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## **Prez Sez**

I would like to recognize and thank Elaine KC8FOS, Ann KA8ZEP, and Tom N8FDY for planning and facilitating another successful picnic. Although the turnout was not impressive, those who did attend and brought delicious dishes and desserts had a great time socializing. The weather was perfect.

Also, we had another fun Fox Hunt on Saturday, August 13, at Bradley Woods Reservation, thanks to Elaine and Tom. Remembering that you do not have to be a licensed ham to participate since hunting consists of receiving a signal only, you might consider involving your children or grandchildren and perhaps spark an interest in ham radio for them. To keep NOARS viable, we

must get younger people interested in the hobby.

As we approach the end of another year, we need to start considering who you would like to take over the leadership positions within NOARS. Nominations will begin at our next membership meeting with the appointment of a Nominating Committee. I know many of you have jobs or busy schedules, but please consider becoming more involved and submit your name as a candidate for President or Vice President.

Finally, the NOARS Winter Hamfest is not very distant, so start preparing now. We will need volunteer help again. We

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The Membership Meeting will be Monday, September 19 at 7:00 PM.

At North Olmsted Library, 27403 Lorain Rd. Coffee and donuts at 6:30 PM.

#### What You Can do With a Technician Class License

Jeany, KC3QND and Elaine, KC8FOS will present satisfying amateur radio activities for those with a Tech License. If you know anyone who would be interested, please invite them to attend.

NOARS will send Zoom meeting information via email.

### **Nets**

NOARS nets are Tuesday nights at 8 PM on 28.370 MHz, Wednesday nights at 7 PM on 146.700 MHz, PL 110.9, and Thursday nights at 8 PM on 146.700 MHz, PL 110.9. All licensed amateurs are welcome. Participation is encouraged and appreciated.

#### Continued from Prez Sez on page 1

have been on a roll regarding our hamfests, so let's keep the momentum going. Remember our self-serve tables, put your "junk" in a box, and donate it because it may very well be a "treasure" for someone else.

That is all I have for this month. Until next month,

73,

Carl W8KRF

### Vice President's Message September 2022

We need you!

The Preamble of the NOARS Constitution says in part that the club was established to "promote the advancement of amateur radio as a hobby..." We need fresh ideas on how to do that, especially in this era of advancing technologies. NOARS elections are part of promoting fresh ideas. Carl, W8KRF has demonstrated that inherent in the position of President is the ability to listen to and promote new ideas. We need you if you've ever thought, "what we need to do is..." I know you're out there. I've had conversations with you. This year,

being an even-numbered year, a President and Vice President need to be elected. What else does the President do? They run meetings, enforce the club's rules, call mee tings of the Board of Directors, and appoint chairpersons of committees. The Vice President acts as President when the President is absent and is the chairperson of Field Day or the Social Committee, if not already chaired. These positions are not as time-consuming as they might seem. Please, accept a nomination and bring those fresh ideas with you.

73, Elaine, KC8FOS

## NOARS Helps MS150 2022 Cleveland Bike Fundraiser

#### Submitted by Tom, W8KYZ

August 6th and 7th brought the annual Cleveland MS150 Buckeye Breakaway Fundraiser for Multiple Sclerosis to northeast Ohio. The bike ride had over 500 participants, starting the first day in Berea and going west and north for 100 miles to Sawmill Creek resort, Huron. The second day was shorter at 75 miles, beginning in Huron and ending in Berea on Sunday. Over thirty-five ham radio operators from northeast Ohio participated in the two-day event, five of which were NOARS members. A "tip of the

hat" to N8AHS Fred, N8AUC Eric, KE8NQK Pete, W8KYZ Tom, and K8CVM Chuck for their participation.

Hams were stationed at eight different rest stops, twelve roved in their vehicles offering assistance, and six medical vehicles were available, if needed. Communications were established on 146.625 and 443.600. Ample water and snacks were donated by organizations for the rest stops. The weather was good and fun was had by all. Thanks to all the donors and volunteers who worked behind the scenes and made it a success.



