



NOARS Log



July 2020

K8KRG

Volume 56, Issue 7

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Prez Sez

Prez Sez:
 Whew! What a weekend. I hope you all had fun doing our Covid-19 version of Field Day. I did and from what I saw on our Totals page, Tom W1PDI did fantastic. He did mainly CW and tore it up with 325 contacts with a total QSO score of 611. Never knew he was a major contester. If nothing else, the Club Score Processor program brought the competitiveness out of me. I did mostly digital (PSK/FT8) with only a few PH contacts. FT8 turned out to be the best but PSK was okay. I tried to keep up with Tom's number of contacts but the average elapsed time for an FT8

exchange is at least 1 minute. I am betting Tom did 2-3 at least in that time. Of course, PSK is even slower. I did 216 contacts with a final total QSO score of 429. My generator ran great with only one stop to gas up. The other members who participated in the Club Score Processor were: Bob W8NNC, George WA8YVF, Al N8CX, Tom N8DFDY, Dave KY8OSU, Erik KD8RNF, and Elaine KC8FOS with combined contacts of 383 and a total points score of 584. So, the total QSO Points for the 9 of us was 1,624. Al N8CX operated 1B so he gets lots of bonus points bringing his total

(Continued on page 2)

July Membership Meeting Program

FT8, One of the Digital Modes

Anthony Luscre, K8ZT, will return and present a program at the July Zoom membership meeting about FT8.

July 20, 2020 Virtual Meeting on Zoom at 7 PM

It's easy to sign on. Look for information on page 3 of this newsletter.



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.

Northern Ohio Amateur Radio Society (K8KRG) - ARRL Field Day Total Score = 1,624

Current status: 06/29 01:04 UTC

Call	Score	QSOs	20 Min	60 Min	Frequency
W1PDI	611	325	24	28	
W8KRF	429	216	0	0	
W8NNC	238	119	0	3	
WA8YVF	163	153	15	21	14.31500
N8FDY	74	37	15	8	
N8CX	70	35	0	0	
KY8OSU	24	24	0	0	
KD8RNF	11	11	0	0	
KC8FOS	4	4	0	0	

N3FJP Software: www.n3fjp.com

Serving the Amateur Radio community with contesting and general logging software since 1997.

(Continued from page 1)

score alone to 1750. Not Bad.

At this point, with the uptick in Covid-19 cases, it appears we will be holding our July Membership meeting on Zoom. Videos of all our previous Zoom meeting are available for viewing on our website in the Members Only section.

It is 9:15 PM as I type this on Sunday night, June 28. I am operating on only 2 hours of sleep since Saturday morning, so I will keep this short. I am hoping many of you will bring your FD2020 stories to the Zoom meeting on July 20.

Everyone, take care. Until next month, be safe and 73,
Carl W8KRF

Fox Hunt Events

NOARS will hold two fox hunt events:

A training event on Saturday, July 18 at 11 AM. Come learn about fox hunts, how they work, build a simple antenna, and practice using it. This will be held at the home of Tom, N8FDY and Elaine, KC8FOS. Our address is in the club's roster. Please RSVP Elaine at

ewilkinson1951@gmail.com so we know how many to expect at the training event.

The second event "Fox Hunt for beginners" will be on Saturday, July 25 at 11 AM, in the Cleveland Metro-parks. Information will be sent by email once the location has been confirmed.

Understanding HF Propagation

https://www.youtube.com/watch?v=7Y_RTdPs3NI&pbjreload=101

Thanks to Chet, K8KIZ, for sending this informative video.

Way to Go, Tom, W1PDI!

Congratulations to W1PDI for passing the Amateur Radio Extra Class Exam in June.

Joel Hallas, W1ZR editor of the QST column, "The Doctor is In," accepted a question from Tom, which is answered in the July 2020 issue. The question concerns the appropriate sequence of interconnections needed to use

his new linear amplifier, including where to put the dummy load in the lineup. For the complete question and answer, go to page 52 in the July issue.

Tom was also recognized for Morse Code proficiency at 10 wpm in February and 15 wpm in March. These are also in the QST July issue, page 86.

