



# NOARS Log



October 2018

## K8KRG

Volume 54, Issue 10

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## Prez Sez

Well, the month of Elections is upon us. And I wish and hope there are a number of NOARS members willing and able to run for the needed offices to lead the club. Also, members are needed to be committee chairs and members. We need the participation of ALL members to make this club function well and continue. So, don't bitch about how the club is run, if you weren't willing to run. I want to encourage all members to come to the Holiday Gathering at

Applebee's. I would like to see us fill all 30 spaces available. We have a great group and it is great to talk with others at social gathering such as this, the picnic, and The Golden Corral. We need more of these types of events.

Also, I want everyone to VOTE in The November Election and don't want to listen to any complaints about who got elected or what issues passed or failed, IF you didn't VOTE!!!!



## October 2018 Program

**Special guest speaker will be Scott Yonally, N8SY, ARRL's Ohio Section Manager.** He will update us about what is happening in Ohio. Come with any questions

you may have about ARRL in Ohio. I've heard tell that Scott is a good speaker, so it promises to be an interesting meeting.

### October Meeting

**Monday October 15, 2018**

The doors will open at 6:00 PM and the meeting will start at 6:30 PM. Coffee and donuts will be available. North Ridgeville Public Library, 35700 Bainbridge Rd., North Ridgeville, OH. 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. Participation is encouraged and appreciated.

# Message from the Vice President

I want to thank Chet, K8KIZ, for an interesting discussion regarding time as we know it, from our alarm clocks set for school or work to the time zone layouts made through the centuries. Imagine the freedom of the 1700s when on a cloudy day you could just relax and forget all about time.

Did you observe the sextant used by mariners way back when? They were probably used into World War I. I have used one and it can be very accurate, but admittedly the battery-operated clocks are very convenient, even though sailing with unseen currents will make arrival times vary.

Has anyone noticed the leaves beginning to change colors outside? Soon it will be very easy to get wire antennas up through tree limbs for operating a new band or making an existing antenna more powerful.

This change is not on the sundial. Hey Ya'all it's Fall, and that means pumpkin pies, digging out blankets and cozy sweaters, apple cider, defrosting the freezer to get all the goodies inside, wiper blades and blue window fluid, count your blessings. Smoke detector battery time too.

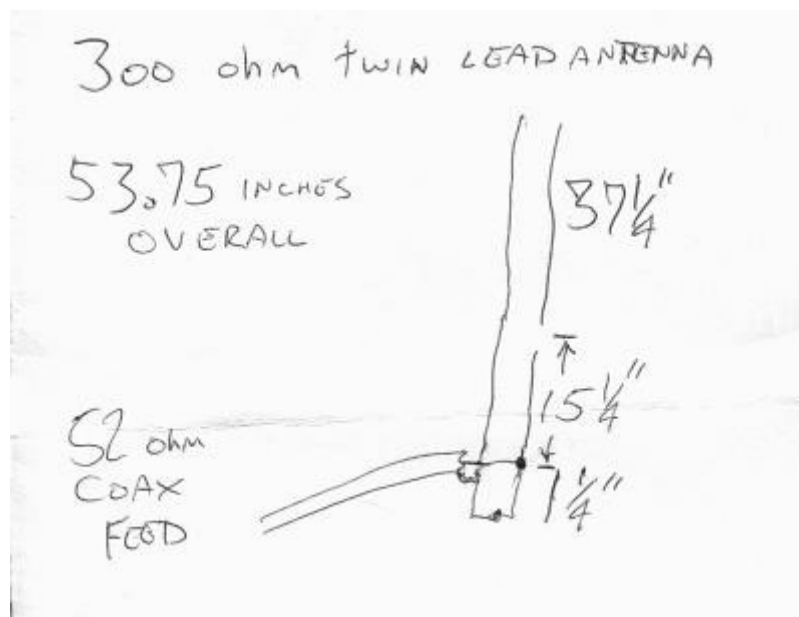
73... Clark N8PZD

## Some Notes on the 300 Ohm J-Pole Antenna for 2 Meters

By Clark, N8PZD

You will need 53.75 inches of twin-lead antenna wire. Strip carefully 1 inch from one end of the twin. Twist and solder together the wire. Now, this will become the bottom (follow the picture for specs). Now, about 1 ½ inches from the bottom is where you solder on the 52-ohm coax feedline. About 15 inches up, using side