## **September Social Events**

## NOARS September Lunch

**Tuesday, September 6.** Monthly Lunch at **noon at the Golden Corral**, 1519 West River Rd., Elyria. If you like to talk and eat tasty food, the Monthly Lunches are for you. All are welcome.

#### Fox Hunt

**Saturday, September 10** at **11 AM in the Bradley Woods Reservation**, 4538 Bradley Road in Westlake. No fox hunt gear is necessary, all are welcome. Lunch afterwards at a restaurant for those interested.

## **Next NOARS VE Test September 3**

The next NOARS VE amateur radio test session will be on Saturday, September 3 at the North Olmsted Library, 27403 Lorain Rd. in North Olmsted. Testing starts at 10 AM. The latest a candidate may start a test is

noon. Please, let anyone you know who wants to obtain a Tech license or license upgrade know about the session. Contact Elaine, KC8FOS at <a href="mailto:ewilkinson1951@gmail.com">ewilkinson1951@gmail.com</a> or 216-337-4235.

## **Cleveland Hamfest and Computer Show**

Sunday, September 25, Berea Fairgrounds Eastland Rd Entrance. 160 Eastland Rd, Berea, OH 44017. Gates open 8:00 AM until 12:00 PM. Admission is \$6.00. For more

information, including forums (FT8, AllStar) go to the Website at <a href="https://www.hac.org">https://www.hac.org</a>.

### **New Member**

Welcome to Lee M. Shrader, AC8R of Norwalk OH. Lee holds an Extra Class License

## Looking Ahead to the Holiday Banquet

Snow will fly before we know it, and with it comes the Holiday Banquet. It will be on Saturday, December 3 at 6:00 PM at Fuji Grill Buffet, 1930 Snow Rd, Parma, OH 44134. We have a private room reserved. There will be

more information closer to the event. We wanted you to know so you could set aside this time during a busy part of the year and join in the fun.

## **September Birthdays**

Fred Heyse, N8AHS
William Davis, KD8BBI
Steve Kaplan, WA0DVY
Tom Wilkinson, N8FDY
Chet Roberts, K8KIZ
John Locko, KD8MUF
Jim Grimes, KD8OCW
Steve Sebesta, K8NIA
Clark Beckman, N8PZD
Richard Koharik, K8RWK
John Malloy, KA8VTV

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!





## **Heard on the Nets in August**

Dan, K8AGW	John, W2JLS	Andrew, AB8MO	Nick, KD8SLG
Fred, N8AHS	Bryan, W8JMI	Dave, KD8MXE	Mark, KE8TCE
Dan, W8AJF	Carl, W8KRF	Pete, KE8NQK	Art, W8UTC
Chuck, K8CVM	Tom, W8KYZ	Bill, KB8NSZ	Tom, W8WLI
Ed, KI8D	Chuck, KB8LJ	Bill, N4NZZ	Bill, K2WJS
Tom, N8FDY	John, W8LYO	Ron, N8OD	Bill, N8WS
Elaine, KC8FOS	Earl, W8LYY	Dennis, KE8OQA	John, NU8Y
Mark, KC8FQV	N8PZD, Clark	Alan, KF8PM	Ann, KA8ZEP
Chris, KD2HCE	Chris, KE8MMY	Jeany, KC3QND	

