

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.
DECEMBER 2016



W3OK

CORRAL

**Club Meeting December 1st, 7:30PM At the
Bethlehem Township Community Center**



SEASON'S GREETINGS

DECEMBER MEETING PROGRAM

Annual Holiday get together

Bring a treat to share.



MINUTES FROM THE NOVEMBER MEETING

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

Call to Order: Steve / W3NAM Vice-President, called the meeting to order at 1930 hrs.

Pledge of Allegiance: Led by Steve / W3NAM.

Member Happenings: Jay / N3OW said he worked the CQWW under very tough conditions, making just one Japan contact when in previous years there were many.

Approval of the Minutes: Larry / AB3TY asked if there were any additions or corrections to the minutes as they appeared in the last newsletter. Steve / W3NAM asked for a motion to approve the minutes of the last meeting.

Motion: It was moved by Jo Ann / ND3JJ, second by Mark / W2MB. **Motion carried.**

Treasurer's Report: Mike / KB3LOD presented the Treasurer's Report for August. Steve / W3NAM asked for a motion to accept the report as read.

Motion: It was moved by Barry / KU3X, second by Dean / AB3BD (new call.) **Motion carried.**

Treasurer's Report #2: Mike / KB3LOD presented the Treasurer's report for September. Steve / W3NAM asked for a motion to accept the report as read. It was moved by Jay / N3OW, second by Dean / AB3BD.

Club Station: New Milkhouse chairman Les / W3LES reported there were two working club stations.

Club Repeater: No issues were reported

Website: No issues were reported. Barry / KU3X asked if the Club Bi-Laws were on the website. Pete / NL7XM said that one has to dig through the subsections. Rich / W3CT said that he would research the problem.

Membership Report: No new members were announced. Frank / W3WOW said new membership cards would be distributed after the membership roster is updated.

Visitors: None were present.

Education Classes: Bob / KE3AW said the classes have concluded. 30 have gone through and will be taking their exam for tech and general.

Club Badges: Dave / N3EYT announced he had badges for those requesting them. Any member in good standing without a badge should contact Dave.

Pete's Corner: Pete / NL7XM presented his book of interest. This month's pick is *Hiram Percy Maxim* by Alice Clink Schumacher.

Club Jackets and Shirts: Mark / W2MB said that order the order form will be available on the website and in the newsletter. Orders will need to be received by the January meeting.

Club Christmas Party: Jo Ann / ND3JJ agreed to be the chair for the Club party.

WX3MAS Special Event: Jon / NJ3I said WX3MAS will run Dec. 10-11 from 9am-5pm.

SKs: Pete / NL7XM asked for a moment of silence for Zeke / W3GMN and Jeff / N3QZT.

Iron Pigs: Bob / KE3AW said he has been contacted by the Iron Pigs asking if the Club is interested in securing a date for this coming season. Bob is seeking a consensus for a date when at least 20 can attend for a group rate.

Adjournment: There being no further business before the Club, the meeting adjourned the meeting at 1758 hrs.

Respectfully submitted by Larry / AB3TY, Secretary

DECEMBER QUICK CHECK CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 DL ARC MEETING 7:30 PM	2 NO VE SESSION	3
4	5	6	7 DLARC Net (N3SQD)	8	9	10
11	12	13	14 DLARC Net (KB3CTX)	15	16	17
18	19	20	21 DLARC Net (K3PDL)	22 DLARC BOARD MEETING	23	24
25 MERRY CHRISTMAS	26	27	28 DLARC Net (W3NAM)	29	30	31



DECEMBER CONTESTING AT THE OK CORRAL

- December 3 & 4 – ARRL 160 Meter Contest
 - 10 Meter RTTY Contest
- December 10 & 11 – ARRL 10 Meter Contest
 - International Naval Contest
- December 17 & 18 – ARRL Rookie Round Up - CW
 - Croatian CW Contest



VE TEST SESSION

There will not be a test session this month. The next test session will be January 6th at 7 PM at the Northampton County 911 center. Pretest registration is required. Contact Dean / N3HOG at dk28@ptd.net

MEMBERSHIP DUES ARE DUE!