Field Day 2020 at the Field of Suburban RC Flyers

Dan, W8AJF and his wife, Ann, KA8ZEP set up for Field Day at the field the Suburban RC Flyers use to fly their planes. Besides being members of NOARS, they are also members of that club. Over Saturday and Sunday 135 contacts were made on their mobile rig, for a total score

of 270. Visitors shared Dan and Ann's friendship and hospitality. Tom, W8WLI and his wife Pat visited on Saturday. Elaine, KC8FOS spent a few hours at their station on Sunday. Also present were Alex Pasini, N8QL and Ken Slepecky, N8ZX. Good times.



NOARSfest Cancelled

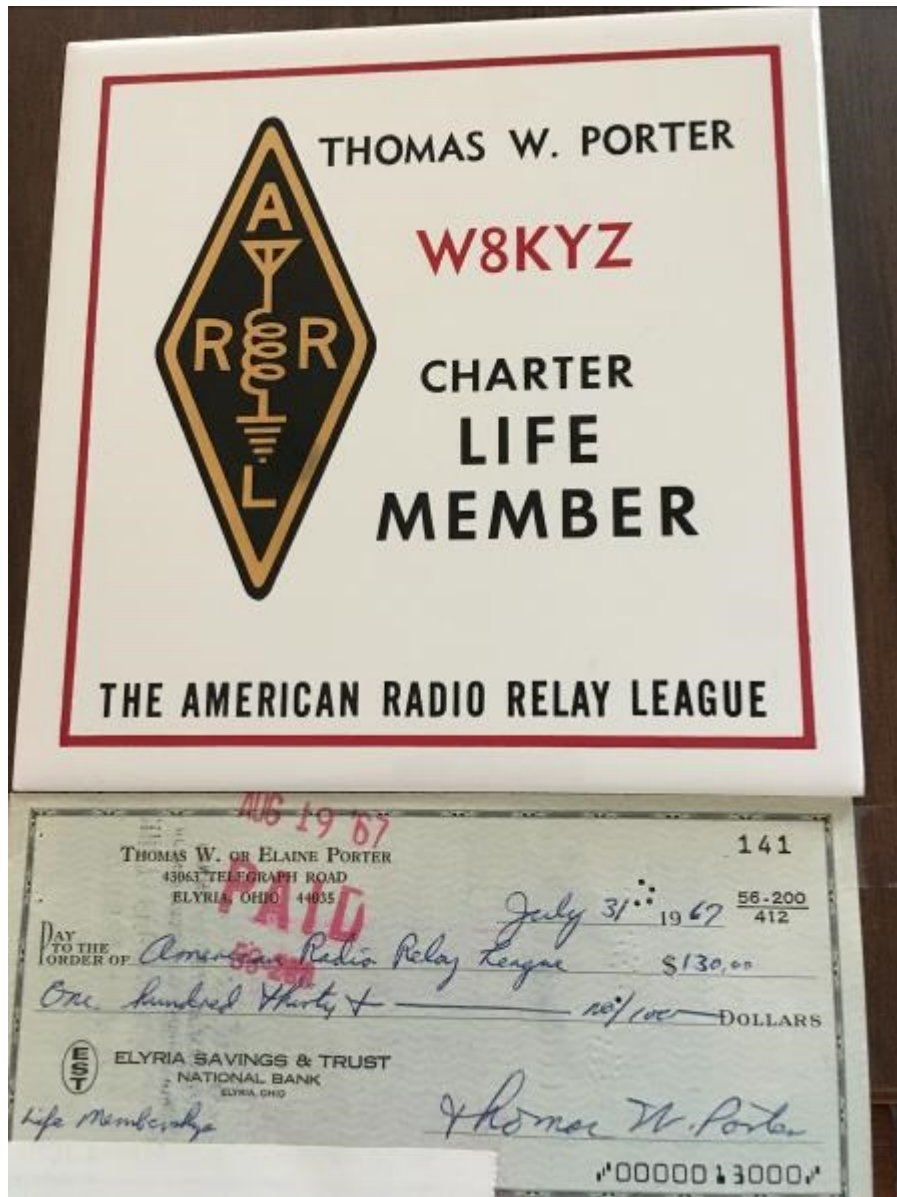
Due to the Covid-9 pandemic and the uncertainty of the CDC and State of Ohio protocols in the coming months, the NOARS Board of Directors has chosen to take the safest route and cancel the 2020 NOARSfest, which was

scheduled for Saturday, July 18, 2020 at the Lorain County Community College.

