

**DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.**

*APRIL 2022*

# **W3OK CORRAL**

Club Meeting April 7, 7:30PM at the Nancy Run Firehouse. It will be another hybrid meeting with members at the Firehouse and on Zoom. Hopefully the problems from March Meeting will be taken care of.

**APRIL MEETING PROGRAM**

**TBA**



## *MARCH MEETING MINUTES*

The General Meeting was held at the Firehouse and on ZOOM. There were some problems that hopefully will be rectified before the April Meeting which will again be a hybrid.

President Jim Matlack, KC3MKP called the meeting to order at 7:35p.m.

**President's Report:** Jim talked to Stephanie about bring the Field Day Chairperson and she said no. So, there is a need for someone to step up and volunteer to be the Chairperson. Anybody interested should contact any of the Executive Members. Their contact information is at the end of the Newsletter.

**Announcements:** Jim asked George, N3SQD, about the use of the Park for this year's Field Day. He's waiting for the sign sheet. He said that there shouldn't be any problems getting the Park for Field Day.

**Guests:** We had one guest, Marc Sloan. He's looking into becoming a Ham.

**Secretary's Report:** John, N3IGA, asked if there was any additions or corrections to the Meeting Minutes as printed in the Newsletter last month. A motion to accept the Minutes from February was made by Dean, AB3BD and second by Terry, KC3JHT and was carried.

**Treasurer's Report:** Larry, KC3JTK, presented the report for February. A motion by Dean, AB3BD to accept the report. George, N3SQD second the motion and so moved.

### **Committee Reports:**

**Membership:** Terry, KC3JHT, reported that there are 91 paid members, 2 associate member, and 9 life members to bring the total of 102 members.

**Club Station:** George, N3SQD, reported that there was a lot of hardware in the Milkhouse that needs to be sold. It's equipment from an estate. There was talk about seeing if any club members that need any equipment to help get on the air or update their station. Since the club isn't really looking to make money on selling any of the equipment to members, the prices would be reasonable low to benefit both the club and the Ham. Whatever equipment is left over, will be taken to the Sussex Hamfest.

**Tech Committee:** No report

**Website:** No Report

**Repeater:** No Report

**New Business:** Jim contacted the list server for the DLARCforum about what must be done to change who oversees it. He found out that the people that work for the list server are all volunteers, so it may take a while to get answers. Jim wants the person in control to be someone local.

**Old Business:** There was a discussion about having the License Classes using Zoom. There was a lot of discussions about seeing if the Firehouse can be used for Testing after

classes are done. Bob, KE3AW, needs to talk to Ed, AA3OU, about using the Firehouse. There needs to have all questions answered before things can be worked out.

**Awards:** None

**Other information:** Jim reminded everyone present and on Zoom that we need to get more programs for the meetings. He said that he was thinking about having a weather program like SKYWARN since he knows how well it's working out in Pittsburg. He wanted to see if Philadelphia has something like that. He learned that Philadelphia doesn't have that because National Weather Service in Mt. Holly, NJ is where the weather reports come from. Mt. Holly did have a very active SKYWARN program back in the late 1990s. There were SKYWARN classes held at club meetings. There were even Hams at Mt. Holly to help get live updates from any severe storms in their coverage area. Then a PA EPA Section Manager wanted to join SKYWARN with NTS which didn't go over with ARRL and Mt. Holly. Now all you do is take a online SKYWARN course, get your SKYWARN ID number and do reports by way of emails. No Hams are needed at Mt. Holly anymore.

**Adjournment:** There being no further business, a motion to adjourn the meeting was made by Dean, AB3BD and seconded by Adam, N3LAG. The meeting was adjourned at 8:10p.m so the program could be set up.

