

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.
JUNE 2021



W3OK

CORRAL

Club Meeting June 3rd, 7:00PM
Via ZOOM

DELAWARE LEHIGH AMATEUR RADIO CLUB HISTORY



ARRL Special Services Club certificate to DLARC for 1990, with endorsements for 1991, 1993, and 1994.

REMEMBER TO USE WHEN BUYING AT AMAZON


MAY MEETING MINUTES

A General Meeting of the Delaware-Lehigh Amateur Radio Club was held on May 6, 2021 via a Zoom video-conference. President Jim Matlack / KC3MKP called the meeting to order at 7:05 p.m. with 29 members online.

President's Report: Jim opened with the news Walt Tremer / KC3MNP, our Program Chair, is having serious medical issues and can no longer serve. Jim asked for a member to step up to take the Chair. Jim said the Club is need for programs.

Announcements: None

Guests: None

Secretary's Report: Larry /AB3TY, announced the Minutes for the February General Meeting. Dean / AB3BD motioned to accept. It was seconded by Skip / KD2BDA and so moved.

Treasurer's Report: Larry / AB3TY reported on the Club's financial status for March 2021 as the Treasurer Larry / KC3JTK could not attend the meeting. Jim said the Club rolled over the CD. Dean / AB3BD motioned to accept with the correction so noted. It was seconded by Steve / N2IYR and so moved. Pete / NL7XM asked if taxes were filed. Steve / NS3L said he handed the mail to Larry / KC3JTK and Larry said he was taking care of the taxes.

Committee Reports:

Membership: Terry / KC3JHT announced there are 138 voting members, 3 associates, and 9 life members for a total of 150. John Horn / KC3RXU was presents as a new member. Steve / NS3L made the motion to accept John as a new member. It was seconded by George / N3SQD and so moved.

Club Station: Steve / NS3L said the rotator and controller still need repair. George / N3SQD said he will be going to the Milkhouse. There was a discussion concerning the use of the Milkhouse when Covid restrictions are lifted. George said the breakfast group was again meeting as those attending are fully vaccinated. George said the Wednesday Milkhouse group would not have any issues if those attending were vaccinated. Jim said the Board would discuss the Milkhouse at the next Board meeting.

Tech Committee: AL / W3CE said there was nothing to report other than he and George / N3SQD would be going to the Milkhouse to check on the rotator when there is "good" weather.

Website: Larry / AB3TY reported no issues. There was a question about posting for sale and swap on the website as there is no longer a forum. Larry said a forum was not workable on the current site. Steve / NS3L added the forum was not used regularly on the old website.

Repeater: No issues reported.

New Business:

Field Day: George / N3SQD confirmed Bicentennial Park has been secured for the June 26-27. Steve / NS3L said he was ready to coordinate the equipment. Following the procedures from 2020, a group of volunteers will meet at the Milkhouse to remove equipment from the barn and transport the same to the Field Day site. George added he will be out of town that weekend for a family event.

Steve asked who is in charge of advertising the event and what procedures are in place to conduct the VE sessions. George said he would talk to AL / W3CE about the VE sessions. Don / KC3II said he talked to John / NT3P who confirmed the VE session will be held Saturday June 26 and 2pm by appointment. All testers must have a FRN. Don said information will be in the June newsletter along with how to obtain a FRN from the FCC. George added that the FRN is now a requirement for taking any license exam. Steve said he will bring a portable canopy to allow VE testing away from the pavilion. George said AL might bring his motor home to provide enclosed testing. Steve / NS3L asked Ben / N3WR if he would be available at Bicentennial Park to network the computers. Ben said he would check his availability.

John / KC3RXU asked what was available from the Club as new member. Jim said he was in the process of sending an email to new members with the information. Don asked that the information be sent to him for the June newsletter.

Steve / NS3L said the Sussex County Hamfest will be held this year on July 18. Info will be on their website.

Jim said there was no date announced for the opening of the Bethlehem Township Rec Center. A discussion ensued about reaching out to the Center to maintain the Club's use of the meeting room.

Bud / K4WCR said he needs help programming repeaters into his HT Yaesu radios.

Bob / KE3AW talked about the Club going to an Iron Pigs game. Bob said he would be reaching out to the members via the email list. Bob will be looking for a consensus for what day, seat area and whether to include food with the cost of the tickets.

