

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.

AUGUST 2017



W3OK

CORRAL

**Club Meeting August 3rd, 7:30PM At the
Bethlehem Township Community Center**

AUGUST PROGRAM

**“ Emergency Preparedness To Self-Sufficiency “
Brian / KW3K**



**TOM ABERNETHY / W3TOM
ARRL Atlantic Division Director
July Program Speaker**



MINUTES FROM THE JULY MEETING

A meeting of the general membership of the Delaware-Lehigh Amateur Radio Club was held on July 6, 2017 at the Bethlehem Township Community Center, Bethlehem, Pennsylvania.

Call to Order: Bill / W3MJ, President at 19:30 hours.

After asking if anyone had something of interest to report, Bill / W3MJ said that he and Dave / NB3R participated in a recent RITTY contest and came in first in the 3 Call Area. Their score, which was 4,000,000 more than the second place finisher, ranked them third in the U.S.

Rich / WC3T announced that there will be amateur radio activities at the 2017 Boy Scout Jamboree, held at the Summit Bechtel Reserve, WV, from July 18 to the 28th. The K2BSA operation will demonstrate Amateur Radio to several thousand Scouts and fulfill the Radio merit badge requirement for QSOs. *"We need you on the other end of the contact."*

K2BSA will host a nightly net at 2330 UTC (7:30 PM ET) on EchoLink Conference Node *JAMBO*.

On the Air Frequencies:

SSB in MHz: 28.390, 24.960, 21.360, 18.140, 14.290, 7.190, 3.940

PSK-31 in MHz: 28.120, 24.920, 21.080, 18.100, 14.070, 10.142, 7.080, 3.580

EchoLink: K2BSA-R Demonstration Station (node 4566), WV8BSA-R VHF Repeater (node 6544), NA1WJ-R UHF Repeater (node 873264), Conference *JOTA-365* (node 480809), Conference *JAMBO* (node 832996).

D-Star: WV8BSA and Reflector 033A --- note that during the Jamboree WV8BSA is locked to REF033A, the dedicated Scouting reflector, to avoid problems with linking and unlinking with each operator's preferences.

CW: There will be limited operation on CW as time permits. See Scouting Frequencies.

Secretary's Report: JoAnn / ND3JJ stepped in for Lester / W3LES. Noting that the minutes from the June meeting had been posted online, she asked if there were any corrections, changes or omissions. Receiving no response, she made a Motion to accept the minutes, which was seconded by Dean / AB3BD. The Motion was carried.

Treasurer's Report: Mike / KB3LOD gave his report, and a Motion to accept the report was made by Bill / W3MJ, seconded by Dean AB3BD. The Motion was carried.

Club Station: Lester / W3LES, the Club Station Manager was unable to attend the meeting. However, regarding the Club's repeater, Barry / KU3X and Pete K2PM have determined that the signal from radio station WLEV has been the cause of intermittent interference. They will get it straightened out. Also, the Wind Gap repeater has been shut down.

Web Site: Rich / WC3T reported that visitors to our website have increased 15% over May, and there has been a 20% increase over May in site activity.

Membership: JoAnn / ND3JJ reported that as of June 2017, DLARC membership totaled 179. There was a new applicant for membership: Donald Darcey, Jr. / WK2RP. He was not present at the meeting. After reading his application information to the membership, she made a Motion that Donald's application be accepted, which was seconded by George / W3SQD. Donald's membership was approved. With the addition of three renewing members, our total membership now stands at 182.

Education: Bob / KE3AW stated that Tech and General classes will begin on September 5th. During Field Day, five people were successfully passed the test for tech or upgraded licenses.

Old Business: Bob / KE3AW reported that our Field Day activities made the front page of the The Lehigh Valley Press. Steve / W3NAM announced that we are in need of Chairs for the Programs and Awards Committees. Bill / K3ANS said that DX Engineering would be interested in doing a presentation for us via Skype.

New Business: George / N3SQD announced that the Northampton County EOC will be conducting a emergency drill on Tuesday, July 11. All those registered for the Club's ARES/RACES Net and who are interested in participating should contact George.

Dean / N3HOG would like someone to take over the responsibilities of liaison with ARRL for the Club's VE activities.

John / NT3P announced that the Nominating Committee is looking for anyone interested in becoming an officer or director of the Club.

