Space Shuttle Challenger.

In 2008, to try to increase membership, the club mailed 1,150 applications to hams with 180xx and 181xx Zip Codes. To encourage interest in meetings, meetings during 2011 featured monthly contests, such as best Hawaiian shirt, tie, hat, cowboy boots, etc.

##### **Newsletter and Communications**

In 2006, the club amended its constitution to allow alternate means of distributing the newsletter. As a result, it was decided to discontinue the mailed hard copy and instead post the newsletter on the Internet. However, due to member requests, the club agreed to provide a printed copy to anyone who paid \$10 a year to cover the cost.

In 2009, the club announced a new award – the Electric Fence Award (renamed the Barbed Wire Award) for the best member contributed article during the year. Barry Kery KU3X was the first (and only recorded) recipient. The club also joined Facebook that year.

##### **Awards**

In 2008, the club's ARRL Special Service Club status was renewed after short hiatus due to a paperwork error. Northampton County issued a proclamation to the club, thanking county amateurs for their service.

Nine members were granted honorary membership during the decade: Raymond P. Bilger W3TDF, William N. Goodman K3ANS, Robert A. Green KE3AW, and Amy Zimmerman KD3TI (posthumously) in 2008; Kenneth E. Gruver N3IYX, Barry G. Kery KU3X, Pete Varounis NL7XM, and Alfred W. Wiemann W3CE in 2010; and George E. Wieland III N3SQD in 2012. The club purchased a large permanent plaque to display the names of honorary members.

The Amy Zimmerman Award "In Appreciation For Unselfish Services Rendered To Amateur Radio And The Community" was presented to Alfred W. Wiemann W3CE in 2008 and Charles Lazarchak W3OPA and S. Bryan Williams AA3WM in 2010.

The Taking the Bull by the Horns Awards for service to the club during the previous year were created by Charles Lazarchak W3OPA in 2008.

##### **Club Station**

The club station in the Milk House received many upgrades during the decade. The Milk House was connected to the Internet in 2007. In 2009 Northampton County purchased emergency communications equipment – a Yaesu FT-450 with desk mike and a Pactor III modem – and donated several used laptop computers to the club.

Wednesday nights at the Milk House were drawing more members and a dinner club was added in 2010. The county removed its racks and equipment from the Milk House, making more room for seating. The 145.11 repeater was converted to D-star and the club bought an ICOM 706 Mark II G. After more than 15 years of service, the main multi-band antenna on the tower failed and was replaced. Laurie Hartranft KB3SIK won the contest to design a new DLARC QSO card and received a one year membership as her prize.

The club was proud to proclaim that, with the exception of EME and satellite operations, the Milk House was capable of operating virtually any mode, on any band available to the amateur radio operator. There were 5 operating stations.

In 2011 the county removed the generator from the back room of the Milk House and club members set to work fixing up the space for club use. The county bought a repeater controller, a 2 meter repeater (to replace the D-star repeater), and a 70 cm repeater for amateurs to use in 2013.

In 2015 the club acquired a Winlink 2000 Go kit and installed a 40 meter Delta loop at the Milk House.

### **Operating Events**

Norman Zoltack K3NZ died in August 2007. The club presented his widow Nancy with a plaque honoring Norm, and to recognize his many contributions to the club and his devotion to contesting, the club established the DLARC K3NZ PAQSO Award, to be given to the club member with the highest score each year in the PAQSO contest. Jay Mason N3OW was the first winner with a score of 199,630.

Although DLARC did not take any first place trophies in the PA QSO Party, the club continued to post respectable scores, placing 4th in 2009, and 3rd in 2010. In 2008 W3OK, the PA QSO bonus station, awarded almost half a million points.

In 2008, the club offered a new contest, the Old DLARC Fiftieth Anniversary Radio Trophy Sprint. This was a 1 hour event for members to contact other members on 2 meter FM simplex (no repeater contacts allowed). The first winner, Carl Seier AA3IX, received a plaque.

After holding Field Day at the Plainfield Farmer's Grove for 19 years, the club moved the event to Louise Moore Park in 2011.