We hope that we will see you at the 2021 NOARSfest.

Tom Porter, W8KYZ's, Charter Life Membership in ARRL

Tom calls it the best amateur radio investment he ever made for \$130.00 in 1967.



Upcoming Social Events

July

Virtual NOARS Lunch Tuesday, July 7

Join us on **Zoom at noon** for our fourth Virtual NOARS lunch.

Second Gathering of Family and Friends

Now that restaurants have re-opened, a few of us will get together at **Golden Corral in Elyria on Thursday, July 2 at noon**. The restaurant takes precautions to keep customers and staff safe. This does not replace the NOARS Tuesday Virtual Lunches but is in addition to them. Please let Elaine, KC8FOS, know if you will join us. ewilkinson1951@gmail.com or call 216-337-4235.

Welcome to New and Returning Members

Pete, KE8NQQ, hails from North Ridgeville. Pete received his amateur radio license in December 2019. Welcome, Pete!

Erik, KD8RNF, is a former member and returns to NOARS. Erik resides in Birmingham, OH and received his license in January 2012.

NOARS July 20 Meeting Will be Held on Zoom

Below is information sent by Carl. W8KRF in an email.

What do I need to participate in a zoom meeting?

You will need a computer or device with a webcam and microphone to participate in a Zoom session. If you do not wish to have an account, all you'll need to do to participate is click on the link for the class that your contact will send to you via an email invitation.

Do you have to have a zoom account to join a meeting?

A Zoom account isn't required to attend a meeting. Users do need a Zoom account to host a meeting. ... Anyone can join a meeting using the Zoom mobile apps or desktop applications for Windows and Mac.

Do you need a webcam for zoom?

Do I have to have a webcam to join Zoom? You are not required to have a webcam to join a Zoom group video call. You will not be able to transmit your video. You will continue to be able to listen to video calling and view any screen sharing.

How long is a free Zoom meeting?

With the free version of Zoom, users can hold an unlimited number of meetings, but group meetings with multiple participants are capped at 40 minutes in length, and meeting can't be recorded.

Food Group Net

The Food Group is held every Wednesday evening on the 146.700 repeater at 7 PM. The conversation is not just about food – we talk about many things, including

amateur radio issues, books, tales from our childhoods, current projects, family happenings, and more. We hope you can join us.

July Birthdays

Harold, K8HRD
Tom, K1TRB TOM
Bob, W8OOT
Steve, W8ANJ
David, KD8MXE

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!



Membership Zoom Meeting Attendance June 15, 2020

Dave, W1AFC	Chris, KD2HCE	David, KE8MVS	Tom, K1TRB
Dan, W8AJF	Harold, K8HRD	Jack, N8NDL	Bill, K2WJS
Al, N8CX	Roger, AB8IF	Bob, W8NNC	Ann, KA8ZEP
Steve, WA0DVY	Robert, WA8JBT	Jim, KD8OCW	Anthony, K8ZT
Bill, AC8FD	Chet, K8KIZ	Dave, KY8OSU	
Tom, N8FDY	Carl, W8KRF	Tom, W1PDI	
Elaine, KC8FOS	Tom, W8KYZ	Erik, KD8RNF	

Heard on the Nets in June

Jeff, K8ACF	Chis, KD2HCE	Jeff, KE8NSD	Dave, N8RRC
Dan, K8AGW	Roger, AB8IF	Jim, KC8OCW	Russ, WB8UPA
Fred, N8AHS	Bryan, W8JMI	Ron, N8OD	Bill, K2WJS
Dan, W8AJF	James, N8JYS	Jeff, KE8OLV,	Bill, N8WS
Ray, KA8BPU	Dan, K8KGX	Bryan, N8OOF	Tom, W8WLI
Rick, WA8CAC	Carl, W8KRF	Dave, KY8OSU	Bernie, KC8YJB
Connie, K8CCS	Tom, W8KYZ	Dave, WV8P	George, WA8YVF
Bruce, K8CSI	Rick, KD8LQU	Mike, N8PJD	Ann, KA8ZEP
Robert, NW8D	Alex, KE8MQH	Alan, KF8PM	Jeff, KB8ZUN
Chris, KF5EMC	Linn, KD8NGE	Clark, N8PZD	
Lee, WA8ERA	Pete, KE8NQK	Erik, KD8RNF	