It's that time, already! DUES are payable for the calendar year 2017. Here's how easy it is to remit your club DUES and keep your valuable D.L.A.R.C. Membership current. Whether in person or by mail, **CHECKS made payable to the D.L.A.R.C.** are the preferred method of payment to more accurately record your timely renewal. Please ensure that your callsign appears somewhere on the instrument, such as in the memo field. Paying with cash is discouraged, but if you really, *really* have to, kindly make certain you are prepared with the correct sum according to the rate table shown below. Remember, if your DUES are not paid by February 1st, your membership will expire.

2017 DUES Rates / No Changes

Regular Membership 18-64 years of age:

Jan. - Dec.\$17.-

65 and over, or retired from all forms of employment (no age limit)

Jan. - Dec.\$12.-

Additional Family member
each \$3.-

Associate Individual Membership
\$10.-

You are strongly encouraged to MAIL your DUES so that I may conduct the bulk of the record-keeping duties apart from where I believe you deserve the most of my attention. In person at Club Meetings, I'd prefer to answer your questions, address your concerns, and welcome your thoughtful revenue raising and savings ideas. Therefore, it is firmly advocated that DUES correspondence be mailed to:

Michael J. Gower
1511 Shelbourne Drive
Bethlehem, Pa. 18018

Enclosing a S.A.S.E will bring your new membership card back to you immediately if you can't attend the next Meeting where they are routinely distributed. You may write to me anytime with questions regarding DUES, or to discuss issues that you believe are my responsibility at: Treasurer@dlarc.org Include your phone number if you prefer a live reply.

de **Mike / KB3LOD, DLARC Treasurer**

HARD COPY SUBSCRIPTION

You must sign up if you want a hard copy newsletter subscription. The rate is \$12, this is exclusively for the newsletter only, to cover printing and mailing. The price of maintaining a Bulk Mailing Permit is too expensive to justify with the size of our membership, thus the first class postage requirement. This will squarely cover the cost of paper and printing supplies for 12 issues. To subscribe contact Pete / NL7XM at nl7xm@arrl.net

CLUB POLO SHIRTS AND JACKETS WILL AVAILABLE

Mark / W2MB will be taking orders for DLARC Polo Shirts and Jackets. All orders must be in by the January 2017 club meeting. More details will be forth coming at this months meeting. There is an order form at the end on this newsletter, and will be in next months newsletter also.

NOVEMBER PROGRAM REPORT

WIRE ANTENNAS

Jon / NB3I



Jon began by demonstrating the turning of a 10 meter dipole. Tuning by trimming, not by using a tuner. He explained how when you use a tuner, all you did was fool rank into accepting antenna as a tuned antenna. When in fact you still have all the factors that reduce the efficiency of your antenna which in turn causes a low power signal.

He went on to discuss other types of wire antennas. For example the off-center fed dipole, Delta loop and random wire antennas. These antennas were the types that he used his own station operation. Giving all the pros and cons that he experienced while using these antennas

He went on and discussed the Spider and Hex Beams, antennas he also had experience with and again covered the pros and cons of these antennas and ended the antenna discussion with a brief word or two on the G5RV antenna.

Jon finished up with an informative talk on coax and ladder line and how to best use them to feed an antenna. This was based on his experiences and also with assistance from the DLARC's resident antenna guru, Barry / NU3X. Together they presented a knowledgeable

and informative presentation coax and ladder line.

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.

Jeffrey (Jeff) Keller / N3QZT

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



NOVEMBER BRAINTEASER ANSWER

Footstool is a palindrome when written in Morse code.
It looks like:

..- .-

Winner – Barb / W3ATC



DECEMBER BRAINTEASER

Jane's grades in three different courses are 88, 94 and 82.
The credit hours for these courses are 3,4 and 1, respectively.
What is Jane's average score per credit hour?