cutters, you remove only one side ¼ inch of the wire. You could use nail clippers but anticipate getting a replacement set as the ability to cut fingernails goes very bad after this. You will want to use a hole punch or carefully drill a 1/8 hole at the top end for the good part of a bad shoelace for your support. Making a loop here allows endless ways to hold the antenna up.



# Ohio Section Hamfests in October 2018

## 10/06/2018 | Scioto Valley ARC Hamfest

Location: Chillicothe, OH

Type: ARRL Hamfest

Sponsor: Scioto Valley Amateur Radio Club

Website: <http://www.qsl.net/w8bap/SVARC.html>

## 10/13/2018 | Northwest Ohio ARC Hamfest

Location: Lima, OH

Type: ARRL Hamfest

Sponsor: Northwest Ohio ARC

Website: <http://nwoarc.com>

## 10/11/2018 | Microwave Update 2018 Convention

Location: Fairborn, OH

Type: ARRL Convention

Sponsor: Midwest VHF/UHF Society

Website: <http://www.microwaveupdate.org>

## 10/28/2018 | Massillon Hamfest

Location: Massillon, OH

Type: ARRL Hamfest

Sponsor: Massillon Amateur Radio Club

Website: <http://www.w8np.org>

## Ham Shack Photo Tour

October's tour is of Dan's, K8KGX, ham shack. Thanks, Dan!



If you would like your ham shack to be a part of the tour, send us a photo of your shack and we will post it in the Ham Shack Photo Tour. Feel free to send more than one. Send the photo(s) to [noarslog@noars.net](mailto:noarslog@noars.net).

# October Birthdays - Happy birthday!

Tom, N8CWF  
Bob, KE8KAA  
Amelia, K2KSU



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!

## September 2018 NOARS Membership Meeting Attendance

Dave, W1AFC	Russ, KE8GNX	Carl, W8KRF	Clark, N8PZD
Dan, W8AJF	Joe, W8GWD	Tom, W8KYZ	Bill, K2WJS
Dan, K8AGW	Harold, K8HRD	Bob, W8NNC	Tom, W8WLI
Steve, WA0DVY	Bob, W8IMO	Dave, KY8OSU	Mark, K8WON
Tom, N8FDY	Chet, K8KIZ	Tom, W1PDI	Leon, KB8WUA
Elaine, KC8FOS	Joe, KE8KMB	Dave, WV8P	Tim, NC8X

## Heard on the Nets

W1AFC	KE8GNX	KD8NGC	KD8VIQ
K8AGW	W8GWD	KD8OCW	KD8VTX
N8AHS	KD2HCE	W8OOT	K2WJS
KA8BPU	K8KBZ	KY8OSU	W8WLI
WD8CSP	K8KGX	WV8P	K8WON
WA8ERA	KE8KMB	W1PDI	N8WS
KA8ERS	W8KRF	N8PJD	NC8X
N8FDY	W8KYS	KF8PM	KA8ZER
KC8FOS	W8KYZ	W8RET	
KC8FQV	KD8MXE	WB8UPA	



## Thanks to Sep. Net Controls

Tom, W8KYZ  
Bob, W8RET  
Tim, NC8X  
Dave, KY8OSU  
Elaine, KC8FOS  
Carl, W8KRF

## October New Member

Joe, KE8KMB, lives in Avon Lake. Joe recently earned his Technician License. His confident net transmissions have already established his comfort with being on the air. Welcome, Joe!

