



NOARS Log



August 2018

K8KRG

Volume 54, Issue 8

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Prez Sez

Take 2 steps forward. WRONG, Simon did not say, so go back. This is what seemed to happen at Field Day 2018. We had a good planning and Pre-Field Day Meeting, except we did not bring our computers, Etc. and update to the new software to be prepared to hit the ground running at 2:00PM on Field Day to start making contacts and logging them. I was not even aware of updated software. This will not happen next year as Carl W8KRF has assured us. This will be addressed and taken care of at next year's Pre-Field Day Meeting. Also, one person had not checked his radio since last year (it would only blink). I attempted to help, but the replacement radio I lent him had a defective mic and wouldn't transmit. But in spite of this, more contacts were made than last year. Everything went well, except the two mentioned problems.

The one major change for next year, the

person assigned to each band, will be called "Band Manager". They will be asked to schedule other volunteer Hams to help work their assigned band, using the already set up station (by the Band Manager) so as to increase the number of contacts and boost our score. We know one person can't be on the air for 24 hours. To do this, many more members of NOARS and LCARA will need to volunteer to work various bands, but without the need and work to set up a station in the field. All that they will need to do is tell the Band Manager the time they can work that band. All that each member needs to do is volunteer from ½ hour to several hours, get on the band schedule with each Band Manager, and show at the allotted time as per the schedule and work the band. In this way, many members will be able participate and enjoy the camaraderie of other members at no cost and minimal effort, while giving great help to the NOARS / LCARA FIELD DAY effort.

August 20 Picnic at the Duck Pond

August Picnic

Monday August 20, 2018

NOARS Picnic at 6 PM at the Duck Pond on Nickle-Plate Diagonal Road in the Carlisle Reservation of Lorain Metroparks. The club will provide burgers and brats with all the accoutrements, corn, drinks, and eating implements. Please bring a dish to share.

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.

Message From the VP

The presentation by Carl, W8KRF, about getting connected to so many features of Wires-X was very interesting, showing us the way the new 444.800 repeater hitches onto the Internet and you can choose where you want to go.

Here is to a great field day behind us, lots of antennas strung up every-which-way, ready to embark on 8 Alpha Ohio till somewhere an electrical noise covered up the 6, 10 and 15 meter bands making it impractical to hear the PSK stations, so the 10mtr digital station folded up, but there was plenty of phone contacts going and 2 dedicated CW stations kept ratcheting up contacts taking in operators. They went through the night. As always, this event had great food and better helpers with the joint effort of LCARA, of whom some are dual members. I operated a new style radio with some cool scanning that went thru 6, 10 and 15 smelling out signals and operating on the open bands while keeping my familiar radio on 15 meters, then took a spin on 20

meters while that station resolved a broken microphone connection. The 40 meter antenna was as much a mystery to Dave KY8OSU as anyone who watched him put it together. It was just about 10 feet above ground elevation. Like the magic that is ham radio a lot of folks gathered around this and I still don't understand it all but it proves the only way to try something is putting it on the air.

The NOARSfest came with some clouds and they carried rain so the flea market closed after the first flea market arrival just rolled down his window to ask if we had indoor tables. They were set up along the walls and some goodies were there for breakfast and lunch, fortunately for those who came inside to dodge the rain. It started to break up about 11 and putting things back in trucks and cars was much easier for the vendors who made this a well-attended event. So next it is picnic time at the duck pond, sorry but we are not cooking ducks. Bring a dessert or covered dish and meet some of the family members of the voices we listen to around the Northern Ohio area.

Try a Little Kindness

As Glen Campbell sang it, "You got to try a little kindness." A ham from the Cleveland area arrived late to the testing site in Elyria a while ago due to circumstances beyond his control. He almost couldn't take the test. With support from Tom, W8KYZ, one of the VEs that day, he was able to do so. Much to his

chagrin, the man didn't have the fee with him. No problem. Tom stepped in again and loaned him the money. This already good story has a happy ending since the man passed the test and upgraded to General Class. And, Tom was promptly paid back.

