

**DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.**

**APRIL 2019**



***W3OK***

***CORRAL***

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

**APRIL MEETING PROGRAM**

**“Audio Aspects Of Amateur Radio”**

**Pete / K2PM**



**“CISM” – Critical Incident Stress Management  
Joel / WB3IWC**

## MARCH MEETING MINUTES

A General Meeting of the Delaware-Lehigh Amateur Radio Club was held on March 7, 2019 at the Bethlehem Township Community Center, Bethlehem, PA.

President, Stephanie Koles, WX3K called the meeting to order at 7:30 p.m.

**President's Report:**

- a. Stephanie announced the passing of two Club members: William VanHorn, Jr., K3CP, a life member and one of the founders of the Club, and Robert Heisler, Jr., KC3FXG, a member since 2015.
- b. The Club will again be a sponsor of the Youth Forum at this year's Hamfest. A check has been sent to The Radio Club of America.
- c. Because of a mixup in 2017, the Club has received a full refund for its unused sponsorship grant for the PA QSO Party that year.
- d. We received a \$500 donation from TDBank, thanks to the efforts of Steve Levine, K2OPA.

**Secretary's Report:** JoAnn Schaffer, ND3JJ, announced that the Minutes for February 2019 General Meeting were emailed to the membership on February 28, 2019. Jay Mason, N3OW, moved that the Minutes be accepted as submitted; it was seconded, and so moved.

**Treasurer's Report:** Mike Gower, KB3LOD, gave his report of the Club's financial status as of January 31, 2019. Evelyn Uhler, W3DOY, moved that the Treasurer's Report be accepted; it was seconded, and so moved. Mike noted that DLARC's taxes have been filed for 2018.

**Committee Reports:**

Club Station: Les Morrow, W3LES, reminded members that we will be accepting bids for surplus Club equipment until March 31.

Membership: Membership Chair Terry Swinney, KC3JHT, announced an application for membership from Ian Rufe, KC3KOP. Jay Mason, N3OW, moved that his application be accepted; it was seconded and so moved.

Field Day: Jim Matlack, KC3MKP, has volunteered to chair this year's Field Day. Because he is new to the Club, members have been asked to use the sign-up sheet either at the Club Station, so that he knows who he can contact for assistance.

**Old/Unfinished Business:**

Dave Blankenship, N3EYT, Bob Green, KE3AW, and Steve Hunt, N2IYR, volunteered at the **Amateur Radio Corner** in the **National Museum of Industrial History**, where they interacted with groups of third graders. There were equipment problems, however, David managed to pick up someone on 20 meters from the Salvation Army station in Oklahoma. The radio exhibit is open from Wednesday thru Sunday, and the Museum is working on a form for volunteers.

**New Business:**

Al Wiemann, W3CE, moved that a donation be made to the Wounded Warriors Project to honor the memory of **William VanHorn**, which was seconded and so moved. The amount of the donation will be determined by the Board.

**Adjournment:** There being no further business, the meeting was adjourned at 8:07 p.m.

Minutes submitted by

**Secretary, JoAnn Schaffer / ND3JJ**

### APRIL QUICK CHECK CALENDAR

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 <b>APRIL FOOLS DAY</b>	2	3 DLARC Net (K3PDL)	4 <b>DLARC Meeting 7:30 PM</b>	5 <b>NO VE SESSION</b>	6
7	8	9	10 DLARC Net (W3NAM)	11	12	13
14 Palm Sunday	15 <b>TAX DAY</b>	16	17DLARC Net (ND3JJ)	18	19 Good Friday Passover Begins	20
21 Easter	22	23 <b>DLARC BOARD MEETING</b>	24 DLARCC Net (K3ACW)	25	26	27 Passover Ends
28	29	30				

### VE TEST SESSION

There will not be a test session this month. The next session will be on May 3<sup>rd</sup> at 7 PM at the Northampton County 911 center. Pretest registration is required. Contact John / NC3P at nc3p@arrl.net

### NEW MEMBER

The DLARC is continuing to grow, so be sure to greet our new member, shake his hand, and give them a warm welcome to our club. The newest member is Ian Rufe / KC3KOP.

