



# NOARS Log



May 2021

## K8KRG

Volume 57, Issue 5

### Table of Contents

- President's Message 1
- Vice President's Message 2
- News 2
- Birthdays, Heard on the Nets 3
- Calendar of Events 4
- Contest Corner 5
- Member Highlight: K1TRB 6
- First Fox Hunt of 2021 8
- Membership Meeting Minutes 10
- For Sale 11
- NOARS Information 16

## Prez Sez

I missed the Fox Hunt today due to attending the Mass and Funeral for Jamie's dad. It has been a rough four months for the family. Dad was in ICU for over 3 months; it was almost four and a half months that he was dealing with his severe health issues. He was a strong soldier in his battle with the complications from COPD but lost that battle on April 9th.

I hope the Fox Hunt was well attended and everyone had a good time. I look forward to the next.

I finally have my OCF dipole back up but I am not pleased with its

performance. I literally spend hours trying to trim it to bring it more in line with the specs, but it just will not resonate on 80, 20, and 10. When I have the time, I will try to adjust it more. With the built-in tuner of my Kenwood TS-2000X, I am able to use it but I would rather it was more resonant at the frequencies they state in the specs. It is very good on 40M, however.

I have to rave more about Tom's (N8FDY) presentation at the April Zoom Meeting. It has got to be one of the most thorough presentations on radios that I have ever witnessed. I hope many of

**Continues on page 2**

## Zoom Membership Meeting, May 17 at 7:00 PM

### Antennas

We take a deeper look at three types of antennas: Bob, W8NNC will discuss wire antennas; Chet, K8KIZ will present magnetic loop antennas; Roger, AB8IF will talk about vertical antennas. There will be time for questions.

## Zoom Elmer

Zoom elmer? What's that, you say? It's the half-hour, from 6:30 – 7:00 PM, before each NOARS membership meeting. It will be a safe place to get help with anything amateur radio-related, whether you are new to the hobby or have been in amateur radio for 30 years.



## 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.

## Continued from Prez Sez on page 1

you will be able to make more informed decisions when it comes to selecting your first or replacement radio. Thank you, Tom. Members can view the entire, or any part of the meeting, on video located on the Members Only page of the website.

It is almost garden planting time. I am excited about resurrecting my garden and giving it another go. If I can

keep the beasties from using it as a buffet, it may be worth the hours of work I have expended preparing it. I have a little more to do, but it will be ready soon.

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

73,

Carl, W8KRF

## Vice President's Message

Well, spring seems almost here. Things are looking up. It seems group gatherings will be a reality sooner rather than later. This has tremendous implications. Field Day looks to be held as usual, without masks and NOARSfest in July will be held indoors at LCCC as usual as will the Annual Picnic at the Duck Pond. I can foresee holding

our monthly meetings at the library in North Ridgeville by September. It will be great to get back to normal or close to it. Recent developments look good. Maybe, The Ohio State University football program also? Go Bucks!!!!

## Welcome New and Returning Members

Welcome to new member John Dolinar, W8LYO. John received his initial amateur radio license in September of 2020 as well as his father's callsign in October 2020. John upgraded to General in November 2020 and then to Extra in January 2021. John lives in North Ridgeville.

Welcome back to Mark Fain, KE8DIH. Mark has an Extra class license. Mark lives in Lorain.

We're glad to have you gentlemen with us!

## NOARS Fox Hunt Saturday, May 8

Saturday, May 8 is the date of the next NOARS fox hunt, to be held in the Cottonwood Picnic Area of Cleveland Metroparks at 11 AM. All are welcome. We will be in keeping with a worldwide experience of fox hunting. CQ

Amateur Radio Magazine has designated May 8-9, 2021 as the CQ Worldwide Foxhunting Weekend (CQ WW FW) and is encouraging ham operators and radio clubs to conduct hidden transmitter hunts at that time.

## Old QSL Cards – A Walk Down Memory Lane

There is a certain allure to paper QSL cards in today's digital world. If you would like to see QSL cards from the recent and distant past, go to <http://www.oldqslcards.com>. To see the images of the cards,

scroll down past the database to the scans. I found John Miller, W1PDI, father of Tom, W1PDI. Whom else might there be?

