

**DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.**  
**MARCH 2019**



***W3OK***

***CORRAL***

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

**MARCH MEETING PROGRAM**

**“CISM” – Critical Stress Debriefing  
Joel / WB3IWC**



**FEBRUARY PROGRAM**

**“ Therapy Dogs “  
Joel / WB3IWC**

## MINUTES FROM THE FEBRUARY MEETING

A General Meeting of the Delaware-Lehigh Amateur Radio Club was held on February 7, 2019 at the Bethlehem Township Community Center, Bethlehem, PA.

President, Stephanie Koles, WX3K called the meeting to order at 7:31 p.m.

### President's Report:

- Stephanie announced that the Board plans to be more proactive in interacting with new members to get them more involved in the Club and help link them up with Elmers.
- To help new members get to know our committee chairs, Stephanie introduced the W3OK Corral editor, Don Holmes, KC3II, and encouraged members to contact him if they have any articles or items of interest for the newsletter.

**Visitor:** Andria Zaia, who is a coordinator of the "100 Years of Radio" display now on exhibit at the National Museum of Industrial History at the Bethlehem Steel Stacks. Their "Don't Touch That Dial" exhibit features about 100 radios and has a functioning radio shack. Andria had a sign-up sheet for anyone who would like volunteers to operate at the exhibit radio shack. The exhibit will run from Feb. 9 until Nov. 3, 2019. 10 am to 5 pm. They also need radio docents.

**Members Announcements:** Bob Oppen, NE2C, introduced Tucker Dunham, KD2JPM, who is taking an electronics technical course and would like assistance for his class project: building a tube-type amplifier. If anyone has any components that he can use, please contact Tucker or Bob. Members have visited Dean Guth, AB3BD, who is in rehab after neck surgery. They report that Dean has a great attitude and his recover is ahead of schedule. George Wieland, N3SQD, announced that on February 9<sup>th</sup>, he will be explaining the parameters of the March 9<sup>th</sup> mock emergency simplex drill, which is being coordinated with Lehigh County. All interested members are welcome to participate.

**Secretary's Report:** JoAnn Schaffer, ND3JJ, announced that the Minutes for the January 3, 2019 General Meeting were emailed to the membership on January 31, 2019. A motion to accept the Minutes was made by Les Morrow, W3LES; it was seconded, and so moved.

**Treasurer's Report:** Mike Gower, KB3LOD, gave his report for December 2019. A motion to accept the Treasurer's Report was made by Mark Bond, W2MB; it was seconded, and so moved.

### Committee Reports:

Club Station: Station manager, Les Morrow, W3LES, said that we are having issues with our network and DStar, but that they are being worked on.

Membership: Membership Chair Terry Swinney, KC3JHT, announced two applications for membership: John Makuvek, K3LE; George Wieland, N3SQD, moved that he be accepted for membership; it was seconded and so moved; and Walt Tremer, KC3MNP; George, N3SQD moved that he be accepted for membership; it was seconded and so moved.

Education: Steve Levine, K2OPA, announced that on March 5<sup>th</sup> classes will begin for Tech and General licenses

**Adjournment:** There being no further business, the meeting was adjourned at 8:04 p.m.

Minutes submitted by

**Secretary, JoAnn Schaffer, ND3JJ**

## VE TEST SESSION

There will be a test session this month on March 8<sup>th</sup> at 7 PM at the Northampton County 911 center. Pretest registration is required. Contact John / NT3P at nt3p@arrl.net

## NEW MEMBERS

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 members are Walt Tremer / KC3MNP and John Makuvek / K3LE.

### *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.*

*You Song Kim / KA3MQK*

## DLARC AMATEUR RADIO LICENSE CLASSES

de Bob / KE3AW

The Spring Series of Amateur Radio Classes for prospective hams and licensed hams wishing to upgrade to the General license, will begin on Tuesday, March 5th at the 911 Communication Center. It is not too early to register for the 9 Tuesday evening classes, 7 p.m. – 9 p.m.

Please pass the word to family and friends. Anyone interested in registering, or with questions, should contact me at [KE3AW@arrl.net](mailto:KE3AW@arrl.net) or phone 610.432.8286.

We will register people onto the roster on a first-come, first-served basis. If we go over 25 again for the Technician Class we will offer priority placement on the Fall, 2019 list.

