



NOARS Log



June 2023

K8KRG

Volume 59, Issue 6

Table of Contents

President's Message	1
VP's Message	2
Social Events	2
News	3
Birthdays, Meeting Attendance, Heard on the Nets	4
Calendar of Events	5
POTA Party a Great Success	6
The First Fox Hunt	8
May Fox Hunt	8
Propagation was a Lady on May's 2m Nets	10
Monthly NOARS Lunch Fifth Anniversary	11
NOARS May I Lunch	12
Build Your Own Band Pass Filter for Field Day	13
NOARS Membership Meeting Minutes: April 17, 2023	15
Free Heathkit HW-101	16
For Sale	17
NOARS Information	21

Prez Sez

The first NOARS POTA event is a wrap and was a huge success. It was great seeing everyone that came out and participated. Next big event will be Field Day. Check the new location on the website and I hope to see a huge turnout for this event as well. Come out, meet your fellow hams, and participate. I know every time I go to an event, I learn something new about the hobby that I can use. From portable antennas to RFI between stations in the same band; there is always something to either learn or assist others with learning. This year for the first time there will be a GOTA

(Get on the Air) station. If you are not yet licensed, newly licensed, inactive or a Technician/Novice who would like to make phone contacts and have some fun on the HF bands this is for you. I will be acting as the control operator for this station training and supervising its use. I am excited to engage everyone in the amateur radio experience and build interest in this hobby.

73'

John W8LYO

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

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

Program: QRP

Bob Plow, W8NNC will present a program on the exciting & mysterious world of QRP.

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.

Vice President's Message June 2023

by Elaine, KC8FOS

When You Hear Something Offensive to You on the Ham Bands

You're scanning the ham bands and hear someone you think shouldn't be on that frequency, they are using colorful language, or they are simply providing malicious interference. I found notes on my phone from one of 2022's Hamvention forums, "Good Operators and the ARRL Volunteer Monitor (VM) Program", led by Riley Hollingsworth, K4ZDH, Volunteer Monitor Program Coordinator, and FCC Enforcement Bureau Regional Director, Lark Hadley, KA4A.

Riley had some interesting things to say:

- Malicious interference is common on 2m nets. Responding emotionally to malicious interference

delights the offender. Don't respond.

- 80% of interference is unintentional. Most on HF is from new hams who are unaware they don't have privileges on that frequency. This is especially true on FT8. Since it's not voice, they think they can be there.
- Frequently voiced by long-time licensees who think they know everything and don't, is the idea the new hams should know better. Riley advises to lighten up.

More Advice from Riley:

- Appreciate and enjoy the hobby.
- Understand gratitude.
- Don't participate in nets that are an embarrassment to amateur radio.
- The tuning knob is an idiot filter. Tune away from the idiots.

NOARS Weekend Lunch

We are starting a Weekend Lunch. Everyone is invited to attend. Join us at the Dawg House Bar and Grill Saturday, June 3 at 12:30. 114 Antioch Dr, Elyria, OH

44035. You can read about them on Facebook. To see their menu, go to <https://www.dawghouseelyria.com/menu>. We hope to see you there.

June 2023 Social Events

NOARS Weekend Lunch

Saturday, June 3 at 12:30 at **Dawg House Bar and Grill, 114 Antioch Dr, Elyria, OH 44035**. All are welcome. Come join the fun!

NOARS June Lunch

Tuesday, June 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.

Antenna Day!

June 17 from 10:00 – 2:00 in the **North Olmsted High School Pavilion**

Antenna Day!

The NOARS Antenna Day will be Saturday, June 17 from 10:00 – 2:00 in the North Olmsted High School Pavilion. The pavilion back by the athletic fields. Bring your

antennas, gear, and accessories. Or just come and see what everyone has and have questions answered. It's always a good time.

Ladies On The Air (LOTA) Moves to Once a Month

During the summer months, when folks have more outdoor activities, LOTA will meet the second Tuesday of each month at 7 PM on the NOARS repeater, 146.700 PL

110.9. In June the net will be Tuesday, June 13. All women with amateur radio licenses are welcome to join us for this round robin net.

