

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.
APRIL 2016



W3OK

CORRAL

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

APRIL MEETING PROGRAM

**“The History of the Radio Corp of America”
Bob / AB3RC**



**“EMERGENCY COMMUNICATIONS”
“WT” / WN3LIF**



MINUTES FROM THE MARCH MEETING

A general membership meeting of the Delaware-Lehigh Amateur Radio Club Inc. (the Club) was held on March 3, 2016, at the Bethlehem Township Community Center located in Bethlehem Township, Pennsylvania.

Call to Order: Bill / W3MJ President, called the meeting to order at 1930 hrs.

Pledge of Allegiance: Led by Bill / W3MJ.

Member Happenings: Al / W3CE reported that he and Barbara / W3ATC just returned from their 3 month vacation and the high point of the trip was attending Quarfest in Arizona. Bill / W1PV said that he brought various antennas and parts

that were free for the taking. Dave / NB3R said that he, Jon / NJ3I, and Jay / N3OW set a record for W3 for Multi-Multi, placing 2nd for N. America, and 7th world wide in the CQ WPX RTTY contest. Jay / N3OW added that he participated in the N. America QSO RTTY contest and finally made a contact for North Dakota, completing his WAS Digital. A member (I did not get his call) activated NPOTA WR03 on RT. 611 above Easton.

Approval of the Minutes: Larry / AB3TY asked if there were any additions or corrections to the minutes as they appeared in the last newsletter. Bill / W3MJ asked for a motion to approve the minutes of the last meeting.

Motion: It was moved by Mark / W2MB, second by Jay / N3OW. **Motion carried.**

Treasurer's Report: Mike / KB3LOD presented the Treasurer's Report for January. Bill / W3MJ asked for a motion to accept the report as read.

Motion: It was moved by Mark / W2MB, second by Skip / KB2BDA. **Motion carried.**

Club Station: No issues were reported. Dave / NB3R said the DX World Wide SSB contest was that coming weekend. He asked that any members wishing to work the contest from the Club station tell him what times they would be at the Milkhouse.

Club Repeater: No issues were reported

Website: Brad / W3JXQ said that there were no issues.

Membership Report: Frank / W3WOW announced the Club to date has 179 members. There are 35 members who have not renewed. The following new member was read into the membership roll: Robert Hahn / KC3GGZ. No motion to accept was made by Bill / W3MJ. A collective aye-aye was raised for Robert's acceptance.

Visitors: Brian Kerzwell who said he was going to take the Tech exam at the Friday V.E. session.

Education Classes: Bob / KE3AW said the Spring classes will begin on Tuesday March 8 for a total of 9 classes. A V.E. session will be held on May 10. There are 30 who are expected to attend with 10-11 in the general class.

Special Service Flag: Bill / W3MJ presented a Special Service Flag from the ARRL which will be hung at the Milkhouse. Bill said it signified that the DLARC has been designated a Special Service Club.

Club Trip: Doreen / K3PDL announced a trip to the Sussex County Fair grounds for the Hamfest on July 17. A signup list will be available at the April General Meeting.

Pete's Corner: Pete / NL7XM presented his book of interest. This month's pick is *Opus of Amateur Radio Knowledge and Lore* by Eric P. Nichols / KL7AJ. Pete asked the Club to again make a donation to the Lend A Hand program at this year's RCA Forum at Dayton. Pete asked for a motion to donate \$73.88.

Motion: It was moved by Mark / W2MB, second by George / N3QSD. **Motion carried.**

Certificate: W.T. Jones / WN3LIF, the ARRL Eastern Pennsylvania Emergency Coordinator, presented a certificate designating George / N3SQD as Emergency Coordinator for Northampton County.

Awarding Club Jackets: Bill / W3MJ announced the Board has decided to give Club jackets to Barry / N3NVA and Charlie / K3HKZ in appreciation for their hard work and time donated in maintaining the Club's repeater system. Bill asked for a motion to provide the Club jackets.

Motion: It was moved by Bob / NE2C, second by Doreen / K3PDL. **Motion carried.**

Adjournment: There being no further business before the Club, the meeting adjourned the meeting at 1750 hrs.