### MARCH QUICK CHECK CALENDAR

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1			1	2
3	4	5 <b>Spring Classes Begin</b>	6 <b>DLARC Net (W3CE)</b>	7 <b>DLARC Meeting 7:30 PM</b>	8 <b>VE SESSION</b>	9 <b>Simplex RACES/ ARES Drill</b>
10 <b>DAY LIGHT SAVINGS BEGINS</b>	11	12	13 <b>DLARC Net (KC3II)</b>	14	15	16
17 <b>St. Patrick's DAY</b>	18	19 <b>DLARC BOARD MEETING</b>	20 <b>DLARCC Net (N3SQD)</b>	21	22	23
24	25	26	27 <b>DLARC Net (KB3CTX)</b>	28	29	30
31						

### 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.

### FIELD DAY 2019

Field Day for 2019 will be held on June 22 & 23. The DARC will hold their event at All American Park. This annual event is a demonstration of emergency drill skills and a fun social gathering. On air practice for real emergencies and a chance to get on the air if you don't have a station of your own yet, An overall chairperson is needed as are food schedulers and equipment organizers. If you are interested in any of the positions, contact any member of the Executive Committee, their contact information is listed on the back page of this newsletter.

### HELP WANTED

The National Museum of Indus Trial History is presenting a special event called "Don't Touch That Dial". It is to present a visual history of 100 years of radio. Also there will be a fully functioning Amateur Radio station. Licensed operators are needed for the station, The location is 602 E. 2<sup>nd</sup> Street, Bethlehem. The old Bethlehem Steel Electrical Shop. For more information – 610 694-6636



### MARCH CONTESTING AT THE OK CORRAL

- March 2 & 3 – ARRL International DX Contest – SSB  
– Open Ukraine RTTY Championship
- March 9 & 10 – RSGB Commonwealth Contest  
– EA PSK 63 Contest
- March 16 & 17 – Russian DX Contest  
– BARTG HF RTTY Contest
- March 23 & 24 – UK/EI DX Contest – CW
- March 30 & 31 – CQ WW WPX Contest – SSB



### POSSIBLE NEW MONTHLY FEATURE

An idea was presented to me, recently as to the presentation of a monthly article honoring a DLARC member as Ham of the Month. Having a member give a brief history of their experiences with Amateur Radio and with the DLARC, I do know, we have members with many years of club membership and Amateur stories to tell. Let me know how you feel about such an endeavor. And if you would want to contribute to such a feature.

de KC3II

### 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

### FEBRUARY BRAINTEASER ANSWER

10 and 6

The winner is Doreen / K3PDL



### MARCH BRAINTEASER

**A dealer ordered a picture 12 inches by 18 inches to be framed so that it would cover just twice its former wall space, the frame to be of uniform width. How wide should the frame be?**

### NOTICE

There will a ARES/RACES simplex emergency drill Saturday March 9<sup>th</sup>. The drill is for the purpose of training members in handling a real emergency. For more information contact George / N3SQD.

### FEBRUARY PROGRAM REPORT

#### Therapy Dogs

#### Joel / WB3IWC & Bailey

Joel a long time Therapy Dog handler and DLARC member with his latest dog was this months presentation. He began with the example of how is when you come home from a hard day at work and your pet comes to you for attention and how relaxing it is while you are petting or scratching your pet. Doesn't necessarily mean it has to be a dog could be a cat.. But it is the scratching and or petting that seems to be the relaxing agent for you.

Joel explained how some dogs seem to have some sort of extra sensory sense and are able to detect things that people are unable to see. He gave an example of dogs that can .detect cancer and seizures.

Therapy dogs work on the same principle, creating relaxing situations and bring about calming feelings. Joel gave examples of his personal experiences going into hospitals and other facilities where this kind of therapy is of great help. He has worked with senior citizens, children and even stressed-out college students with almost every time good results.

Joel is certified as a critical stress debriefer, and was at 9/11, Katrina in New Orleans, and recently the California fires. This is the subject for the March program and will be expanded at that time.

Joel explained what was necessary for a therapy dog and what was expected from that dog and owner during a session. Also what was needed for a handler to do, in order to go into the different facilities and work your dog. Also explained was the various organizations that were available for information and/or training.

Joel ended with the usual question-and-answer period. Another informative program to bad if you missed it.

### WEDNESDAY EVENING DINNER CLUB

Don't forget the Wednesday Evening Dinner Club. Club members get together for dinner prior to heading up to the "Milkhouse" for the weekly gathering. Listen to the Wednesday Net for the following weeks location. Each week is a different location. Also it is posted on the club FORUM. A fun get together!