## Finally!! In-Person NOARS Luncheon May 4th

.We will gather on Tuesday, May 4th at noon at the Golden Corral at 8696 Brookpark Road in Cleveland. All are welcome.

# May Birthdays

George Ingmand, WA8YVF

Bob Tome, W8RET

Jeany Hess, KC3QND

Dan Kutchin, K8AGW

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!



## April 19, 2021 Meeting Attendance

Dan, W8AJF

Rich, KD8AJZ

Al, N8CX

Tom, N8FDY

Elaine, KC8FOS

Chris, KD2HCE

Rogr, AB8IF

Bob, WA8JBT

Chet, K8KIZ

Carl, W8KRF

Tom, W8KYZ

John, W8LYO

Bob, W8NNC

Pete, KE8NQQ

Jim, KD8OCW

Dennis, KE8OQA

Dave, KY8OSU

Tom, W1PDI

Jeany, KC3QND

Tom, K1TRB

Bill, K2WJS

Bill, N8WS

Ann, KA8ZEP

Jeff, KB8ZUN

## Heard on the Nets in April

Dan, K8AGW

Fred, N8AHS

Dan, W8AJF

Rich, KD8AJZ

Ray, KA8BPU

Rick, WA8CAC

Chuck, K8CVM

Ed, KI8D

Dustin, KD8EPC

Lee, WA8ERA

Tom, N8FDY

Elaine, KC8FOS

Jody, KE8GKO

Chris, KD2HCE

Carl, W8KRF

Tom, W8KYZ

John, W8LYO

John, KE8MAI

Pete, KE8NQQ

Jim, KD8OCW

Ron, N8OD

Dennis, KE8OQA

Dave, KY8OSU

Alan, KF8PM

Fred, KE8QFT

Jeany, KC3QND

Bryan, N8OOF

Clark, N8PZD

Shawn, KE8RMV

Art, W8UTC

Dave, N8UUC

Tim, K8WFL

Bill, K2WJS

Tom, W8WLI

Bill, N8WS

Leon, KB8WUA

Lenny, N8XLQ

George, WA8YVF

Ann, KA8ZEP

Jeff, KB8ZUN

# May, 2021

**Sunday      Monday      Tuesday      Wednesday      Thursday      Friday      Saturday**

						<b>1</b>
<b>2</b>	<b>3</b>	<b>4</b> NOARS Lunch at Noon 10M Net 8 PM - NCS Dave, KY8OSU	<b>5</b> Food Group 7PM 2M NCS Elaine, KC8FOS	<b>6</b> 2M Net 8 PM NCS Dave, KY8OSU	<b>7</b>	<b>8</b> Fox Hunt Cottonwood Picnic Area 11 AM
<b>9</b>	<b>10</b>	<b>11</b> 10M Net 8 PM - NCS Tom, W8KYZ	<b>12</b> Food Group 7PM 2M NCS Dave, KY8OSU	<b>13</b> 2M Net 8 PM NCS Tom, W8KYZ	<b>14</b>	<b>15</b>
<b>16</b>	<b>17</b> NOARS Zoom On Line Meeting 7 PM	<b>18</b> 10M Net 8 PM - NCS George, WA8YVF	<b>19</b> Food Group 7PM 2M NCS Elaine, KC8FOS	<b>20</b> 2M Net 8 PM NCS Carl, W8KRF	<b>21</b>	<b>22</b> Fox Hunt Site TBA
<b>23</b>	<b>24</b>	<b>25</b> 10M Net 8 PM - NCS Dan, W8AJF	<b>26</b> Food Group 7PM 2M NCS Dave, KY8OSU	<b>27</b> 2M Net 8 PM NCS Elaine, KC8FOS	<b>28</b>	<b>29</b>
<b>30</b>	<b>31</b>					