### APRIL CONTESTING AT THE OK CORRAL



- April 6 & 7 – SAAR VHF/UHF Digital Contest
  - SP DX Contest
- April 13 & 14 – OK/OM Dx Contest – SSB
  - F9AA Cuo – PSK
- April 20 & 21 – Worked All Provinces of China DX Contest
  - CQMM Dx Contest
- April 27 & 28 – UKEICC 80 Mtr Contest
  - 10-10 International Sprong Contest – Digital.
  -



### ***Silent Key***

***The D.L.A.R.C. Wishes to honor and to express its sadness at the passing of a club member, Past resident and Board member. An original founder and long time member .***



***William "VAN" Van Horn / K3CP***

### ***Silent Key***

***The D.L.A.R.C. Wishes to honor and to express its sadness at the passing of a club member or former club member.***

***Bob Heisler / KC3FXG***

**MARCH PROGRAM REPORT**  
**“CISM” – Critical Incident Stress Management**  
**Joel / WB3IWC**

CISM is designed to help people deal with their trauma one incident at a time, by allowing them to talk about the incident when it happens without judgment or criticism. The program is peer-driven and the people conducting the interventions may come from all walks of life, but most are **first responders** (Police, Fire, emergency medical services) or work in the mental Health field . The emphasis is always on keeping people safe and returning them quickly to more normal levels of functioning.

Normal is different for everyone, and it is not easy to quantify. Critical incidents raise stress levels dramatically in a short period of time and after treatment a new normal is established, however, it is always higher than the old level. The purpose of the intervention process is to establish or set the new normal stress levels as low as possible.

This method of stress treatment began in the 1970's in Baltimore, Maryland, when a local fire chief use this method to lead the firemen under his command. Joel has been active in the service for 17 years, with the aid of his dogs.

Joel spoke on his experiences and just how the dogs were able to aid the traumatic people. He came out of first responders and also had been a dispatcher, so was well aware of the stress that experiences to cause. He told of one of his dogs that could pick out someone with high stress levels, and would stand by him trying to aid that person. He even related how the dogs even reached high stress levels, and his dogs became overstressed during the 9/11 disaster, and had to be removed from the scene to return the following day. He gave more of his personal experiences and how satisfying they were when people were able to return to normal.

Joel ended up with the usual question-and-answer session. Another outstanding program from the committee and from Joel himself.