## PRODUCT REVIEW

### Yaesu FT991A

- A Yaesu FT991 (non A version) was donated to the club some time ago. I figured I better learn how to use it so I could teach new comers how to use the radio. My first impression was, "this is a terrible radio !" The more I used it the more I groused. About a year later I decided to take a closer look at what this radio could do. I realized it had potential and I decided to take an in depth look at the manual. Once I learned what this radio could do, I new for a, "One Radio Do All", this radio may fit my needs for portable operating.
- For a long time I toyed over the idea of purchasing the FT991A. I finally decided to put the wheels in motion. First I downloaded the manual and for days on end I studied it. Next I printed out the setup menu and went through each setting one at a time. I learned what I needed to change to fit my needs. Between what I learned from using the club's 991 and what I learned from studying the manual, I realized this radio has potential.



- Then I purchase the FT991A from HRO and started the setup procedure. It took about 4 days to finalize my settings.
- The 991 has two sets of menus, radio setup menu and function menus. The setup menu has 153 items. Almost all of these line items are once and done settings. These are items like, display color, CAT control, CW mode (A or B), maximum power for HF/6/2/440, radio ID and more. The function menu is for day to day use. This comprises of 10 screens of items. Some of these items are as follows: Break-in, noise blanker, digital noise reduction, VOX and more. The radio also has four programmable function keys. You can program these so you do not have to go into the 10 screens of function setting to change what you want. For CW, I programmed the four functions I would use the most; [meter], [bandwidth], [CW speed] and [digital noise reduction].
- There is also a C.S. button to the left of the VFO. This button can be programmed to access any one of the 153 setup menus. I have mine programmed to instantly adjust the power output. I operate from QRP / 5 watts to 50 watts for portable operation and 100 watts for primary station operation. If I connect the 991 to my home brew amp I need 65 watts of drive for legal limit out. If I connect the 991 to my KPA500 solid state amp I only need 25 watts for full power out. This would be my most widely use menu item.
- The next thing I did, in the function menu, was to turn off the IPO (pre amp) for all of the bands from 160 meters to 20 meters. The radio uses band stacking registers. When you tap the icon to go to 20 metes, you have three selections. Each selection stores its own settings. So to turn off the IPO from 160 to 20 meters, you have to do it 15 times. 160, 80, 40, 30 and 20 times 15 IPO settings. There are also other items that are not shared and when you want to change all of them on all of the HF bands, you may have to make that change 27 times?
- I won't address how to set up the mic gain as well as the RF processor levels since you have to do the same on all radios. Actually, right out of the box, you could connect 12 volts DC to this radio, hook up a resonant antenna and put the radio on the air without changing any of the settings. The mic gain and the RF speech compressor were set almost perfect right from the start.
- The next item to set up was the audio equalizer. This was not easy since I was totally confused by the way Yaesu goes about it. The 991 uses a three band equalizer. You have to pick what frequency within the range, pick the Q and the level of each range that you would like to modify. To me it was very confusing and I had to seek help. I wanted to attenuate some of the lows and enhance the highs for a good DX quality audio. The manual actually gives an example of how to set up the equalizer to do just that. I started to get an understanding of what I needed to

do and applied Yaesu's suggestion. Once the equalizer was set up I started to work some DX. I've gotten numerous ***unsolicited*** reports telling me how good my audio sounded. I am only using the hand mic that is supplied with the radio. At this point I did not see the need to purchase an expensive after market hand held mic. By adjusting the equalizer for DX and setting the RF speech processor for 10 db of compression, you will end up with contest quality audio that really packs a punch. With these settings, it is also perfect for day to day rag chewing contacts.