WHAT'S A HALLOWEEN PARADE WITHOUT CANDY?

de Bob / KE3AW

In Emmaus on Saturday, October 15, it was a great parade with good behavior of all involved. The decision to prohibit candy this year was a result of recent numerous near mishaps of children darting out toward floats to get candy, unaware they sometimes end up in the path of the oncoming wheels of the vehicle. To date they have been pulled back in time to prevent a tragic accident. This parade ran well, without candy, but with a lot of fun. DLARC has been providing communications during the Emmaus parades for over 25 years.

This year's event involved 17 members. Fourteen drove their vehicles in the parade, alert for any delays in the parade flow and any other activities of safety and welfare issues which were transmitted to the parade marshal, via net control, for any necessary follow-up action.

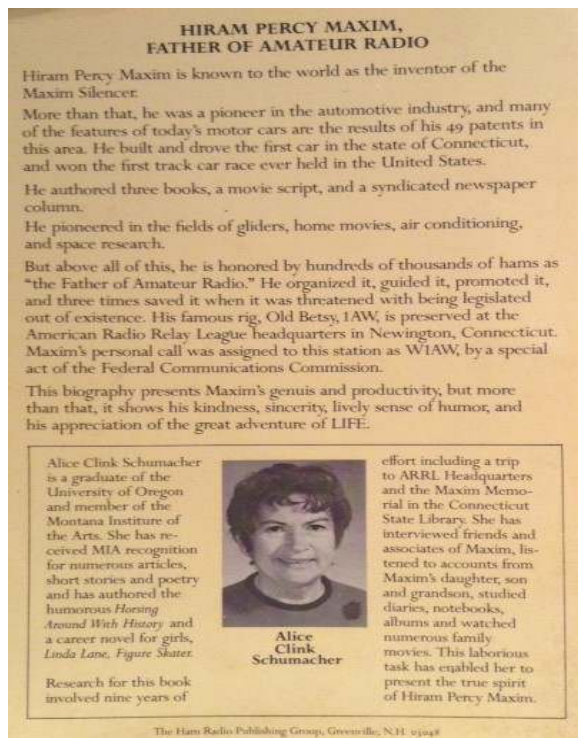
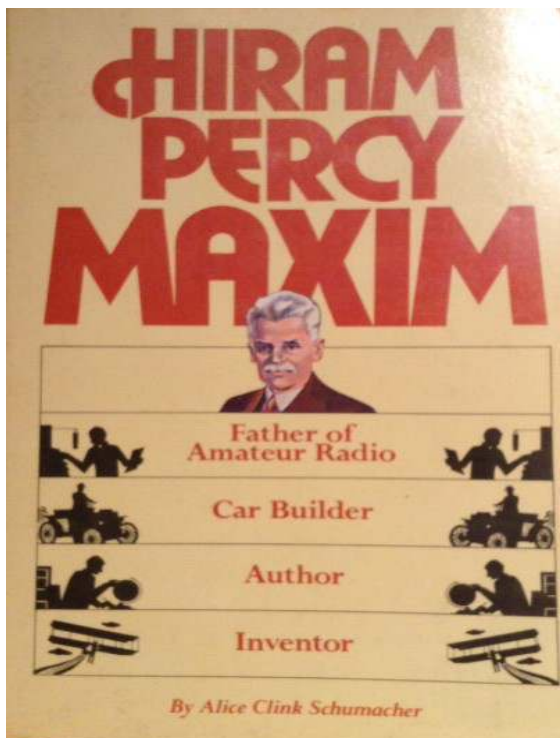
Those in the parade route were: Dave / KA3IWC, Andrew / WV1B, Jay / N3OW, Steve / W3NAM, Doreen / K3PDL, Rich / WC3T, Larry / AB3TY, Jo Ann / ND3JJ, Dean / KC3FXC, Evelyn / W3DOY, David / N3EYT, Steve / KC3AOE, Steve / K2OPA, and Bob / KE3AW.

Our Net Control Operator was George / N3SQD who was stationed with the Parade Marshal. On stand-by if needed as a late substitute was Roy / W0ROY. Doug / KB3WGH provided the Emmaus location for the cross-band repeater.