**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

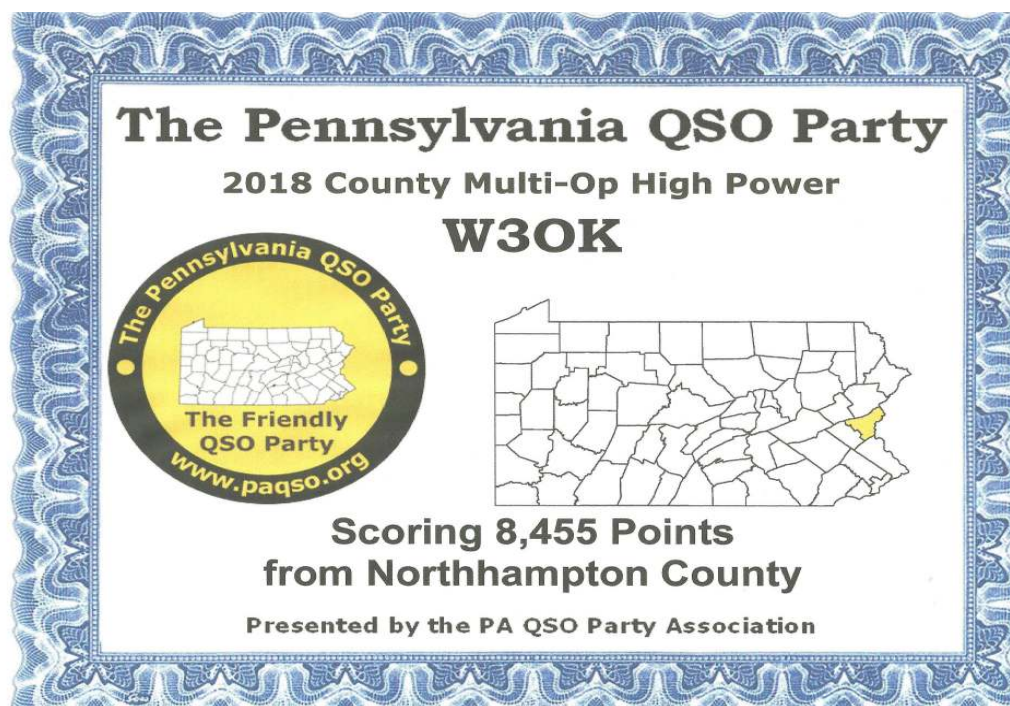
**March BRAINTEASER ANSWER**

The winner is **NO WINNER**

**APRIL BRAINTEASER.**

**A dealer ordered a picture 12 inches by 18 inches to be framed so that it would cover just twice its former wall space, the frame to be of uniform width. How wide should the frame be?**

**2018 PA QSO PARTY AWARD**



**'DON'T TOUCH THAT DIAL' NATIONAL INDUSTRIAL MUSEUM**  
 Photos from Dave / N3EYT & Doreen / k3PDL



## FIELD DAY 2019

Jim / KC3MKP is the Chairman for this years Field day, June 22 & 23. He will be needing assistance with many aspects of the event, Contact him at [kc3mkp@arrl.net](mailto:kc3mkp@arrl.net).

## REFLECTIONS FROM THE PAST



Field Day 2011, Louis Moore Park, just before the antennas came down

### AMATEUR RADIO ABOARD DURING ATTEMPT TO BECOME OLDEST CIRCUMNAVIGATOR

Jeanne Socrates, VE0JS/KC2IOV, is used to solitude. The lone 76-year-old yachtswoman passed the southern tip of Africa — some 300 miles to the north — on Valentine's Day as she forged on toward Australia and New Zealand in her 38-foot sailing vessel Nereida. While underway, Socrates keeps in touch with a community of friends via Amateur Radio — although she had to yield to the ARRL International DX CW activity over the weekend — and she's sticking to a schedule of 7.160 MHz at 0230 UTC daily. Socrates reported making contact with some ham radio friends on the US west coast on February 17. She's been blogging her progress.

The retired math teacher and UK native also is no stranger to circumnavigating the globe, having already become the oldest woman to complete a solo, non-stop, unassisted round-the-world voyage. Ham radio served as her link to terra firma during her earlier adventures. Since 2013, she's made two additional attempts to become the oldest person to circumnavigate Earth, the goal she's now attempting to achieve. She departed Victoria, British Columbia, last October.

Two earlier attempts were cut short when her vessel was damaged in rough seas. Then, she suffered serious injuries in a fall last year.

Socrates is working around a damaged mainsail. "We seem to be having many more days of light wind giving slow speed, than stronger wind giving good speed — need a wind of well over 15 knots and, preferably, for us to be headed downwind. Any upwind travel immediately gives poor boat speed — that's when the damaged mainsail is badly missed," she recounted in a recent blog entry. She's been using the vessel's trisail — typically used for high-wind conditions — because the Nereida's mainsail repair was showing signs that it might not hold up in the wind. Socrates said she'll continue to work on the mainsail as time permits. — Thanks to Southgate Amateur Radio News for some information

### HOW TO CLEAN UP AFTER A BATTERY LEAK

Many hams have had the unfortunate experience of old batteries leaking in a piece of gear or a flashlight, creating a mess. Business technology news site ZDNet recently offered [its](#) procedure for cleaning it up. The brief online presentation recommends taking some precautions about coming in contact with the white discharge -- specifically potassium hydroxide in the case of alkaline cells, a caustic irritant. An old toothbrush or something similar can start the project, along with a small scraper, and cotton swabs dipped in water. Start by removing and properly disposing of the bad cells and then brushing out the worst of the material -- preferably outdoors or over a container to catch the remnants.

The article advises against using any sort of acid such as vinegar or lemon juice, lest it cause corrosion problems of its own. It suggests a fiberglass scratch brush for scrubbing the battery compartment contacts clean, although other tools may work as well. Deoxit D5 or similar contact cleaner also comes in handy, with a tiny dab of dielectric grease or silicone paste as a finishing touch to inhibit future corrosion if a leak occurs. Other tips to head off problems down the road include using only name-brand batteries, avoiding mixing old and new batteries, removing batteries from devices not in use, avoiding exposing batteries to extreme heat or cold, and minding battery expiration dates.