# Upcoming Social Events

## October

### NOARS Monthly Meal

Tuesday, October 2 at noon at the Elyria Golden Corral.

## December

### Holiday Banquet



**Saturday, December 1 at 6:00 PM** at Applebee's Bar and Grill. 1540 West River Road in Elyria. Everyone can order from the menu, so you will get what you want, including adult beverages. It will be a good time, with a short program which will include a presentation of awards. Make your reservations soon by contacting Elaine, KC8FOS at [banquet\(at\)noars\(dot\)net](mailto:banquet@noars.net). They can accommodate 30, and you won't want to miss out.

## Nominating Committee Formed at September Membership Meeting

Tom Wilkinson, N8FDY, and Clark Beckman, N8PZD, responded to the call for volunteers to be on the Nominating Committee. Come to the October meeting

at which a slate of candidates for Officer positions will be announced.

## Check Out These Interesting Websites

N5DUX Ham Radio PDFs

This has several great ham/electronics resources. Take the time to scroll through and you'll find something that interests you. <http://www.n5dux.com/ham/files/pdf/index.php>

As hams we're interested in frequencies, and the below article falls under that category.

<https://attunedvibrations.com/528hz/>

Reading the whole article reveals some very interesting effects of sound.

Thanks, Chet!

## 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 Member Highlight

Tom, N8FDY

## Getting Started in Amateur Radio

When Tom was a young teen, his older cousin, Tony, K8ZR, was an amateur radio operator. After setting up his radio, Tony would let Tom receive RTTY on the accompanying teletype machine and left him alone to listen to Amateur Radio. That was heady stuff in the 60s, and it spurred Tom's interest in Amateur Radio. Tony also loaned Tom his Heathkit general coverage receiver, and Tom was hooked. It was many years later however, in 1984, that Tom earned a Technician license, because it took him a long time to learn Morse Code. He went on to receive an Advanced license in 1986, and an Extra license in 2017.

Tom's first contact had a little twist to it. He sat at his radio and called CQ for the first time. After a few transmissions without any response, he said, "Is anyone out there?" That got a response, and Tom was on his way.

## Love of Things Technical

Two years ago, Tom retired from Cuyahoga Community College where he was an IT Guru for many years. His affinity for, and understanding of, technical challenges served him well on the job, and it inspires his love for Amateur Radio. Tom enjoys Amateur Radio because he, "likes to accomplish technical things, and there's always some new technical thing to accomplish."

## Favorites

Tom's favorite rig is his current one, an IC-7610. After a



few months owning a Flex 6600M he sold it and with the proceeds bought the 7610 and an Ameritron amplifier as well as an MFJ Intellituner.

Tom's favorite modes of operation are SSB, AM, and FT8. Amateur Radio activities he participates in are serving as a NOARS Log Co-Editor and a Member of the NOARS Board of Directors. He also talks many times a week to fellow members of a 40 meter casual net called the Food Group. He can also be found chasing DX, sometimes by phone, sometimes using FT8. Local nets he can be heard on

are NOARS 10 and 2 meter nets, and the RADIOPS 2 meter net on Monday nights.

Tom received a certificate of recognition for participating in The U.S. Original 13 Colonies Special Event during Independence Week 2017. He successfully contacted all 13 Colony States.

## Other Things Going On

Reflecting his love of technical things, Tom has many irons in the fire, including setting up a mobile radio, building a lightening detector, repairing the pole that supports the Spider Beam antenna, building a multiple-radios-to-multiple-antennas switch interface, and refurbishing a Drake TR-4C and a Hammarlund HQ-140-X. He would like to learn more about digital signal processing and antennas.

Tom has other interests and hobbies, such as photography, videography, target shooting, and cooking. He also likes dogs. Good thing, since he's cared for six dogs over the last 40 years.