The meeting adjourned at 19:55 hours

Respectfully submitted

JoAnn Schaffer / ND3JJ

VE TEST SESSION

There will not be a test session this month. The next session will be September 8th at 7:00 PM at the Northampton County 911 Center. Pretest registration is required. Contact Dean / N3HOG at dk28@ptd.net

NEW MEMBER

The DLARC is continuing to grow, so be sure to greet our new members, shake their hands, and give them a warm welcome to our club. The newest member is Donald Darcey / WK2RP.

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. The committee chair will be looking for volunteers to assist on the committee. Also any members who have considered running for office, now is the time to make your final decision. This is also the time to think of 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.

AUGUST QUICK CHECK CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 DLARC Net (ND3JJ)	3 DL ARC MEETING 7:30 PM	4 NO VE SESSION	5
6	7	8	9 DLARC Net (W3CE)	10	11	12
13	14	15	16 DLARC Net (W0R0Y)	17	18	19
20	21	22	23 DLARC Net (KC3II)	24 DLARC BOARD MEETING	25	26
27 DLARC PICNIC	28	29	30 DLARC Net (N3SQD)	31		

AUGUST CONTESTING AT THE OK CORRAL



- August 5 & 6 – 10-10 Summer Contest – SSB
- North American QSO Party – CW
- August 12 & 13 – WAE DX Contest – CW
- MMON VHF/DUBUS 144 MHz Meteor Shower Sprint Contest
- August 19 & 20 – ARRL 10 GHz and Up Contest
- CVA DX Contest – CW
- August 26 & 27 – YO DX HF Contest
- SCC RTTY Championship



CHAIRPERSON POSITIONS

The following committees have openings for a chairperson and members. Program Committee, Awards Committee and Special Events committee. These positions can be filled by an individual or a group, but for continued first rate events, should be filled soon. Also due to his person schedule, Dean / N3HOG would to a certified VE to assume his duties as VE liaison to the ARRL.

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

JULY BRAINTEASER ANSWER

The wise son brought a candle and a box of matches.
After lighting the candle, the light filled the entire room.

The winner is Paddy / AJ3B

AUGUST BRAINTEASER

524127

Add mathematical signs (+, -, *, /) in between all or some of the above digits
so the result of the created mathematical equation will be 100.



REFLECTIONS FROM THE PAST



Bob / K3MAZ Unloading for Field day 1968

25 YEARS AGO IN THE DLARC – AUGUST 1992

The club was getting ready to hold their annual hamfest at the Plainfield Farmer's fairgrounds on the 16TH.

Nine new members were welcomed. The only one still a club member is Dave Frankenfield N3LWY

The DLARC family picnic was held on the 23rd at Hackett's park.

Joel K9TBD had an interesting article in the newsletter explaining packet radio. (remember that mode?) It is all but gone now

MAJOR 2017 RCA AWARD WINNER



For lifetime achievements in land mobile radio communications and important contributions resolving serious issues affecting repeaters in urban environments, DLARC Member Peter J. Madsen, K2PM of Easton, has been selected to receive the prestigious Fred M. Link Award at the Annual RCA Banquet in Pittsburgh, PA on November 17, 2017..

JULY MEETING PROGRAM REPORT

The July program was ARRL Atlantic Division Director, Tom Abernethy / W3TOM. Tom has been a ham for almost 50 years. He is a retired police officer who specialized in emergency communications. Following his police career he became director of emergency communications systems in the Washington DC, Maryland area. His experiences included communications during the plane crash in the Potomac River and also the 9/11 event at the Pentagon. He has been elected ARRL official in some capacity for 18 years. He was also involved in the second Embassy take over in Iran. And also the Mexico earthquake. As you can see his emergency communications experiences make him highly experienced.

Tom began with a brief history of the ARRL, and the various levels that it went through during its growth over the years and how and what it has become in the 21st-century. He covered the decision-making committee and how they were there to forward opinions and ideas from the membership. He explained how it was a represented democracy.

Tom explained how the sections were set up and how the section heads were extremely experienced in their respective fields. Some of the areas covered were Logbook of the World, awards, training, technical assistance, evaluation of new equipment and other numerous topics.

