



# NOARS Log



December 2018

**K8KRG**

Volume 54, Issue 12

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## Prez Sez

I hope this finds members re-energized for the upcoming year for all the club activities and for enjoying their family and friends. I feel NOARS is making progress, it is headed in the right direction. We need to continue, but it has a long way to go. If everyone cooperates, pitches in, and does their part NOARS will prosper and grow. I really believe that we have a great group of members in NOARS. It's an intelligent and knowledgeable group. We need to have more participation from all members. We need to actively recruit

new members. Participation has increased, but not enough, as just coming to meetings and calling in on nets is not helping the club grow or providing service to help other members in amateur radio and the community in general.

I want to compliment you all for the increased attendance at meetings. It's always good to see everyone attending, but many more need to make the effort to attend. We have tried to have

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## No December Meeting

## 2018 Membership Dues expire on December 31



Renewals are now being accepted. Although renewals prior to January 1, 2019, are preferred, there is a grace period extending until the Winter Hamfest. 2018 Memberships will remain current during that grace period. Dues are only \$15 (U.S.) per year for a

licensed amateur (full membership), \$7 (U.S.) non-licensed (associate member), \$4 (U.S.) family membership (licensed or not). Please pay with cash at meetings or send a check to the club address: Membership, 161 Herrmann Drive, Avon Lake, OH 44012.

## Sneak Peek at the January Program

Tim Duffy, K3LR, Chief Operating Officer of DX Engineering, will present a program entitled "Looking Ahead at Your Spring Antenna." Tim is an expert on antennas, having built some outstanding ones at his station in Western Pennsylvania.

## Nets

NOARS nets are Tuesday nights at 8 pm on 28.370 MHz, and Thursday nights at 8 pm. on 146.700 MHz. All licensed amateurs are welcome. Participation is encouraged and appreciated.

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relevant presentations. We need regular attendance at meetings and events from all members able to do so. This is because the Officers and a few others can't possibly run NOARS alone, nor would we want to. We want, need, and require the membership's help and input in this process.

We need to share our knowledge in all areas with other members and maybe the community, either as a group or in a "one on one" situation. The Club must help both new and older members grow and become responsible and skilled operators by furnishing all members the new knowledge and skills to properly use both the older technologies and equipment, and adapt to, and use the new and developing ones that are now emerging. Both will be needed to serve them well in their pursuit. The Elmer program needs to be formalized and greatly expanded. The experienced members, especially retired members, need to actively let others be aware of areas they can help newer members improve skills. This will help operating skills and we'll know each other better and build friendships, in addition.

I want members to think about public gatherings where we can show the non-Ham community what we do, such as Public Service in Emergencies and events, such as helping with bicycle rallies, Pumpkin Patrol, and other gatherings where radio communication is needed, what the need and assistance amateur radio can be in addition to the enjoyment. More members need to become active ARES members, taking the newly required FEMA coursework and practicing the required skills, so they can help in communication emergencies.

All of us should be planning and preparing for Field Day, now! I expect greater NOARS participation next year from our members. Not just dual members of both clubs. Don't let LCARA outdo us at Field Day. Even if you can only be there during the daytime, be there. No requirements to bring your equipment and setup. I believe I would trust any of you working my setup, as would anyone at Field Day. You can work the bands that are only usable during daylight hours or if you are able to come at night/early morning, even better, if only for an hour or two or more. You will be welcomed anytime. Sign up when it's time, you only need to show-up and make contacts on whatever HF Band you like to work. I am sure most members are more experienced than I am. I know I should be able to learn a great deal. Also, all those setting up their rigs need to start early and test their setups, so to eliminate panic and last-minute problems on Field Day. More preparation is required at the Pre-Field Day Meeting to make everything run smoothly on field day. But even with the problems, we scored better than last year, but could have done better with more participation and prior preparation.

We did one very important upgrade of our repeaters and keeping them up-to-date technologically. This should keep them functioning well, also saving money in the long term. By doing this, we show NOARS leadership among radio clubs.