July 2020

Sun

Mon

Tue

Wed

Thu

Fri

Sat

			1 Food Group 7PM 2M NCS Dave, KY8OSU	2 2M Net 8 PM • NCS Elaine, KC8FOS • Gath of Fam and Fr	3	4
5	6	7 10M Net 8 PM - NCS Elaine, KC8FOS Zoom Lunch	8 Food Group 7PM 2M NCS Elaine, KC8FOS	9 2M Net 8 PM - NCS Tom, W8KYZ	10	11
12	13	14 10M Net 8 PM - NCS Tom, W8KYZ	15 Food Group 7PM 2M NCS Dave, KY8OSU	16 2M Net 8 PM - NCS Carl, W8KRF	17	18 Fox Hunt Train- ing 11 AM
19	20 NOARS Zoom On Line Meeting 7 PM	21 10M Net 8 PM - NCS KY8OSU	22 Food Group 7PM 2M NCS Elaine, KC8FOS	23 2M Net 8 PM - NCS Dave, KY8OSU	24	25 Fox Hunt for Beginners 11 AM
26	27	28 10M Net 8 PM - NCS Tim, NC8X	29 Food Group 7PM 2M NCS Dave, KY8OSU	30 2M Net 8 PM NCS Carl, W8KRF	31	

Report on June 17 Fox Hunt

A small but mighty group gathered at North Mastick Picnic Area in the Cleveland Metroparks for the first NOARS Fox Hunt. We all had a good time, talking and hunting

the fox. Look for information about the July Fox Hunt in the Social Events section of this newsletter. All are welcome.



June 15, 2020 Zoom Meeting Minutes

Submitted by NOARS Secretary Elaine, KC8FOS.

This was the third Membership Meeting held over Zoom, a video conferencing platform, used during this era of Covid-19 with its continuing need for social distancing.

Twenty-five people were in attendance.

Since the program preceded the business meeting, the meeting was brought to order by club president Carl, W8KTF, at 8:16 PM.

A motion to accept the May meeting minutes, as they were published in the newsletter, was made by Carl, W8KRF, seconded by Al, N8CX. The motion passed.

Treasurer's Report: Tom, W8KYZ. The only expense was Windstream for \$70.49. Balance reported. There were no questions. Tom, W8KYZ, made a motion to accept the Treasurer's Report, seconded by Dave, KY8OSU. The motion passed.

Repeaters: Carl. The repeaters seem to be OK. QRM continues during the nets. Carl shuts down the repeater when needed. Contact Carl if the repeater is off for an extended time as it may be unintentionally left off.

Website: Carl. No problems.

Membership: We currently have 83 members. Two members joined this month: New - Pete, KE8NQQ and returning – Erik, KD8RNF.

Social Committee: Elaine, KC8FOS. Nine people attended the June Gathering of Family and Friends at Golden Corral in Elyria.

Programs: Carl suggested that we have Tony back to do something for us in the future. Elaine will contact him about that.

Field Day: Will be discussed later in the meeting.

NOARSFest: Carl. NOARSfest has been canceled. Tom, W8KYZ notified the ARRL and Jose, our contact at LCCC.

Sunshine: Tom Porter gave a short update on Bob Tome, W8RET. Dave, KY8OSU, added that Bob may have visitors. Bob needs to be notified ahead of time and can meet visitors somewhere near the front door.

Nets: Elaine. It has recently been a little frustrating to hold the nets since "our little friend" has been interfering. All in all, however, the nets have been doing well. Participants have been patient.

VE Testing: In-person testing will resume after July.

Newsletter: Tom, N8FDY. Please submit items by June 25th, including things for sale.

Old Business:

Field Day. Carl says we need to decide our club name for reporting the Field Day score. Decision was made that club name needs to be NOARS when individuals submit their Field Day scores to the ARRL. Carl will send an email with info about it. File your log yourself, do not submit to Al, N8CX, submit to ARRL. Al said it's easy to submit logs. It's a matter of answering questions and filling in the blanks. Carl says since we won't be operating as a group, we need to use our own call signs when transmitting during Field Day. This is why it's important that everyone uses the same club call sign when submitting our logs. Carl demonstrated Field Day logging software from N3FJP, including a club score processor.