# September, 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				<b>1</b> 2M Net 8 PM - NCS Jeany, KC3QND	2	<b>3</b> VE Session 10AM. North Olmsted Library
4	5	6 NOARS Lunch at Noon 10M Net 8 PM - NCS Elaine, KC8FOS	<b>7</b> Food Group 7PM 2M - NCS Elaine, KC8FOS	8 2M Net 8 PM - NCS NCS Tom, W8KYZ	9	<b>10</b> Fox Hunt 11:00 AM Bradley Woods
11	12	13 10M Net 8 PM - NCS Tom, W8KYZ	14 Food Group 7PM 2M - NCS Jeany, KC3QND	15 2M Net 8 PM - NCS Carl, W8KRF	16	17
18	19 NOARS Meeting 7:00 PM	20 10M Net 8 PM - NCS John, W8LYO	<b>21</b> Food Group 7PM 2M - NCS Elaine, KC8FOS	22 2M Net 8 PM - NCS Elaine, KC8FOS	23	24
25 Cleveland Hamfest. Cuyahoga Cnty Fairgrounds, Berea 8AM- Noon	26	<b>27</b> 10M Net 8 PM - NCS Dan, W8AJF	28 Food Group 7PM 2M - NCS Jeany, KC3QND	29 2M Net 8 PM NCS Jeany, KC3QND	30	

## **Ad Submission Guidelines**

Electronic ads may be emailed to <u>noarslog@noars.net</u>. Printed ads may be sent to NOARS Log, 161 Herrmann Drive, Avon Lake, OH. 44Ø12. 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 <a href="mailto:noarslog@noars.net">noarslog@noars.net</a> so the ad can be removed. All ads will be removed (unless updated) after four months. NOARS reserves the right to refuse any ads.

### **Contest Corner**



## **September Contests**

	Contest Name	Bands	Mode	Time UTC	Website
10	Ohio St Parks on the Air	305-28	Ph	1400-2200	https://ospota.org/
10-12	ARRL Sept VHF Contest	50 and up	CW, Ph, Dig	1800-0300	https://www.arrl.org/september-vhf
17-18	ARRL EME Contest	2.3 Ghz and up	CW, Ph, Dig	0000-2359	https://www.arrl.org/eme-contest
17-17	Wisconsin Parks on the Air	305-28, 50, 144	CW, Ph	1600-2300	http://wipota.com/
24-25	Maine QSO Party	1.8-28	CW, Ph	1200-1200	http://www.ws1sm.com/MEQP.html

These are but a few. Find many more contests in each month's QST Magazine, CQ Magazine, and at WA7BNM Contest Calendar, <a href="https://www.contestcalendar.com">https://www.contestcalendar.com</a>.

## Young Amateurs Radio Club to Host Inaugural Special Event September 1-15

#### Borrowed and edited from the Ohio Section Newsletter of August 22, 2022

The Young Amateurs Radio Club (YARC) will host their first annual youth-organized special event from September 1 - 15, 2022. Using their call sign, WY4RC, the event is known as "Worked All YARC Zones (WAYZ)." Operators will be activating WY4RC stations from all 10 US call zones. Different awards are available for youth operators who activate a station, and for those

who contact at least six WY4RC stations. YARC, founded in 2017, is an international amateur radio club with a focus on promoting adoption and innovation in amateur radio among young people. In 2018 the club was officially recognized by the FCC as an official amateur radio club under the call sign WY4RC. Any young amateur or club interested in operating during the event can find the rules and additional information at the Young Amateurs Radio Club website. <a href="https://yarc.world/index.php/events/2022/yarc-worked-all-yarc-zones-wayz-contest-event/">https://yarc.world/index.php/events/2022/yarc-worked-all-yarc-zones-wayz-contest-event/</a>

## **Annual Picnic**

Fourteen people attended the NOARS 2022 Annual Picnic. While the burgers and brats were tasty, the delicious side dishes and desserts brought by the revelers made the meal. Thank you all for that. The good food and camaraderie made it a very enjoyable experience.

Thank you to Carl, W8KRF for cooking and to Ann, KA8ZEP for helping buy the burgers, brats, and supplies. Clean-up was a snap since everyone helped. Thanks, everyone!











## **August Fox Hunt**

Eleven of us gathered for the Fox Hunt in Bradley Woods Reservation on August 13 at 11:00 AM. Don't forget, you are always welcome to attend, whether you hunt or not. There is no climbing up and down steep ridges, nor navigating swamps and streams. The hunt is an easy walk

on a path through the woods. Afterwards some of us went to Hop Brothers Brewing. The next Fox Hunt is Saturday, September 10. Same time, same place. Who knows where we might eat lunch afterwards? Come and find out!