## Contest Corner

NEQP	May 1-2	<a href="https://neqp.org/">https://neqp.org/</a>
7th Area QSO Party	May 1-2	<a href="http://www.ws7n.net/7QP/new/page.asp?content=start">http://www.ws7n.net/7QP/new/page.asp?content=start</a>
Hamvention QSO Party	May 22	<a href="https://hamvention.org/qso-party-2021/">https://hamvention.org/qso-party-2021/</a>
Day of The YLs Contest	May 29-30	<a href="https://dayofyls.blogspot.com">https://dayofyls.blogspot.com</a>
CQ WW WPX CW Contest	May 29-30	<a href="https://www.cqwp.com/">https://www.cqwp.com/</a>

### By Tom, W1PDI

It's hard to believe we're closing in on the half-way point of 2021 and the contest and on-air event schedule. Before we reach that point however, there are many contests during the month of May, including five state or regional QSO parties, the second annual Hamvention QSO Party and even a contest called Day of the YLs on May 29-30.

The Hamvention QSO Party will be held as a 12-hour event on Saturday of what would have been Hamvention weekend – May 22 8am to 8pm. It's difficult to believe there will be no Hamvention for a second consecutive year.

One interesting on-air event is the 7<sup>th</sup> Call Area QSO Party. Held since 2006, this eight-state event is a great opportunity to contact those states that are west of the Rockies which you may need for a Worked All States award or just to get a signal report.

And before June arrives, which will bring Field Day 2021, there's the CQ World Wide WPX CW Contest, which is one of the major contests of the year held May 29 through May 30.

One event I'd like to single out is the New England QSO Party (NEQP), in which all six New England states participate. Beginning this year, I, as W1PDI, am sponsoring a new NEQP award category, the top Single Operator from Ohio - all modes are eligible. The winner will receive a special NEQP / W1PDI award plaque. The link to details on the NEQP is below.

Good Luck in your next contest!

Sources for contests: ARRL Contest Branch, CQ Magazine, WA7BNM & Ham Radio Contesting



# May Member Highlight: Tom Berger, K1TRB



## Early Involvement in Amateur Radio

Tom was first licensed in 1956 as KN6REV; the evolution of his call signs brought him to his current one, K1TRB. Tom's movement through amateur radio began when, as he put it, "I got on my bike and rode to the Scout Store and bought a Cub Scout Crystal Set Kit."

## Continued Amateur Radio Movement Through the Years

Tom has stayed with amateur radio, partly because he says hams are very interesting people. He likes to hear about all the things that hams do and claims the list is large and getting larger. Another reason is because he enjoys designing, building, and testing electronic equipment. As a matter of fact, Tom says he spends more time building and tearing down than operating. He claims this makes him a casual operator, a beginner in most modes who could do with some serious Elmer work from

fellow NOARS members. However, he is very interested in how all the modes work and what they can do. Digital modes are interesting because they go beyond what worked in the past.

While teaching at Colby College in Maine, Tom's interest in home brewing made him a natural as project director for the local amateur radio club, the Waterville Area Wireless Association. Reflecting that enthusiasm, Tom says, "I would like to have a small homebrewing group within NOARS. There are many simple but useful kits now available on the web. Members can learn to solder, build something useful, and enjoy the sense of learning and accomplishment." Before leaving Maine, Tom was a VE. Covid arrived before he could be involved here in Ohio. As he says, "But when we are unshackled once again, I plan to follow up on that."

**Continued on page 7**

### Current Projects

Tom's HT will not hit the repeaters without an external antenna, so of course he is building one for 2m/70cm. As soon as it's completed, he'd like to try out NOARS nets. He's also completing work on a 40m vertical. Another project is designing and building an analog audio processor (polyphase filter, cw filter, ssb filter, notch filter, audio agc, and amplifier). After it's done, he would like to duplicate this processor as a digital processor (probably a Raspberry Pi) and compare the results. Tom finished designing, building, and documenting YANA (Yet Another Network Analyzer) and has not taken on any big projects. Tom says, "The recent appearance of nanovna and tinySA have removed a couple projects I had been thinking about."