Terry / KC3JHT asked Bob / KE3AW when the 911 Center would be open for use. Bob said he had been in contact with the Center and was told he would be the first to be notified when the Center would reopen to non-essential use. He added there were still Covid issues at Gracedale.

Adjournment: There being no further business, the meeting was adjourned at 7:46 p.m. Dean / AB3BD made the motion. It was seconded by Steve / N2IYR and so moved.

Program: None

JUNE QUICK CHECK CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 DLARC Net (N3SQD)	3 DLARC MEETING 7:30 PM	4	5
6	7	8	9 DLARC Net (N3WR)	10	11	12
13	14	15	16 DLARC Net (K3PDL)	17	18	19
20	21 DLARC BOARD MEETING	22	23 DLARC Net (KC3MKP)	24	25	26 FIELD DAY
27 FIELD DAY	28	29	30 DLARC Net (W3CE)			

NEW MEMBER

The DLARC is continuing to grow, so be sure to greet our new member, shake his hand, and give him a warm welcome to our club. The newest member is John Horn / KV3RXU.

PROGRAM CHAIRPERSON

A chairperson is needed for scheduling and presenting programs for the monthly meetings. Walt / KC3MMP had to step down. For more information contact any board member, at their addresses listed at the end of this newsletter.

WANTED – CLUB STATION MANAGER

The position of Club Station Manager is open, Steve / NS3L is stepping down due to other responsibility, so this position is open. Stephanie / WX3K says she will assist the new station manager as needed. Our thanks to Steve for the fine job he has done while handling the position.

VE TEST SESSION

There will be a test session this month on June 26th at 2PM at Bicentennial Park in East Allen Township as part of Field Day. Pretest registration is required. Contact John / NT3P at nt3p@arrl.net. Also, the FCC will no longer be accepting social security numbers. The candidates must obtain an FCC Registration Number (FRN).

Info on how to register for an FRN at this link:

<https://www.fcc.gov/wireless/support/universal-licensing-system-uls-resources/getting-fcc-registration-number-frn>

JUNE CONTESTING AT THE OK CORRAL

- June 5 & 6 – Cookie Crumble QRP Contest
- FULL-LRB HF Contest
- June 12 & 13 – DRDG WW RTTY Contest
- ARRL June VHF Contest
- June 19 & 20 – All Asian DX Contest - CW
- Ukrainian DX Classic RTTY Contest
- June 26 & 27 – ARRL Field Day
- Ukrainian DX DIGI Contest

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.

W3OK CLUB STATION

Better known as the "Milkhouse" the W3OK Station is closed until further notice.. Our repeater 146,700 is always on ... So just call W3OK and check.

de Steve / NS3

WEDNESDAY EVENING DINNER CLUB

The Wednesday Evening Dinner Club is on hold until further notice due to the COVID-19 Pandemic. Listen to the nets and watch the Forum for the latest information on our get together.

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

MAY BRAINTEASER ANSWER

"Beauty"

Beauty is in the eye of the "Bee holder"

The winner is **Doreen / k3PDL**



JUNE BRAINTEASER

Susie's mom baked several trays of cookies. Each tray contained 12 cookies. She gave two trays of cookies to her neighbor and donated three trays to the school bake sale. She kept 36 cookies for Susie and her friend to share. How many cookies did she bake in total?

FCC LICENCE SYSTEM CHANGES

FCC Auto-Registration Feature for Exam Applicants to be Discontinued on May 20

Auto-registration in the FCC Commission Registration System (CORES) for amateur radio exam candidates using a Social Security number will be discontinued on **May 20, 2021**.

VECs/VE teams should stop accepting social security numbers at sessions immediately.

Applicants must use an FCC Registration Number ([FRN](#)) for all license transactions with the FCC. Examinees must **register in CORES** and receive an FRN *before* exam day. Starting on May 20, electronic batch filed applications that do not include a candidate's FRN will be **rejected**. The Social Security/Licensee ID Field will be disabled.

An [instructional video](#) provides step-by-step instructions on how to establish a CORES account, which is necessary for licensees to make administrative updates and download electronic license authorizations.

After June 29, all filers **must provide an email address** on all applications. When an email is provided, applicants will receive an official electronic copy of their licenses once granted (allow incoming email from authorizations@fcc.gov).