I will keep working as vice-president to help Carl, W8KRF, and NOARS, but need to spend more effort on my personal growth by studying to obtain my General License and other areas. I hope next year will be an even better year for NOARS with Carl, W8KRF, as President.

## **Eyeball QSL Cards**

At the November NOARS meeting a member asked where to purchase Ham eyeball business card QSLs.

Eyeball QSL's are similar to business cards, with your call letters, address, phone, email information and anything else you wish to print for various reasons. Some examples are having a vendor contact you, registering for drawings at hamfests or county fairs, introducing

yourself to new acquaintances, or at club meetings.

There are many online sources, such as [www.vistaprint.com](http://www.vistaprint.com). Reportedly you can purchase 500 cards for \$10.00 including shipping. Many other sites can be found by Googling Eyeball QSL Cards.

# Member Highlight

## Virден “Clark” Beckman, N8PZD

### Early Life in an Electronics and Amateur Radio Household

Clark says electronic stuff was all over the house when he was born. Most of his father’s graduating class from East Tech went on to the beginning of the National Advisory Committee for Aeronautics (NACA). It was later incorporated into the National Aeronautics and Space Administration. Clark created a pressure-sensitive doormat and battery buzzer when he was 7 to combat his brothers’ borrowing his clothes. The following year his family had to move to a larger house when his baby sister was born. Most of his family is ham licensed, with the exception of an older brother and baby sister – but they put her on operating a bootleg AM radio station in her junior high school days.

### Various Modes

Clark has operated several modes; in his early ham radio years VHF-FM packet was the “new thing” and he learned how to connect to gateways and make contact with another continent with a C-64 computer on which he authored many programs. Within a year a friend, N8KJT, ignited UHF packet – Clark says the packet founders thought it would never work. Another friend, Ray, W8ADV, went right along when he was confined to an apartment without wire antennas. Clark says he needs to get back on CW more, and that it was a struggle.

### Current Ham Activity

Clark is not on-the-air like he used to be, but he enjoys the competitive spirit of Field Day. VHF contesting preceded field day – he worked nearly every county east

of the Rocky Mountains on 144 sideband or CW. Currently Clark is homebrewing a 920 Mhz module for a Yeasu FT736 which he reworked after a rescue from



eBay. He has a 222 module in addition to the original 144 and 440. Clark is amazed at the digital modes. There are so many things out there – he especially likes the ones that can be “duplicated from a 2-gallon trash can of components with wires, occasionally adding new parts not found no matter how many times the can is tipped over on the floor.”

### 2 Exciting Experiences in Ham Radio

Clark was learning a lot from weak FM signals and had been on a few fox-hunts. He was experimenting with tracking using an offshore-built 2meter beam set that uses a full-length loop to the radio. He had a map of the area in alignment with his rotator when a friend’s daughter was talking from the car. He began to track her and she mentioned going to mail something but was not sure how to get to the post office. A few “laps of conversation” later she mentioned an ice cream store and as he puts it, his “brain antennas perked up” because he grew up near where she was driving and he remembered a mailbox he used to meet schoolmates at, so he told her to look on the right side of the road for the mailbox. It was still there and he was a few miles away.

The other magic radio experience occurred during a June VHF contest nearing the end. Most of the stations he heard were dupes until he faintly heard am XE1 mobile, which was nearing the border from Texas. He tried calling a few times and the other station answered.

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They made a full exchange of grid squares. Clark was stationary on a hilltop using about 200 watts at 144.205 Mhz USB. The other station had a 50-watt mobile. Dan, KB8LKH, was with Clark during that contest.

### Work Life

Clark is currently a property manager for many rental properties, using his mechanical and electrical background to repair electronics on energy management with heating, cooling, hot water, even doorbells, since most of his places have the hardwire doorbells just like in the 50's and 60's. He has worked mechanical maintenance jobs at some factories but

ultimately returns to repairing electrical and electronics at rental properties. Clark says there is a limited number of people who can calibrate instrumentation and make mechanical repairs.

### Other Interests

Clark enjoys building stuff – electronic stuff – and rebuilding it, too. When he is away from the complaints of leaky faucets and stolen parking spaces in the city, he enjoys fishing inland lakes, limiting his boat size to a single axle trailer for easy backing in the ramp. He harvests nut trees and repairs farm equipment for friends who have acreage along the Pennsylvania border towns.