After the parade 25 members and their guests enjoyed the traditional Dutch Treat (or Meeting "B") at a nearby local restaurant. All in all a nice ending to a serious, yet enjoyable, public service event. As in the past, the Emmaus Halloween Parade Committee presented a generous donation to DLARC for our assistance. Thanks to all who participated!



PETE'S BOOK OF THE MONTH



Printed in the
United States of America
All Rights Reserved
ISBN: 0 918232-04-X
Library of Congress Card Catalog Number 76-057438

Also from Pete, is this used book source, courtesy of Chris / NU3L.

www.half.com

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.

FROSTFEST 2017

We are officially kicking off Frostfest 2017! The largest hamfest in the Mid-Atlantic will be held on Saturday, February 4, 2017 at the Richmond Raceway Complex.

www.frostfest.com is the place to find all the information about this great hamfest! Sales are open!

Many of your favorite vendors are already committed, and there will be more to come. Get a table or two and sell your excess equipment.

Check out all the details at www.frostfest.com

Discounted Group Rate: Courtyard Marriott Richmond, \$89/night. [Hotel Reservation Link](#) Pre-Show "Meet & Greet" will be held in the hotel lobby, Friday @ 7:30pm.

CHRISTMAS CITY SPECIAL EVENT STATION

Again this holiday season, the DLARC special event branch, "The Christmas City Station" will be on the air. Over the weekend of December 10th and 11th, 9AM to 6PM daily, from the Milk House with the call of WX3MAS. This our way of celebrating Christmas and wishing other hams around the world a "Merry Christmas" from the twin Christmas Cities of Nazareth and Bethlehem. Jon / NJ3I will again chair this event and is looking for support from the general membership. Operators will be needed man the radios during the on air period. Jon did a good job last year, but volunteers are needed to continue our tradition. Jon also has said that there will be a holiday dinner Saturday evening and left overs for Sunday plus any Christmas goodies you would like to bring. A sign up sheet will be available at the is meeting and also at the December

REFLECTIONS FROM THE PAST



WX3MAS – 1969 – Filling out QSO Cards

BROADCASTERS, JAMMERS WREAK HAVOC ON AMATEUR RADIO FREQUENCIES

The battle continues between Radio Eritrea (Voice of the Broad Masses) and Radio Ethiopia, which is said to be jamming the Eritrean broadcaster with broadband white noise. The problem for radio amateurs is that the battle is taking place in the 40 meter phone band — 7.145 and 7.175 MHz — with the jamming signal reported by the IARU Region 1 Monitoring System (IARUMS) to be 20 kHz wide on each channel. The on-air conflict has been going on for years; Ethiopia constructed new transmitting sites in 2008 and is said to use two or three of them for jamming purposes. The interfering signals can be heard in North America after dark. According to IARUMS Region 1 Coordinator Wolf Hadel, DK2OM, Radio Eritrea is airing separate programs on each frequency. He said in the IARUMS September newsletter that telecommunications regulators in Germany, Austria, and Switzerland have been informed, so they could file official complaints.

Other AM broadcast intruders on 40 meters include Radio Hargeisa in Somaliland on 7.120 MHz, which, Hadel said, is even audible in Australia and Japan. He further reports that the Voice of Iran's signal on 7.205 MHz is splattering up to 5 kHz on either side of its channel, while Radio France International, which operates on the same frequency, is splattering down to 7.185 MHz.

Other odds and ends on 40 meters include the so-called "V beacon" on 7.091.5 MHz. The looped CW signal, which sends the letter "V" over and over, is audible every day. Hadel said the signal originates in Kazakhstan.

Hadel has reported HF radar signals from Russia on 40 and 20 meters, with "long-lasting transmissions, often with many spurious emissions."

A Russian Air Force frequency-shift keyed signal identifying in CW as "REA4," has been active on 7.117 MHz, while a Russian Navy FSK signal "Sevastopol" has been observed on 14.180. Hadel said Germany's telecommunications regulator has filed an official complaint. Other Russian military signals have been heard on 7.016 MHz.

Chinese broadband OTH radars on 14 MHz generated some "Woodpecker" complaints, "but this was not the Russian 'Woodpecker,'" Hadel clarified. Mario Taeubel, DG0BJ, observed 11 OTH radars on 40 meters, 40 on 20 meters, 13 on 15 meters and 2 on 10 meters during September.