If no email is provided when filing on or after June 29, applications will be rejected. ARRL VEC suggests that those without access to email to use the email address of a family member or friend.

Licensees need to log in to the Universal Licensing System (ULS) to [download their authorizations](#). The FCC no longer issues paper copies.

— *Information provided by FCC*

Know the Code!

RECOGNIZING THAT CHILDREN WHO LEARNED THE MORSE CODE

as a game grew up to use the telegraph for business transactions and social correspondence, telegraph companies like Western Union and the American District Telegraph Company encouraged the use of their logos on a wide variety of toys and games.

Youth organizations like the Boy and Girl Scouts developed their own training courses for the Morse Code even after land lines fell into disuse and were replaced by wireless radios. Novels and advertising campaigns glorified the telegraph messenger especially after Western Union solidified control over most North American telegraph routes, and guaranteed the success of the telegraph and Morse Code throughout the early years of the 20th century.





Delaware-Lehigh Amateur Radio Club History

Chapter 6

The Fifth Decade, 1986-1995

This was a very active decade. DLARC initiated several club awards for members to earn, scored well in contests, provided communications for an amazing variety of events, and earned national recognitions.

Notable Members and Presidents

Raymond P. Bilger W3TDF, 1925-2016, was a licensed amateur for over 70 years. He joined DLARC in 1984 and was elected vice president in 1989 and 1990 and President in 1991. Ray was an active contester who held many PA QSO Party records and, under his leadership, DLARC scored impressive wins in this event. In 2008 the club established the Ray "The Grump" Bilger D.L.A.R.C. Sprint Award to honor him and awarded him life membership.

William N. Goodman K3ANS, 1942-2019, earned his license in 1957 while still in high school. He served as club vice-president in 1969. Bill enjoyed contests and was the first recipient of two DLARC operating awards – the DLARC DX-100 and DLARC 50 Award – in 1988 and 1994. In 2008 he was awarded life membership.

Clarence Snyder W3PYF, 1920-2005, was licensed in 1947, joined DLARC shortly thereafter, and remained an active member. Clarence served as President in 1989 and 1990 (37 years after his first term as President in 1952), edited the club newsletter, and served as Radio Officer and Emergency Coordinator for Northampton County for 52 years. In 1990 he was awarded life membership and in 1999 the club gave him a clock and plaque in recognition of his more than 50 years of service to DLARC.

Other DLARC Presidents during this decade were Tony Kazmakites K3ZUF in 1986, Robert Kratz KU3K in 1987 and 1988, Robin Mosely WA3T in 1992 and 1993, and Robert A. Green KE3AW in 1994 and 1995.

Membership

Membership continued its phenomenal growth, more than doubling from 213 in 1985 to 456 in 1994. Meeting attendance topped 90. To keep dues at \$12 per year and pay for club station equipment, the club held an annual raffle and Anthony Lazzara N3CVH initiated 50-50 drawings at meetings.

Newsletter

In 1983, a new member who owned a printing business volunteered to print the newsletter. But in 1987, his company sued DLARC for the cost of his printing services. DLARC won the lawsuit, but spent \$950 in legal fees. The printing company appealed the verdict in Berks County, and DLARC's attorney advised the club to settle because the litigation cost would be \$1000 and the company was suing for \$700. At that time, the club treasury contained under \$1400.

In 1990, the club held a contest to rename the newsletter, which had been published under the generic title Delaware-Lehigh Amateur Radio Club News. Robin Mosley's submission of W3OK Corral was the winner.

Under the editorship of Clarence Snyder, the newsletter consistently earned national recognition with Superior or Excellent ratings from the Amateur Radio News Service. The newsletter featured a digital communications column by Joel Elston K9TBD and Bill Van Horn's K3CP Ima Lidd series. In 1991, eight articles originally published in the club newsletter were reprinted in other publications.

PA QSO Party

Under the leadership and encouragement of Ray Bilger, DLARC garnered first place finishes in the 1989 and 1990 parties. After the club finished second in 1991, Ray orchestrated a catchy slogan campaign (such as Don't be loafy, Get back the trophy) to drum up enthusiasm for 1992. It worked and DLARC swept first place the next five years, 1992-1996; in 1995 DLARC's score was double the score of the second place club. To recognize high scoring members, the club awarded watches with the DLARC logo (1989), patches, commemorative pens, belt buckle, and plaques.

