

# **NOARS** Log

SPECIAL SERVICE CLUB

May 2020

## **K8KRG**

Volume 56, Issue 5

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## **Prez Sez**

So, how is everyone doing with their physical distancing? We are doing okay here. Jamie has been working from home for over a month now and things are going good. I spend a good portion of my time in the shack working on various projects. I have my Field Day Go Box working nicely in all digital modes with automatic logging. I've made several PSK and FT8 contacts. My plan is to operate as a 1E for Field Day in the back yard. I replaced the Kenwood TS-2000 with the Yaesu FT-857 that I had installed in my previous car. I decided not to put in it in the 2020 Ascent. I have also been refining my Fox using a Baofeng UV-5R. It is ready to go. I am hoping if things relax a bit in May or June, we could have a luncheon

gathering at a park as suggested by Elaine, KC8FOS, and have a short Fox Hunt practice session. Of course, should we decide to do this, it will be within any CDC or Ohio Health Department guidelines and restrictions. That would be fun. I am sure Elaine will have more on that in the future.

We gained five new members this month so I welcome them. They will be listed in the NOARS Log so I will not name them here.

We had 19 check-ins to our Zoom Membership Meeting on Monday, April 20th. From my end, it seemed to go very nicely and it was great to see everyone. We had a guest this month. Christopher

(Continued on page 2)

## May 18, 2020 Virtual Meeting on Zoom at 7 PM

It's easy to sign on. Look for information on page 2 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.

(Continued from page 1)

KG5WVC, who checks into our nets from Texas using EchoLink, asked to join us for our Zoom meeting. Maybe his dad, John K8JWS, will join us sometime from New Mexico. I have received a suggestion that when the business portion of the meeting has ended, we could all

leave the meeting and rejoin using the same Meeting ID and Password giving us another 40 minutes for a program or informal discussion. I am open to any comments.

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

## Vice President's Message

Well, here we are at the start of spring, maybe? Or summer? It's been quite a year and it's only just begun, it seems, but the "virus" made it seem twice as long and like it's gone on forever. But, there may be hope yet. Field Day is in two months and unless the ARRL cancels this event, and with the easing of social distancing, I am planning on being at Indian Hollow Reservation with my fellow Amateur Radio Operators, June 27th & 28th. Some want to call it off, but with proper precautions, I

feel it is needed and desired by most operators and should be held as usual. Those who don't want to attend can do as they feel best. Field Day is more than just making contacts and scoring points; it is a bonding of Hams, a social event, and a public demonstration of the need for Amateur Radio Operators and what they can do to help in an emergency for public good. I certainly intend on being there and operating, unless prevented by authorities.

## NOARS May 18 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.

## Welcome, New Members!

David Novotny, N8RRC in Elyria

James Laing, W8MCR in North Olmsted

Family Membership for the Molseed family in Fairview Park

David Molseed, KE8MVS Zackery Molseed, KE8MVR Elijah Molseed, KE8NES

## **Social Events Canceled and Postponed**

Due to the need for social distancing at this time, the May NOARS Monthly Lunch has been canceled.

The April 18 Fox Hunt event, an informational and antenna build get-together, was postponed. The actual

Fox Hunt, scheduled for May 16, will also be postponed. Have no fear, the Fox Hunt events will happen when the current Covid-19 experience is behind us. And it will, at some point, be behind us.

## **Hamvention QSO Party**

The <u>World Wide Radio Operators Foundation, Inc.</u> in cooperation with the Hamvention organizers have established the Hamvention QSO Party on May 16, 2020 from 8 A.M. to 8 P.M. Check the info webpage at <a href="https://wwrof.org/hamvention-qso-party/">https://wwrof.org/hamvention-qso-party/</a> for the contest details.

## The Scoop on Field Day 2020 and the ARRL

Will there be a Field Day? The answer is, who really knows?