Respectfully submitted by Larry / AB3TY, Secretary

APRIL CONTESTING AT THE OK CORRAL

April 2 & 3 – LZ Open 40Meter Sprint

-- SP DX Contesr

April 9 & 10 – JI DX CW Contest

-- Yuri Gagrin International DX Contest

April 16 & 17 – Worked All Provinces of China DX Contest

-- EA QRP CW Contest

April 23 & 24 – SP DX RTTY Contest

-- Helvetia Contest



NEW MEMBER

The DLARC is continuing to grow, so be sure to greet our newest member, shake his hands, and give him a warm welcome to our club. The newest member is Robert Hahn / KC3GGZ

VE TEST SESSION

There will not be a test session this month. The next test session will be May 6th 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

APRIL QUICK CHECK CALENDAR

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|--------|--------|---------------|-----------------------------|-------------------------------|--------------------|--------------------------------|
| | | | | | 1 | 2 |
| 3 | 4 | 5 CLASSES | 6 DLARC Net (KC3II) | 7 DLARC MEETING 7:30 PM | 8 NO VE SESSION | 9 |
| 10 | 11 | 12 CLASSES | 13 DLARC Net (N3SQD) | 14 | 15 | 16 |
| 17 | 18 | 19 CLASSES | 20 DLARC Net (KB3CTX) | 21 DLARC BOARD MEETING | 22 EARTH DAY | 23 First Day of Passover |
| 24 | 25 | 26 CLASSES | 27 DLARC Net (K3PDL) | 28 | 29 | 30 |

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.*

Diane (Smith) Paetzell / NB3L

GEORGE / NSQD RECEIVING HIS NORTHAMPTON COUNTY EC CERTIFICATE



APRIL "CQ" COVER

Here's something of interest to QCWA Chapter 17 members!

DLARC Member Ruth Sweigart / KC4BAB snagged the April cover of CQ Magazine for her story of the T42US 1st joint Cuba/US HF Contest event in history!

See the pictures on the local QCWA Chapter 17 (ABE) website here:-----> <http://chap17qcwa.com/gallery/36.G.jpg>

and: -----> <http://chap17qcwa.com/gallery/37.G.jpg>

Congratulations, Ruth! (Ruth's OM is also DLARC Member, John / KK4SHF. And Stephanie / WX3K was also a member of the party.



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.

2016 CQ WPX RTTY Contest from Station NJ3I (PART 1)

By Dave Arwood – NB3R



Jon-NJ3I working the 2016 - CQ WPX RTTY Contest

Last year Jon-NJ3I and I operated the CQ WPX RTTY contest from his station using my call sign NB3R. We set a W3 call area record in the **Multi-Multi** category (multiple transmitters, multiple operators). We scored 4.1 million points, with 779 prefixes (call sign prefixes are one of the many point multipliers in this contest).

Our 2015 effort was pretty good considering we were using all portable wire antennas. We used delta loops for 40, 20, 15, 10 meters and a ladder line fed dipole for 80 meters. We were using 500 watts with a pair of Elecraft KPA500 amplifiers.

When the results were posted for 2015 Jon noticed that the 2.1 million point W3 record he set in 2013, for the **Multi-Two** category, fell to the WX3SKY club station near Pittsburgh, PA. Their score was 5.2 million points. Jon decided that he/we were going to regain this record in 2016. To do this we needed to improve our score dramatically.

Station Upgrade

Jon determined that he needed to improve his station's signal and develop an operating strategy to maximize the score. Jon already had a very nice station with two loaded Elecraft K3s with dual receivers and KPA500 amplifiers. Both radios were loaded with filters. He also had two Elecraft P3 Panadapters. A pan adapter gives a visual representation of the signals heard by the radio. This is very useful in a contest to find an open frequency to call CQ.

Throughout 2015 Jon upgraded his equipment and antennas. He also wanted both of his operating positions to be identical so that an operator could easily move between positions and have access to all the antennas without moving coax around. He added the following equipment to **EACH** operating position.

- microHAM Digi Keyer II (for FSK RTTY, includes WinKey for CW)
- Array Solutions FilterMAX VI band pass filters and Bandmaster III band decoder (auto band switching).
- Palstar HF-Auto, automatic antenna tuner (only needed for 160 meter dipole)
- ACOM 2000 auto band switching legal limit amplifier.
- Dell Dimension I5 computer and two monitors.