# October 2018

**Sun**

**Mon**

**Tue**

**Wed**

**Thu**

**Fri**

**Sat**

	<b>1</b>	<b>2</b> NOARS Monthly Meal 12 Noon 10M Net 8 PM	<b>3</b> BRTN 9:30 PM	<b>4</b> 2M Net 8 PM	<b>5</b>	<b>6</b>
<b>7</b>	<b>8</b>	<b>9</b> 10M Net 8 PM	<b>10</b> BRTN 9:30 PM	<b>11</b> 2M Net 8 PM	<b>12</b>	<b>13</b>
<b>14</b>	<b>15</b> NOARS Meeting 6:30 PM	<b>16</b> 10M Net 8 PM	<b>17</b> BRTN 9:30 PM	<b>18</b> 2M Net 8 PM	<b>19</b> LCARA Meeting 7 PM	<b>20</b>
<b>21</b> VE Testing 12:50 PM	<b>22</b>	<b>23</b> 10M Net 8 PM	<b>24</b> BRTN 9:30 PM	<b>25</b> 2M Net 8 PM	<b>26</b>	<b>27</b>
<b>28</b>	<b>29</b>	<b>30</b> 10M Net 8 PM	<b>31</b> BRTN 9:30 PM			

# Tech Savvy

By Joe Cebula, W8GWD

## ANTENNA BASICS

Query No. X

**Q.** Why is antenna impedance matching important?

**A.** To paraphrase an engineering statement, "impedance matching is necessary because maximum output power from a generator (transmitter) is transferred to the load (antenna) when both impedances are matched." One method to demonstrate this is to employ standing wave ratios (SWR) values, which are ratios determined by impedance mismatching, and to calculate the power losses associated with the mismatching. SWR is calculated by using the following expressions:

$$\text{SWR} = \frac{\text{load impedance}}{\text{output impedance}} \quad \text{or} \quad \frac{\text{output impedance}}{\text{load impedance}}$$

The impedance with the highest value appears in the numerator.

The percentage of power loss is calculated as:

$$\% \text{ loss} = \frac{(\text{SWR}-1)^2}{(\text{SWR}+1)^2} \times 100$$

Output Impedance Transmitter	Load Impedance Antenna		% Power Loss
50	20	2.5:1	18
50	25	2:1	11
50	50	1:1	0
50	100	2:1	11
50	150	3:1	25

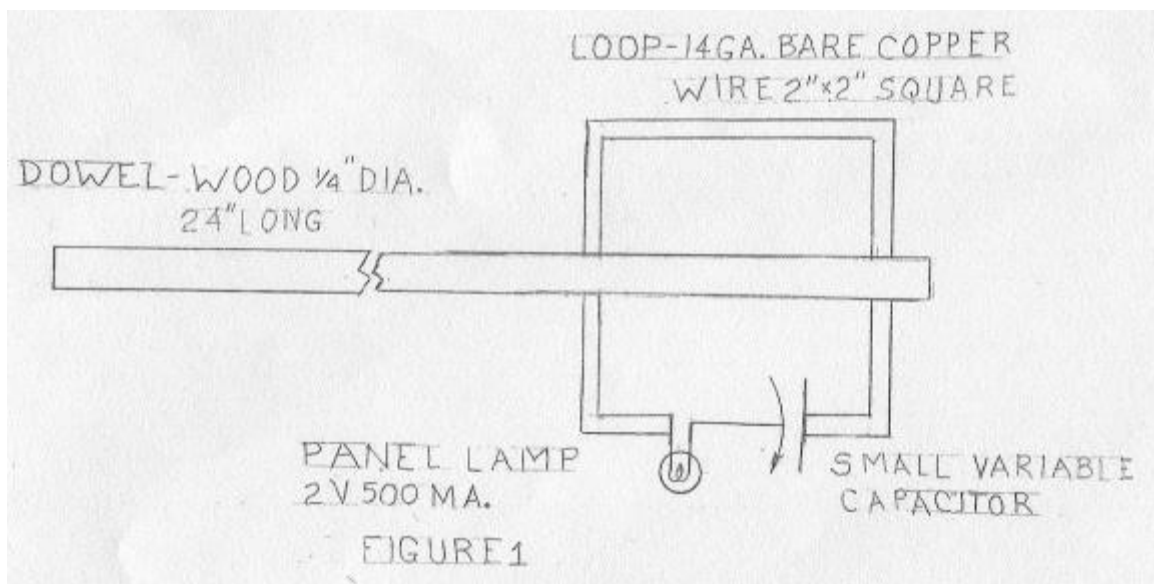
It can be seen by even the most casual observer that maximum power transfer occurs when the output and load impedances are matched.