The 66th Annual BreezeShooters Hamfest

Sunday June 4th at the Butler Farm Show Grounds, 625 Evans City Road, Butler, PA 16001.

Big Indoor and Outdoor Fleamarket

The Biggest In the Multi-State Area (Eastern Ohio, Western New York, Western PA, West Virginia and Western Maryland)

Clean restrooms

Good affordable food

Big Education Forum Schedule (7 presentations)

See all the details on the Breezeshooters Web page <http://breezeshooters.org/ns/hamfest>

Big Vendor and Sponsor List (over 18 companies)

Tom Miller W1PD in Ham News

Tom once again sponsored a plaque for Highest Score, Single Operator in Ohio in the New England QSO Party, 2022. The winner of the plaque was Robert Robbins, K8RGI. For information about NEQP and other plaque sponsors, go to <https://neqp.org/awards/>.

Tom's story of how he became involved in amateur radio is in the June 2023 issue of QST. Read about it in Celebrating Our Legacy on Page 113.

Will's KE8WHM Camp Belden POTA Activation

After the April Fox Hunt Will headed down to Camp Belden Wildlife Area and made his first activation. He made forty-two contacts on his Yaesu FT891 on 100w using a 40m HWEF antenna which he threw up into a tree. Good going, Will!



June Birthdays

Bill Holmes N4NZZ
Fred Stillwell AA8S
John Lopez KE8WHF
Lee Shrader, Jr. AC8R
William Easterday KB8FU

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!



May 15, 2023 Membership Meeting Attendance

In person	Connie	K8CCS	Mike	KE8ETO	Dennis	KE8OQA	
Allen	KE8KZ0	Dan	W8AJF	Ron	N8OD	Tom	N8FDY
Andrew	KE8WMS	Diane	-	Tom	W1PD	Will	KE8WHM
Bill	K2WJS	Earl	W8LYY	Will	KE8WHM		
Bill	KE8DIF	Elaine	KC8FOS	Zoom			
Bill	N4NZZ	Eric	KE8VZA	Betsy	W2CBZ		
Bryan	K8JMI	Jim	KB8OCW	Bob	W8NNC		
Carl	W8KRF	John	W8LYO	Chuck	K8CVM		

Heard on the Nets in May

Alan, KF8PM	Craig, KE8WXH	Fred, N8AHS	Pete, KE8NQK
Andrew, KE8WMS	Dan, K8AGW	Jack, N8NDL	Ron, N8OD
Ann, KA8ZEP	Dan, W8AJF	Jeff, KC4SME	Sara, KC8KSU
Bill, KD8NGE	Dan, KE8VYQ	Pensacola, FL	Scott, K8SMK
Bill, K2WJS	Daniel, KP4DRB DX	John, W8LYO	Scott, KE8VOX
Bill, N8WS	Puerto Rico	Ken, W8KH	Steve, K8SAS
Bryan, W8JMI	Dave, KD8MXE	Mark, KE8TCE	Tom, N8UAZ
Carl, W8KRF	Dennis, KE8OQA	Mike, KE8ETO	Tom, N8FDY
Chris, KE8MMY	Dwayne, WO8U	Mike, KC3QFC	Tom, W8KYZ
Chuck, K8CVM	Earl, W8LYY	Jeany, KC3QND	om, K8PPZ
Clark, N8PZD	Elaine, KC8FOS	Nick, KD8SLG	Josh, KE8VKE
Connie, K8CCS	Eric, KE8VZA	Paul, KE8WHG	Tom, W8WLI

June, 2023

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

				1 2M Net 8 PM NCS KC3QND	2	3 NOARS Weekend Lunch 12:30 Dawg House Bar and Grill
4	5	6 NOARS Lunch at Noon 10M Net 8 PM NCS KC8FOS	7 Food Group 7PM 2M NCS KC3QND	8 2 PM Net 8 PM NCS W8KYZ	9	10
11	12	13 10M Net 8 PM NCS W8KYZ	14 Food Group 7PM 2M NCS KC8FOS	15 2M Net 8 PM NCS W8KRF	16	17 Antenna Day 10AM-2PM North Olmsted High School Pavilion
18	19 NOARS Meeting 7 PM	20 10M Net 8 PM NCS W8LYO	21 Food Group 7PM 2M NCS KC3QND	22 2M Net 8 PM NCS KC8FOS	23	24
25	26	27 10M Net 8 PM NCS W8AJF	28 Food Group 7PM 2M NCS KC8FOS	29 2M Net 8 PM	30	