## **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.

## **March Program**

In regard to what VSWR is, well, most hams simply call it SWR or standing wave ratio. So, to set the context for this discussion, consider a transmitter, and its transmission line, to the antenna. Ok, the idea is to get the maximum amount of power out of the transmitter to the antenna to give us the maximum radiated power. So if, say, the transmitter is putting out 100 W in the 75M band, we want as much of that 100 Watts to go out on the airways as possible. Unfortunately, between the transmitter and antenna, there are couplings and connections, as well as the antenna itself. And at these places, some of the power may be reflected towards the transmitter because of impedance mismatches between the transmitters, the coax line (usually 50 ohms) and the antenna, which may have an impedance of say 400 ohms at 3.80 MHz. These reflections reduce the radiated power, and the reflected power is then dissipated as heat in the coax or back at the transmitter. If this reflected power gets too high, it may cause damage to the coaxial line or the transmitter. So, the goal is to eliminate, or at last reduce the reflected power to manageable levels. This is where SWR comes in, as it is a measure of the reflected power to the incident (or forward) power. This presentation talks about how to calculate it mathematically, explain its meaning, and to dispel some misconceptions about it. For example, most transmitters today spec their output will work into a 3.0:1 SWR load (antenna). This represents half of the transmitted power being reflected toward the transmitter before it shuts-down to protect its output circuits.

### **NEWSLETTER INFORMATION**

If any member has anything that they think would interest other club members such as Ham Radio articles, Contesting, and any other interesting subjects, please send them to me to put in our newsletter. It really doesn't have to be any radio subject.

You can send your information to my email address located at the end of the Newsletter.

# DLARC NET QUICK CHECK CALENDAR

April 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6 DLARC NET Dave N3EYT	7 DLARC MEETNG 7:30pm	8	9
10	11	12	13 DLARC NET Al W3CE	14	15	16
17	18 DLARC BOARD MEETING 7:00pm	19	20 DLARC NET George N3SQD	21	22	23
24	25	26	27 DLARC NET Ben N3WR	28	29	30

## 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. 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 George, N3SQD at [george@bioserv.com](mailto:george@bioserv.com). 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.

## 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 evening 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 positions 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 to conserve local bandwidth.

*ANNOUNCING THE*

# 2022 YORK HAMFEST



**Sponsored by the York Hamfest Foundation**  
The Areas Oldest Continuous Hamfest, our 66th Year

**SATURDAY, APRIL 30, 2022**  
**8:00 AM TO 1:00 PM**

**ELICKER'S GROVE PARK**

511 Roth Church Rd

Spring Grove, PA

17362

Easy access from York, PA or Hanover, PA

**PLENTY OF FREE PARKING!**

**TAILGATING AND LIMITED UNDER COVER  
SPACES**

- o **TAILGATING SET UP AT 6 AM SATURDAY MORNING:** \$5 per 10' space, plus admission
- o **GENERAL ADMISSION AT 8 AM**
  - \$5 per person
  - Children Under 16 FREE when accompanied by an adult
  - Unlicensed Spouses FREE
- o **RAINORSHINE**
- o **COMMERCIAL VENDORS ARE EXPECTED TO COLLECT & REMIT PA SALES TAX**
- o **FREE VE TEST-Registration starts at 10:30 AM-Testing at 11:00 AM**  
(Admission fees paid can be refunded upon registration for testing, full ticket and stub are required)
- o **FOOD VENDOR WILL BE AVAILABLE**
- o **CARD CHECKING FOR DXCC/WAS/VUCC/WAC**
- o **DOOR PRIZES** (Don't have to be present to win grand prize)
- o **FLUSH TYPE BATHROOMS ARE BACK**
- o **VENDORS ARE NOT ALLOWED ON PREMISES PRIOR TO 5:00 PM FRIDAY THE 29th**

**CHECK OUR WEBSITE FOR UPDATES:**

**www.yorkhamfest.org**FOR GENERAL INFORMATION:

[duane.sterner@yahoo.com](mailto:duane.sterner@yahoo.com)