### Favorite Rigs

Tom tells us, "I like to build my own. Since they are built then torn down, they operate only for a short time. Therefore, I keep a commercial transceiver to make certain I have a functioning rig. For awhile my rig has been an Icom 718. This transceiver has been around a long time and is still in production, showing that it is a real war horse. Recently, I inherited a Yaesu FT-450 which will probably become my 'main HF rig.'"

### Most Exciting Experience as a Ham

When Tom was young and worked at Hewlett Packard, he was invited to attend the company's amateur radio club Field Day. The people there were engineers and super technicians, with their families. There were games, great food (steaks) and some of the finest amateur equipment made. He says, "I was allowed to turn some of the knobs. It was my first exposure to Collins 75A3 and 75A4."

### Work Life

Tom studied electrical engineering, physics, and mathematics in college. After PhD studies in mathematics at Caltech he was a faculty member at the University of Minnesota for 30 years where he taught math classes of up to 120 students. He moved to Colby College in Maine where class sizes were small with around 25 students, making the teaching much more personal and effective.

### Still Wants to Learn

Tom says he wants to learn about the nuts and bolts of making things work from the expert operators in NOARS. He'd also like someone to show him how to use EchoLink to contact his club in Maine.

### Other Hobbies

As a research mathematician, Tom enjoys thinking about mathematics. As a physicist he enjoys reading about recent advances in physics and astronomy, and discussing the advances with other physicists. He plays the harmonica and enjoys meeting with others to sing and play folk songs, bakes bread from his own recipes, and reads non-fiction and "interesting fiction". He has traveled with his wife and lived in New Zealand, Australia, England, and Germany while doing research.

### More About Tom

If you would like to see more of what Tom has been involved in, go to <http://personal.colby.edu/personal/t/trberger/pages/hamradio.htm>

## Ham Radio Operator Locator

### By Tom, W8KYZ

Have you ever wondered what other hams are near you? You can find folks with amateur radio licenses around you at Amateur Radio License Map. Go to <https://haminfo.tetranz.com/map>. You can check by call sign, gridsquare, zip code, or street address. See it all on a map.

## Newsletter Submissions

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

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



# First Fox Hunt of 2021 was a Success

Eleven hunters of foxes descended on the Cottonwood Picnic Area of the Cleveland Metroparks on Saturday, April 24th. Hunters were Al, N8CX; Dennis, KE8OQA; Glenn, AF8C; Ann, KA8ZEP; Dan, W8AJF; Pete, KE8NQK; Jeany, KC3QND; Bryan, N8OOF; Sara,

KC8KSU; Tom, N8FDY; Elaine, KC8FOS. We hope you can join us for the next fox hunt on May 8th at 11:00 AM in the same place – Cottonwood Picnic Area of Cleveland Metroparks.









# April 19, 2021 NOARS Meeting Minutes

**Submitted by Elaine Wilkinson, KC8FOS**

The meeting was called to order at 7:00 PM by club President Carl, W8KRF. Twenty-four members and guests were in attendance. Carl, W8KRF, made a motion to suspend reading minutes of the March 2021 meeting, as they were published in the newsletter. Ann, KA8ZEP, seconded the motion. The motion passed.

## **Committee Reports**

**Parliamentarian** - Tom, N8FDY. No report.

**Club Property** - Tom, W1PDI. No changes.

**Website** – Carl, W8KRF. Things are OK. HostGator helped take care of previous problems.

**Membership** – Carl, W8KRF. No new members. We currently have eighty-seven members.

**Field Day** – Al, N8CX. Al is working on the site layout. Band requests have been received. We will be 5A this year. Al is trying for two more stations. He wants to accommodate and coordinate all requests, so the plan will be distributed to NOARS and LCARA members so people can make band and mode requests. We want to make enough room for everyone who wants to operate. Everyone is very excited about Field Day this year. We will have the Pre-Field Day meeting two Saturdays before Field Day at 10 AM at the site. Use of the NOARS club callsign, if operating away from the Field Day site, was discussed. How to file a score will be discussed at the Pre-Field Day meeting.

**Treasurer's Report** - Tom, W8KYZ. The current checking account balance was reported and expenses explained – There were two payments: one to Windstream and another to M2M for an isolator for the repeater. Al, N8CX, made a motion to accept the Treasurer's Report, seconded by Dan, W8AJF. The motion passed.