POTA Party a Great Success

Thirty people attended the POTA Party May 13. Eighty-seven contacts were made, including seven Park to Park. Besides making contacts, there was lots of socializing where some of us met people we knew by voice, having heard them on the nets. Dan, W8AJF did an excellent job organizing everything. All in all, it was a great time. Watch for another POTA event, later this year or next spring.

Attending were Andrew Lent KE8WMS, Ann Wadsworth KA8ZEP, Arpad Viiberg K8ARP,

Bill Sheehan K2WJS, Brandon Mercer KE8ARB, Carl Rimmer W8KRF, Chris Durkin KE8MMY, Connie Sheehan K8CCS, Corey Brooks KE8PQW, Dan Wadsworth W8AJF, David Jones K8SCH,

Earl Jolley W8LYY, Elaine Wilkinson KC8FOS, Eric Hatfield KE8VZA, Ethan Mercer KE8WVW,

Glenn Williams AC8F, Jim Grimes KD8OCW, Joe O'Connell KD8STR, John Dolinar W8LYO

John Morris N8RVE, Mark Hayden KG4SCK, Mike Baird KE8ETO, Mike Tyson N8KMO

Nick Traweek KD8SLG, Ron Stoller KB8LNL, Ron West N8OD, Stasha Powell,

Scott Emery KE8VOX, Tom Wilkinson N8FDY Will Rankin KE8WHM.





The First Fox Hunt

June is the Third Anniversary of the Fox Hunts. In attendance at the first Fox Hunt were Tom N8FDY, Dan W8AJF, Ann KA8ZEP, Carl W8KRF, Alan N8CX SK,

Steve WA0DVY, Elaine KC8FOS. Attendance at the Fox Hunts comes and goes, but whomever is there, it's always a good time.



May Fox Hunt

Twelve people gathered for the Fox Hunt this past Saturday, May 27. Attending were Will KE8WHM, Andrew KE8WMS, Scott KE8VOX, Paul KE8WHG, Tom N8FDY, Dave KD8MXE, Dave's wife Dimitra, Connie K8CCS, Bill K2WJS, Pete KE8NQK, Jeany KC3QND, Chris KE8MMY, Elaine KC8FOS and Mr. Wilson K9. Andrew KE8WHM hid the foxes which the

hunters energetically hunted, sometimes with success. The rest of us stayed behind and had a great time talking and giving Mr. Wilson bellyrubs. Afterwards a few of us lunched and got to know each other better. All in all, it was a wonderful time. The next Fox Hunt will be Saturday, July 29 at 11:00 in Bradley Woods.





Propagation was a Lady on May's 10m Nets

Pete KC3QND and Dan W8AJF had long distance check-ins on the nets when they were Net Controls. When Pete KC8NQG was Net Control, Daniel KP4GRB checked in from Puerto Rico. When Dan W8AJF was at the helm, Jeff KC4SME checked in from Pensacola, FL. Check into

the 10m nets, held every Tuesday at 8PM on 28,370MHz. You never know what you might hear. Maybe a lot of noise, maybe not. Below is the QSL card Pete received from Daniel in Puerto Rico.



To: KE8NQG This confirms our 2-way SSB(USB) QSO
Date: May 10, 2023 Time: 00:30 UTC
Band: 10m UR Sigs: 5/7
TNX Mr.Peter for joinme in the Net/28.370,Take Care & 73 from

Printable 4x6 (A6) format (Chrome: right-click to print)

This QSL card was created online at www.eQSL.cc



Click on icon to view Authenticity Guaranteed certificate
If you believe this is one of the BEST cards you have seen,
please [click here to vote for this card!](#)

Monthly NOARS Lunch Fifth Anniversary

The first Monthly Lunch was held June 5, 2018. During the pandemic we reverted to Zoom lunches, set up by Carl W8KRF. Over the years we've had an interesting crowd of people attending. The lunches are always the first

Tuesday of the month at Golden Corral in Elyria at noon. Members, friends, and family are always welcome. Below are photos of that first Monthly Lunch.