## **LAWN ANTENNA**

### **James R, Kellner / K2MIJ**

Ok Gang in case you don't remember me....I am the guy who ran a couple of "Forks" as a dipole awhile back and actually worked W1AW/5 Oklahoma running 5 watts SSB from my trusty Yaesu FT-817

....Well I have a new one for you and help will be appreciated to reach my goal!

Four days ago I received a text from my portable ops partner that 15 meters was showing some signs of opening, We had been discussing for awhile now at the lackluster band condx, I texted him back that I had noticed condx. seeming to be improving and that while cleaning the shack I found the "Fork Antenna" and had been giving it a good workout trying to get myself a spot on the RBN or possibly another contact with it.

He laughed and said "Knowing you, I am sure you will succeed" Standing in the yard while we were texting I noticed the two empty folding aluminum lawn chairs sitting there and I said to him "Perhaps I'll see if I can throw some RF into a couple of lawn chairs and see what happens!

Well of course as soon as we finished our conversation I folded up the two chairs, stuck one under each arm and off to the shack I went. Five minutes later "The Lawn Chair Antenna" was born!

Running the 817 @ 5 watts into my favorite LDG Z11 AT, 6 feet of RG8X coax and a 4:1 balun the chairs loaded without a hitch on 10 thru 40! (40 you say...keep reading)

But would it radiate? I threw out a quick "CQ CQ de K2MIJ K2MIJ" on 20 meters and was immediately spotted by N7TR Reno Nevada. Eureka, Success! Could it actually work? IS DX possible?

I started working in earnest from that moment and the results have nothing less than amazing! First contact was with John N0JA in MO 20 meter SSB John gave me a 52 and I was ecstatic! Next up was Morris W4REX in FL a 53 report on 17 meters SSB and the mind blowing contact of the day was my 3rd QSO, Lacy HA3NU in Hungary on 17 meters SSB a typical 59 "contest exchange" report...BUT....I made it across the pond with 5 watts into a pair of lawn chairs sitting on a bed inside the shack!

I was getting a complex, I could work phone contacts without a problem but a CW contact was an effort in futility

Finally after a number of attempts....my 1st CW contact with K1GHL on 40 meters was a complete delight! The LDG Z11 tuner found a match quite easily on 40 meters but making a contact I thought would be at best a stroke of complete luck given the antennas obvious inefficiency at that low of a frequency...Boy was I ever wrong! My first CQ out of the box netted me an RBN spot by VE2WU with a SNR of 9db! As I was picking myself up off the floor it took me a minute to realize that was my call coming back through the speaker...K1GHL Glenn in upstate NY gave me a 559 report but disappointingly came back on the next go around saying he had lost me in the noise and bid me a 73...Crestfallen, I soon was to have my spirits lifted when immediately after Glenn, Art W2NRA called me and we completed a solid 5 to 6 turnover QSO and a good SKCC exchange! I

now have 6 completed 2 way CW contacts on 40 meters. Furthest distance is New Hampshire with Randy KX1NH.... Yes the lawn chairs will work on 40! My 1st CW DX contact finally came via S.E. station AO8BWC Canary Islands on 20 meters... AO8BWC Canary Islands on 20 meters..

In the past 4 days, CW and/or SSB, I have so far put 55 domestic and DX contacts in the log, 14 states NH, NJ, NY, FL, GA, AL, IN, MI, WI, IL, MO, AR, TX and CO and 9 countries Hungary, Canary Islands, Germany, Sweden, Ireland, Poland, Czech Republic, Wales and Russia!

I know, took a long time to get to the subject line help request but here goes, I started this completely as a lark but after seeing how well it can and will work...I am now looking to seriously attempt Worked All States...IF you would like to help me on my quest I would be happy to have you in my log either CW or SSB. I will post here on the list from time to time when and where the "Lawn Chairs" will be operating. I will also spot myself on the QRP spots site...TNX in advance!