More Net Control Stations Needed

Occasionally at the membership meetings Bob, W8RET, or Dave, KY8OSU mentions more Net Control Stations are needed. Part of you wants to raise your hand and say yes, another part says no. Listen to the yes part. It's not as hard nor nearly as scary as you think it will be. No

special software is needed and you won't be doing it forever. Contact Bob, W8RET, or Tom, W8KYZ, if you'd like to give being NCS a shot. Their phone numbers and emails are in the club roster. You'll be glad you did.

String Theory Video Suggested by Chet, K8KIZ

Here's a really great 8 minute video that does a wonderful job of explaining the otherwise complex topic of "String Theory" or, as it is sometimes referred to, the "Theory of Everything".

Since it has to do with waves, NOARS members may find it interesting:

<https://www.youtube.com/watch?v=Da-2h2B4faU>

Fun YouTube Field Day Videos

<https://youtu.be/xukXJkGqyI>

<https://youtu.be/Zzaal3mKXC4>

August Member Highlight

Tom Miller, W1PDI

Writing on the Wall

The first glimmers of involvement with amateur radio came in 1962 when, as a young boy, Tom received a shortwave radio for Christmas from his dad, who was a ham. Tom ultimately learned Morse code, studied, and passed the Novice test in 1966. Tom's first contact was on June 24, 1966. 40 meter CW (7152) QSO with WN8TBI



States and Awards. He also can be heard on the NOARS 10-meter net on Tuesday nights.

Tom's newest rig is a Kenwood TS990S which he says has more bells and whistles than he'll ever use. He says his Heathkit HW101 is also fun to use on occasion. It's a rig his dad and he built together in the early 70's.

Vicissitudes of Life

Tom's interest in amateur radio ebbed and flowed from his college years to 2002, when a copy of the December 2002 QST, containing his father's listing as a Silent Key, arrived in the mail. Tom's interest in amateur radio was renewed and in 2003 Tom applied for and received his father's call sign, W1PDI. The information in the above two paragraphs is taken from an article Tom wrote about his dad and him, and their mutual love of amateur radio. It's a lovely tribute to his father. If you'd like to see the entire article, go to 3905ccn.com/files/pdf/centurion-2016-2.pdf

Work Life

Tom is a supplier of automotive high-performance products sold worldwide and through domestic retailers such as Auto Zone, Advance Auto Parts, and O'Reilly Auto Parts among others.

Tom's Amateur Radio Life

Tom enjoys amateur radio due in part to the thrill of making contest contacts, a QRN/M-free CW QSO, and the opportunity to meet other amateur radio operators around the world. Tom's favorite modes are SSB and CW on HF bands. He participates in contests, chases DX occasionally, and checks into various nets, such as OMISS and 3905 Century Club Worked All

Exciting Times

1967 was an exciting year. It was the first year Tom participated in Field Day. He was a member of a new amateur radio club and everyone was within 4 or 5 years of age of each other. They blazed a trail through a wooded area in an old Army Jeep, got to an elevated spot where they set up tents, wire antennas, and had just one generator. He says "it seemed like someone was always heading out in the Jeep to get more gas... it was the first Field Day the 6 or 8 of us ever took part in." Also, that year Tom won an award - the Novice Round Up, winning the top position in the New England Region.

Involvement with NOARS

Tom was a previous non-attending member. He re-joined last year and became involved with the club's Public Relations Committee and is the current Chairman of the Club Property Committee. He was also the driving force behind the creation of the new NOARS brochure.

Bits and Pieces

Tom would like to learn more about repeaters, PSK31 and other forms of digital communications. He'd like us to know he is willing to help others with their amateur radio projects.

August Birthdays - Happy birthday!