Figure 2- NJ3I's upgraded station. "Two of Everything"

Jon then turned his attention to his antennas. Jon and his wife Kathy have a beautiful home in a very nice neighborhood. He needed to keep his antennas stealthy so he uses portable antennas that he can erect and disassemble quickly before and after a contest.

To improve his signal on 80 meters Jon erected a temporary inverted "L" with 57 ground radials. This antenna dramatically improved his signal compared to the ladder line fed dipole. The 40-meter delta loop was maintained and gives good performance to Europe and Oceania. Jon added a 43ft SteppIR vertical for 40-10 meters. The SteppIR vertical is a 3/4 wave antenna on 15 and 10 meters.

Jon added a Spider beam for 20-15-10 meters. This is a three element beam on 20 and 15 meters with four elements on 10 meters. The beam is mounted on a military crank up mast at 30 ft. It is turned with a light duty Hy-Gain rotator (more on this later). This antenna dramatically improved his signal compared to the individual delta loops used last year. We put up this antenna on Wednesday before the contest weekend. All of these antennas are routed through an Array Solutions Six Pak remote antenna switch. Each operating position has access to all antennas with a push of a button. The switch will only allow one radio to access a particular antenna and provides electro-mechanical fail-safe interlocking to ensure neither radio can feed power into the other.

Now that his transmitted signals have improved his attention turned to improving his received signals. Jon installed four Beverage antennas. One long and one short, oriented east/west (omni directional), one directional to the south, and one directional to the east. All of the Beverage antennas are routed through a Six Pak remote antenna switch and are available to each operating position with a turn of a knob. The Beverage antennas are used on 40 and 80 meters. They dramatically reduce noise and improve the signal to noise ratio.

Goals and Strategy

Jon and I determined that our goal for the 2016 contest should be 6 million points since WX3SKY scored 5.5 million in 2015. That is a 30% increase compared to our 2015 score. To accomplish this goal, we needed more contacts on 80 and 40 meters. Contacts on these bands were double the point value of the other bands. We also needed to manage our frequency running and multiplier hunting carefully. QSO totals are important but in this contest every unique call sign prefix is a point multiplier.

We also need to increase our BIC (butt in chair time). We recruited Jay-N3OW as our third operator. Jay is a seasoned contester and a fantastic operator. By adding Jay to the mix we could keep the stations running the entire 48 hours of the contest and get some sleep. Jay would operate during the day on Saturday and Sunday.

Next we formulated a plan to operate each band. The contest started at Midnight UTC, Saturday, February 13th, and ended at 23:59 UTC, Sunday, February 14th. We would start on 40 meters and 20 meters. When 20 meters died to Europe and South America we would switch to 80 meters. We would follow this strategy on Saturday night as well.

Saturday morning, we would switch from 80 meters to 20 meters (using the beam) after it opened to Europe about the time of our sun rise. We would switch from 40 meters to 15 meters (using the SteppIR) when it opened to Europe around 9 or 10 am local time. We would also watch for the opening on 15 and 20 meters to Asia late in the afternoon. Asia opens first on 15 then opens on 20 meters and hour or so later. If we miss the Asia band openings we could miss thousands of points.

To help us manage our band changes, running (calling CQ), and S&P (search and pounce, when we were calling other stations) we connected our N1MM contest software to a telnet network that posts RTTY Skimmer spots. RTTY Skimmer, like CW Skimmer, is software integrated with an SDR radio. Skimmer automatically posts the callsign (also known as a "spot"), frequency, and signal to noise ratio to a telnet network. There are hundreds of Skimmers running around the world and the Skimmer spots would notify us when a band was open to a particular part of the world.

We set a telnet filter in N1MM to only pass spots **heard** from Skimmers located in the states of PA, MD, DE, NJ, NY, and MA. The filter would also let us know when our call sign, NB3R, was being spotted by any Skimmer around the world. We would be alerted each time NB3R was spotted. The Skimmers spotting us would report our signal to noise ratio and we would use this information to determine if we should change bands.

We would also use Skimmer spots to keep an eye on our nemesis WX3SKY. The Reverse Beacon Network website hosts a web interface to all the skimmer spots around the world. It has a spot analysis tool that allows you to compare spot data from a specific Skimmer. We selected a Skimmer in Germany, DF4UE, and set up a comparison of NB3R and WX3SKY. We could see what frequencies they were operating at any given moment and we could also compare our signal strength to theirs.