According to the ARRL website, "Since the impact of the coronavirus outbreak has been very different in different parts of the country, we recommend that all amateur radio clubs participating in Field Day be in regular contact with their local or state public health officials for their advice and guidance on hosting Field Day activities." Also, "Local club officials are the most appropriate people to be making decisions about their specific Field Day programs. We are all concerned about protecting the health and safety of those participating in or attending Field Day activities, and so we trust local

club officials to take the appropriate steps to monitor local conditions and make decisions in the best interest of their communities. ARRL officials strongly believe that following the guidelines of local, state and national health care professionals will help ensure everyone's safety in the coming weeks and months"

There is a link to a document called, "Creative Approaches to Field Day 2020," with alternatives to an in person gathering for Field Day.

Changes may happen in the eight weeks until Field Day. For up-to-the-minute information, go to <a href="http://www.arrl.org/field-day">http://www.arrl.org/field-day</a>

## Remote Testing in Texas, Using Zoom

How can anyone test for a license during these times of social distancing? Larry Pollock, NB5X, is a Volunteer Exam Coordinator for W5YI, out of Arlington, Texas. He discusses, with Gordon West on Ham Nation, how the

group administers remote testing using Zoom. The interview is on Ham Nation episode 448, starting at 20:24 minutes.

## **NOARS** featured on Ham Nation 451

Thanks to Tom Miller, W1PDI for contacting Bob Heil, K9EID to arrange to have NOARS on the Club Spotlight segment of Ham Nation. Link to the segment about NOARS: <a href="https://youtu.be/H0bcFA9xjcw?t=2528">https://youtu.be/H0bcFA9xjcw?t=2528</a>.

## **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.

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## May Birthdays - Happy birthday!

George, WA8YVF

Bob, W8RET

Ronald, K8VJG

Linn, KD8NGE

Scott, WE6HTH

Dan, 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!



## Membership Zoom Meeting Attendance April 20, 2020

Dan, W8AJF Harold, K8HRD Dave, N8RRC Ann, KA8ZEP

Tom, KE8BTR Carl, W8KRF Tom, K1TRB Steve, WA0DVY Bob, W8NNC Bill, K2WJS Bill, AC8FD Jim, KD8OCW Bill, N8WS

Tom, N8FDY Bob, W8OOT Chris, KG5WVC

Elaine, KC8FOS Tom, W1PDI Tim, NC8X

## **Heard on the Nets in April**

Dave, W1AFC Mark, KC8FQV Jim, W8MCR Alan, KF8PM

Dan, K8AGW Jody, KE8GKO Alex, KE8MQH Eric, KD8RNF

Fred, N8AHS Chris, KD2HCE Dave, KD8MXE Tony, KB8TK

Dan, W8AJF Bryan, W8JMI Linn, KD8NGE Russ, WB8UPA

Rich, KD8AJZ John, K8JWS Jeff, KD8NSD Mike, K8USN

Ray, KA8BPU Sean, KD5JXF Jim, KD8OCW Bill, K2WJS

Rich, WA8CAC Keith, KBKBZ Ron, N8OD Tom, W8WLI

Robert, NW8D Dan, K8KGX Bryan, N8OOF Bill, N8WS

Ed, W4EAC Carl, W8KRF Bob, W8OOT Chris, WG5WVC

Lee, WA8ERA Sandy, W8KYS Bill, WD8OSJ George, WA8YVF

Mike, KE8ETO Tom, W8KYZ Dave, KY8OSU Ann, KA8ZEP

Tom, N8FDY Rick, KD8LQU Tom, W1PDI Jeff, KB8ZUN

Alan, KF8PM Bill, N8LXY Clark, N8PZD

Elaine, KC8FOS John, KE8MAI Dave, WV8P Page 4

# May 2020

Wed

Sun

Mon

Tue

Thu

Fri

Sat

					1	2
3	4	5 10M Net 8 PM - NCS Elaine, KC8FOS	6 Food Group 7PM 2M	7 2M Net 8 PM - NCS Elaine, KC8FOS	8	9
10	11	12 10M Net 8 PM - NCS Tom, W8KYZ	13 Food Group 7PM 2M	14 2M Net 8 PM - NCS Tom, W8KYZ	15	16 Hamvention QSO Party 8 AM - 8 PM
17	18 NOARS Zoom On Line Meeting 7 PM	19 10M Net 8 PM - NCS KY8OSU	20 Food Group 7PM 2M	21 2M Net 8 PM - NCS Carl, 8KRF	22	23
24	25	26 10M Net 8 PM - NCS Tim, NC8X	27 Food Group 7PM 2M	28 2M Net 8 PM - NCS Dave, KY8OSU	29	30
31						