- For reception, I set the low cut range at 300 Hz and the high cut range at 2600 Hz. This is done in the setup menu. You can also adjust the bandwidth, on the fly, in the function menu.
- CW... What a great CW radio. Between the fully adjustable CW bandwidth, digital noise reduction and audio peak filter, you can really pick out a weak signal that is in the noise. I was super impressed with the results. The built in keyer was perfect right from the start. The only change I made was setting the CW speed.
- The 991A has a built in memory keyer and digital voice recorder. You can access the five onboard memories by tapping icons on the display or by using the optional Yaesu remote keypad, model number FH-2. I ordered the keypad the same at time I purchased the radio. It really is a great option. The memory keyer is super easy to program. For CW you can either enter the text message using the keypad on the display or program the message via the CW paddles.
- The 991 also has a spectral display with a waterfall. All I can say about this feature is, "it's usable." I've seen better. The span is adjustable. You can view a narrow section of the band or up to 500 kHz which is pretty much of the entire band, depending on your band selection. If you want to see if there is any activity on 15 meters, instead of turning the vfo to listen from the bottom of the band to the top of the band, all you have to do is go to 15 meters and view the spectral display. If there's a signal you will see it in the spectral display. No signal, time to change bands. The spectral display on the IC7300 is far superior.
- The onboard auto antenna tuner can match up to a 3 to 1 SWR. The tuner is a little on the slow side, but once a match is found, the results are stored into memory. When you go back to the same frequency, the tuner will follow and you will not have to have the tuner search for a match again. I highly suggest you use a good resonant antenna. This is something I've been promoting for over 40 years, nothing new here.
- The radio has 99 programmable memory channels. Yaesu has programmed the 60 meter frequencies in memory channels. I programmed all of the local VHF and UHF repeaters in some of the memory channels. I also programmed the QRP calling frequencies in memory channels. When I go to memory channel #53, which is 14.060 MHz, the 20 meter QRP calling frequency, I can use the VFO to move from that frequency. In other words, the memory channels are tunable. It's really easy to program the memory channels. I decided to make it easier by purchasing the RT software that can not only make it easy to program the memories, but you can also save, not only the memories to a file on the computer, but you can also save the radio's configuration. This makes setting up the radio super easy if you would do a total reset for some reason. Easy to do, do a total reset, start the RT software and then upload the saved file to the radio. In two minutes you are up and running again.
- If you are going to use an RF amplifier with this radio, Yaesu made a big mistake. The jack on the back of the radio that is used for the remote keypad is shared with the ALC line for the RF amplifier. But, you can only use that port for either the keypad or ALC, not both. You have to go into the setup menu and choose what you are going to use this connector for. I kept my port set for using the remote keypad. Now if I use an external RF amplifier, instead of hooking up the ALC, I just have to remember to turn the power back to around 65 watts. Shame on you Yaesu !
- I did not purchase this radio to get on Yaesu's Fusion, but since it is a mode of operation on the 991, I decided to try it out. I watched numerous YouTube videos to learn how to set up the radio. I could not get the 991 to connect to any nodes. "Now what?" After doing some research I found out that Wires X is not supported on any repeater in a 50 mile radius of the Lehigh Valley. Wires is a digital mode, Wires X is a digital mode which uses the internet that is connected to the local repeater. There are numerous repeaters, in the local area, that operate on Fusion, but none are connected to the internet, so no Wires X.
- Final words: I wanted a good radio for operating portable in the park. My two choices were the Icom IC 7300 and the FT 991A. The FT991A provided not only HF/6 but UHF and VHF as well. I am not impressed with the pan adapter and the radio also draws about 1.6 amp on receive. There is a major learning curve to fully understand how to get the most out of this radio. Once you fully understand how to get the most out of the 991A, you will find that it is really a great radio.
- The Icom IC7300 has a much better pan adapter and draws about 800 ma on receive. If you don't need a, "One Radio Do All" ( a radio that does both HF/6 and the high bands) the IC7300 may be a better choice for your needs.
- Both the FT991A and the IC7300 are small compact take anywhere radios and are both very menu driven. You can only put a limited amount of knobs on a radio, hence the menus.
- I like the FT991A so much, I put it in the primary station and it has found a home, in my shack, until it gets warm enough to take to the park.
- If you are considering getting an FT991A, join us at the club's station and I'll be happy to review the club's FT991 with you. The first thing you should do is to download the manual and start reading. Remember, to use this radio at its full potential, you MUST read the manual.

Barry G. Kery, KU3X

## REFLECTIONS FROM THE PAST



**Bill / NC3P**

**Jeremiah / KB3KXR**  
**Field Day 2010**

**Jay / N3OW**

### **LEHIGH VALLEY KNIFE SHOW** **EASTON, PENNSYLVANIA**

**May 4 & 5, 2019 and September 28 & 29, 2019 Saturday: 9 AM to 5 PM; Sunday: 9 AM to 3 PM**

**Buy, sell, trade, and display knives:**

New, antique, shiny, rusty, factory, custom, hunting, fishing, military, trappers, carving, cooking, gardening, kitchen, Bali-songs, bush-craft, swords, bayonets, daggers, folding, Damascus, stainless steel, carbon steel, forged, alloy steel, pocket, Bowie's, tomahawks, razors, sharpeners, sheaths, and books!