He also covered that there will be two new bands available once official rules have been established. These plans are 660 meters and 2200 meters. And how the 60 meter band will be expanded and the use of higher power allowed. Also covered was the Parity Act, and how it already passed through the House of Representatives and is awaiting for the Senate to move on it.

Tom finished with the usual question-and-answer period. He let us know that the ARRL is continuing to support our hobby of amateur radio.

AMATEUR RADIO CLASSES – 2017 FALL SESSION

DLARC will offer free classes to anyone (ages 8 to 80+) who may be interested in becoming an Amateur Radio Operator. The classes are designed to help potential amateur radio operators learn about amateur radio, and prepare them for the FCC Amateur Radio multiple-choice examination leading to the Amateur Radio license.

The classes will begin on Tuesday, September 5th, 2017, and will be held for a total of 9 Tuesdays, 7 PM – 9 PM in the Nazareth area.

If you are interested in learning about ham radio and earning your license to transmit on the amateur radio bands, please contact me for details.

If you know someone who may be interested, please have them contact me for details. I'll be happy to answer questions about getting into ham radio, and provide interested persons with directions to the class location from wherever they will be coming.

Bob Green / KE3AW at ke3aw@arrlo.net 610 432-8286

BEST REGARDS

Bill Connelly / W3MJ

Seventy-three, Seventy thirds, Seven-three's, threes on ya, good numbers at ya, all the good numbers at you, Seven Three. Why do you say that to each other How did that start? What's right and what's not? Well, I wanted to know and started to research the ill-used phrase. So here's what I came up with.

The first authentic use of "73" as of the publication National Telegraph Review and Operators Guide, published in April 1857. At that time, 73 meant "My Love To You". Succeeding issues of this publication continued to use this definition of the term, but within a short time, the use of 73 began to change.

In the national telegraph convention, the numeral was changed from the loving sentiment to a vague sign of fraternalism. Here "73" was a greeting, a friendly word between operators and it was so used on all wires.

In 1859, the Western Union Company set up a standard "92 Code". A list of numerals from 1 to 92 was compiled to indicate a series of prepared phrases for use by the operators on all wires. Here, in the 92 code, 73 changes from a fraternal sign. Its very flowery "accept my compliments" was in keeping with the florid language of that era.

From 1859 to 1900, the many manuals of telegraphy show variations of meaning, "Compliments", "My compliments to you", back to "Complements" and Theodore A. Edison's Telegraphy Self-taught shows a return of the "accept my compliments". By 1908, a later edition of Dodge's The Telegraph instructor gives us today's definition of "best regards" there is another reference to 73. In another part of the work where it looks back at the old 3r meeting of "compliments."

73, or "best regards" has remained in use ever since the 1908 definition. 73's by definition means "best regards" the rest of the mix is irrelevant., only 73 or "Seventy-three" is correct. Actually, there are other symbols taken from the numerical abbreviations list by wire telegraphers. Ms. Abbreviations are used in any manner similar to the Q : code today.

- | | |
|-----------------------|---------------------|
| 1. Wait | 30. No More. end |
| 2. Important business | 73. Best regards |
| 3. What is the time? | 88. Love and Kisses |

The symbol 30 (no More, End) was also used in the newspaper business to signify the end of an article. In American Morse code, 30 is "...-." (zero and is there an extra long dash). This may have been collected into a single character "...-." which is usually thought of as SK, and transmission.

Thanks to N2EY, W3WRE and KC8EHA.

PENNSYLVANIA QSO PARTY 2017

October 14th and 15th are the dates for the 2017 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.

BIRDS-1 CUBESATS DEPLOYED FROM ISS, CARRY AMATEUR RADIO PAYLOADS

The five CubeSats making up the [BIRDS-1](#) (Joint Global Multi-Nation Birds) constellation were deployed into orbit from the International Space Station (ISS) on July 7. Each carries an Amateur Radio payload but no transponders. The Japan Aerospace Exploration Agency (JAXA) module's remote manipulator arm was used to accomplish the launches.

"Another great example of international cooperation today on @Space_Station -- launched 5 micro-satellites from 5 countries off the JAXA arm!" ISS crew member Jack Fischer, K2FSH, tweeted.

The BIRDS-1 constellation of five 1U CubeSats -- BIRD-B, BIRD-J, BIRD-G, BIRD-M, and BIRD-N -- are all of the same design, and all use the same Amateur Radio frequency. They were launched to the ISS on June 3. The main mission of the 2-year project is to use the constellation to carry out radio communication experiments via a network of UHF/VHF Amateur Radio ground stations around the world.