NOARS May I Lunch

Twenty people gathered for lunch, and a good-looking bunch it was. If you would like to be part of the

festivities, join us at the June Lunch on the 6th at noon at Golden Corral, Elyria. All are welcome.



Build Your Own Band Pass Filter for Field Day

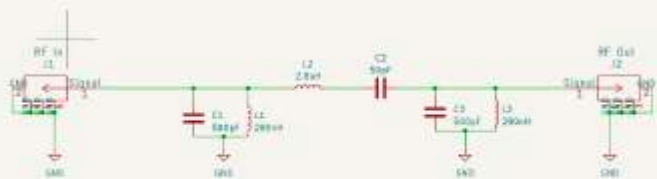
By Tom, N8FDY

I was looking for 20 meter and 15 meter bandpass filters for Elaine, KC8FOS to use at Field Day on her Icom 7300 and I discovered that the ones I wanted are no longer for sale in the US.

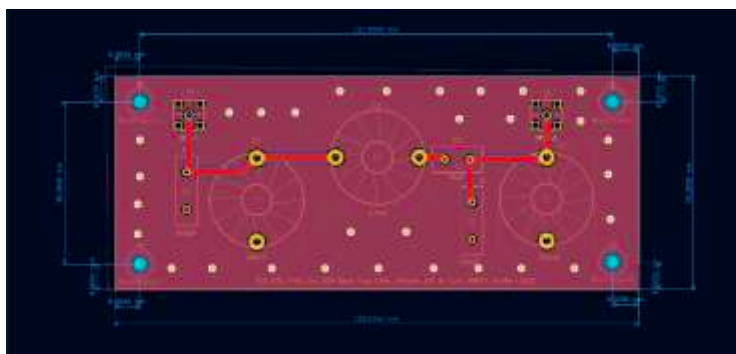
Why do you need a bandpass filter you ask. Well, the major weakness of pure SDR radios is they can get overloaded from nearby strong signals. Also, radios that meet FCC specifications for transmitter purity may still have harmonics and other spurious signals that might interfere with very close-by radios.

I tried to design my own by using a website to generate a design. When I built that design, it had way too much loss to use on a transceiver. I searched around the internet and found this article (<http://www.arrl.org/files/file/Technology/tis/info/pdf/8809017.pdf>) that appeared in QST in September 1988 titled “Band-Pass Filters for HF Transceivers” by Lew Gordon, K4VX (SK). Lew did the design work so all I had to do was build it.

I like to design mine on a Printed Circuit Board (PCB) using KiCad (<https://www.kicad.org>), a free and open-source PCB design software that works on MacOS, Windows and Linux. First you draw the schematic, then



you find the footprint for each device in the schematic, then you layout the PCB. Once you practice and get the

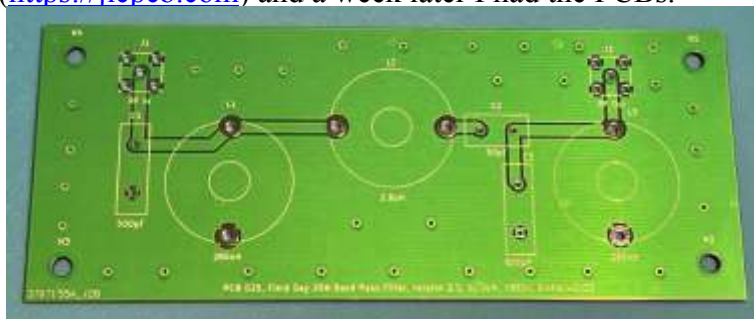


hang of going through this process it become almost as easy as it sounds. I uploaded the PCB design files (called