We set up our macros in N1MM to streamline our exchange of information. Basically we could run the contest with the mouse button and the enter key. We would never need to manually enter a callsign or an exchange. The exchange in this contest is a signal report (always 599 in a contest) and serial number.

Since both of Jon's radios have a second receiver, we set up N1MM to use both. VFO A supplied RTTY signals to the computer from the radio's primary receiver on the left audio channel. VFO B supplied RTTY signals from the sub receiver on the right audio channel. So each VFO could decode signals on separate frequencies at the same time.

We used this set up to call CQ (aka "running") on VFO A, and call stations (aka S&P or search and pounce) on VFO B. This set up is a little tedious to operate. You can only transmit one signal at a time so you have to pause calling CQ on VFO A while working a station on VFO B.

If you are running at a good rate, then you don't need to search and pounce on VFO B. If your CQ rate slows you can supplement your contacts on the band by S&P on VFO B. Jon is very good at this procedure. I am not. I get mixed up and forget to switch back to VFO A and often find myself calling CQ on VFO B over the top of the station I just contacted!

Jon and I set up our preferences in N1MM on both computers. I like the decoding window to have a dark background and Jon likes a white background. We also like to arrange all the N1MM windows differently. N1MM remembers each operator's preferences. So all you need to do is tell N1MM who is operating and it will display the windows with the operator's preferences. If you remember one of Jon's goals what to easily switch operators between stations. So with the antennas in the air, radios setup, and computers ready to go, what could go wrong?

Murphy's Law

On Thursday, the day before the contest start, the Hy-Gain rotator for the Hex beam failed. Jon immediately ordered a new Yaesu G-450a rotator and 200 feet of control cable from HRO. It was scheduled for delivery on Friday. No one was panicking. At least not yet.

Like clockwork UPS delivered at their usual time of 2pm. We had the rotator installed, control cable run, and the antenna back up by 4pm. We crossed our fingers and hoped we had our only visit by Mr. Murphy for the contest
(Tune in next month for the exciting conclusion to this adventure)

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

45 (1/5 of 45 = 9, 9 + 45 = 54)

Winner – Bob / KE3AW



APRIL BRAINTEASER

A farmer challenges an engineer, a physicist, and a mathematician to fence off the largest amount of area using the least amount of fence.

The engineer made his fence in a circle and said it was the most efficient.

The physicist made a long line and said that the length was infinite. Then he said that fencing half of the Earth was the best.

The mathematician laughed at the others and with his design, beat the others. What did he do?

MARCH PROGRAM REPORT

American Radio Relay League's Eastern Pennsylvania Emergency Coordinator "WT" Jones / WN3LIF covering emergency communications. He began by presenting George / N3SQD his Northampton County Emergency Coordinator certificate.

Then announced that he mislaid the program flash drive for this program, and would have to "WING" it. "WT" began with an explanation of RACES and ARES. RACES means Radio Amateur Civil Emergency Service, and ARES means Amateur Radio Emergency Service. The ARES is the service provided by the ARRL. Using this background he explained how the ARRL's emergency communications work. How the individual ham Radio operator fits in, and how local nets help develop the skills necessary to be an efficient emergency operator. He added how being active in the various traffic handling nets, would familiarize operators with the paper forms used for traffic handling. These forms are necessary to quickly handle traffic and emergencies.

"WT" finished up with the usual question and answer session. Response during this period indicated how the membership had a new perspective toward emergency communications.

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.

Everything you Needed to Know

*There are 293 ways to make change for a dollar.