Carl will lead a Pre-Field Day meeting on Zoom on Saturday, June 20th at 10 AM.

Repeater Interference. On a net night, after checking in, if there is interference, listen on the input and make a note of how strong the signal is. We may be able to get an idea of where he may be from the signal strengths. A foxhunt was discussed, partly to begin to find whomever is causing QRM on the repeater. We will have a foxhunt on Thursday, June 18, the place to be determined by the Social Committee.

Comments. Bill, K2WJS, concerning the person jamming the nets: Don't talk about it before or after the net. It just makes a thing of it. It's best to not say anything.

Jack, N8NDL: Dr. Jack has provided free antennas as door prizes at NOARSfests. Since fests have been canceled, he asked Carl if there were anything else to be done. Carl suggested having a drawing at the Holiday Banquet to win a free antenna. Dr. Jack said his 2M tri-band is very popular, so is a good choice. The drawing will be done using a database of attendance at meetings. The more often one attends meetings, the great chance they have of winning.

Comments: Dave, KY8OSU reminded us of the 10 m net Tuesday, Food Group on Wednesday, and the 2 m net

(Continued on page 10)

on Thursday. All are welcome.

Tom, W8KYZ, suggested that while listening on the input, if you don't hear the jammer, let Carl and Tom know. Carl suggested we not discuss this on the nets or on the air. Tom advised that the next time he is NCS of

the 2 M net, he will take check-ins only and no comments, if there is a problem.

Adjournment. Motion to adjourn the meeting was made by Tom, W1PDI, seconded by Chris, K2HCE. The motion passed. Meeting was adjourned at 8:59 PM.



Looking for a good deal?



Free from Harold, K8HRD

Mosley TA-33 Beam Antenna (10/15/20). Must take down from tower.

Contact Harold at 440-322-3770.

Newsletter Submissions

Email submissions for the Log to 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.

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 10 am – 8 pm, Monday-Saturday and 10 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.

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

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



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20 YEARS
2000-20**



For Sale by Sandy, W8KYS

Hallicrafters S-40A Receiver. All band and continuous tuning. Has been recapped. Best offer.

Hy-Gain Tailtwister Rotor. Rebuilt by C.A.T.S. \$275.00.

Contact Sandy, W8KYS, 440-647-2255.

For Sale by Bill, WD8OSJ

Kenwood TS-830 HF Transceiver. Has all filters. Manual. \$300 or best offer.

Kenwood AT-230 Antenna Tuner for TS-830. \$75.

Kenwood VFO-230 FOR TS-830. \$75.00

Contact Bill at 440-522-4622

For Sale by Tom, W8KYZ

Bird 43 Wattmeter Elements

25w....400-1000MHz

100w....25-60 MHz

100w....100-250 MHz

100w....400-1000 MHz

\$40.00 each

Power Supplies

Diawa PS14011 10amp. \$30.00

Herald BA-45A 4 amp 10.00

Sharp AD112 12v dc, 60 Hz, 40 watt. \$10.00

Antennas

Larsen 2 Meter LM-MM mag mount and LM-150 coil. 5/8 wave. \$40.00

Larsen 10 Meter NMO-MM mag mount and NMO-27 coil. \$40.00

Larsen Antenna "grab bag". Includes three NLA 220 coils/1 LM-150 coil/other parts. \$25.00

MFJ-1717S 2/440 HT antenna with male SMA connector. 15" long. \$20.00

2 meter J-pole. \$5.00

New VHF Yagi vertical: Nil-Jon HD-146-V3-U. Assembled. \$30.00

K40 CB mag mount with antenna. \$40.00

2 meter Expert Power HT antenna. SMA connector. \$3.00

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



For Sale by Harold, K8HRD

Complete Icom Station:

IC-746PRO. 10-160 meters, 6 and 2 meters. 100 watts

IC-125 25 amp matching power supply

IC-21 matching speaker.

Original boxes, manual, mic.

\$1,050, or best offer.

Icom IC-2100H. 5/10/55 watt. Manual, original box, mobile bracket. Receives 136-174 MHz. Transmits 144-148 MHz. \$55.00, or best offer.