Field Day

The competitive spirit washed over into Field Day. The club newsletter reported that in 1988, the club amassed over 2000 contacts, a club record, and placed 23rd out of 310 clubs in its category. In 1994, the club scored 8706 points, its best 3 transmitter tally, placing 11th out of more than 300 entries in its category, and in the top 50 among all clubs nationwide. In 1995, DLARC placed first in the Eastern Pennsylvania section and 11th in the 3A category out of 329 entries.

DLARC Operating Awards

During this decade, DLARC designed three operating awards for its members. In 1987, DLARC announced a WAS Award. The first recipient, Ray Bilger, received a plaque; by Nov. 1989, 12 members had qualified.

In 1988, the DX-100 Award was added. Bill Goodman was the first to earn this certificate; by November 1989, there were 10 awardees, with some members topping 250 counties worked.

Finally, in 1994, the DLARC 50 Award was created to recognize members who worked 50 other members; once again, Bill Goodman was the first to submit the required documentation.

The last mention of the WAS and DC-100 awards in the W3OK Corral occurred in February 1999 when Sara Saeger KB3CLQ (now K3000) received both awards (8 year old Sara had earned her license the previous year).

Club Activities and Recognitions

In addition to monthly meetings, DLARC offered its members social events that included an annual banquet, Christmas Party (at a restaurant), picnic, Spouse Appreciation Night (Ladies Night renamed to reflect the increasing number of female hams), golf outings, and a train trip. Club members toured such places as the National Weather Service office and the ATT Satellite facility in Hawley.

DLARC held very successful Hamfests at a variety of local sites. In 1992, 100 vendors participated. At the 1993 event, 43 candidates took licensing exams; in 1994, 48 people showed up for testing. With attendance of over 1000, the Hamfests were a financial success.

In 1989, ARRL named DLARC a Special Service Club, a designation for "high achievement clubs who challenge themselves to make their excellence even better."

When a California ham club lost its station in a natural disaster, in 1994 DLARC donated \$200 to help them rebuild. ARRL recognized this generosity with a Certificate of Merit for Outstanding Service to the Amateur Radio Community.

The club's equipment loan program began in 1995 with one item - an antenna analyzer. An HF receiver and PC were soon added to the loaner pool.

Emergency and Public Service

As DLARC's reputation for efficient and reliable communication services grew, so did the number of requests to handle charitable and community events. The club was able to provide 55 volunteers for a long distance bike ride, and had enough volunteers to staff two events on the same day. In return, DLARC received an array of "thank you" plaques and monetary donations.

To promote ham radio, over the course of three years, the club donated 80 operating manuals to libraries and schools.

Two special public service communication activities connected school children from Parkland and Bethlehem School Districts with astronauts on the space shuttle, and Northampton County Executive Jerry Seyfried with his counterpart in Northampton, England; the English community sent DLARC a commemorative plaque. Both activities resulted in positive publicity.

Response to emergencies and drills was impressive. 93 members called in during one emergency management drill. During the Blizzard of 1993, 103 members participated in emergency communications.

A very busy and successful decade!

L.V. radio operators bridge the Atlantic

By KEN KUNSMAN
Of The Morning Call

Local ham radio operators yesterday banded together to offer their congratulations to Northampton on its 800th anniversary — Northampton, England, that is.

Members of the Delaware-Lehigh Amateur Radio Club made contact at 9:45 a.m., with amateur operators in England as part of a commemorative celebration for the English town, established Nov. 19, 1189.

"I am extremely pleased to make this contact with you in America," broadcasted Northampton Mayor Malcolm Lloyd. "It has been a tremendous year for us."

Located 70 miles north and slightly west of London, Northampton is near the geographic center of Britain. The town, which is in a rural area, was made famous by its leather goods, particularly shoes, said the mayor.

Lloyd's warm salutations were received by Northampton County Executive-elect Gerald Seyfried, who was invited to the special event by the local club.

"We here in Northampton County extend the warmest wishes of great success," Seyfried told the mayor.

A radio operator during a four-year stint in the Navy, Seyfried impressed his hosts when he clarified the spelling of his name by using phonetics (Sierra-Echo-Yankee-Foxrot ...).

"It's great to be talking with you and celebrating your anniversary," Seyfried told the mayor. "I hope someday to meet you face-to-face."