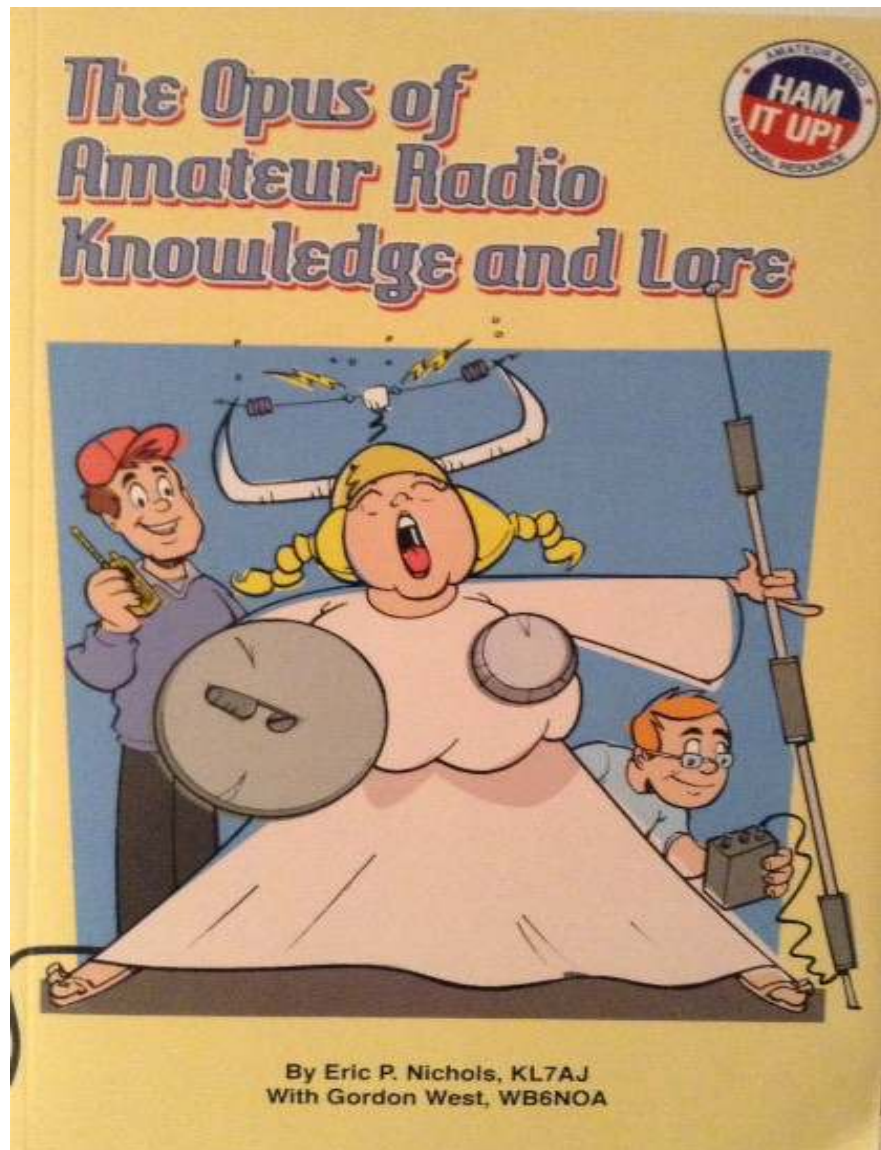
*There are more chickens than people in the world.

*There are only four words in the English language which end in "dous": tremendous, horrendous, stupendous, and hazardous

*There are two words in the English language that have all five vowels in order: "abstemious" and "facetious."

APRIL BOOK OF THE MONTH

de Pete / NL7XM



RACES EMERGENCY REQUIREMENTS

As of September 2006, NIMS IS-700 and ICS-100 course certifications are required in order to receive the county issued photo IDs. The photo IDs are required by federal law for participation in, on site RACES emergency operations. These courses can be taken on line by going to www.fema.gov and following the directions. These requirements are not needed to participate in the weekly Wednesday nets. The only requirement for these nets is a valid amateur radio license and an interest in emergency communications.

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YOUR CLUB STATION IN USE



Blair / K3YD and Jo Ann / ND3JJ enjoying the benefits of a quality Ham Radio set-up.



George / N3SQD, Ben / KB3CTX, Dave / NB3R, Robert / KC3GGZ, Ed / AA3OU and Dean / KC3FXC

W1AW 2016 SPRING/SUMMER OPERATING SCHEDULE

Morning Schedule:

| Time | Mode | Days |
|--------------------|------|----------|
| 1300 UTC (9 AM ET) | Cws | Wed, Fri |
| 1300 UTC (9 AM ET) | CWf | Tue, Thu |

Daily Visitor Operating Hours:

1400 UTC to 1600 UTC - (10 AM to 12 PM ET)
1700 UTC to 1945 UTC - (1 PM to 3:45 PM ET)
(Station closed 1600 to 1700 UTC (12 PM to 1 PM ET))