Hadel reports that signals from Spanish and Portuguese, UK, and Irish fishing operations, Indonesian and Philippine pirates, and OTH radar signals are sprinkled throughout 80, 40, 20, and 15 meters, while signals from oceangoing sensor buoys are heard widely on various discrete frequencies on 10 meters.

RULE MAKING PETITION TO FCC FOR VANITY CALL SIGN RULE CHANGES

The FCC is inviting comments on a Petition for Rule Making (RM-11775) from a Nevada radio amateur that seeks changes to the rules governing the Amateur Radio Vanity Call Sign Program. Christopher LaRue, W4ADL, of North Las Vegas, is proposing that any

licensee obtaining a vanity call sign be required to keep it for the full license term. LaRue contends in his petition that excessive and frequent vanity call sign filings are hampering the ability of other qualified licensees to obtain vanity call signs in one of the more desirable 1 x 2 or 2 x 1 formats. LaRue said that since the FCC dropped the fee to file for a vanity call sign, some applicants are taking advantage by regularly obtaining new call signs, thereby keeping them out of circulation.

The petition can be found on the web in PDF format at, <https://ecfsapi.fcc.gov/file/1004220986407/Petition%20.pdf> .

"Some are changing call signs almost monthly, just to keep the newer code-free Extra class operators from obtaining a shorter call sign," he said in his petition. "I even saw an older operator that said he does it all the time and has not even owned a radio in over 6 years. When I looked him up, he has had 16 different [call signs] in 18 months."

LaRue said his proposed minor rule change would require any licensee applying for and obtaining an Amateur Radio vanity call sign "be required to keep it for the duration of the license, which is currently 10 years."

He said this would "alleviate a lot of the stress on the ULS system and manpower requirements" at the FCC. "It will also keep inactive amateurs from changing call signs regularly, thereby tying up call signs for 2 years after dismissal of said call."

Interested parties may comment using the FCC Electronic Comment Filing System (ECFS) at, <https://www.fcc.gov/ecfs/> . Comments are due within 30 days of the October 26 posting date.

Greetings to my fellow Eastern Pennsylvania ARRL members.

By now most of you should have read or heard that I have been appointed interim Section Manager to fill the remainder of the current term.

Since we have been without a Section Manager for over three months my initial thrust is to try and get things back in order and reorganized. As part of that I have cleaned up our Section web page on the main www.arrl.org web site - there were many old posts there – including some I posted back in 2012 when I was the Section Emergency Coordinator. And if any of you have visited our www.epa-arrl.org web site the last few weeks you probably noticed that it got hacked. Well we have it back up and running, and installed some anti-malware software to try and prevent this from happening in the future. I've been in touch with most of the previous staff and am pleased that most are sticking around:

W. T. Jones, WN3LIF -- Section Emergency Coordinator

Tom Mills, AF4NC -- Assistant Section Manager

Bob Josuweit, WA3PZO -- Affiliated Club Coordinator

Olaf Markert, W3PA -- Official Observer Coordinator

Fred Serota, K3BHX -- State Government Liaison

Additionally I'm excited to announce a new addition to our staff. Kelsey Seymour, K3LYS, will become our new Section Youth Coordinator. He has been very active with Scouting and other youth activities in Tioga county and we now look forward to his working with the youth in the rest of the Section.

Continue to visit our Section page at www.arrl.org and also www.epa-arrl.org where we will continue to post news and other items and events of interests. I'm going to discuss with the staff how we utilize both sites. One idea is to use the arrl.org site for major news that might also be of interest to adjoining Sections, and use the epa-arrl.org for posts about club events, ARES activities, traffic reports, etc.

Remember, though, we can only post news and events we know about. So, if you have anything you would like to see posted (including photos) please send to either W.T., Tom, Bob J. or myself.