The conversation between the celebrity mayor and the next county executive was the first in a series of such interchanges including Mayor Paul Kutzler of Northampton Borough, along with the mayor of Northampton, Mass., and a score of amateur operators tuned in for the historic simulcast.

Bill Goodman, recognized by the call letters K3ANS, organized the local party from his basement broadcast "shack." The British contingent broadcast the call letters GB800, designated especially for yesterday's contact.

Goodman, president of the Easton CPA firm of the same name, maintains



MICHELE SZOKA / The Morning Call

County Executive-elect Jerry Seyfried (left) and Bill Goodman talk to Northampton, England.

an elaborate radio setup in his Plainfield Township home. The early-morning contact time was chosen because of favorable conditions for the overseas link, he said.

"What we actually do is bounce the radio waves off the ionosphere," Goodman explained. "It's called propagation, and it tends to favor long-distance stations."

Armed with maps and computer printouts, Goodman can pinpoint his yagi (a three-element, 70-foot directional antennae) to broadcast anywhere in the world.

The 46-year-old said he has been broadcasting as an amateur for 32

years and has talked to just about every country in the world. "Tonga is the rarest." Thousands of QSLs, or confirmation cards, line his basement in support of the claim.

Clarence Snyder, president of the DLARC, noted that the morning hours are best for talking to Europe and Africa, while South America is best reached around mid-day, and "at night the air is full of broadcasts from Japan."

Snyder said the club was contacted by the English group a few months ago, and the DLARC was instrumental in setting up the local contact points. According to Verne Burden, who serves as the amateur radio emergency coordinator for

Northampton County, about a half-dozen broadcast sites were organized in the county, and many more listeners were likely tuned in for the special event.

One club member, Robin Moseley, is in fact a native of the English town and now lives in Westcosville.

Moseley, 57, has been in contact with his family back in England since coming stateside in 1961. Still in Northampton, England, is his 85-year-old father, who is also a licensed amateur.

"I think of it in a certain sense as home," said Moseley, or KD3HS as he is known. "I have many fond memories of England and of Northampton in particular. I'm kind of mid-Atlantic right now."

Northampton County Executive-elect Jerry Seyfried and club member Bill Goodman K3ANS chat with Seyfried's counterpart in Northampton, England, 1991.





Express photograph/PETER A. PAOLICELU

Katie Granson, 10, waits patiently with amateur radio operator Tom Daniels just after

asking astronaut Ken Cameron a question about gravity.

Atlantis links with area school in space-to-Earth transmission

By TOM QUIGLEY
Express staff writer

HANOVER TOWNSHIP, Pa. — From 280 miles high, the Space Shuttle Atlantis' crew took time out Saturday from preparing to launch a huge scientific observatory to chat with school children at the Hanover Elementary School.

"What is the altitude when you lose gravity," queried 10-year-old Katie Granson, a fourth-grader at the Jacksonville Road school. "We really don't lose gravity," Astronaut Ken Cameron explained from his perch above the world. "The gravity holds us and keeps us from flying out to space."

A complicated communications network con-

nected youngsters from around the country with the Atlantis crew, which launched into orbit Friday, as part of the Shuttle Amateur Radio Experiment.

Folks from the Delaware-Lehigh Amateur Radio Club set up the necessary equipment at the school and although transmission problems shortened this close encounter of another kind, students appeared thrilled when they heard Cameron's crackling voice make its way from the depths of space to their school.

Students from Downingtown, Pa., and Pittsburgh also took part, as well as other communities from around the country. The transmission problems meant only one student from

Please see RADIO /B-4

DLARC member Tom Daniels N3CXP and a student from Hanover elementary School talk to the crew of the Space Shuttle Atlantis, 1991.

F.Y.I.

The July Program --TBA

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

**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

**The W3OK Corral is published monthly and is the Official Publication of the
DELAWARE LEHIGH AMATEUR RADIO CLUB INC.**

**14 Gracedale Avenue
Nazareth, Pa. 18064-9211**

THE NEWSLETTER STAFF

Editor – Don Holmes / KC3II ----- editor@dlarc.club
Web Master – Larry Kaplan / AB3TY ----- Webmaster@dlarc.club
Circulation – Larry Kaplan / AB3TY ----- lkdds@ptd.net
Photographer – Dave Blankenship / N3EYT ----- n3eyt@arrl.net