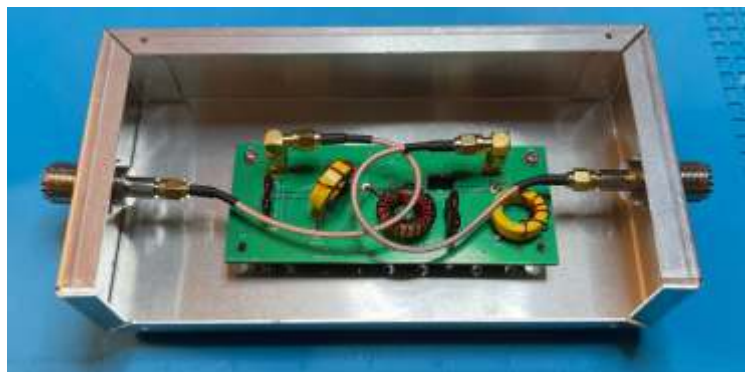
Home Brew Corner

Gerber files) to my favorite PCB fabricator JLCPCB (<https://jlcpcb.com>) and a week later I had the PCBs.



I ordered two 500 pF Mica Capacitors, 500 V (<https://www.digikey.com/short/2d9jmbjm>), one 50 pF Mica Capacitor 500 V (<https://www.digikey.com/short/q77tj29t>) and an aluminum box (<https://www.digikey.com/short/9cn0zmrr>) from DigiKey. I also needed to buy some T-80-6 Toroids from Kits and Parts (<https://kitsandparts.com>) “The Toroid King”. I also needed some 20 AWG Magnet Wire (<https://www.amazon.com/gp/product/B07DYG6DVP>) from Amazon.

Winding the toroids turned out to be a problem. The article and the website <https://toroids.info/T80-6.php> agreed on how many turns for the coils but where I measured the inductance with my DER EE DE-5000 LCR meter, it was way off. I ended up buying a Keysight U1733C LCR meter and it also showed that coil was off, but not as far off as the DE-5000 showed. I had to



Continued on page 14

Continued from BPF on page 13

remove two turns and adjust the spacing of the remaining turns to get the coil to the correct inductance.

I soldered all the parts on the PCB and checked the filter with a spectrum analyzer and it looked like the article said it should.

In the middle of the 20M phone band it has a loss of 0.32 dB and the -3 dB points are at 10.8 MHz and 16.2 MHz. At the top of the 40M band it has an attenuation of 27 dB and at the start of the 15M it has an attenuation of 21 dB.

When I tested with a radio and a dummy load on a 100W output it loses about 13 watts which is turned into heat. Running key down at 100W for 10 minutes heats up the center coil to about 80°C. I think it will be fine for SSB. This was an interesting project and I learned a lot.



NOARS MEMBERSHIP MEETING MINUTES:

May 15, 2023

Submitted by Connie, K8CCS

The meeting was held in person at North Olmsted Public Library and via Zoom and was called to order at 7:00 p.m. by club president John W8LYO. Total number of people in attendance: 25 (19 - in person; 6 - Zoom)

Pledge of Allegiance

Introductions and roll call of all in attendance (in person/zoom).

Motion to accept meeting minutes as published in the NOARS Log was made by Mike KE8ETO; Seconded by Dan W8AJF. Minutes accepted.

COMMITTEE REPORTS:

Treasurer's Report – Tom W8KYZ.

Expenses: Windstream for \$79.88; Hostgator 3-year renewal of Domain name \$59.97; April meeting refreshments \$20.33.

Motion to accept the Treasurer's Report was made by Carl W8KRF; Seconded by Mike KE8ETO. Treasurer's report accepted.

Parliamentary – Tom N8FDY - No new updates.

Club Property – Carl W8KRF - No update and no changes in club property. One person borrowed the AA 650 Zoom Analyzer. He will bring the magnetic loop antenna to Field Day. Anyone who would like to use it at Field Day is welcome to use it. We have an FTM100 that is available for anyone who would like to borrow it and try it out.

Repeaters – Carl W8KRF – No problems with the repeaters.

Website – Carl W8KRF - The website is up to date. Field Day information has been added to the home page. Field Day is June 24-25, 2023.

Membership – Carl W8KRF - We have 122 members.

Ham Fest - Carl W8KRF – The 2023 July Ham Fest will be at the same location as last year. The flea market may be moved to a different part of the parking lot. More information will be provided as it comes available. We will need help with the Ham Fest, but will ask for help after Field Day is over.