## What Does a Black Hole Sound Like?

Watch this NBC News Now YouTube episode. It's amazing and informative.

https://www.youtube.com/watch?v=3stQ-M4zd7E

Thank you to Chet, K8KIZ for sending the initial email.



## Don't Forget the Nest Fox Hunt on September 10 at 11 AM

## September Member Highlight John Dolinar, W8LYO

#### Path to Ham Radio

John's father was an amateur radio operator. He passed his license exam and received his callsign, W8LYO, when he was 17 in 1934. He strictly did CW and John says, "I grew up listening to dits and dahs coming from below my bedroom as I slept. I remember seeing all the equipment and antennas and going to check tubes for him at the drug store on my

bike. Although he tried to get me interested sooner, I could not learn morse code. He did get me interested in scanners and I have had that as a hobby for as long as I can remember. When the pandemic hit, I had more time to look into obtaining an amateur license and with no code necessary, it was time." That was two years ago, and John took off.

#### **Enjoyment of Ham Radio**

John relates that, "besides talking with and meeting new and interesting people, there is always something different or new to learn. No matter what, you are always trying to improve your ability to transmit or receive signals. There is always something to troubleshoot or learn and many avenues to explore to keep your interest with the hobby."

#### **Modes of Operation John Likes Best**

John likes HF, which seems to be the busiest when he has time to get on the air. He will do SSB if the bands are good. He likes hunting POTA stations and DX. Contests are always fun. If the bands are not good, John will do digital modes, like FT8.

#### **Activities**

John is an active participant in NOARS and is currently the Secretary of the club. He tries to participate in all the activities the club has to offer. He is a Volunteer Examiner and participates in NOARS testing sessions. He says, "It is good to see people still interested in the hobby and to see someone obtain their license."



#### Nets

John is Net Control for the NOARS 10-meter net on 28.370 MHz on the third Tuesday of every month at 8pm. "I try and participate in other nets on 2 meters and 70 centimeters at least once a month"

#### **Awards**

From QRZ: DX 100, Master of

Europe, Continents of the World, United States Counties, World Friendship, Master of South America, Master of North America, USA 50, Grid 2, "which shows what you can do with 100 watts and a wire in your attic."

#### **Projects**

John says he is looking at getting a go bag with mobile rig and antenna. "Being HOA restricted with my antenna setup, I think it would be beneficial to have something I could set up in the backyard or take out to do a POTA activation or Field Day. Also, when I have time to do contesting this might help with making more contacts. I am always working on something technology related. There is always a home automation or home security project to keep me busy."

#### **Favorite Rigs**

John is very happy with his HF rig, a Yaesu FT-991a.

#### **Most Exciting Experience as a Ham**

John says, "Months after getting my HF rig set up, I was able to make a contact with KD9OLN on 20 meters. This was while he was parachuting out of a plane floating to the ground. I think this is the most unique QSO I have or could make. My first HF SSB contact was with W9IMS, a special event for the Indianapolis Motor Speedway."

Continued on page 10

#### Continued from John Dolinar, W8LYO on page 9

#### Other Hobbies

John is still active listening to all his scanners. As John says, "If technology is a hobby, I try to play with any emerging technologies and really understand and use them. I also enjoy music; I spent many years playing guitar in rock/metal bands touring in clubs in the area and beyond."

#### What John Would Like to Learn More About

Everything. Seriously, John would like to learn more about everything. As he puts it, "if I see it or hear about it, I want to learn all about it. At some point I would like to learn Morse code and have a few CW QSO's. I really need to spend more time to learn antenna design better and see if I can do better at my QTH."

#### **Wants NOARS Members to Know**

John says, "I have a wonderful wife, Janeen, who supports my pursuit of the hobby. She actually found on the internet, purchased, and framed, a QSL card that my

father had sent to ZF2AI in 1977. I didn't realize selling old QSL cards was a thing. I wish I had the cabinets full of cards my dad received. We also like to travel, as well as spending time with our nieces and two fur baby cats."