**Repeaters and Information about the isolator** – Carl, W8KRF. Carl was contacted by Ken Koyan, K8TV, about a dual-stage isolator, which will help prevent intermodulation interference as well as protecting the transmitter if there is a problem with the antenna, feedline, or amplifier. The Yaesu will shut down if there is a problem, but the amplifier won't, without an isolator. To avoid a chance of the amplifier getting damaged, the isolator was installed.

**Social Committee** - Elaine, KC8FOS. The first fox hunt of the year will be Saturday, April 24 at 11 AM in the Cottonwood Picnic Area of the Cleveland Metroparks. All are welcome. The first in-person NOARS lunch will be Tuesday, May 4 at noon at the Golden Corral at 8696 Brookpark Rd. in Cleveland. All are welcome.

**Programs** – Elaine, KC8FOS. May's program will be a deeper look at antennas. Wire antennas will be presented by Bob, W8NNC; magnetic loops by Chet, K8KIZ, and vertical antennas by Roger, AB8IF. June's program will be a presentation about lightning by Chet, K8KIZ.

**Hamfests** – Tom, W8KYZ. We are good to go. Carl said we will have the hamfest, though it is uncertain which restrictions we may have. We can have the hamfest in the parking lot if something comes up. Notifying other clubs about the hamfest would be beneficial. Bob, WA8JBT, spoke of a hamfest he was at that was well attended. People are anxious to get out and back together.

**Sunshine** - Tom, W8KYZ. Tom has been unable to contact Joe, W8GWD, who was in the hospital and a nursing home. He will continue to try.

**Nets** – Elaine, KC8FOS. The nets are going well. Start time for the new net on Monday, Wednesday, and Friday mornings on 146.70 was changed from 9 to 9:30.

**VE** – Tom, W8KYZ. The Red Cross building in Elyria is still closed, but the VE group hopes to start back in June or July.

**Newsletter** - Tom, N8FDY. April 25 is the deadline for submissions to the May Log. There is lots of room for ads. If you submit an article, it will be put in.

**New Business.** Dennis, KE8OQA, advised that the security certificate on the NOARS website is expired and the site wouldn't let him in. Carl said he will look into it.

A motion was made to adjourn the meeting by Tom, K1TRB, seconded by Chris, KD2HCE. The motion passed. The meeting was adjourned at 7:25 PM.

Following the meeting, a program entitled Choosing a Radio, Deep Dive was presented by Tom, N8FDY.

# ***We're Here for Your Ham Radio Needs***

**The Showroom is Temporarily Closed to Walk-in Customers, But You Can Still Place Your Orders & Pick Them Up at the Curb.**

- Available from 9 am – 8 pm, Monday-Saturday and 9 am – 7 pm, Sunday.
- Place your order at [DXEngineering.com](http://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.

Please note that the Summit Racing portion of the store is open. If you know your DX Engineering part number, you can place your order directly in the store and pick it up there.

We look forward to seeing you!

**[DXEngineering@DXEngineering.com](mailto:DXEngineering@DXEngineering.com)**

***The DX Engineering Retail Showroom***  
1200 Southeast Ave., Tallmadge, Ohio



**DX ENGINEERING®**

## **For Sale by Tom, W8KYZ**

Icom SP-20 Speaker with audio filter. \$165.00.

MFJ – 249. HF/VHF/UHF antenna SWR analyzer, LCD frequency counter with manual, AC adapter and MFJ carrying case. \$55.00.

Xenon 5X handheld illuminated magnifier. Battery operated or plug in. Helpful with printed circuit boards. \$10.00.

Weller 8200 dual-heat professional soldering gun (100/140watt). Excellent condition. Was \$15.00, now \$10.00.

CDE antenna control box. CG-45II, good condition. Refurbished by C.A.T.S. \$25.00.

60 feet JSC 8-conductor rotor control cable. \$25.00.

Budwig HQ-2 wire antenna end insulators. Package of 2. New. \$2.00.