Social Committee – Elaine KC8FOS – We had a bang-up POTA Party on May 13. There were 30 people in attendance. Dan W8AJF did an excellent job organizing everything.

We have three new members on the Social Committee: Eric KE8VZA; Will KE8WHM and Andrew KE8WMS. Welcome!

The next Fox Hunt will be Saturday, May 27, 2023. Andrew KE8WMS has the fox and he is going to hide it. Watch out for some exciting times looking for the fox!

NOARS Lunch is Tuesday, June 6 at noon, Golden Corral in Elyria. Everyone is welcome. This will be the 5th Anniversary of the NOARS Lunch!

NOARS Antenna Day is June 17 in the pavilion behind North Olmsted High School. Come out and bring your antennas, or just come out and hang out.

Annual NOARS Picnic will be August 21 at the Duck Pond at 12550 Diagonal Road, LaGrange, Ohio 44050. More information to come.

Programs – Elaine KC8FOS – June Program will be QRP presented by Bob W8NNC. In July, Chet K8KIZ will give a presentation about antennas. You can never know too much about antennas.

VE Testing – Elaine KC8FOS - We welcome a new member of the VE team - Bill N8JET. The next VE test will be at the Hamfest on July 15, 2023

Sunshine – Tom W8KYZ – Clark N8PZD recently had a stroke and is recovering.

Nets - No Report.

Continued from MEETING MINUTES on page 15

Newsletter – Tom N8FDY - The deadline for articles, photos, etc. is May 25. If you have anything to sell, submit an ad. Some larger items do not sell very well at hamfests. However, they do sell in the newsletters. Send pictures of you while you are doing ham radio things. Do you have a hobby other than ham radio? Send us a photo of you and your hobby for the newsletter. We publish pretty much everything you send to us in the newsletter.

Old Business – No old business.

New Business – Elaine KC8FOS – One fox went missing during our last Fox Hunt. We would like to replace it with

a Microfox 15 USB Combo which would cost approximately \$124.20. Carl W8KRF made a motion to replace it; Seconded by Andrew KE8WMS. Motion passed.

Motion to Adjourn meeting was made by Mike KE8ETO; Seconded by Bill K2WJS.

Meeting Adjourned 7:20 p.m.

50/50 Winner: Allen KE8KZO. Allen donated his winnings back to NOARS. Thanks Allen!

Presentation – Field Day by Carl W8KRF and Mike KE8ETO

Free from the Estate of Jerry Rupelt, K8BWI SK

Heathkit HW-101, Needs cleaning, some resistors and caps need to be replaced.

Comes with all manuals & assembly instructions.

From the estate of Jerry Rupelt, K8BWI. Free to a good home.

Contact Dan, W8AJF. (440)281-7393 or wadsytwl@gmail.com



WELL WORTH THE TRIP!

Check out our new, more spacious 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®



Visit the Newly Upgraded Showroom Today!

- Lots of Room for More Gear
- Latest Radios to Check Out
- Same Fast and Friendly Service

Can't make it in?
Simply order at DXEngineering.com

For Sale by Tom, W8KYZ

Elimination of Electrical Noise by "Radio Today" Don Pinnock, G3HVA. 64 pages. \$15.00

Grundig Eton Elite 750

Shortwave (1.711-29.99MHz) with SSB, LW, AM/FM, AIRCRAFT BAND

(117-137 MHz), 1000 memories, rotating AM antenna, S meter, clock,

external antenna sockets and earphone socket. AC/DC power supply, 4D alkaline batteries and manual included.

\$325.00.

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

For Sale by Ron West, N8OD

MFJ 849 Digital SWR/Wattmeter 1.8-60 Mhz (unused) \$150

Diamond SX400 SWR/Wattmeter 140-525 Mhz (unused) \$75

Comet CHA250 Vertical Antenna (new 6 months ago) \$250

Kenwood TS440 HF radio \$60

MFJ 941E Antenna Tuner \$75

LDG 100Pro2 Auto Antenna Tuner (unused) \$150

Reasonable offers considered.