## Amateur Radio Operators Help with Elections

Ten NOARS/LCARA ham radio operators provided communications between various Lorain County voting collection points and the Lorain County Emergency Management Agency in Elyria on November 6, 2018.

Under the direction of LCEMA, Tim, KC8OS, coordinated the efforts for the evening. NOARS members participating were Matt, KD8VTX, and Tom, W8KYZ.

## What is the Time?

For the correct time 24/7 anyone can call the United States Naval Observatory Master Clock in Washington, D. C. Call 202-762-1401. Try it now and hear the time in

hours, minutes and seconds in military and universal time. Thank you, Tom, W8KYZ, for this timely information.

## Ohio Section Hamfests in December 2018

**12/01/2018 | FCARC WinterFest**

Location: Delta, OH

Type: ARRL Hamfest

Sponsor: Fulton County Amateur Radio Club

Website: <http://k8bxq.org/hamfest>

# December Birthdays - Happy birthday!

Ron, N8EGZ  
Bob, WA8THF  
Dan, W8AJF  
Gary, KD8VIQ  
Jeff, KB8ZUN  
Joe, W8SSE

Matt, KD8VTX  
Tom, W8KYZ  
Mark, K8WON

If your birthday doesn't appear here it's a good chance that it's not in our database. Please contact Carl, W8KRF so we can wish you a Happy Birthday!



## November 2018 NOARS Membership Meeting Attendance

Dan, K8AGW  
Dan, W8AJF  
Steve, WA0DVY  
Tom, N8FDY  
Elaine, KC8FOS

Russell, KE8GNX  
Joe, W8GWD  
Harold, K8HRD  
Dave, W8KFD  
Chet, K8KIZ

Joe, KE8KMB  
Carl, W8KRF  
Tom, W8KYZ  
John, KD8MUF  
Bob, W8NNC

Dave, KY8OSU  
Dave, WV8P  
Alan, KF8PM  
Mark, K8WON

## Heard on the Nets

AD8AA	KE8GKO	W8KYZ	N8UUC
W8AJF	KE8GNX	KD8MXE	KD8VIQ
K8AGW	KD2HCE	W8OOT	KD8WIE
KA8BPU	KD8KBO	KY8OSU	K2WJS
WD8CSP	K8KGX	WV8P	W1WLI
WA8ERA	KD8JAN	KF8PM	K8WON
N8FDY	KE8KMB	KF6POE	N8WS
KC8FOS	W8KRF	W8RET	W8XNV
KC8FQV	KD8KWO	W8SSE	KA8ZEP
K8GIL	W8KYS	WB8UPA	



## Thanks to Nov. Net Controls

Tom, W8KYZ  
Bob, W8RET  
Elaine, KC8FOS  
Carl, W8KRF  
Tim, NC8X

# December 2018

**Sun**

**Mon**

**Tue**

**Wed**

**Thu**

**Fri**

**Sat**

						<b>1</b> Holiday Banquet 6 PM
<b>2</b>	<b>3</b>	<b>4</b> 10M Net 8 PM	<b>5</b> BRTN 9:30 PM	<b>6</b> 2M Net 8 PM Elaine, KC8FOS	<b>7</b>	<b>8</b>
<b>9</b>	<b>10</b>	<b>11</b> 10M Net 8 PM	<b>12</b> BRTN 9:30 PM	<b>13</b> 2M Net 8 PM Tom, W8KYZ	<b>14</b>	<b>15</b>
<b>16</b> VE Testing 12:50 PM	<b>17</b>	<b>18</b> 10M Net 8 PM	<b>19</b> BRTN 9:30 PM	<b>20</b> 2M Net 8 PM Carl, W8KRF	<b>21</b> LCARA Meeting 7 PM	<b>22</b>
<b>23</b>	<b>24</b>	<b>25</b> 10M Net 8 PM	<b>26</b> BRTN 9:30 PM	<b>27</b> 2M Net 8 PM Bob, W8RET	<b>28</b>	<b>29</b>
<b>30</b>	<b>31</b>					