Well Gang Summer is winding down and Fall is right around the corner... before you sadly drag those lawn chairs into the garage or shed for their long Winter nap, why not extend their life and tuck a couple under your arms and bring em into the shack instead! Don't worry about that the Wife or Kids will think your crazy, Trust me, You're a Ham...They already know it!

1st time using Dropbox so hopefully if I have done everything correctly you can see some pictures of the Lawn Chair antenna in it's operating position...also I included a couple of links to some youtube videos. One while I worked Jim NV9X IL in this past weekends SKCC Weekend Sprint(if you watch the video don't ask me why I pronounced Illinois as "Ill e noise", I have no clue!) and a SSB contact with HG7T in the WAE contest..

## **TESTING JIG EASES JOB MEASURING JUNK BOX RESISTORS**

Paul Danzer, N1II, was faced with sorting a box of 100 old resistors to verify their approximate values. The idea of attaching digital multimeter clip leads to each resistor 100 times was not very appealing. His solution was to build a fixture from thin sheet aluminum. Each leg is approximately 1 inch wide, and the tops are bent over to eliminate any sharp edges. The meter leads are clipped to each leg. To measure a resistor, all you have to do is lay it across the two legs. If the connection seems a little less than solid, a bit of finger pressure applied to the resistor might help. Quick and easy!

## **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.

## **FCC INVITES COMMENTS ON ARRL TECHNICIAN ENHANCEMENT PROPOSAL**

The FCC has invited public comments on ARRL's 2018 Petition for Rule Making, now designated as RM-11828, which asks the FCC to expand HF privileges for Technician licensees to include limited phone privileges on 75, 40, and 15 meters, plus RTTY and digital mode privileges on 80, 40, 15, and 10 meters.

Interested parties have 30 days to comment. The Technician enhancement proposals stemmed from the recommendations of the ARRL Board of Directors' Entry-Level License Committee, which explored various initiatives and gauged member opinions in 2016 and 2017.

"This action will enhance the available license operating privileges in what has become the principal entry-level license class in the Amateur Service," ARRL said in its Petition. "It will attract more newcomers to Amateur Radio, it will result in increased retention of licensees who hold Technician Class licenses, and it will provide an improved incentive for entry-level licensees to increase technical self-training and pursue higher license class achievement and development of communications skills."

Specifically, ARRL proposes to provide Technician licensees – both present and future – with: \* Phone privileges at 3.900 to 4.000 MHz, 7.225 to 7.300 MHz, and 21.350 to 21.450 MHz.

\* RTTY and digital privileges in current Technician allocations on 80, 40, 15, and 10 meters.

The ARRL petition points out the explosion in popularity of various digital modes over the past 2 decades. Under the ARRL plan, the maximum HF power level for Technician operators would remain at 200 W PEP. The few remaining Novice licensees would gain no new privileges under ARRL's proposal.

ARRL's petition points to the need for compelling incentives not only to become a radio amateur in the first place, but then to upgrade and further develop skills. Demographic and technological changes call for a "periodic rebalancing" between those two objectives, ARRL maintained in his proposal. The FCC has not assessed entry-level operating privileges since 2005.

The Entry-Level License Committee offered very specific data- and survey-supported findings about growth in Amateur Radio and its place in the advanced technological demographic, which includes individuals younger than 30. It received significant input from ARRL members via more than 8,000 survey responses. "The Committee's analysis noted that today, Amateur Radio exists among many more modes of communication than it did half a century ago, or even 20 years ago," ARRL said in its petition.

Now numbering some 384,500, Technician licensees comprise more than half of the US Amateur Radio population. ARRL stressed in its petition the urgency of making the license more attractive to newcomers, in part to improve upon Science, Technology, Engineering, and Mathematics (STEM) education, "that inescapably accompanies a healthy, growing Amateur Radio Service."

ARRL said its proposal is critical to develop improved operating skills, increasing emergency preparedness participation, improving technical self-training, and boosting overall growth in the Amateur Service, which has remained nearly inert at about 1% per year.

The Entry-Level License Committee determined that the current Technician class question pool already covers far more material than necessary for an entry-level exam to validate expanded privileges. ARRL told the FCC that it would continue to refine examination

preparation and training materials aimed at STEM topics, increase outreach and recruitment, work with Amateur Radio clubs, and encourage educational institutions to utilize Amateur radio in STEM and other experiential learning programs.