Bose Companion 2 speaker system for your computer or stereo. Includes manual and AC power source. Was \$45.00, now \$40.00.

Avanti 2 antenna coax switch with SO-239 connectors for dipole/beam antennas. Was \$15.00, now \$10.00.

Cen-Tech 7 function digital multimeter. New and in original box with battery. \$8.00.

Alinco DJ-580T 2/440 HT. Manual, soft case, mobile power cable/charger, remote speaker/mic, NiCad battery charger. Needs battery. Was \$30.00, now \$25.00

**Contact Tom, W8KYZ. 440-320-5523 or [tporter161@oh.rr.com](mailto:tporter161@oh.rr.com).**



# Equipment for Sale by George Ingmand, WA8YVF

Cushcraft A3S 20, 15, 10 meter beam - needs work. \$25.00.

Ham IV rotor and controller. \$50.00.

Pyramid Gold Series 12 v @ 30 amp adjustable power supply. \$25.00.

1967 to 1987 Callbook on DVD. \$5.00.

Acer 15" LCD monitor. \$20.00.

Boxes of QST, CQ, 73 and various ARRL Handbooks and other publications 2000 to 2009. Free to newbie.

West Mountain Radio Original RIGblaster, not USB. \$10.00.

Yaesu FT-212RH 2meter FM mobile 5-45 watts. In good condition. \$40.00.

West Mountain Radio PWRgate PG40. \$20.00.

W1ZR 6 meter add-on kit for tri-band beams. \$20.00.

Contact George at 440 420 1118 or [gingmand@gmail.com](mailto:gingmand@gmail.com)

## This Spot Reserved for Your Free Ad to Sell Your Stuff



## 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 any ads.

# For Sale from the Estate of K8IC, SK

Icom IC756Pro2. 100 watt 160 to 6 meters transceiver. Comes with carrying handle and microphone. \$550.00.

Dentron MLA-2500 2000 watts linear amplifier. \$750.00.

Nye Viking MB-V-A 3000 watts antenna tuner. \$195.00.

Kenwood MC-60 Cardioid Dynamic Microphone. New and in box. \$125.00.

Kenwood MC-50 Cardioid Dynamic Microphone. Used. \$50.00.

Heathkit RF Load Resistor Cantenna. Model HN-31. \$45.00.

MFJ-269 HF/VHF/UHF SWR analyzer. LCD frequency counter. \$75.00.

MFJ-842 SWR/Wattmeter. 15/150W. \$50.00.

Vintage Swan SWR-1 electronic power meter. \$25.00.

Astron SS-30M 30A desk top switching power supply with dual meters. \$185.00.

ARRL Amateur Radio map of the world. 27x39 inches. \$10.00.

Panasonic RF-B45 portable receiver (FM/LW/MW/SW) with carrying case. \$95.00.

Heil HB-1 mic boom, heil iCM microphone, and FS-3 foot switch. \$125.00.

Bird 43 wattmeter with 5 Thruline element slugs. \$195.00.

Mirage BD-35 144/440 linear amplifier. Works great with HT. 5 watts in / 45 watts out VHF / 35 watts out UHF. \$45.00.

Diamond NR770NA 2/440 mobile dualband antenna and magnetic mount with coax. \$45.00.

Baofeng UV5R 2/440 HT, charger, speaker mic., 2 extra batteries and program. Software disc. \$30.00.

Baofeng BL-5 1800 mAh rechargeable battery. Used. \$5.00.

Sanyo battery charger (aa/aaa). \$9.00

Jetstream JTPS14M dual meters 12A continuous, 14A surge power supply. \$45.00.

Wouxun KG-UVD1P 2/440 HT, manual, charger, and extra battery. \$50.00.

Wouxun KG-UV2D 2/440 HT, manual, charger, program disc., mobile battery eliminator, and extra battery. \$65.00.

Kenwood TH-G71 144/440 HT with manual. Needs a charger. \$45.00.

Hi-Q dipole 1:1 balun. New. \$20.00.

W2AU Big Signal 4:1 balun. New. \$20.00.