# Tech Savvy

By Joe Cebula, W8GWD

## ANTENNA BASICS

### Query No. 9

**Q.** Can the tedious process of trimming a homebrewed halfwave VHF dipole antenna be reduced?

**A.** The length of a dipole antenna can be calculated by the expression  $\text{length} = 468 / F$ , where length is in feet and F is in megahertz. The dipole is normally fabricated longer than the calculated length in order to permit trimming to compensate for environmental factors that can compromise antenna performance. The trimming process requires the antenna to be lowered, trimmed, raised and checked with an antenna analyzer. Trimming requires the length to cut in small increments so as to not overshoot the resonant frequency length; if this occurs, it can be corrected but this requires additional work. Trimming may require the process to be repeated numerous times until antenna resonance is achieved.

All is not lost! The trimming process can be eliminated by using the expression:

$$L2 = (F1 \times L1) / F2$$

Where F1 = initial resonate frequency (in MHz)

L1 = initial length (in feet)

F2 = desired frequency (in MHz)

L2 = required length (in feet)

T1 = amount to be cut off each dipole leg

T2 = amount to be added to each dipole leg

Use an antenna analyzer to determine F1 when the antenna is initially erected.

If L2 is less than L1, then  $T1 = (L1 - L2) / 2$

If L2 is greater than L1, then  $T2 = (L2 - L1) / 2$

If L2 contains a decimal value (such as 16.364 feet), multiply .364 by 12, which yields 4.368 inches and use 4.375 inches as a convenient value. Thus the length becomes 16 feet, 4.375 inches (16 feet, 4 3/8 inches).

This procedure will work for a halfwave antenna that does not use traps, loading coils, stubs, resistors, capacitors, a top hat or any other device. This procedure can also be employed for a quarter-wave vertical antenna providing the same restrictions apply. The resonate length for a vertical antenna is  $\text{length} = 234 / F$ , where length is in feet and F is in megahertz.

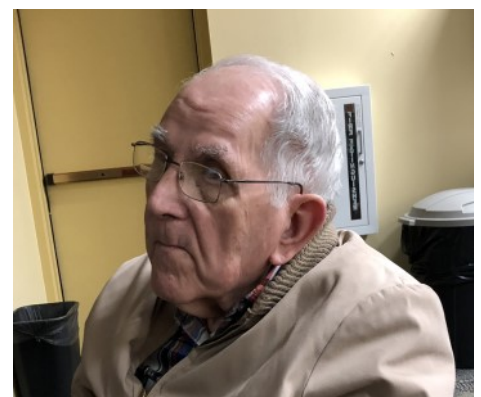
73

Joe, W8GWD



# November Membership Program Re-Cap

"How To Make Your Own Vacuum Tube From Scratch - Using \$25,000 Worth Of Lab Equipment - And A Swiss Army Knife." Chet, K8KIZ, presented a video is from a very creative French engineer at: <https://www.youtube.com/watch?v=EzyXMEpg4gw> It is just under 18 minutes long and worth every minute.





# November 19, 2018 Meeting Minutes

Submitted by Elaine Wilkinson, KC8FOS.

The meeting was called to order by President Dave, KY8OSU at 6:37 PM. Nineteen members were present.

The Pledge of Allegiance was recited, followed by roll call by call sign.

Dave, W8VP, made a motion to suspend reading minutes of the September 2018 meeting minutes, as published in the newsletter. Alan, KV8FM, seconded the motion. The motion passed.

**Treasurer's Report** – Treasurer Tom, W8KYZ, presented the current balance and October expenses, including Windstream, meeting refreshments, and some Christmas Banquet expenses. Dave, W8KRF, made a motion to accept the Treasurer's Report. Mark, K8WON, seconded the motion. The motion passed.

Tom, W8KYZ, brought up donating to Second Harvest and the Salvation Army, each for \$50.00. Discussion included a suggestion by Chet, K8KIZ, that the club make a donation to the library, as a courtesy. There was general agreement. Carl, W8KRF, made a motion that the club make three donations, \$50.00 to Second Harvest, \$50.00 to the Salvation Army, and \$50.00 to the library. The motion was seconded by Mark, K8WON. The motion passed.