Charles Chrin Community Center of Palmer Township

4100 Green Pond Road, Easton, PA 18045-2594

[Along US-22] Center telephone: 610-252-2098

Admission only \$7.00! Free parking. Bring your supervised children. No charge if under 13. Scouts in uniform admitted free. Show your family, children, and friends the beauty and fascination of quality knives!

**Website: [www.PAKnifeShow.com](http://www.PAKnifeShow.com)**

Meals and snacks for sale by caterer in the Community Center.

Many hotels and restaurants are nearby. Best Western Lehigh Valley Hotel has a package for the Lehigh Valley Knife Show. Call Donna Plunkett at 610-954-500

For information, call Bill Goodman, CPA, manager of Good Knives, L.L.C.;

**Cell: 484-241-6176; Home: 610-258-5063,**

**E-mail: [GoodKnives@GoodmanCPA.com](mailto:GoodKnives@GoodmanCPA.com) [K3ANS]**

### **CAROLE PERRY EDUCATOR OF THE YEAR AWARD**

Congratulations to Amateur Radio educator Carole Perry, WB2MGP, the first recipient of the newly established "Carole Perry Educator of the Year Award" presented at the 2019 Orlando HamCation. The award, to be given annually in Perry's name, recognizes outstanding dedication in educating and advancing today's youth about ham radio.

Perry is a director of the Quarter Century Wireless Association (QCWA), and chairs the QCWA Youth Activities Committee. As well, she is a fellow and director of the Radio Club of America (RCA) and chairs the RCA Youth Activities Committee and sits on the RCA Scholarship Committee.

Perry is a past Dayton Hamvention's Ham of the Year and a recipient of the ARRL Instructor of the Year Award. Perry has moderated the Dayton Youth Forum for 31 years.

[https://m.facebook.com/story.php?story\\_fbid=10156375581757408&id=200692124](https://m.facebook.com/story.php?story_fbid=10156375581757408&id=200692124)

73,

Ken Oelke, VE6AFO, President, Quarter Century Wireless Association, Inc.

## **CARE AND FEEDING OF YOUR PET HAM**

### **An educational excerpt for XYL's**

Alan KI7WO

Pet hams are so intelligent they often seem human, but they can be difficult to raise. Only someone with great patience should attempt it. In case you do, here is a guide to the basics.

**Living Area** -- A pet ham needs a private nest area, an entire room where it will not be disturbed. Your pet ham will spend many happy hours alone there with its treasures. -- boxes, wires, bits of metal, glass, paper, etc. that it will bring home whenever it ventures out.

You will want to encourage your pet ham to confine its activity to this room to prevent the entire house from being subjected to noise, clutter and the boring of holes in the walls.

**Feeding** -- A well-behaved pet ham will eat with the family occasionally, but it will feel more comfortable and secure taking its meals in the nest room. You must be sure your pet ham is well supplied with food and drink during the long periods it spends alone in there, even if it does not beg or whine.

**Obedience Training** -- A pet ham can be trained to perform simple tricks, the easiest and most common being "sit" and "speak". Do not be alarmed if it practices them for hours at a time in the nest room.

**Health Problems** -- The pet ham typically suffers lower back pain and minor throat irritations from too much sitting and speaking, but health maintenance costs tend to be minimal.

**Travel** -- Your ham pet will gladly travel with your family by car or even by air, if allowed to bring along certain familiar items from the nest room. Most pet hams enjoy trips to places where they can meet pet hams from other families.

**Breeding** -- If you plan to breed your pet ham, you should do so as soon as possible after you get it. As a pet ham matures, it becomes increasingly reluctant to engage in activities not associated with its nest room collection.

## **COURT RULES EXCESSIVE ANTENNA APPLICATION FEES VIOLATED REASONABLE ACCOMMODATION**

Long-pending Amateur Radio antenna litigation that ARRL helped to fund has finally borne fruit. The Supreme Court of the State of New York, Appellate Division: Second Judicial Department has ruled in the case of Myles Landstein, N2EHG, that the Town of LaGrange, New York, not only overstepped its state-granted authority by assessing excessive fees, but violated the limited federal preemption [PRB-1](#) in the process. PRB-1 requires municipalities and states to "reasonably" accommodate Amateur Radio antennas and to apply the "minimum practicable regulation" in handling Amateur Radio antenna applications. The ruling is slated to be published as a case decision. Landstein, who lives in the Bronx, had wanted to erect a 70-foot antenna support structure for a multioperator station in the Hamlet of Lagrangeville; the Town of LaGrange has a 35-foot height limit.