Contact: Ron, N8OD at 440-865-5845 or ronwest47@gmail.com

FOR SALE-Tower, Yagi, Rotator, Controller & Tower Accessories

Tower was professionally installed in July 2018

Everything has been well maintained

- 30ft Rohn 45G tower
- Rohn Bearing Plate (BPL45G)
- DXE Thrust Bearing (TB-300)
- DXE Accessory (Rotator) Shelf (AS455G)
- Rohn House Tower Bracket (HBUTVRO)
- JK Navassa-5 Yagi 5 Band + 6M element & balun kit
- KF7P Tower Standoff & Stabilizer Bar
- Yaesu Rotator (G-1000DXA)
- Green Heron Controller (RT21)

Cost: \$2,500 (Today's cost for the above \$4987.00)

Buyer must arrange for tower dismantling

Above price includes the following coax:

- DXE 213U (approx. 80ft)
- Bflex This was extra coax run to base of tower but never used (approx. 60ft)
- RG8X This was extra coax run to base of tower but never used (approx. 60ft)

Current location: Northeastern Ohio

Tom, W1PD, W1PDI@ARRL.net, Cell: 440-590-5777



For Sale by Tom, W8KYZ

MFJ-108B, LCD 24/12-hour dual clock, with battery. New. \$20.00

Sony M-570V microcassette voice recorder with batteries. 2-speed record and playback. \$25.00

1943 U.S.Navy Bluejackets' Manual. \$10.00

Telex M-40 desktop computer microphone. \$5.00

Do-It 8-foot replacement power cord. Three conductor, 16 gauge medium duty. New. \$5.00

Optimus STA-300 AM/FM stereo receiver with two PRO 77, 8-ohm bookshelf speakers. \$30.00

Uniden PRO538w 40-channel CB radio with microphone, mobile mount, and manual. \$25.00

Larsen Kulrod antenna base coils (6). NMO 2/70. NLA 220 (200-265 MHz). LM-150

(890-960 MHz, ¼ wave antenna. New. Mounting hardware for NLA-B, rubber mounting gaskets. Other parts and hardware. \$25.00 for all.

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

For Sale by Tom, N8FDY

ZUM Radio Elite 3.5 LCD ZUMspot Kit \$250

Zeenko NanoVNA SAA-2N 50K-3GHz Hardware V2.2 \$100

Contact Tom, N8FDY, thomasfwilkinson@gmail.com, 216.409.1886

For Sale by Sandy, W8KYS

Tailtwister antenna rotor with controller. Reconditioned. \$250.00

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

Ad Submission Guidelines

Electronic ads may be emailed to 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 so the ad can be removed. All ads will be removed (unless updated) after four months. NOARS reserves the right to refuse any ads.



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: John, W8LYO

Vice President: Elaine, KC8FOS

Secretary: Connie, K8CCS

Treasurer: Tom, W8KYZ

Others: Carl, W8KRF; Tom, N8FDY; Chris, KE8MMY

Others

Net Manager: Jeany, KC3QND

Club Trustee for K8KRG: John, W8LYO

NOARS Log Editors: Tom, N8FDY; Elaine, KC8FOS

Volunteer Examiners: Elaine, KC8FOS; Glenn, AF8C;

Ron, N8EGZ; Sallie, AB8GI; 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:

Hamfest: Carl, W8KRF

Sunshine: Tom, W8KYZ

Membership: Carl, W8KRF

Club Property Committee: Carl, W8KRF

Programs Committee: Elaine, KC8FOS;

Bob, W8NNC; Pete, KE8NQK;

Jeany KC3QND; Bob W8OOT, Paul KE8WHG

Social Committee: Elaine, KC8FOS; Ann, KA8ZEP;

Linda, KM4GSF; Sara, KC8KSU; Eric, KE8VZA;

Andrew, KE8WMS; Will, KE8WHM

Public Relations Committee:

Chris, KE8MMY

Membership

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



Meetings

The third Monday of each month 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 Thursday nights at 8 pm. on 146.700 MHz. All licensed amateurs are welcome.

VE Testing

The 1st Sat of odd numbered months at 10 AM at North Olmsted Library 27403 Lorain Rd. North Olmsted. Contact Elaine, KC8FOS at ewilkinson1951@gmail.com for more info. Walk-ins welcome.

Net Control Stations

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