**President's Report** – Dave, KY8OSU reported on the October Board Meeting, where the Holiday Banquet was discussed. Awards were discussed – who would get awards, and for what. Give-aways include a 2018 ARRL Handbook, maybe gift cards, and a fruit basket. All the donations suggested tonight are worth donating to. Chet, K8KIZ, asked a question: Will the club advise the press about what the club is doing as far as the donations are concerned? There was discussion of who would notify the press, most notably the Chronicle. Tom Miller, W1PDI was suggested since he has access to the press through his job.

## **Standing Committees Reports**

Parliamentary – Bob, W8RET was not in attendance. No report. A suggestion was made to send Bob a card as he had an operation last week. All agreed.

Club Property – Tom, W1PDI was not in attendance. No report.

Repeaters – Carl, W8KRF. While on vacation, the

amplifier went down, again. Carl went to the repeater site and found it was the same problem as last time, concerning the power pole connectors, which had melted. His opinion was there had been arcing inside the connectors. Carl made a cable to run directly between the amplifier to the power supply. He will install it the next time he is at the site. There was discussion of amperage. Carl logs in every day to the repeater and WiresX computer to make sure we have both.

Website – Carl, W8KRF. Everything is up to date.

Membership – Carl, W8KRF. We have 90 members, including 2 renewals tonight. Please, pay your dues by December 31. There is a grace period until the Winter Hamfest in March, but it would be better if they are paid before. The membership program automatically drops unpaid members off the roster if dues are unpaid.

Field Day – Al, N8CX was not in attendance, so there is no report. It was agreed that it's too early to begin planning. However, Tom, W8KYZ, suggested that Carl, W8KRF, start his role early next year to get bands and times assigned. Dave, KY8OSU, expanded on organizing bands and time slots. Operators need not bring a radio. They can come and use radios already set up. Dave also mentioned NVIS Antenna Day, which he said is the last Saturday in April. He got an idea for an antenna there. There is some participation, but more is needed from NOARS members. The event is at Indian Hollow in Grafton.

Social Committee – Elaine, KC8FOS, handed out a printed half-sheet of paper with social events information. The Holiday Banquet is on December 1, at 6 PM. There will be no regular December meeting since the Banquet replaces it. Don't show up at the library on the 3<sup>rd</sup> Monday, expecting the Membership Meeting. The January Monthly NOARS Lunch has been moved from January 1, which is New Year's Day to the second Tuesday, January 8. Same time, same place. The February Lunch will be back to the first Tuesday, February 5, 2019.

Programs – President Dave gave kudos to Chet, K8KIZ, for stepping in at the last minute and presenting a program for tonight's meeting. January Program will be Getting Ready for Your Spring Antenna, presented by

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Tim Duffy, K3LR, from DX Engineering.

Hamfest - First Sunday in March at Lorain County Community College. It works out very well. The last two times there had good crowds. Dan, W8AJF, pointed out the parking is better. Chet, K8KIZ, suggested a benefit for coming to the Hamfest. Perhaps we can offer an inexpensive nametag in a plastic case with a clip for attaching to clothing. Approximated buying the materials for \$1.25 each and selling for \$2.50. The tag could have a name and call sign, printed on both sides. It would be a benefit plus. One could bring a laptop and print the tags at the Hamfest. Dave, KY8OSU, said they will discuss it at the next Board Meeting. Alan, KF8PM brought up eyeball cards. They are small cards that one can give to people so they remember your call sign and other info. They are similar to business cards. Chet said there are online sources, such as Vista Print that can print up such things. They will print up 500 cards for \$10.00. They do a nice job and are economical. You can design your own on their site. Dave, W8KFJ, has such cards. He prints his himself.

Sunshine – One request for Clark, N8PZD and one for Bob, W8RET. Elaine, KC8FOS, gave an update on Clark and Carl, W8KRF, gave one on Dee Dee.