Al Moriarty, N8CX
Frank Pawlikowski, KE8JON
Marlin Lloyd, K8SVT
Don Smith, KC8REM
Erik Rogal, KD8RNF



If your birthday doesn't appear here it's a good chance that it's not in our database. Please contact Carl, W8KRF so we can wish you a Happy Birthday!

Heard on the Nets

W8RET	WB8UPA	K8KGX	K8KBZ
W8KYZ	WA8ERA	K2WJS	N8UUC
NC8X	K8AGV	W8GWD	N8PZD
K8WON	KD8VIQ	W8KYS	KD8BWG
K8AGW	KC8FOS	N8AHS	KF8PM
KY8OSU	N8FDY	KD8NGC	KE8IOB
W8KRF	WD8CSP	K8CVM	KD8HXX
W1AFC	KA8BPU	W8TGF	KC8DZJ
W8WLI	W1PDI	K8ALG	K8CSI
N8WS	KC8FQV	KD2HCE	



Thanks to July Net Controls

Bob, W8RET
Tim, NC8X
Tom, W8KYZ
Elaine, KC8FOS

Welcome New Members

Bob Larner, KE8KAA - Hinckley
David Germ, WV8P - North Olmsted
Kenneth Rutti, Associate - Lakewood

Let's Hear it for the Upgrade!

Congratulations to Joe Oney, W8SSE, for his upgrade to Extra Class. Joe took the test at the Elyria Red Cross site on Sunday, July 15 and passed. Way to go!

Upcoming Social Events

August

Tuesday, August 7

NOARS Monthly Meal at noon at the Elyria Golden Corral.

Saturday, August 11

DX Engineering Open Box Sale and K3LR tour. DX Engineering opens at 9. K3LR tour is at noon. Leave DX Engineering in time to get to K3LR by noon. K3LR address is 44 Elliot Rd, West Middlesex, PA 16159. Do

either one, or both. You do not have to go to the Open Box Sale to be able to go on the K3LR tour. Please note – there are 10 to 12 steep steps going down into the station, with no handrail. If the steps seem daunting, just seeing the antennas will be worth the trip.

Monday, August 20

NOARS Picnic at 6 at the Duck Pond on Nickle-Plate Diagonal Road in the Carlisle Reservation of Lorain Metroparks. The club will provide burgers and brats with all the accoutrements, corn, drinks, and eating implements. Please bring a dish to share.



Looking Forward to the Holiday Party



The Social Committee has gathered information about venues for the NOARS Holiday Party in December, including numerous restaurants with party rooms, halls, and catering companies. Few are what we envision for the Holiday Party, and we need more options. We need your help. If you, or someone you know, knows of a

good restaurant with a party room, hall, or catering company, please let us know. We need to make reservations soon. Contact Elaine, KC8FOS, or a member of the Board: Dave, KY8OSU; Tom, W8KYZ; Tim, NC8X; Carl, W8KRF. Phone numbers and emails are in the club roster. Thanks!

August Ohio QSO Party

Special Event

Ohio QSO Party, sponsored by the Mad River Radio Club. August 25, 2018, Saturday 1200 to 2400 EDT (1600-0400 UTC) . For more information, including rules, modes, links and downloads, and certificates, go to www.ohqp.org

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.

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 ads.

August 2018

Sun

Mon

Tue

Wed

Thu

Fri

Sat

			1 BRTN 9:30 PM	2 2M Net 8 PM	3	4
5	6	7 NOARS Monthly Meal 12 Noon 10M Net 8 PM	8 BRTN 9:30 PM	9 2M Net 8 PM	10	11 QRP Fun Day 9:00 AM K3LR tour 12:00 PM
12	13	14 10M Net 8 PM	15 BRTN 9:30 PM	16 2M Net 8 PM	17 LCARA Meeting 7 PM	18
19 VE Testing 12:50 PM	20 NOARS Picnic 6:00 PM	21 10M Net 8 PM	22 BRTN 9:30 PM	23 2M Net 8 PM	24	25
26	27	28 10M Net 8 PM	29 BRTN 9:30 PM	30 2M Net 8 PM	31	