## The Right Tool for the Right Job

#### By Tom, N8FDY

My grandfather worked as a machinist at a factory that primarily made galvanized pipe. In my early teens he would tell me many times, "the right tool for the right job," as he showed me how to use many tools. I have always had problems soldering UHF connectors to coax cable, but in 2016 I discovered crimp on connectors thanks to Jim, W6LG Youtube channel. He coincidently had a little online store that sold the tools and connectors. I had a 60% success rate using his tools and connectors, better than my previous solder jobs, but still I used up almost two connectors for every one that worked. During the COVID-19 shutdown I started playing around with electronics again and bought more test equipment. I needed test cables with UHF, BNC and N connectors on them. I checked out DX Engineering's custom cable service; it starts to add up when you want 10 different custom cables. While I was on their web site I discovered DX Engineering new coax cable prep tools for crimp on connectors.



They also sell Amphenol crimp connectors. When the new tools showed up, I made 5 test cables using DXE-8X coax with UHF, BNC and N connectors. I only had one failure out of the 10 connections, and that was all my fault, so I now have a 90% success rate using the new tools on the first try.



The DX Engineering documentation on using the tools and what connectors and cables are compatible is particularly good. You will also need a crimp tool. I already had one from DX Engineering from a few years ago.



If you are interested in switching to crimp connectors, I recommend you give the DX Engineering tools a look.

## A Little Something from Chet, on Antenna Removal

https://www.facebook.com/therealtrollco/videos/745440755900250/



## Long-Lost U.S. Military Satellite Found by Amateur Radio Operator

#### NPR 4/24/2020 article submitted by Chet, K8KIZ

https://www.npr.org/2020/04/24/843493304/long-lost-u-s-military-satellite-found-by-amateur-radio-operator
There are more than 2,000 active satellites orbiting
Earth. At the end of their useful lives, many will simply burn up as they reenter the atmosphere. But some will continue circling as "zombie" satellites — neither alive nor quite dead.

"Most zombie satellites are satellites that are no longer under human control, or have failed to some degree," says Scott Tilley. Tilley, an amateur radio operator living in Canada, has a passion for hunting them down.

In 2018, he found a signal from a NASA probe called IMAGE that the space agency had lost track of in 2005. With Tilley's help, NASA was able to reestablish contact. But he has tracked down zombies even older than IMAGE.

"The oldest one I've seen is Transit 5B-5. And it launched in 1965," he says, referring to a nuclear-powered U.S. Navy navigation satellite that still circles the Earth in a polar orbit, long forgotten by all but a few amateurs interested in hearing it "sing" as it passes overhead.

Recently, Tilley got interested in a communications satellite he thought might still be alive — or at least among the living dead. LES-5, built by the Massachusetts Institute of Technology's Lincoln Laboratory, was launched in 1967.

Tilley was inspired by another amateur who in 2016 had found LES-1, an earlier satellite built by the same lab. What was intriguing to him about LES-5 was that if it was still working, it might be the oldest functioning satellite still in geostationary orbit.

By scouring the Internet, he found a paper describing the radio frequency that LES-5, an experimental military UHF communications satellite, should be operating on — if it was still alive. So he decided to have a look.

"This required the building of an antenna, erecting a new structure to support it. Pre-amps, filters, stuff that takes time to gather and put all together," he says. "When you have a family and a busy business, you don't really have a lot of time for that," he says. But then came the COVID-19 pandemic.

British Columbia, where Tilley lives, was on lockdown. Like many of us, suddenly Tilley had time on his hands. He used it to look for LES-5, and on March 24, he hit the ham radio equivalent of pay dirt.

"The reason this one is kind of intriguing is its telemetry beacon is still operating," Tilley says.

In other words, says Tilley, even though the satellite was supposed to shut down in 1972, it's still going. As long as the solar panels are in the sun, the satellite's radio continues to operate. Tilley thinks it may even be possible to send commands to the satellite.