#### **Profession**

John has worked in the Information technology sector for 36 years. He is currently the Executive Director of Application Services at Cuyahoga Community College. He says he has done "every job in IT from programming, network and infrastructure, applications and information security. I have a Master's in Information Security and Assurance. Understanding RF and having used SDRs as scanners came in handy doing assessments and replay attacks of wireless technologies and devices."

#### **Fun Fact From John**

"Tom, N8FDY, was my first boss in the field. I was a programmer, reverse engineering Hazeltine terminals, developing a C# and assembler program so the terminals could be replaced with IBM dual floppy PCs."

## Comic sent by Chet, K8KIZ



## Dan, W8AJF's POTA Goal Realized

Dan, W8AJF had chased POTA contacts for years and recently developed a goal of activating a park. Dan took advantage of a recent trip to North Carolina to activate a park and be on the other end of contacts. He ended up activating four parks: Jordan Lake Game Land, Harris Game Land, Chatham Game Land, and Jordan Lake Educational State Forest. He ran forty-five watts from an IC-7300 into a hamstick on the car. "The antenna is almost thirty years old, but its performance was fantastic." He ran the radio directly to the car's battery with clips.

He brought a jumpstart box just in case but didn't need it.

Dan ultimately made 161 contacts on FT-8, including DX from Spain and Italy. Uploading logs was a breeze. He says one can upload logs directly to the Website, and processing is almost immediate. "You know right away if the logs passed protocol. Very nice!"

All in all, Dan had a great time, saying, "Wow, that was fun for me!"



Jordan Lake Game Land



Harris Game Land



Chatham Game Land





Jordan Lake Educational State Forest

## Hedy Lamarr and Spread Spectrum Communications



## Submitted by Chet, K8KIZ, borrowed from Cinema Shorthand Society

On August 11, 1942, actress Hedy Lamarr and composer George Antheil receive a patent for a frequency-hopping spread spectrum communication system that later became the basis for modern technologies in wireless telephones and Wi-Fi.

Although Lamarr had no formal training and was primarily self-taught, she worked in her spare time on various hobbies and inventions, which included an improved traffic stoplight and a tablet that would dissolve in water to create a carbonated drink. The beverage was unsuccessful; Lamarr herself said it tasted like Alka-Seltzer.

Among the few who knew of Lamarr's inclination to inventiveness was aviation tycoon Howard Hughes. Lamarr discussed her relationship with Hughes during an interview, saying that while they dated he actively supported her "tinkering" hobbies. He put his team of science engineers at her disposal, saying they would do or make anything she asked for. On one occasion, Hughes was trying to modify his aircraft designs to make planes fly faster. He asked her for ideas; "He relied on me," she said. Lamarr began studying the aerodynamics of birds and the shapes of fishes, afterward presenting him with sketched ideas to make wings on planes less square and more efficient. "[I] showed it to Howard Hughes and he said, 'You're a genius."

During World War II, Lamarr learned that radiocontrolled torpedoes, which could be important in the naval war, could easily be jammed, thereby causing the torpedo to go off course. With the knowledge she had gained about torpedoes from her first husband, Friedrich Mandl, an Austrian military arms merchant and munitions manufacturer, she came up with the idea of somehow creating a frequency-hopping signal that could not be tracked or jammed. She contacted her friend, composer and pianist Antheil, to help her develop a device for doing that, and he succeeded by synchronizing a miniaturized player-piano mechanism with radio signals. They drafted designs for the frequency-hopping system which they patented. Antheil recalled, "We began talking about the war, which, in the late summer of 1940, was looking most extremely black. Hedy said that she did not feel very comfortable, sitting there in Hollywood and making lots of money when things were in such a state. She said that she knew a good deal about munitions and various secret weapons . . . and that she was thinking seriously of quitting M.G.M. and going to Washington, D.C., to offer her services to the newly established Inventors' Council."