Great Lakes Division Hamfests August 2018

08/04/2018 | 2018 Columbus Hamfest / Ohio Section Conference

Location: Grove City, OH
Type: ARRL Hamfest
Sponsor: Voice of Aladdin Amateur Radio Club (W8FEZ)
Website: <http://columbushamfest.com>

08/04/2018 | U.P. Hamfest 2018

Location: Escanaba, MI
Type: ARRL Hamfest
Sponsor: Delta County Amateur Radio Society

08/11/2018 | Central Kentucky Hamfest

Location: Lexington, KY
Type: ARRL Hamfest
Sponsor: Bluegrass Amateur Radio Society
Website: <http://bluegrassars.org>

08/12/2018 | Cuyahoga Falls ARC's 10th Annual Tailgate Hamfest

Location: Stow, OH
Type: ARRL Hamfest
Sponsor: The Cuyahoga Falls Amateur Radio Club
Website: <http://www.cfarc.org/tailgate.php>

08/12/2018 | Seaway Trunk Swap

Location: Port Huron, MI
Type: ARRL Hamfest
Sponsor: Eastern Michigan Amateur Radio Club
Website: <http://qsl.net/ke8bit>

Ham Shack Photo Tour

This month we're touring Harold's, K8HRD, shack.



Send us your photos, too! Email or text them to the emails or phone numbers listed in the NOARS roster.

Tom's, W1PDI, New Tower

Tom's, W1PDI, recently completed tower project – after seven months of research, planning and buying all the necessary parts and pieces.



ANTENNA BASICS

Query No. 6

Q. How can an existing feedline be converted to a tuned configuration?

A. By the addition of an add-on coaxial segment to the existing feedline. To illustrate this process, assume an existing 50 foot, 50 ohm feedline with a velocity factor of .66 is to be converted for use as a tuned feedline for 10, 15, and 20 meters. This is accomplished by determining the required add-on length, which can be connected to the existing feedline with a one-inch coupler inside the shack. The design parameters are shown below:

DESIGN PARAMETERS

F = Frequency (MHz)

A = 1/2 wavelength (feet) = $(492 \times VF) / F$

B = Number of 1/2 waves in feedline = L / A

C = 1/2 wavelength must be a whole number. Round up the value present in B to a whole number.

L = Existing feedline length (feet) = given 50 feet

L1 = New feedline length (feet) = $C \times A$

L2 = Add-on segment to existing feedline (feet) = $L1 - L$

L3 = Add-on segment to existing feedline (mm) = $L2 \times 304.8$

VF = Velocity factor of existing feedline = given .66

Z = Add-on coax impedance (ohms) = given 50 ohms

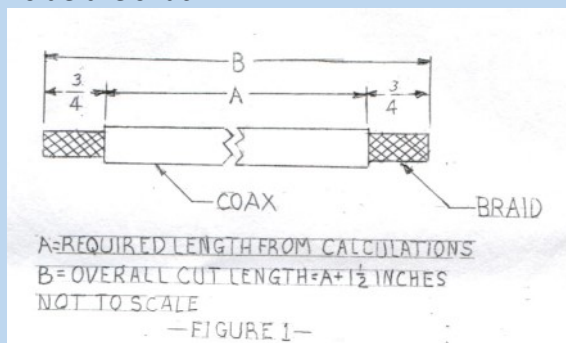
RESULTS

F	A	B	C	L	L1	L2	L3	VF	Z
14.150	22.948	2.179	3	50	68.844	18.844	5744	.66	50
21.225	15.299	3.268	4	50	61.196	11.196	3413	.66	50
28.300	11.474	4.358	5	50	57.370	7.370	2246	.66	50

To convert the value of L2 to feet and inches, multiply the decimal value by 12. For example 11.196 feet: $.196 \times 12 = 2.352$ inches. Therefore 11.196 feet equals 11 feet, 2.352 inches. I found it convenient to convert the value of L2 to the metric value L3 because the length is made at the value indicated, thus eliminating additional calculations as required in the English system. This should not pose a problem because today's measuring tapes are calibrated in English and metric.