Afternoon/Evening Schedule:

| | | |
|---------------------|---------|---------------|
| 2000 UTC (4 PM ET) | Cwf | Mon, Wed, Fri |
| 2000 " " | Cws | Tue, Thu |
| 2100 " (5 PM ET) | Cwb | Daily |
| 2200 " (6 PM ET) | DIGITAL | Daily |
| 2300 " (7 PM ET) | Cws | Mon, Wed, Fri |
| 2300 " " | CWf | Tue, Thu |
| 0000 " (8 PM ET) | CWb | Daily |
| 0100 " (9 PM ET) | DIGITAL | Daily |
| 0145 " (9:45 PM ET) | VOICE | Daily |
| 0200 " (10 PM ET) | CWf | Mon, Wed, Fri |
| 0200 " " | CWs | Tue, Thu |
| 0300 " (11 PM ET) | CWb | Daily |

Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675 28.0675 147.555

DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095 28.095 147.555

VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM

CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM

CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2230 UTC (6:30 PM ET), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0000 UTC (8 PM ET) Thursdays and 0000 UTC (8 PM ET) Fridays.

Audio from W1AW's CW code practices, and CW/digital/phone bulletins is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The CW/digital/phone audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to w1aw@arrl.org.

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

FCC licensed amateurs may operate the station from 1400 UTC to 1600 UTC (10 AM to 12 PM ET), and then from 1700 UTC to 1945 UTC (1 PM to 3:45 PM ET) Monday through Friday. Be sure to bring your current FCC amateur license or a photocopy.

FCC SEEKS COMMENTS ON PETITION TO GRANT LIFETIME AMATEUR RADIO LICENSES

The FCC is seeking comments on a Petition for Rule Making (RM 11760 - available on the web at, <http://apps.fcc.gov/ecfs/document/view?id=60001333714>) that asks the FCC to grant lifetime Amateur Radio licenses. Mark F. Krotz, N7MK, of Mesa, Arizona, filed his request with the FCC last November. He wants the FCC to revise Part 97.25 of its rules to indicate that Amateur Radio licenses are granted for the holder's lifetime, instead of for the current 10 year term. Krotz noted that the General Radiotelephone Operator License (GROL) already is issued on a lifetime basis, and he maintained that not having to renew licenses would lighten the FCC's workload.

"It would be mutually beneficial for the FCC and Amateur Radio operators to update Part 97 to grant operator licenses for lifetime, Krotz said in his filing. "The FCC would benefit by reducing administrative costs."

In 2014 the FCC granted lifetime credit for examination elements 3 and 4, but applicants seeking relicensing under that provision still must pass examination element 2.

Individuals may submit comments

(<http://apps.fcc.gov/ecfs/proceeding/view?name=RM-11760>) via the FCC's Electronic Comment Filing System (ECFS).

FYI

The May Program will be "Ithe Route of Columbus" - Dick / KB3ALG

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.

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 (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.

The Clubhouse telephone number is 484-895-7038.

EXECUTIVE COMMITTEE 2015 – 2016 OFFICERS

President – Bill Connelly / W3MJ ----- president@dlarc.org
Vice President – Steve Harper / KB3WYJ ----- vicepresident@dlarc.org
Secretary – Larry Kaplan / AB3TY ----- secretary@dlarc.org
Treasurer – Mike Gower / KB3LOD ----- treasurer@dlarc.org

BOARD of DIRECTORS

Gabe Lantos / KZ2A ----- gpl3639@gmail.com
Skip Leslie / KD2BDA ----- mleslie105@yahoo.com
Bob Oppen / NE2C ----- oppen.robert@yahoo.com
Evelyn Uhler / W3DOY ----- evelynuhler@hotmail.com
Dave Mellman / KA3IWC ----- dbm073@gmail.com
Jay Mason / N3OW ----- n3ow@rcn.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)

THE W3OK TRUSTEE --- Barry Vogt / N3NVA

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THE NEWSLETTER STAFF

Editor – Don Holmes / KC3II ----- editor@dlarc.org
Web Master – Brad Snyder / W3JXQ ----- w3jxq@dlarc.org
Circulation – Paul Morrison / N3YNT ----- n3ynt@aol.com