Four faculty members -- including Yasuhiro Tokunaga, JG6YBW -- and 15 students at Japan's Kyushu Institute of Technology (Kyutech) are coordinating the experiment, with participation from student engineering teams at universities in Bangladesh, Ghana, Mongolia, Nigeria, Thailand, and Taiwan.

The challenges will be to distinguish each CubeSat from its companion spacecraft transmitting on the same frequency, hand over operation of a satellite from one ground station to another, and assemble the satellite data -- such as housekeeping telemetry and Earth images -- obtained at different ground stations.

Radio amateurs have been invited to join the network to assist in the data downlink and reconstruction of patchy satellite data into meaningful data. Orbit information and the operational plan of each satellite is to be made available to the Amateur Radio community, along with software to decode the satellite data.

Amateur Radio stations that successfully decode the telemetry data and Earth images will receive a QSL card from the BIRDS team. The reconstructed data will be posted.

According to the IARU, the satellites have CW, 1.2k bps AFSK FM, audio FM, and 9.6k bps GMSK downlinks on a coordinated downlink frequency of 437.375 MHz.

CRACKDOWN ON PIRATE BROADCASTERS TARGET AT LEAST ONE MORE AMATEUR LICENSEE

A recent flurry of FCC Enforcement Bureau correspondence to alleged unlicensed broadcasters has targeted at least one more radio amateur — this time in the Greater New York City area. It's not the first time Winston A. Tulloch, KC2ALN, of Paterson, New Jersey, has heard from the FCC, which has had Tulloch in its sights for at least several months regarding a pirate FM station on 90.9 MHz. Last November, the Enforcement Bureau sent Tulloch a *Notice of Unlicensed Operation* after receiving information that he was operating a radio station. FCC agents used direction-finding techniques to zero in on a signal on 90.9 MHz coming from his residence.

"The field strength of the signal on frequency 90.9 MHz was measured at 105,451 microvolts per meter ($\mu\text{V}/\text{m}$) at 101 meters, which exceeded the maximum permitted level of 250 $\mu\text{V}/\text{m}$ at 3 meters for non-licensed devices," the FCC said at the time. Tulloch was sent a second *Notice of Unlicensed Operation* on June 8, after Enforcement Bureau agents from the FCC's New York Office on May 2 responded to a complaint of an unlicensed FM station operating on 90.9 MHz in Paterson. This time the signal, measured at 176,526 $\mu\text{V}/\text{m}$, was determined to be emanating from another residence about 1 mile from Tulloch's. The FCC said someone at the residence identified Tulloch as the station's operator.

A third Notice of Unlicensed Operation followed on June 30, after Enforcement Bureau agents following up in the unlicensed FM station investigation in Paterson on June 12 confirmed by direction-finding techniques that the signal on 90.9 MHz was continuing to come from the same residence. On that occasion, the agents measured the signal at 5,705 $\mu\text{V}/\text{m}$ at 185 meters, still greatly exceeding the maximum permitted under FCC Part 15 rules for unlicensed devices.

FCC Enforcement Bureau Region 1 Director David C. Dombrowski now has advised Tulloch at least three times that the unlicensed radio operation on 90.9 MHz "must be discontinued immediately." The Commission's enforcement resources are already suffering from last year's closing of FCC field offices and the layoffs of field agents, however, and the current administration's budget allocates less money for the FCC.

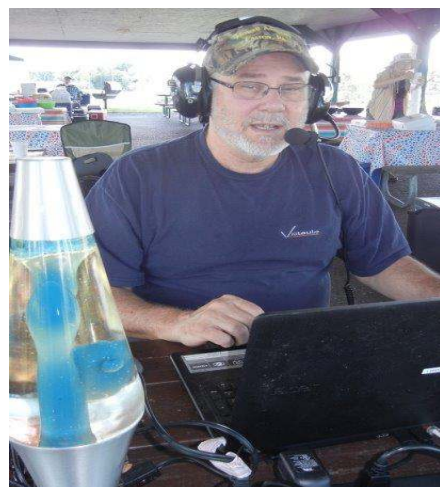
In late May, the Enforcement Bureau issued a *Notice of Violation* to Lyle E. Hilden, KD6LUL, of Vista, California, alleging that he had engaged in pirate radio broadcasting on the FM band.