The add-on coax specifications, impedance and velocity factor, should be identical to the feedline. However, if the add-on coax has an impedance identical to the feedline impedance but with a different velocity factor, it can be substituted. If the add-on coax velocity factor was .66, an add-on coax with a velocity factor of .78 could be substituted by multiplying the original add-on length by $.78 / .66$. Conversely, if the add-on coax velocity factor was .78, an add-on coax with a velocity factor of .66 could be substituted by multiplying the original add-on length by $.66 / .78$.

Shown in Figure 1 is a preliminary step in constructing an add-on length. Consult the *ARRL Handbook* for instructions on how to install PL-259 connectors. The completed add-on length is connected to the existing feedline with a one-inch coupler inside the shack.



KY8OSU's Field Day Portable NVIS Antenna

Some of you may recognize this design as nothing more than a half wave dipole, but upon closer examination, you will see that there is a **reflector** at the bottom of the antenna spaced at about **.15 wavelength or less** from the **driven, (dipole), element**. This in fact, makes this antenna a 2 element wire "beam" aimed straight up at the clouds. NVIS style antennas work best below about 8MHz

If you already have a half wave dipole up and running, then you have been using this type of antenna to some extent without knowing it, however, yours is not as effective in getting your signal to the "local" area out to a few hundred miles due to the properties of the ground underneath, your present dipole, and the nature of the dipole pattern. This design gives you the ability to more closely match the ideal situation for your dipole to perform much better in the close in range, (a few hundred miles radius/ie.500+ miles), from your station.

By adding the reflector, which is 5+ percent or more longer than the driven element, and spacing it .15 wavelength or less below it, you turn your dipole into a beam type antenna projecting your signal up to ionosphere where it is bounced back down into a sort of upside down cone pattern extending out several hundred miles!

The standard formula can be used for calculating the length of the Director.... $468/\text{freq}$ in MHz
Reflector length = director length 5+ percent longer.
Spacing = approx $140/\text{freq}$ MHz (or less seems better)

Original Cut:

Design for middle of the 40M General Phone Band around 7.125-7.300mhz
 $468 / 7.125 = 68.2$ FEET FOR DIRECTOR (DIPOLE)
Reflector = 5 percent+ longer than director = $68.2 \times .05 = 71.6'$ (I used 75')
Start with the dipole a little longer, then cut to lowest swr for middle of and SPACING = $936 / 7.125\text{MHz} = 131.6'$
 $\times .15 = 19.7'$ (I used 8-9')

The distance from the reflector and the ground should not make any difference.
You will note by the calculations above that the distance from the driven element and reflector would require that the director be at least 19.7 feet from the ground!
Some experimenters state that even much lower overall dipole height above the reflector work even better,

others conclude the distance from the antenna and the ground can be lowered considerably with much better results. While 1/8th wave works reasonably well, better coverage is obtained if the antenna is mounted at about 1/20th wavelength above ground. A second advantage of lowering the antenna to near 1/20th wavelength is a lowering of the background noise level. At a recent S.E.T. communication on 75 Meters was started with a dipole at approximately 30 feet. We found communication with some of the other participants to be difficult. A second 1/2 wave dipole was built and mounted at 8 feet off of the ground. The background noise level went from S7 to S3 and back when we switched back the antennas, plus communications with stations in the twenty-five and over mile range were greatly enhanced.