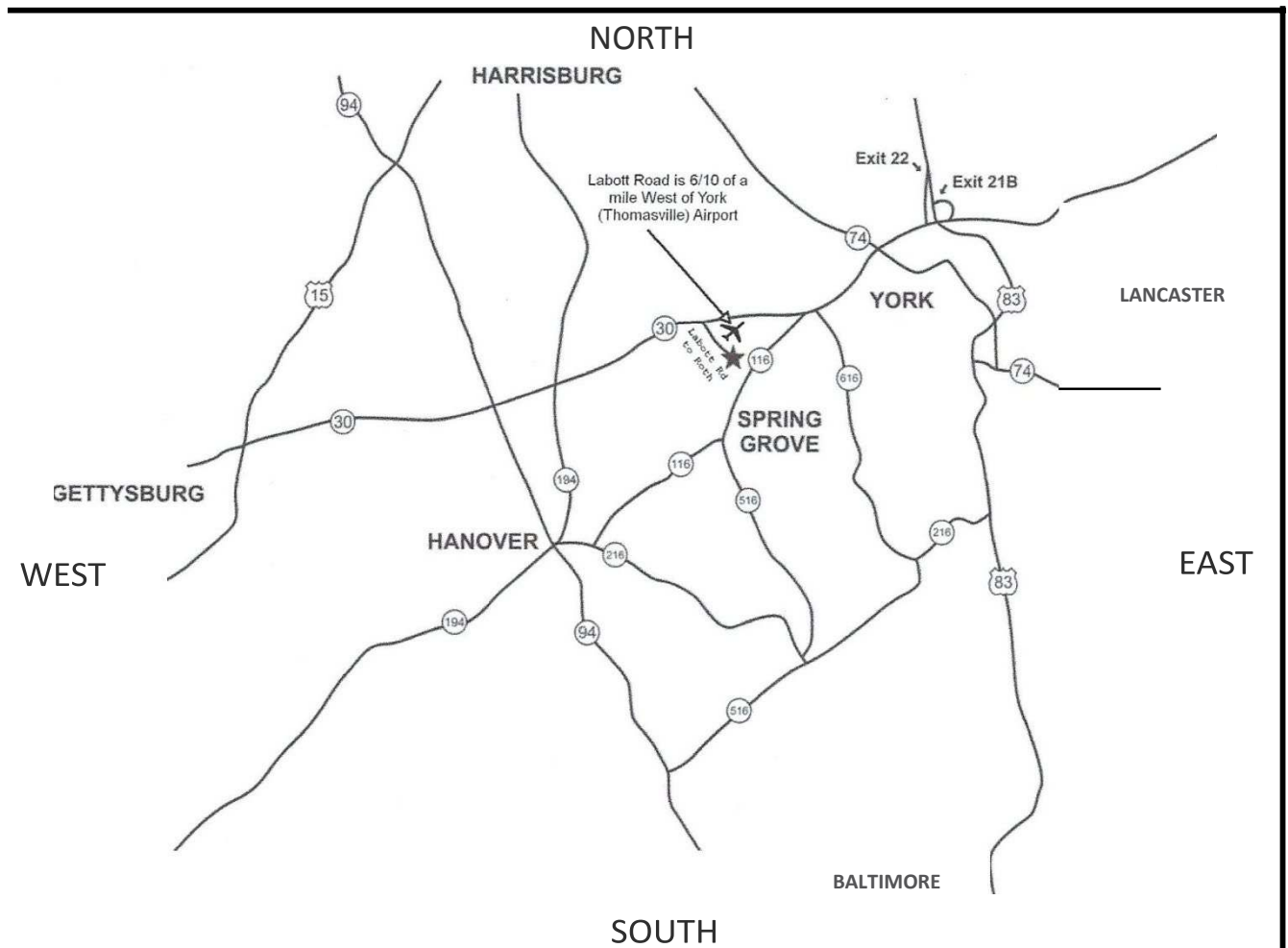
**TALK IN: W3MUM Repeater 147.330+600 PL: 123.0**

**ALTERNATE: 146.580 Simplex**

# YORK HAMFEST

Elicker's Grove Park

511 Roth Church Road - Spring Grove, PA 17362



THIS MAP IS NOT DRAWN TO SCALE

## Directions from Harrisburg:

- Take 1-83 S toward York (21.3 miles)
- Take the PA-181 exit, Exit 22, toward US-30/Manchester (.2 miles)
- Turn right onto 1-83 BR/PA-181 N. George Street and continue to follow N. George Street (.5 miles)
- Turn right onto Arsenal Road/US-30 W. (5 miles)
- Merge onto us-30 W/Lincoln Hwy toward Gettysburg (5 miles)
- Turn Left onto Labatt Road (.8 mile)
- Continue onto Roth Church Road (.2 miles)
- Elicker's Grove Park is on the left.