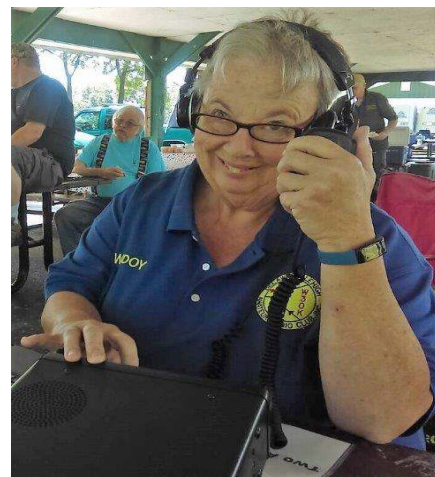
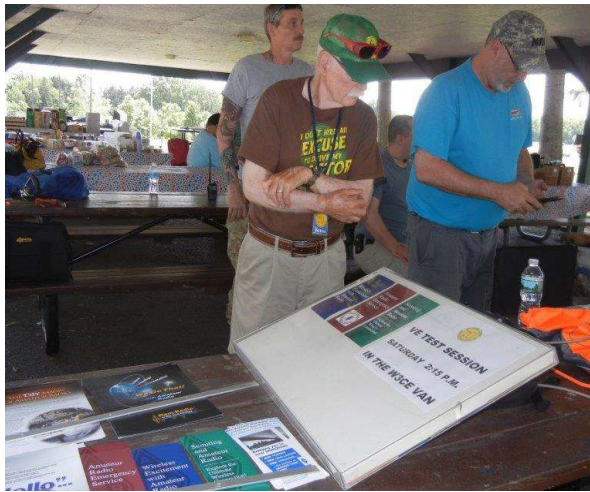
In the past week, the Enforcement Bureau also sent *Notices of Unlicensed Operation* to other individuals in the Greater New York City area as well as to individuals and couples in Massachusetts and Florida.

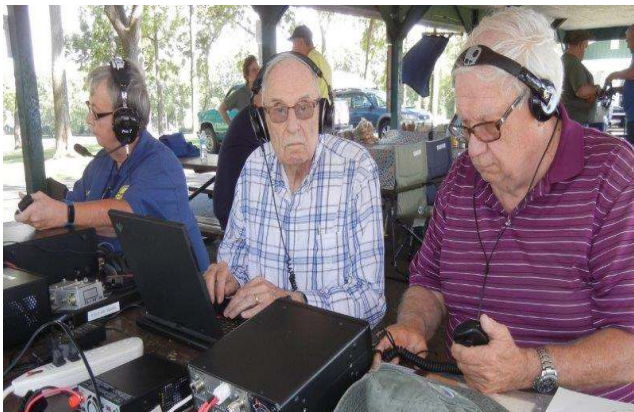
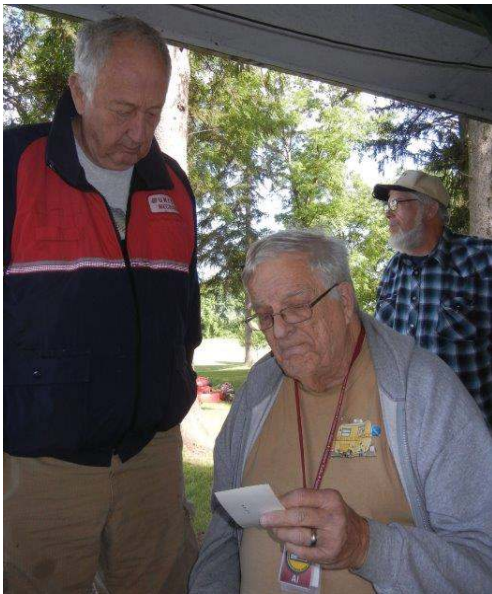
WEDNESDAY NIGHT NETS

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 called to supply controls and operators for real emergency, then the NIMS courses are required.

FIELD DAY 2017
Photography By Dave / N3EYT







F.Y.I.

The September Program will be "Patrolling the Ether " – Brian Harrison / 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.

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 2016 – 2017 OFFICERS

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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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