Nets – Bob, W8RET is not here. Tom, W8KYZ, said each NCS should send info to Bob about the nets they run. Someone is needed for the 2 meter net this coming Thursday, November 22, which is Thanksgiving. A volunteer was asked for. Elaine, KC8FOS volunteered.

VE – Tom, W8KYZ. There were three candidates for Technician licenses and one for an Extra Class License who tested yesterday, Sunday, November 18. All passed. Allen from North Royalton, who has visited the NOARS meetings, was one of the candidates. We hope to get new members from among successful candidates of VE testing.

#### Old Business

We still need someone to handle the 50/50 drawings at hamfests and meetings. Dan, W8AJF, offered, saying he can do it at meetings. His offer was accepted and it was agreed he will do a good job.

Newsletter – Having inadvertently skipped over Newsletter in the Standing Committee reports, Dave reverted to asking for a newsletter report. Tom, N8FDY, reminded members of the deadline to submit items, be it items to sell, opinion piece, tech article, or anything else. This month's deadline is November 24<sup>th</sup>.

#### New Business

No new business from the floor. Dave advised members that the Board will create a budget that the membership will vote on in January. Send items for consideration to Tom, W8KYZ or Dave, KY8OSU. The budget will be talked about at the December Board Meeting. Items in the budget will eliminate the need to bring up those needs in meetings or vote on them.

A motion was made to adjourn the meeting by Dan, W8AJF, seconded by Chet, K8KIZ. The motion passed. The meeting was adjourned at 7:11 PM.



**Free Stuff from Tom, W8KYZ, 440.930.9115**

Polk Audio Computer speakers, set of 2 speakers

## The DX Engineering Retail Showroom

More products on the shelves—get hands-on with the newest radio gear!



- Friendly service
- Expert tech advice from active Hams
- Open-box deals
- Free product brochures
- Easy return processing

### ***Come See Us!***

Retail Showroom is Open  
9 am to 5 pm, Monday-Saturday.

Even when the showroom is closed  
you can order items at the Cashier  
9 am to 9 pm, seven days a week.

### ***The DX Engineering Retail Showroom***

Inside the Summit Racing Retail Super Store  
1200 Southeast Ave., Tallmadge, Ohio



## **New Listing For Sale by Brian**

Antique oak table and chair for radio operating. \$100.00

Yamaha stereo receiver. \$100.00

Yamaha DVD PLAYER/NETFLIX. \$40.00

Grace Internet Receiver. \$100.00

Please call Brian at 440.420.1756.

## **For sale by Russ, KE8GNX**

2018 Baofeng 50X2, 50 WATT Base/Mobile, 2/440, like new. Used three months. Excellent condition. Paid \$169.

Will take \$100.00, firm.

Contact Russ, KE8GNX, at 440.610.6768.

# New Listing For Sale by Dave Germ, WV8P

Daiwa CNW 419 antenna tuner

Frequency coverage 1.8-30mhz, antenna tuner is in like-new condition. \$225.00

Contact Dave at [wv8p@roadrunner.com](mailto:wv8p@roadrunner.com)



# For Sale by Vic Woconish, N8TN, 440-365-6672

Yaesu FT-One radio \$1200.00

## Antennas

Tri band 10, 15, 20 meter with rotor

10 meter 4 element with rotor

15 meter 3 element with rotor

20 meter single element

15 meter single element

All on the ground



# For Sale by Tom, W8KYZ.

Larson KD4-270. Kulduckie HT Dual Band Helical Antenna. New. Full ¼ wave on UHF and as a loaded ¼ wave on 2 meters. 8 inches tall. 144-148/440/450MHz. Ham Radio Outlet price \$39.95. \$10.00, or best offer.

Uniden President HR 2600. 25 watt 10 meter transceiver, cw/lb/usb/am/fm. Includes mic., mounting bracket and power cord. \$100.

ICOM 2AT, thumb wheel freq. selection. 2 meter .15w and 1.5w. Needs battery. Includes manual, smart charger and hand strap. Make offer.

Two ICOM 24AT dual band HTs with UT-50 tone squelch unit (encoder/decoder). .5w and 3.5w. Each needs a battery and includes a manual and wall charger. Make offer.