## Directions from Hanover:

- Start center square Hanover
- Proceed North East on Broadway PA (6.2 miles)
- Turn right on US-30 (5.8 miles)
- Turn Right onto Labatt Road (.8 mile)
- Continue onto Roth Church Road (.2 mile)
- Elicker's Grove Park is on the left.

## GPS

N39 54' 30.87" W76 52' 59.15"  
39.9086223 -76.883134

Talk-In: 147.330+600 (ctcss 123.0 Hz)  
Alternate: 146.52 Simplex

## Directions from Baltimore:

Take 1-83 N toward York and follow directions below from York

## Directions from York:

- Traveling on 83 N, take Exit 21B and follow directions to Rt. 30W
- Traveling on 83 S, exit at Rt 30 W, Exit 22
- Coming from Lancaster take Rt 30 W
- Stay on 30 W toward Gettysburg (10 miles)
- Turn left onto Labatt Road (.8 mile)
- Continue onto Roth Church Road (.2 mile)
- Elicker's Grove Park is on the left.



## **LOOKIN' FOR DLARC MEMBERS' HELP**

Each spring and fall for the past number of decades DLARC has offered classes in preparation for the FCC ham license tests. I suppose many reading this message may have gone through the classes, as I did back in 1990.

The classes have proven to be very helpful to passing the license exam, but also in allowing new hams to get some ideas of how they might set up their unique stations, learn on-the-air protocol, experience hands-on transceivers, to name a few additional information beyond the FCC exam. Each of the two sessions per year, spring and fall, have been scheduled for 10 Tuesday evenings, 7: 00 p.m. to 9:00 p.m. The 10<sup>th</sup> session is dedicated to VE testing for those in class as well as non-students.

We want to continue the classes, but this year we are facing a problem. We need a room for the fall series of classes. The room at the 911 Center cannot be guaranteed for us at this time. Although we would like to start classes on the traditional day after Labor Day, we may need change the start day and date, and /or class times when we find a location. We'll cross that bridge when we come to it!

So, here is where your help can be valuable. We are looking for leads from anyone who knows of a possible meeting room(s) in a school, library, church/synagogue, fire hall, municipal building, etc., which could meet our needs, and if so, would you please pass that information to us – with the contact's name and phone number if known.

We are most interested in locations near the center of Northampton County but will appreciate all leads to pursue.

Contact: Bob Green/KE3AW [KE3AW@ARRL.NET](mailto:KE3AW@ARRL.NET) or phone 610.419.9286

TNX,

Bob/KE3AW

## **U. S. AMATEUR RADIO BAND PLAN**

With the problems that the Volunteer Monitor Program is having with Hams operating beyond the Ham's license privileges that I thought I would put the US Amateur Radio Band in the Newsletter so members can copy and print it out and put it in their Radio Shack. Why jeopardize your license chasing a hard-to-get contact that is out of your operating range? I got the Band Plan from the ARRL site of "On The Air".

De John, N3IGA Editor

# US Amateur Radio Bands

Operator license classes: **E** = Amateur Extra **A** = Advanced **G** = General **T** = Technician **N** = Novice  
 CW operation is permitted throughout all amateur bands. Except as noted, all frequencies are in megahertz (MHz).

█ = RTTY, data, phone, image   
 █ = USB phone, RTTY, data and CW   
 █ = RTTY and data   
 █ = phone and image  
█ = SSB phone   
||||| = CW only

## LF – Low Frequency band

## MF – Medium Frequency bands

**2200 Meters (135 kHz) E,A,G**  
**1 W EIRP maximum**

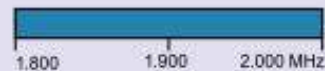


**630 Meters (472 kHz) E,A,G**

5 W EIRP max, except in Alaska within 495 miles of Russia where the limit is 1 W EIRP



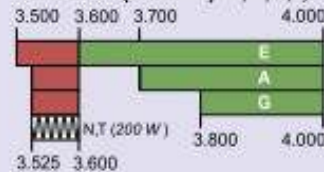
**160 Meters (1.8 MHz) E,A,G**



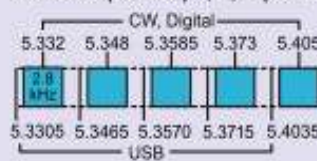
Amateurs wishing to operate on **2200 or 630 meters** must first register with the Utilities Technology Council online at <https://utc.org/plc-database-amateur-notification-process/>. You need only register once for each band.