"NVIS propagation is simply sky wave propagation that uses antennas with high-angle radiation and low operating frequencies. Just as the proper selection of antennas can increase the reliability of a long-range circuit, short-range communications also require proper antenna selection. NVIS propagation uses high take-off angle (60 to 90 degrees) antennas to radiate the signal almost straight up. The signal is then reflected from the ionosphere and returns to Earth in a circular pattern all around the transmitter. Because of the near-vertical radiation angle, there is no skip zone. Communications are continuous out to several hundred miles from the transmitter. The nearly vertical angle of radiation also means that lower frequencies must be used. Generally, NVIS propagation uses frequencies up to 8 MHz. The steep up and down propagation of the signal gives the operator the ability to communicate over nearby ridge lines, mountains, and dense vegetation. A valley location may give the operator terrain shielding from hostile intercept and also protect the circuit from ground wave and long-range sky wave interference. Antennas used for NVIS propagation need good high take-off angle radiation with very little ground wave radiation.

"NVIS techniques concentrate on the areas which are often in the skip zone. The idea is to radiate a signal at a frequency which is below the critical frequency, at a nearly vertical angle, and have that signal reflected from the ionosphere at a very high angle of incidence, returning to the earth at a relatively nearby location."

Taken from: THE CLOUD WARMER NVIS BEAM by WB5UDE

Construction of 40M N.V.I.S. Antenna

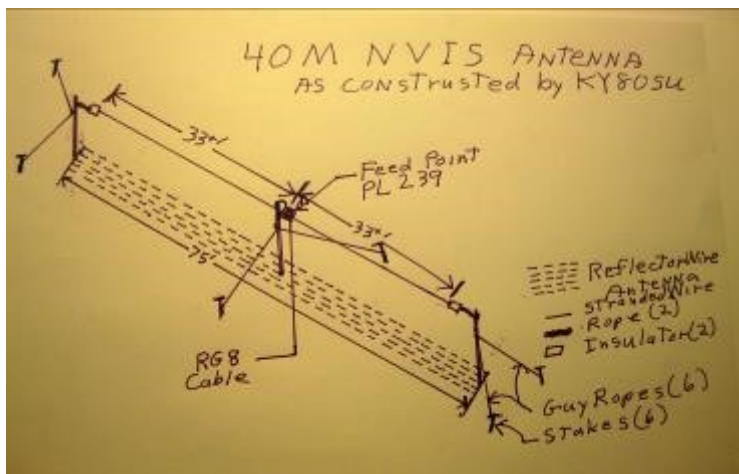
by Dave Fisher KY8OSU for Field Day 06 / 23 / 2018

Built 40M Dipole Antenna:

- Cut 2 pieces of multi-stranded Antenna wire 34+ feet long
- Built center feed point of 1.5 in. PVC end cap & plug / 3-2in eye bolts / PL239 / 2 pieces of scrap 14ga solid wire / PVC glue / solder
- Connected 2 Antenna wires to feed point, then attached insulators to free ends of the antenna wires
- Attached ropes to both insulators at ends of antenna
- Set up antenna on 3 metal poles / 2 end poles (using .75in. x 36in. steel stakes driven into the ground about 1 ft. to set hollow poles on and 2 guy ropes / stakes to support the pole vertically) & 1 center pole to hold feed point (using a tripod pole with 2 guy rope & stakes). This is what I had on hand (suggested using PVC pipe, Plastic conduit, or Fiberglass poles may work better? or if you don't have poles on hand)

Constructing Reflector:

- From a 250ft spool of 14ga speaker wire (2 conductor)
- Cut 3-77ft pieces and split each, using 5 conductors for Reflector
- Lay 1 conductor directly under antenna and 2 conductor on either side 10-12in. apart, parallel to antenna, attached to 2 PVC 1/2in. pipe with holes drilled 10in. apart (this keeps reflector wires parallel for maximum effect) when pulled tight and wires can be rolled up on pipe? (very carefully?) doesn't work well, needs the following:
- What needs to be done is have 5 spools (all same size) fastened solidly to a larger pipe, so wires can be wound up evenly and not tangle, a lot easier / faster / less hassle / neater



July 16, 2018 Meeting Minutes

Submitted by Elaine Wilkinson, KC8FOS

The meeting was called to order at 6:35 PM by President Dave, KY8OSU. Thirty-two members and guests were in attendance.