The MIT lab that built LES-5 still does a lot of work on classified projects for the military. NPR contacted its news office to ask if someone could say more about LES-5 and whether it really could still receive commands.

But after repeated requests, Lincoln Laboratory finally answered with a "no comment."

It seems that even a 50-year-old zombie satellite might still have secrets.

Thanks, Chet, K8KIZ for submitting this!

## **April 20, 2020 Zoom Meeting Minutes**

#### Submitted by Elaine Wilkinson, KC8FOS.

This was the first Membership Meeting held over Zoom, a video conferencing platform. The decision was made by the Board of Trustees to hold the meeting on Zoom, in an effort to adhere to directives from the United States Centers for Disease Control. We are currently in an era of not meeting in large groups, to help stem the spread of SARS CoV-2, which causes Covid-19.

Comments before the meeting: Carl, W8KRF, announced that Chris, KG5WVC is with us tonight, from Texas. Dave, N8RRC, a new member is with us for the first time tonight. Dave, KY8OSU, talked briefly about the viewing of Dave Kennett, W8KFJ, SK, who recently passed away. Due to current circumstances with Covid-19, it was a drive-through viewing. Everyone stayed in their cars and drove past the doorway to the funeral home where the family was standing, to pay their respects and condolences. Carl will run the meeting as close to a regular meeting as possible. He will make motions and look for people to second them by raising their hand.

The Pledge of Allegiance was dispensed with, as there was no flag.

The meeting was called to order at 7:05 PM by President Carl, W8KRF. Nineteen members and one guest were in attendance.

Carl made a motion to accept the March meeting minutes, as they are printed in the Log. The motion was seconded by Tom, W1PDI. The motion passed.

Treasurer's Report – Carl. Treasurer Tom, W8KYZ not present. April expenses were for Windstream for the Internet at the repeater site. The cost went up just a bit since they increased us from 25 Mb to 50 Mb. The fee is now \$70.65. Payment was made to HostGator for repeater security. We made a \$50.00 donation to Fields United Methodist Church in memory of Dave Kennett, W8KFJ, SK.

**Repeaters** – Carl is not experiencing any difficulty with them. They are working OK. Carl is able to access the repeater with his phone to make necessary changes.

**Website** – Is working well. Carl displayed the website digitally, to answer any questions. He reviewed where to sign in and the members only section and demonstrated how to access the newsletters.

**Membership** – Two new members: Dave Novotny, N8RRC, who is in attendance tonight and James Laing, W8MCR. We currently have seventy-eight members.

**Field Day** – Al, N8CX not in attendance. Carl stated that it looks like we will not have an in-person Field Day. The ARRL suggests that we not have Field Day. Carl is setting himself to be a 1E in his back yard. Go to the ARRL Website for information. Carl is not planning on Field Day unless there is a drastic change with Covid-19, not until there is a vaccine.

Social Committee – Elaine, KC8FOS. Any social events are up in the air right now. It is uncertain when we will be able to have in-person monthly lunches, but continuing with Zoom lunches would be good. Meeting at a park was discussed. We would stay six feel apart while we eat picnic lunches we bring for ourselves. We could use HTs to talk. Some people said they would participate. We will send an email.

Hamfests - Carl. We may not have any for awhile, but it's a little early to make that decision right now. There was a question about having one in the fall. However, we can't just change is since we have a contract with the college (Lorain County Community College.) We will wait until closer to the July hamfest and contact the college to see if they have any restrictions. Later in the meeting, after the Newsletter portion, Ann, KA8ZEP, said LCCC is closed until this fall. Carl said Governor Dewine said no schools are opening this year.

**Sunshine** – Tom, W8KYZ (Treasurer) sent a donation to Fields United Methodist Church in memory of Dave Kennett. The club send a card to Dave Kennett's wife, Juanita.