73

Joe, W8GWD

## Drawing to Accompany September's Tech Savvy Query 7

This drawing is meant to accompany Joe, W8GWD's Tech Savvy article, Query 7. It is an RF Sniffer, as mentioned in the article. The sniffer was demonstrated at a NOARS meeting.





# September 17, 2018 Meeting Minutes

Submitted by Elaine Wilkinson, KC8FOS

The meeting was called to order at 6:35 PM by President Dave, KY8OSU. Twenty-four members and guests were in attendance.

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

Steve, WA0DVY, made a motion to suspend reading minutes of the June 2018 meeting minutes, as published in the newsletter. Tom, W8WLI, seconded the motion. The motion passed.

**Treasurer's Report** - Treasurer Tom, W8KYZ, reviewed the previous month's expenses. There was a question from the audience about the profit from Summer Hamfest. Discussion ensued concerning how to attract more people to our hamfests. Chet, K8KIZ, suggested we collect money for equipment a ham might like to have. He opined this would be more attractive than a general credit-type gift card. Clark, N8PZD, suggested a gift card from DX Engineering. That way the winner could get anything he or she wanted. Other suggestions were an HT (Tom, W8KYZ), an antenna tuner (Chet, K8KIZ), a Yaesu with C4FM, and a dual-band antenna (Dan, W8AJF). Dave, KY8OSU, said there will be further investigation and discussion at a Board Meeting. Tom, W8KYZ, reviewed NOARS income and bills, including insurance and Windstream. Mark, K8WON, made a motion to accept the Treasurer's Report. Dan, W8AJF, seconded the motion. The motion passed.

**President's Report** - Dave encouraged people to become involved in Amateur Radio Emergency Services (ARES). Related that FEMA courses are needed and described them. They are available online and can be taken at one's own pace.

**Parliamentary Committee** - As Bob, W8RET, was not present, there was no report.

**Club Property** - Tom Miller, W1PDI, reported he has received no new information about club property members hold. If they haven't already done so, club members should send information about club property they hold, including their name, the property they have, its description and serial number (if available).

**Repeaters** - Carl, W8KRF reported the repeaters, "are running."

Carl explained Dave, KY8OSU, donating his Yaesu FTM 100 to the club as part of the repeater set-up. It has C4FM and is located in Dave's house. Carl made a motion that the club pay Dave \$200 for the Yaesu. It was seconded by Tom, N8FDY. The motion passed. Discussion followed concerning the possibility of problems if club property is housed on personal property and something comes up, with the property itself or the property owner.

**Website** - Carl. The website has been updated for October. Let Carl know of any problems, such as broken links.

**Membership** - Carl. We have 89 members. New member Joe, KE8KMB, was in attendance at tonight's meeting.

**Social Committee** - Elaine, KC8FOS, advised members present of upcoming social events: Tue, October 2 monthly meal at Golden Corral in Elyria at noon; the Lorain County Sheriff's Department Communications Center tour (date to be determined); and the Holiday Party. The Holiday Party will be at Applebees in Elyria on Saturday, December 1 at 6 PM. Reservations are needed. Contact Elaine Wilkinson, KC8FOS, if you will attend. Email at [banquet@noars.net](mailto:banquet@noars.net), or [ewilkinson1951@gmail.com](mailto:ewilkinson1951@gmail.com), or call 216-337-4235. There is a limit of 30, so get your reservation in early.