Their invention was granted a patent on August 11, 1942 (filed using her married name Hedy Kiesler Markey). However, it was technologically difficult to implement, and at that time the U.S. Navy was not receptive to considering inventions coming from outside the military. Only in 1962 (at the time of the Cuban missile crisis) did an updated version of their design appear on Navy ships.

## VISIT OUR HAM RADIO SHOWROOM TODAY!

Step inside our Showroom Monday through Saturday, 9 am to 5 pm. Or place your orders and pick them up at the curb. Here's how:

- Pick-up available from 9 am 8 pm, Monday-Saturday and 9 am – 7 pm, Sunday.
- Place your order at DXEngineering.com or by calling 1-800-777-0703. All orders must be prepaid.
- Pull into a designated curbside pickup space in front of the Summit Racing Retail Store. You will need valid ID, your order number, and the physical credit card you used or Pay Pal receipt.
- Only the person who purchased the item may pick up the order.

We look forward to seeing you!

**DXEngineering@DXEngineering.com The DX Engineering Retail Showroom**1200 Southeast Ave. • Tallmadge, Ohio





## DX Engineering Sale Day

October 1st—9 am to Noon

- Lots of Discounted Open Box Gear
- See the Newly Expanded Showroom
- Meet the DX Engineering Sales Team

More details to come at DXEngineering.com

## For Sale by Ken, W4CCZ

Yaesu FTdx101d. \$2750.00

Excellent condition. No scratches. NonSmoking. 9 Months Old.

Contact Ken at 352-421-0941.

## For Sale by Sandy, W8KYS

Tailtwister antenna rotor with controller. Reconditioned. \$250.00

Ultimate Transmatch 2 kw antenna tuner. 160 – 10 meters. Was 175, now \$150

EICO Signal Tracer, model 147A. Manual. \$50.00

Contact Sandy, W8KYS. 440-647-2255

## For Sale by Earl, W8LYY

Heathkit BE-4 battery eliminator 10/5 amp. As is \$10.

Heathkit power meter HM-102 with manual \$25.

Heathkit active antenna HD-1424 with manual \$25.

Tektronix type 453 oscilloscope dual trace \$75

Contact Earl at fivestringthree@gmail.com

## Free Manuals for the Following:

Alinco.DR 60ST 2/440 transceiver

E F Johnson Viking Challenger Transmitter

Icom IC 746PRO SM 8. Mic

National NC 125 Receiver

Kenwood TR 7400 Transceiver

Kenwood IF-10 A/B/C Interface

Kenwood VFO 820/520 Manual Switch

Regency HR 2B 2 meter Transmitter

Heathkit DX 40 Transmitter

Heathkit GD 1246 Recharge Light

Heathkit HW 29A 6 meter Transceiver

Heathkit HW 2021 2 meter HT

Heathkit ID 1590 Wind Speed Indicator

Heathkit HD 1416 code oscillator

Heathkit HD 1410 Keyer

Heathkit WA P2 Preamplifier

Heathkit AC 11 Multiplex Adapter

Heathkit AA 1100 Stereo Amplifier

Heathkit PK 1 Universal Scope Probe

Heathkit 337C Demodulator Probe

Tektronix P6006 Probe

SAMS Tube Substitution Handbook. Volumes 1 and 8

RCA Tube Reference Book. 1969 edition

Midland WR 100 Weather Alert Radio

Contact Tom, 440-320-5523 or tporter161@oh.rr.com

## CW OP Lapel Pins for Sale Created by Chet, K8KIZ

They have been sent to multiple states, Denmark, United

Kingdom, Germany, Australia

CW OP Pins are \$5.75 each. US S/H is \$5.06 -

International S/H\* is \$15.50

(\*The US Postal Service ships to most countries around the world.) NOTE: This pricing includes shipping charges for up to 10 pins per envelope.