AmeritronRCS-8V. Remote 5-antenna coax switch using 1 coax to transceiver. Includes 48 ft of 8 conductor hookup wire and 28 ft of RG213U coax. \$175.00.

Contact Harold at 440-322-3770.

Tower and Antenna Parts for Sale

Tim Holmes' tower with antennas came down in a tornado in Medina county. He would like to sell undamaged and salvageable items:

- Twenty feet of undamaged tower sections
- Ten-foot tower section, slightly bent at the bottom
- Rotor (believes still works)
- Parts of a broken mast which may be salvageable
- Possibly salvageable parts of a 6-meter beam antenna
- 3-element tribander with some bent elements which could be salvaged and rebuilt, or made into rotatable dipoles
- Fragments of a 2-meter beam
- A tiny 440 beam which has never worked
- Rotor controller
- Other sections of tower of unknown type
- Rotatable dipole
- Bunch of cables
- Big box of assorted ham stuff.
- Tim is asking \$200 or best offer for the lot of it. He's carefully taking the pieces apart so they should be in decent shape. You will need to pick it up

Contact Tim via e-mail: taholmes160@gmail.com

Estate sale, Ron, W8GMH SK

Contact Bob Adornetto, 440-382-6710, mrhoop01@sbcglobal.net

Mostly all the equipment has manuals located in top lid or small file cabinet next to the tall cabinet.

Ameritron AL-1500 amplifier with EBS-1 add on board with manual: \$2000.00

Yaesu FT-990DC transceiver with 250 cycle filter and manual: \$600.00

Yaesu speaker SP-6: \$90.00

Heights 40ft alum crank-over tower with mast and rotor shelf: \$450.00

Hy-Gain antenna TH6DXX, must remove from tower: \$175.00

Hy-Gain Ham IV rotator & rotor box with upgraded cable connector, must remove from tower: \$150.00

Heathkit SA-2060 ant tuner: \$175.00

Drake W-4 wattmeter: \$60.00

Heathkit DX-100 (works, needs fuses in plug): \$50.00

Heathkit AT-1 (works) (collectable): \$75.00

Icom power supply IC-PS30: \$125.00

Ameritron antenna switch RCS-4 with connector box under patio awning: \$50.00

Alinco 2m/440 transceiver DR-590 with separation kit: \$100.00

Alinco 2m/440 transceiver DR-590 (2nd one): \$75.00

Kenwood 2-meter transceiver TR-7800: \$40.00

Kenwood 2-meter transceiver TR-7800 (2nd one): \$40.00

Heathkit antenna tuner AC-1 (collectable): \$50.00

Heathkit wattmeter HM-2140 (collectable): \$40.00

Heathkit wattmeter HM-2141 (collectable): \$40.00

Heathkit swr bridge AM-2 (collectable): \$20.00

Yaesu microphone MD-1 with eil HC-4 DX

Dream machine cartridge: \$100.00

Cushcraft R-7 vertical antenna hanging up in garage as a bundle: \$100.00



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

For Sale by Dave, WV8P

Icom 703, QRP rig. Does not have six meters. 250 Mhz filter installed and a 500 Hz to install later.

Automatic tuner with an extra cable to use if installing it in a car.

Samlex power supply.

All items are in a hard case, ideal for travel. \$500

Contact Dave, WV8P at wv8p@roadrunner.com

NOARS Information

Members of the Board of Directors

President: Carl, W8KRF

Vice President: Dave, KY8OSU

Secretary: Elaine, KC8FOS

Treasurer: Tom, W8KYZ

Others: 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

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 44012.

Meetings

Meetings are held at 6:30 p.m. on the third Monday of every month, except August and December, 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, Wednesday nights at 7 pm on 146.700 MHz, and Thursday nights at 8 pm. on 146.700 MHz. All licensed amateurs are welcome.

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, W8DYZ;
Bob, W8NNC; Dave, KY8OSU

Social Committee: Elaine, KC8FOS; Dave, KY8OSU;
Ann, KA8ZEP

Public Relations Committee:
Dave, KY8OSU; Elaine, KC8FOS



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.

Net Control Stations

Elaine, KC8FOS

Carl, W8KRF

Tom, W8KYZ

Dave, KY8OSU

Tim, NC8X