**October Program** will be a visit from Scott Yonally, N8SY, ARRL Ohio Section 8 Manager.

**Sunshine** - Tom, W8KYZ, reported that Bob, W8RET, returned home from the hospital. Dee Dee is in the hospital.

**Nets** - No report.

**VE testing** - Tom, W8KYZ, reported on September testing results. One candidate tested, passed to General Class.

**Newsletter** - NOARS Log co-editor Tom, N8FDY, reminded members of the deadline for submissions of seven days before the end of the month. He invited letters to the editor. Tom mentioned Chet and Dave, and how they've sent items for inclusion. That is open to everyone.

*(Continued on page 10)*

(Continued from page 9)

**Old Business** - None.

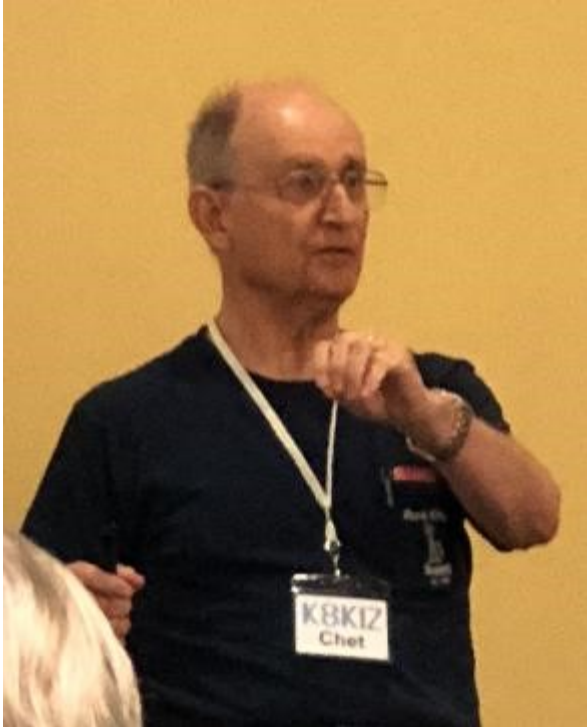
**New Business** - Dave announced the need of an Elections Committee. Dave asked for volunteers. Tom, N8FDY and Clark, N8PZD, volunteered. Tom, N8FDY, explained a document he created to help with finding candidates. It includes the names of all those qualified

to be an officer, according to the By-Laws, as well as directions for what to do.