Army TV-7/U tube tester. Circa 1962. Includes carrying case and tube chart. Excellent condition. \$300.

Contact Tom at 440.930.9115.

## For Sale by Tom, W8KYZ, 440.930.9115

### Books

- ARRL Amateur Radio Books – all new
- ON4UN Low Band DXing \$20.00
- Small Antennas for Small Spaces \$12.00
- Emergency Power for Radio Communications \$13.00
- DXing on the Edge (160 Meters) \$15.00
- AC6V - DX101x – HF and six meters DXing Reference Guide \$12.00
- Stealth Antennas \$13.00
- ARRL Wire Antenna Classics \$ 8.00

### Equipment

- Yaesu 7800 mobile separation kit (NEW) \$15.00
- Realistic Stereo Headphones - NOVA 20 \$ 5.00
- Olson Electronics S-677 – Air Speaker \$ 5.00
- MFJ-Digital DM55-1E. Voltmeter 130-300V (European Plug) New \$ 5.00

## Newsletter Submissions

Email submissions for the Log to [noarslog@noars.net](mailto:noarslog@noars.net).  
The deadline is seven days before the first of the month.

That gives us time to create and get the Log uploaded to the Website.

## Ad Submission Guidelines

Electronic ads may be emailed to [noarslog@noars.net](mailto:noarslog@noars.net).  
Printed ads may be sent to NOARS Log, 161 Herrmann Drive, Avon Lake, OH. 44012 The deadline for submissions is seven days before the first day of each month. All must include: asking price, sellers name, call sign and phone number. Only ads from current NOARS

members or paid advertisers will be accepted. If your items sell, please notify the Log editors at [noarslog@noars.net](mailto:noarslog@noars.net) so the ad can be removed. All ads will be removed (unless updated) after four months. NOARS reserves the right to refuse ads.

# NOARS Information

## Members of the Board of Directors

President: Dave, KY8OSU

Vice President: Clark, N8PZD

Secretary: Thomas, N8CWF

Treasurer: Tom, W8KYZ

Others: Carl, W8KRF; Tim, NC8X; Tom, N8FDY

## Others

Net Manager: Bob, W8RET

Club Trustee for K8KRG: Al, N8CX

Repeater: Carl, W8KRF, and Tim, NC8X

NOARS Log Editors: Tom, N8FDY, and Elaine, KC8FOS

## Membership

Membership is open to anyone interested in radio communication. Dues are: Full \$15, Associate (non-licensed) \$7, Family members of a full member are \$4 each. Membership forms are available at [www.noars.net](http://www.noars.net). Make checks payable to NOARS and mail them to: NOARS Membership Committee, 161 Herrmann Drive, Avon Lake, OH 44012.

## Meetings

Meetings are held at 6:30 p.m. on the third Monday of every month at the North Ridgeville Branch of the Lorain County Public Library, 35700 Bainbridge Rd, North Ridgeville, OH. The doors open at 6:00 PM for a social time with coffee and donuts.

Meetings are open to the public and all are welcome.

## Nets

NOARS nets are Tuesday nights at 8 pm on 28.370 MHz, and Thursday nights at 8 pm. on 146.700 MHz. All licensed amateurs are welcome.

## Committees

Parliamentary Committee: Bob, W8RET.

Repeater: Carl, W8KRF

Field Day: Al, N8CX

Hamfest: Dee, KA8VTS.

Sunshine: Tom, W8KYZ (temp)

Membership: Carl, W8KRF

Club Property Committee: Tom, W1PDI

Program Committee: Open

Social Committee: Elaine, KC8FOS; Dave, KY8OSU; Thomas, N8CWF; Russ, KE8GNX

Public Relations Committee:

Dave, KY8OSU, Elaine, KC8FOS, Thomas, N8CWF



## VE Testing

VE Testing is offered the third Sunday of every month.

2929 West River Road  
N. Elyria OH 44035,  
from 12:50-3 PM.

## Burning River Traffic Net

The Burning River Traffic Net uses the NOARS repeater (146.700 MHz) Wednesdays at 21:30.