## **V84SAA DXPEDITION IS FRONT PAGE NEWS IN BRUNIE**

The V84SAA Dxpediton February 6 - 18 received a great deal of positive attention in Brunei -- a tiny nation surrounded by Malaysia on the South China Sea. The arrival of the DXpedition team not only merited coverage on the local evening newscast, but a front-page newspaper article. According to the article, the DXpedition aimed "to increase cooperation among [Amateur Radio operators] besides instilling the spirit of teamwork and fostering close ties. The expedition also serves to help promote the country's uniqueness and natural heritage through Amateur Radio."

"So yes, this was a pretty big deal over there!" V84SAA team member Jeff Briggs, K1ZM/VY2ZM told ARRL. In a narrative he provided to The Daily DX, Briggs explained how the SSB and CW teams operated from sites about 20 minutes apart.

"The SSB camp was from a rented villa on a small hilltop inland a bit, and the CW camp was in a tent right on the beach -- with all our CW antennas," Briggs said. "Most of the operators at the SSB villa stayed and ate their meals at that location. Our beach site had very different and Spartan facilities; there we usually lunched on vanilla cookies and water."

Briggs said DXpedition leader Krassy Petkov, K1LZ, handled 80-meter duty next to the 160-meter position, where Briggs and other team members operated. Briggs is the author of *DXing on the Edge: The Thrill of 160 Meters*.

"Propagation was tough overall without good openings on 15, 12, and 10 meters for the most part, so the bulk of our contact total came from the low bands through 20 meters. The contact total was 58,120 contacts, with 4,081 contacts on 160 (459 with North American stations) and 5,807 contacts on 80 meters (1,014 with North American stations)," Briggs said.

Briggs acknowledged that the team's most challenging times were on 80 and 160 meters, "where it was really difficult to work into North America -- either at sunset or sunrise -- but we never missed an opening and were there trying every day." The team made the first-ever 60-meter contact after receiving permission to operate on that band.

"We were a large international team, and we were blessed with fantastic local support from Tamat Lampoh, V85TL, and the local Brunei Darussalam Amateur Radio Association," Briggs said. "They were wonderful hosts."



### **MAG MOUNTS AN ISSUE WITH MORE VEHICLES WITH NON-STEEL ROOFS**

More vehicles have non-steel roof panels constructed of fiberglass, aluminum, or carbon fiber. This makes placing a temporary mag-mount antenna on the roof difficult. We have run into this issue several times in the past when our radio operators were riding in Support And Gear (SAG), sweep, or pace vehicles during special events or riding along with a Jeep Patrol in the mountains. Recently, I was assisting a neighboring ARES region with a special event and was riding in a new law enforcement vehicle that had an aluminum roof panel. The solution was to use an HT Window Mount Clip from MFJ (MFJ-310). They make a BNC, SMA, and female SMA version of this clip so you can easily attach an HT antenna and get it outside of the vehicle. It is small enough to throw in a ruck sack if you know you will be operating from a vehicle other than your own. Operators may find other uses for this mount such as to get an antenna outside of a room with Low-E window treatment, to get some extra height for an HT antenna, etc. It may not have the same ground plane effects of a mag-mount, but it definitely works. --**John Bloodgood, KD0SFY, Emergency Coordinator and Public Information Officer, Region 2 District 2, Colorado ARES Pikes Peak ARES** at:

### **ATTENTION -- ATTENTION**



### **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**

Better known as the "Milkhouse" is open Wednesdays' 6 PM until ??, and Saturdays' 9:30 AM until ??. Our repeater 146,700 is always on ... So just call W3OK and check.

de **Les / W3LES**

**F.Y.I.**

The May Program will be **“Radios Of The 1931 Lindbergh Survey Flights” – KN4R**

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 2018 – 2019  
OFFICERS**

President – Stephanie koles / WX3K ----- president@dlarc.org  
Vice President – Bill Connelly / W3MJ ----- vicepresident@dlarc.org  
Secretary – JoAnn Schaffer / ND3JJ ----- secretary@dlarc.org  
Treasurer – Mike Gower / KB3LOD ----- treasurer@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 )

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

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

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