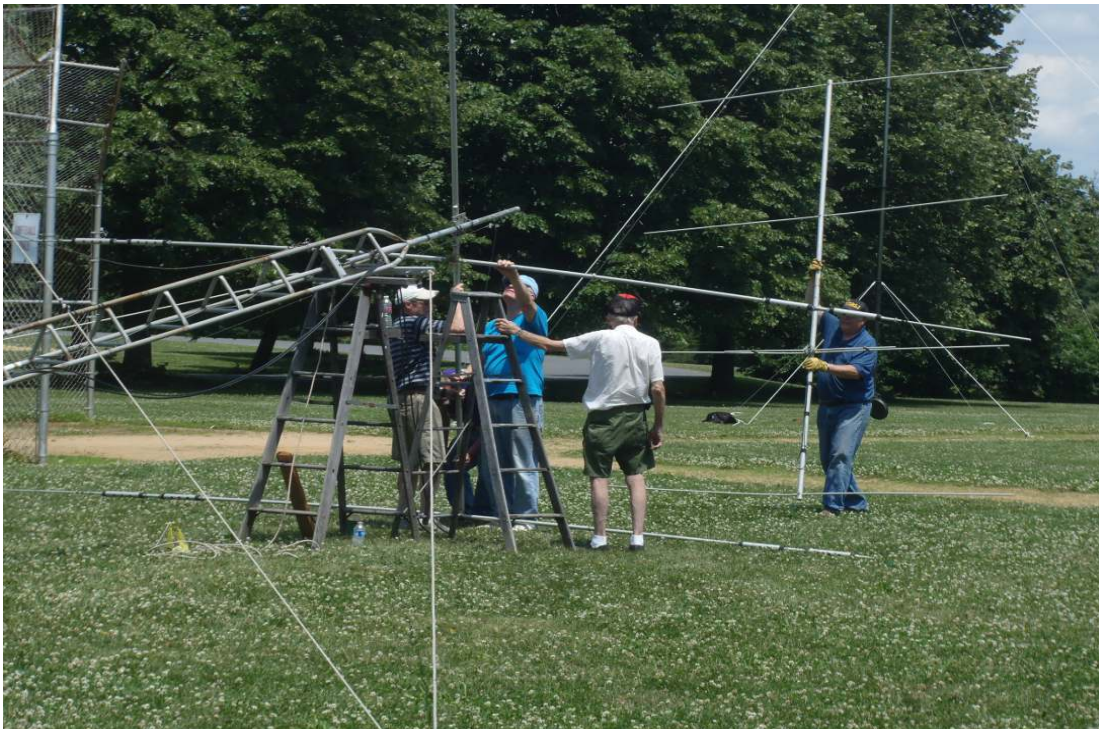
### **Service Events and Activities**

DLARC sponsored trips to ARRL Headquarters in Newington, CT in 2011 and 2014. Members also took a trip to the Battleship New Jersey in Camden in 2011.

During this decade, like previous ones, club members volunteered for a wide variety of service events, such as fun runs, charity walks, bicycle rides, parades, and demonstration stations at libraries and schools. In 2008 club members traveled to Kutztown University to set up an amateur radio demonstration for a weekend Boy Scout jamboree.

During the decade, four members served as Northampton County Radio Officer: Richard Dech KA3MOU; Don Holmes KC3II, Alfred Wiemann W3CE and George Wieland N3SQD. Club members mobilized for two major emergencies during the decade. In 2009 a chemical tanker upset on Route 33 in Plainfield Township. This accident caused the evacuation of Wind Gap and surrounding area. The evacuees were housed in the Pen Argyl High school. DLARC manned stations in the Emergency Operations Center and the high school and handled communications between the two locations.

In 2012, during the widespread destruction caused by Hurricane Sandy, club members put in 170 hours of service at emergency shelters, the Emergency Operations Center, and the Plainfield and Wind Gap fire stations. The National Guard provided transportation to get operators to their assignments.



**Erecting an antenna at Field Day at Louise Moore Park, 2014**





### **Operating Stations Field day 2014 DLARC ARCHIVES**

Thank you to Pete Varounis NL7XM for donating membership lists from 1991 to 2012 to the club archives. If you have any DLARC related material and photos for the club archives, contact Barb Wiemann W3ATC, 619-262-6977, [blwiemann@gmail.com](mailto:blwiemann@gmail.com). If you want to keep originals, we can photo copy or digitize material for the archives



### **BACK AGAIN AT THE NANCY RUN FIRE STATION**

The DLARC August meeting was held at a new location, but was also a return to an old location. The Nancy Run Fire Company opened it's door to us again. Ed / AA3OU made it all possible.

## F.Y.I.

The October Program will be **"Elections and Awards"**

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.

### NORTHAMPTON COUNTY 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 147.350 ( DCS 315 ) W3OI Repeater.

QCWA Chapter 17 holds a net Monday evenings at 8:30 PM on 3960 +/- depending on conditions. Other inputs are the 146.85 repeater, (151.4 PL) and Echolink at K2PM-R.

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.

### EXECUTIVE COMMITTEE 2020– 2021 OFFICERS

President – Jim Matlack / KC3MKP ----- president@dlarc.club  
Vice President – Steve Harper / W3NAM ----- vicepresident@dlarc.club  
Secretary – Larry Laplan / AB3TY ----- secretary@dlarc.club  
Treasurer – Larry Butler / KC3JTK ----- treasurer@dlarc.club

### BOARD of DIRECTORS

Gabe Lantos / KZ2A ----- gpl-3639@gmail.com  
Dean Guth / AB3BD ----- babydean1@hotmail.com  
Stephanie Koles / WX3K ----- wx3k@arrl.net  
Steve Nordahl / NS3L ----- ns3l@yahoo.com  
John Barbaz / NT3P ----- nt3p@arrl.net  
Adam Gauntz / KC3OJA ----- [agemt1@aol.com](mailto:agemt1@aol.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 Township Community Center

TALK IN ON 146.700 (PL 151.4 )

Club Station Telephone Number – 484 291-1527 Email Address – w3ok146700@gmail.com

### THE W3OK TRUSTEE --- Barry Vogt / N3NVA

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DELAWARE LEHIGH AMATEUR RADIO CLUB INC.

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