Thanks 73,

Bob Wiseman, EPA Section Manager

AUSTRIAN MOONBOUNCE ENTHUSIAST DEMONSTRATES SUCCESS WITH SMALL SCALL SETUP

Austrian Moonbounce Enthusiast Demonstrates Success with Small-Scale Setup

Hannes Fasching, OE5JFL, of Braunau am Inn, Austria, has demonstrated that you don't need a huge antenna system to operate EME (moonbounce) successfully. Fasching fired up for the October 22-23 weekend of the ARRL EME Contest, using a small horn antenna on 1.2 GHz.

"Because of other commitments I had only a few hours to be QRV in the first part of the ARRL EME Contest," he said in a Moon-Net post on October 26. "As tests with my recently built 23-centimeter horn antenna were promising, I decided to give it a try to work some stations."

Fasching placed the horn on his balcony with an 80 W solid-state amplifier. Operating *WSJT*, he logged contacts with Switzerland, Russia, Germany, and the Czech Republic.

He also heard stations in the Netherlands, Finland, Denmark, and Italy on digital modes and in the UK, Czech Republic, Denmark, and Italy on CW. Fasching, who also has a 7.3-meter homemade dish, has [uploaded](#) recordings of some EME signals to his website, along with the results of tests with his small system.

Quest Continues for

F.Y.I.

The January Program will be " Quartz Fest" - Al / W3CE & Barb / W3ATC

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 2016 - 2017 OFFICERS

President – Bill Connelly / W3MJ ----- president@dlarc.org
Vice President – Steve Harper / W3NAM ----- vicepresident@dlarc.org
Secretary – Larry Kaplan / AB3TY ----- secretary@dlarc.org
Treasurer – Mike Gower / KB3LOD ----- treasurer@dlarc.org

BOARD of DIRECTORS

Gabe Lantos / KZ2A ----- gpl-3639@gmail.com
Skip Leslie / KD2BDA ----- mleslie105@yahoo.com
Dave Mellman / KA3IWC ----- dbm073@gmail.com
Jo Ann Schaffer / ND3JJ ----- jo.schaffer.pa@gmail.com
Les Morrow / W3LES ----- lesf52@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

**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.org
Web Master – Brad Snyder / W3JXQ ----- w3jxq@dlarc.org
Circulation – Paul Morrison / N3YNT ----- n3ynt@aol.com



POLO SHIRT \$32.60

DEVON JONES D100 SHORT SLEEVE POLO SHIRT, ROYAL BLUE, AVAILABLE IN SIZES SMALL THROUGH 6XL WITH EMBROIDERED CLUB LOGO ABOVE LEFT BREAST AND CALL SIGN ABOVE RIGHT BREAST

FLEECE JACKET \$42.60

HARRITON M740 FLEECE LINED NYLON JACKET, ROYAL BLUE, AVAILABLE IN SIZES XSMALL THROUGH 4XL WITH EMBROIDERED CLUB LOGO ABOVE LEFT BREAST AND CALL SIGN ABOVE RIGHT BREAST

ORDERS NEED TO BE PLACED AT A **REGULAR CLUB MEETING** USING THE **ATTACHED FORM**, ON OR PRIOR TO THE **JANUARY 5, 2017** MEETING. PAYMENT WILL BE BY **CHECK ONLY** DUE AT THE TIME OF ORDER.

CHECK MADE PAYABLE TO: **ALL SPORTS STADIUM**

DELIVERED ORDERS NOT PICKED UP AT THE CLUB MEETING WILL BE LEFT AT THE CLUB STATION (MILKHOUSE) FOR PICKUP. MARK, W2MB, IS FACILITATING THE ORDER ONLY. ANY ISSUES TO BE RESOLVE BETWEEN THE BUYER AND THE VENDOR

VENDOR

ALL SPORTS STADIUM, ATTN: RICKY, 334 ROUTE 31 SOUTH, SUITE 2, WASHINGTON, NJ 07882 908-689-0411

-----PLEASE PRINT-CLEARLY-----

NAME: _____ CALL SIGN: _____ CONTACT PHONE: _____

QUAN	JACKET OR SHIRT	SIZE	\$TOTAL _____
------	-----------------	------	---------------

1. _____

2. _____

CHECK TOTAL: \$ _____