100 ft Andrew Heliac ½ inch hardline cable. New. \$175.00 or best offer.

55 ft twin lead. New. \$25.00.

Kenwood 7800 + Yaesu YSK-7800 separation kit. 2/440, dual band, dual screen. Wide band reception 108-520 Mhz / 700-999 Mhz. Manual and microphone. \$175.00.

Yaesu FTM-400DR 144/440, dual band with microphone, manual, detachable head, and dual readout. \$425.00.

Yaesu FT2DR C4FM 144/430 MHz Dual Band Digital Handheld Transceiver, charger, extra battery, program disc, and manual. \$325.00.

Icom M72 VHF marine transceiver with battery and BC-166 battery charger. Needs AC supply. \$50.00.

MFJ-842 VHF/UHF SWR/Wattmeter. 140-525 MHz, 15/150watts. \$45.00.

Morse code key. \$10.00.

P3 International P4460 Kill A Watt EZ electricity usage monitor. \$15.00.

Pittsburg 4-inch digital caliper with case and instructions. \$10.00.

**Contact Tom, W8KYZ at 440-320-5523 or tporter161@oh.rr.com**

# Receivers for sale by Tom Berger, K1TRB

Two receivers from the estate of Bill, AC8FD.

**Collins R391 receiver:** The R390 is the best vacuum tube receiver ever made. The R391 adds motorized autotune (not tested). The receiver hears a weak generator signal on 80m and 40m. The internal 1MHz calibrator can be heard at all MHz frequencies. No further testing was done. A separate steel box contains two complete documentation sets, replacement vacuum tubes, and various cords for the receiver. The special power cord is included. This receiver is ready to put into service.

On March 10 one of these sold for \$2025 on eBay.

**Asking \$1200.**



**Drake R8 Receiver:** Official SWL Channel puts this in the top 10 receivers he wants to own. It includes the matching speaker. This all solid state radio is easy to use and full of features. It competes easily with more modern receivers. The receiver hears a weak generator signal on 80m and 40m. Other random frequencies were checked over the range and they all worked. No further testing was done. The receiver is ready to put into service.



On eBay recent sales (without the speaker) have gone for \$450 or more.

**Asking \$400.**

**Contact Tom Berger, K1TRB at [trberger@colby.edu](mailto:trberger@colby.edu).**

If NOARS meets again together, I can bring a receiver to the meeting (or better yet, especially for the R391 you

can pick the receiver up at Kendal at Oberlin).



# 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



**Chet Roberts**

22h

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: Dave, KY8OSU  
Secretary: Elaine, KC8FOS  
Treasurer: Tom, W8KYZ  
Others: Bob, W8NNC, Tim, NC8X; Tom, N8FDY

## Others

Net Manager: Elaine, KC8FOS  
Club Trustee for K8KRG: Al, N8CX  
NOARS Log Editors: Tom, N8FDY; Elaine, KC8FOS  
Volunteer Examiners: Tom, W8KYZ; Joe, W8GWD;  
John, KC8KI; Dave, K8WRS; Sallie, AB8GI

## Committees

Parliamentary Committee: Tom, N8FDY  
Repeaters: Carl, W8KRF; Tim, NC8X  
Field Day: Al, N8CX  
Hamfest:  
Sunshine: Tom, W8KYZ (temp)  
Membership: Carl, W8KRF  
Club Property Committee: Tom, W1PDI  
Program Committee: Elaine, KC8FOS; Joe, 8DYZ;  
Bob, W8NNC; Dave, KY8OSU  
Social Committee: Elaine, KC8FOS; Dave, KY8OSU;  
Ann, KA8ZEP  
Public Relations Committee: Dave, KY8OSU;  
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

During the Covid-19 pandemic, in-person meetings have been cancelled. They will resume as soon as it is safe to once again meet in large groups.

## Nets

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

## VE Testing

Due to COVID-19, there will be no VE testing until further notice.

## Net Control Stations

Elaine, KC8FOS  
Carl, W8KRF  
Tom, W8KYZ  
Dave, KY8OSU  
Dan, W8AJF  
George, WA8YVF