**VE Team** – There is no VE until this all goes away.

**Newsletter** – Tom, N8FDY. The deadline to submit items to the Log is April 25.

Comments; Chris expressed enjoyment of amateur radio and said he hopes John, his father, can make it to a Zoom meeting. John is laid up with an injured ankle, so couldn't make it today. Dan, W8AJF asked if we can use the club call sign, W8KRG if we operate in our back yard. Carl said no. The ARRL says we all have to be within a thousand feet. If not, we'd be breaking the rules of Field Day. Use your own call and work out of your own

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property.

Carl demonstrated more how to use NOARS website, including how to access newsletters, and how to sign in to get to the members only section. He showed how to see photos, including silent keys. Demonstrated posts. Anyone who is a member and signs in can make a post. Also showed the calendar, which includes nets and who the net controls are.

Dave, KY8OSU said the funeral home mentioned they were going to have a silent key ceremony. Dave also

gave his opinion that unless the Field Day is banned, we should have Field Day as usual. Others disagreed. Dave suggested we talk about it, closer to the time. Carl agreed we can talk about it later.

**Program** – Carl is not so sure about what we can do with programs. demonstrated more on how to use the website.

Bob, W8OOT made a motion to adjourn the meeting. The motion was seconded by Dan, W8AJF. The motion passed. The meeting adjourned at 7:45.

#### **Newsletter Submissions**

Email submissions for the Log to <a href="mailto:noarslog@noars.net">noarslog@noars.net</a>. 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.

## Looking for a good deal?



Free from Tom, W8KYZ

MFJ - 1811 scanner/receiver telescopic antenna. 1.8-1800 Mhz.

800 foot spool 22/4 conductor wire. New. Great for home doorbell, indoor/outdoor security systems, outside video, or weather station hookups.

Sangean ATS-803A portable all band receiver. Manual, ac adapter, and all parts. Does not work.

Olson Electronics S-677 Air Speaker.

## **Free Desk and Operating Table**

From the Estate of Mark Lewis, K8WON SK

Sauder desk and table. 30 inches high by 43 inches wide by 20 inches deep. 70 pounds. Two drawers.

Pick up in Avon Lake, Ohio.

Contact Tom, W8KYZ. 440-320-5523.

## **The DX Engineering Retail Showroom**

More products on the shelves—get hands-on with the newest radio gear!

- Friendly service
- · Expert tech advice from active Hams
- · Open-box deals
- · Free product brochures
- · Easy return processing

#### Come See Us!

Retail Showroom is Open 9 am to 5 pm, Monday-Saturday.

Even when the showroom is closed you can order items at the Cashier:

Monday-Saturday: 9 am to 9 pm Sunday: 9 am to 7 pm

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







# From the Estate of Mark Lewis, K8WON SK For Sale (Funds will go to the family)

G5RV Junior multi-band antenna. 52 feet, covers 40-10 meters with tuner. Handles 1500 watts. \$25.00 Yaesu FT-450D HF and 6 meters. Koss headphones, manual, and MH-31 mic. \$425.00 or best offer. Centech 7 digital multimeter. With battery and test leads. \$5.00

Baofeng UV-6R. 2/440 HT with Nagoya NA-320A antenna, as well as a rubber duck antenna. Manual. \$35.00. Contact Tom, W8KYZ. 440-320-5523 or w8kyz@outlook.com.

## **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

## For Sale by Tom, W8KYZ

Uniden Bearcat Scanner. BC9000XLT. Manual, indoor antenna, ac p/s. \$55.00.

Yaesu 7800 mobile separation kit. New. \$10.00

Larsen Antenna Grab Bag. Includes 3 (three) NLA 220 coils, 1 (one) LM-150 coil and NLA-MNT rubber gasket, plus other parts. \$25.00

MFJ 1717S dual band 2 M/440 HT antenna. SMA male connector. \$20.00

VHF Yagi vertical antenna. Nil-Jon HD-146-V3-U. assembled/manual. NEW. \$25.00

2 meter J-pole antenna. Made by NOARS members. \$5.00

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

## 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

## 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

## For Sale by Sandy, W8KYS

Drake T4XC Transmitter 160 to 10 meters. \$200.00.

Hallicrafters S-40A all-band receiver, including AM. Best offer.

Contact Sandy, W8KYS at 440-647-2255.

## 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

#### **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

#### 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

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.



#### **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