## HF – High Frequency bands

**80 Meters (3.5 MHz) E,A,G,T,N**

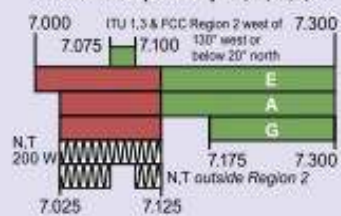


**60 Meters (5.3 MHz) E, A, G (100 W)**



Gen, Adv, and Extra licensees may operate on a secondary basis with a maximum ERP of 100 W maximum.

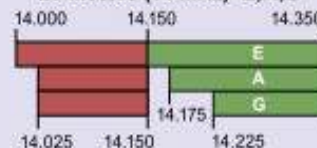
**40 Meters (7 MHz) E,A,G,T,N**



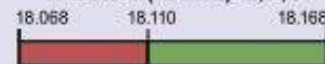
**30 Meters (10.1 MHz) E,A,G**



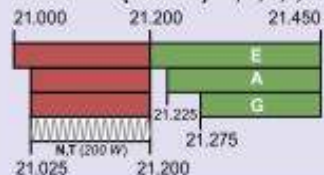
**20 Meters (14 MHz) E,A,G**



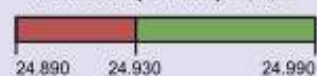
**17 Meters (18 MHz) E,A,G**



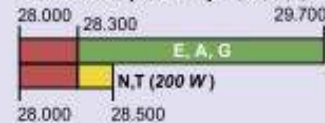
**15 Meters (21 MHz) E,A,G,T,N**



**12 Meters (24 MHz) E,A,G**



**10 Meters (28 MHz) E,A,G,T,N**

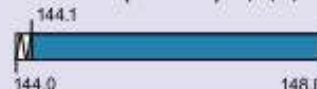


## VHF – Very High Frequency bands

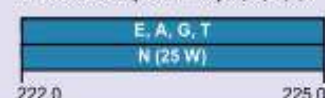
**6 Meters (50 MHz) E,A,G,T**



**2 Meters (144 MHz) E,A,G,T**

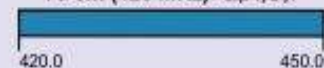


**1.25 Meters (222 MHz) E,A,G,T,N**

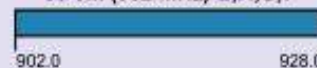


## UHF – Ultra High Frequency bands

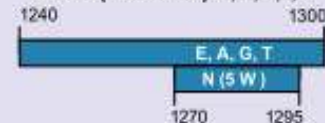
**70 cm (420 MHz) E,A,G,T**



**33 cm (902 MHz) E,A,G,T**



**23 cm (1240 MHz) E,A,G,T,N**



## SHF&EHF – Super and Extremely High Frequency bands

All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz    3300-3500 MHz    10.0-10.5 GHz    47.0-47.2 GHz    122.25-123.0 GHz    241-250 GHz  
 2390-2450 MHz    5650-5925 MHz    24.0-24.25 GHz    76.0-81.0 GHz    134-141 GHz    All above 275 GHz

See [www.arrl.org/band-plan](http://www.arrl.org/band-plan) for detailed band plans.

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## EXECUTIVE COMMITTEE 2021-2022

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**Vice President** – Steve Harper / W3NAM ----- sharper3152@gmail.com  
**Secretary** – John Holmes / N3IGA ----- john.holmes@rcn.com  
**Treasurer** – Larry Butler / KC3JTK-----lrbutler@ptd.net

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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 Nancy Run Firehouse. 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.**

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