For Example:

1 pin + US 1st Class S/H

.....\$10.81

2 pins + US 1st Class S/H ...... \$16.56

3 pins + US 1st Class S/H ..... \$22.31

1 pin + International S/H ...... \$21.25

2 pins + International S/H ...... \$27.00

3 pins + International S/H ...... \$32.75

NOTE: This pricing includes shipping for up to 10 pins per envelope.



Envelopes are 5"x7" tan heavy paper with inside bubble padding. Please send your order and full correct address with ZIP code to: CWpins05@gmail.com
Send your appropriate payment to: www.paypal.me/ANCRSundials
Please advise me if you are using a

different name with your payment (Example: a company name) so I can credit your email order.

Thank you! 73, Chet K8KIZ



How would you like a CW OP label for a coffee mug, car window, or whatever? Get 3 of these 3" durable, waterproof and dishwasher safe labels by sending \$5 WITH a self-addressed AND self-stamped envelope to: Chet Roberts K8KIZ, 173 Fredericksburg Drive, Avon Lake, OH 44012. 73!



## **NOARS** Information

#### Members of the Board of Directors

President: Carl, W8KRF

Vice President: Elaine, KC8FOS

Secretary: John, W8LYO Treasurer: Tom, W8KYZ

Others: Bob, W8NNC, Tom, N8FDY

#### **Others**

Net Manager: Jeany, KC3QND Club Trustee for K8KRG: Al, N8CX

NOARS Log Editors: Tom, N8FDY; Elaine, KC8FOS Volunteer Examiners: Elaine, KC8FOS; Glenn, AF8C;

Ron, N8EGZ; Sallie, AB8GI; John, KC8KI; Tom, W8KYZ; John, W8LYO; Dave, KD8MXE; Steve,

K8NIA; Bob, W8OOT; Bill, K2WJS;

#### **Committees**

Parliamentary Committee: Tom, N8FDY Repeaters: Carl, W8KRF; John, W8LYO;

Pete, KE8QNK; Bryan N8OOF

Field Day: Al, N8CX

Hamfest:

Sunshine: Tom, W8KYZ Membership: Carl, W8KRF

Club Property Committee: Tom, W1PD Programs Committee: Elaine, KC8FOS;

Bob, W8NNC; Pete, KE8NQK;

Jeany KC3QND

Social Committee: Elaine, KC8FOS;

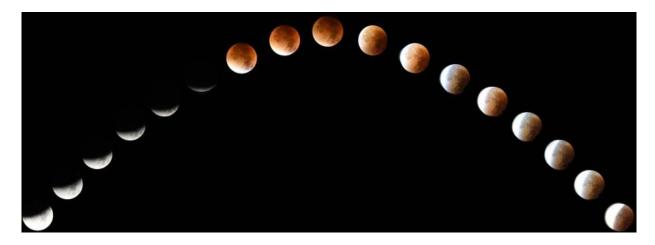
Ann, KA8ZEP

**Public Relations Committee:** 

Chris, KE8MMY, Tom, W1PD

#### **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. Make checks payable to NOARS and mail them to: NOARS Membership Committee, 161 Herrmann Drive, Avon Lake, OH 44Ø12.



#### **Meetings**

**NOARS** August meeting will be held at the North Olmsted Library, 27403 Lorain Rd. at 7 PM. Coffee and donuts at 6:30. All are welcome.

#### Nets

NOARS nets are Tuesday nights at 8 pm on 28.370 MHz, Wednesday nights at 7 pm on 146.700 MHz, and North Olmsted. Contact Thursday nights at 8 pm. on amateurs are welcome

#### **VE Testing**

Saturday, September 3 at 10 AM at North Olmsted Library 27403 Lorain Rd. Elaine, KC8FOS at 146.700 MHz. All licensed ewilkinson1961@gmail.com for more info Walk-ins welcome.

#### **Net Control Stations**

Carl, W8KRF Tom, W8KYZ Dan, W8AJF Jeany KC3QND Elaine, KC8FOS John, W8LYO