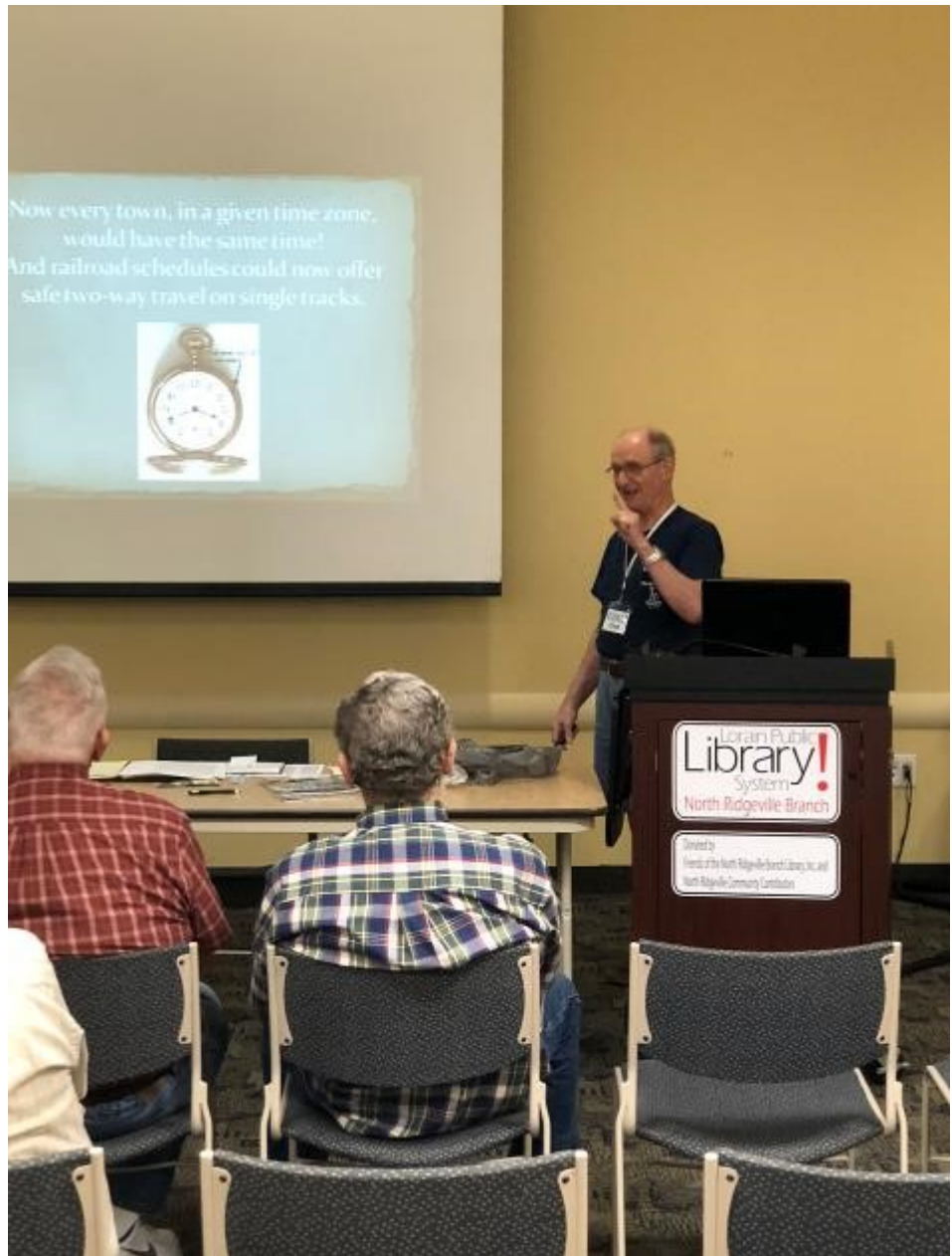
Dave reiterated the need to find someone to take over the monthly 50/50 drawing.

A motion was made to adjourn the meeting by Clark, N8PZD, seconded by Mark, W8RON. The motion passed. The meeting was adjourned at 7:25 PM.

## The September Program



The program at September's Membership Meeting, "History of the Sundial: The World's Oldest Scientific Instrument", presented by Chet, K8KIZ, was informative, interesting, and entertaining. Thanks, Chet!



## 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!***

9 am to 5 pm, Monday-Saturday

***The DX Engineering Retail Showroom***

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

*Open from 9 am to 9 pm, seven days a week*



## New Listing 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 Tom, W8KYZ.

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

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

Yaesu FT-One radio \$1200.00

15 meter 3 element with rotor

## Antennas

20 meter single element

Tri band 10, 15, 20 meter with rotor

15 meter single element

10 meter 4 element with rotor

All on the ground

## Tower for Sale

Rohn 25 tower. Three 10-foot sections, one 8-foot top section, and thrust bearing. Gently used. \$350.00

Cushcraft R-7000 vertical 10 – 40 meters antenna. \$250.00

Cash and must pick up. Contact: William, WD8OSJ, wd8osj@wd8osj.com, 440-522-4622 10 am – 5 pm



# Free Stuff from Tom, W8KYZ, 440.930.9115

Polk Audio Computer speakers, set of 2 speakers

# 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

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.