"This case, which goes back to 2013, was about applying PRB-1 to a situation in which a municipality attempted to thwart the installation and maintenance of ham radio antennas by imposing excessive permit application costs on the ham applicant," said communications attorney Chris Imlay, W3KD, who is familiar with the case. Imlay said the FCC has refused to clarify the cost-prohibition issue as it relates to PRB-1's "minimum practicable regulation" and reasonable accommodation provisions of PRB-1.

"The Town incurred more than \$17,000 in legal consulting fees in connection with [Landstein's] applications, and informed the petitioner that he was required to reimburse the Town for these fees before any determination would be made with respect to the applications," the court decision recounted. "The Town subsequently, as 'an accommodation to the petitioner,' reduced the amount...to...\$5,874, but also required the petitioner to maintain a minimum advance continuing escrow balance of at least \$1,000 to cover the Town's future consulting costs..."

"We hold that, because the Town did not limit the consulting fees charged to the petitioner to those necessary to the decision-making function of the town's Planning Board and Zoning Board of Appeals, the town exceeded its state-granted authority by requiring payment of the consulting fees and, moreover, violated a rule promulgated by the [FCC]," the court concluded.

Given the significant delay, Imlay said both he and Landstein had lost hope that the case would ever be resolved in Landstein's favor -- and in the favor of radio amateurs in New York, generally -- much less be a case that would "create favorable precedent for Amateur Radio."

"ARRL originally was drawn to this case, because New York is the only state that, due to a very old case decision, has held that Amateur Radio antennas are not necessarily a 'normal accessory use' to residential real property," Imlay explained. "Because the issue in the case dealt with both that issue and the issue of cost prohibitions in the permitting process relative to the cost of the antenna installation, we decided to fund the case." Landstein lost at trial, and an appeal was filed in about 2015, for which ARRL provided memoranda of law about the cost-prohibition issue. "The antenna and the support structure was to cost no more than \$1,000," Imlay said.

The court concluded that the town "may not use its land-use regulatory authority to construct 'hoop after hoop' for the petitioner to jump through in order to erect his radio antenna tower [and] cannot impose unreasonable expenses so as to create an insurmountable financial barrier to the pursuit of the project. In this context, not only must the consultant fees be reasonable..., but the underlying services must be necessarily related to those municipal regulatory functions which are not preempted by federal law."



## W3OK BID FORM

Make	Model	Your bid
Yaesu	FT 840	
Kenwood	TS 520	
Kenwood	430S	
Kenwood	440S	
Icom	706MKIIG with LG matched tuner	
	Two boxed 3-500Z power triode tubes	
MFJ	9040 – 40 meter QRP CW transceiver	

ALL RADIOS COME WITH EITHER A DESK OR HAND MIC, OR BOTH, AND REQUIRE A POWER SUPPLY.

(The radios are used but in working order. Because they are used, we offer no Guarantee.)

Bidder's  
Name:

\_\_\_\_\_

Call Sign:

\_\_\_\_\_

Phone:

\_\_\_\_\_

DATE OF  
BID:

\_\_\_\_\_

### **ALL BIDS MUST BE RECEIVED BY MARCH 31, 2019**

Procedure:

1. Items may be viewed at the Club Station on Wednesday evenings or Saturdays between 9 a.m.-12 p.m.
2. EACH ITEM you are bidding for should be submitted on a separate form
3. EACH ITEM you are bidding for must be submitted in a separate, sealed envelope.
4. Your bid(s) may be handed to Les Morrow or any Board member, or mailed to DLARC, Graystone Building, 14 Gracedale Avenue, Nazareth, PA 18064.
5. Winning bidders will be notified, and arrangements made for pick up once payment is received.
6. *In the event of a tie, or if no bid is at or above the set minimum bid, all parties will be so informed and asked to submit a new bid.*

**IF YOU HAVE ANY QUESTIONS, CONTACT THE W3OK STATION  
MANAGER, W3LES / LES MORROW, AT (484) 408-3993**

## F.Y.I.

The April Program will be “ **Audio Aspects of Amateur Radio**” – **Pete / K2PM**

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 2018 – 2019 OFFICERS

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Vice President – Bill Connelly / W3MJ ----- vicepresident@dlarc.org  
Secretary – JoAnn Schaffer / ND3JJ ----- secretary@dlarc.org  
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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 )

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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