The Pledge of Allegiance was recited, followed by roll call by call sign.

Bob, W8RET, made a motion to accept the minutes of the June 2018 meeting, as published in the newsletter. Dave, W8KFJ, seconded the motion. The motion passed.

Treasurer's Report - Treasurer Tom, W8KYZ, reviewed the previous month's expenses, including Field Day. Carl, W8KRF, made a motion to accept the Treasurer's Report. Al, N8CX, seconded the motion. The motion passed.

President's Report - Dave briefly reviewed Field Day.

He also discussed the need for members to fill jobs at NOARSfest. Clark, N8PZD, will be backing up the flea market from 8:00 – 10:00. We need people to do that from 5:30 – 8:00 AM and from 10:00 – noon. He wondered if Chet, K8KIZ, would like to be the announcer at NOARSfest. Chet said Tom, W8KYZ, had already asked him, and he accepted. Elaine, KC8FOS, and Carl, W8KRF, will be at the front table selling tickets and handling membership applications.

Dave also discussed the Holiday Party, stating the possibility of its being a pot luck.

Parliamentary Committee - Bob, W8RET, said things are going good, that no one has challenged anything.

Club Property - Tom Miller, reported he received information from Tom, W8KYZ, concerning club property he possesses. Clark, N8PZD, advised Tom, W1PDI, that he holds equipment for the 515 repeater. Suggestions were made from the floor that Clark send model numbers, description, etc. to Tom, W1PDI.

Repeaters - Carl, W8KRF reported Echolink is once again on the 146.70 repeater. He advised the audio "may be a little off."

Website - Carl. The NOARS website is now secure, with

an SSL.

Membership – Carl. We have 84 members. During NOARSfest people can join as new members for the remainder of 2018 at a cost of \$7.00. Previous members may renew for the remainder of 2018 and 2019 for \$22.00.

Field Day - Al, N8CX. Copies of the report sent to ARRL were handed out and reviewed. Total points earned was 2336. Eric Jansen was lauded for his work on CW, making 100 contacts using 20 W. Some of the highlights of Field Day were remembered, such as Tim, NC8OS, and Dan, W8AJF, erecting the 160 M antenna. Suggestions for Field Day 2019 were given: Two generators in the old NOARS configuration with a third one for back-up. Make Field Day more accessible to others. Welcome guest hams at your station. Dan, W8AJF, suggested having a back-up plan for logging, such as logging sheets. Carl, W8KRF, highlighted the need for making sure everyone has an updated version of the N3FJP logging software. Sign on to the N3FJP site and download the latest version of the software, making sure it's the network version. A flash drive with the latest version should be available at Field Day. Possibly have spare computers. No XP.

Social Committee - Committee Chair Elaine, KC8FOS, advised members present of upcoming social events: Tue, August 7 monthly meal at Golden Corral in Elyria at noon, the Lorain County Sheriff's Department Communications Center tour (date to be determined), NOARS annual picnic August 20, the tour of K3LR on August 11, and the Holiday Party.

NOARSfest - Carl, W8KRF. 21 tables have been sold, and more are available.

Sunshine - Tom, W8KYZ, reported that Bob, W8RET, returned home from the hospital.

Nets - Bob, W8RET, reported that more Net Control Stations are needed.

VE testing - Tom, W8KYZ, reported on July 15 testing

(Continued on page 13)

(Continued from page 12)

results. Five candidates tested, four passed. NOARS member Joe, W8SSE, is now an Extra. Congratulations!

Newsletter - NOARS Log co-editor Tom, N8FDY, reminded members of the deadline for submissions of seven days before the end of the month. Invited letters to the editor.

Old Business - Darlene, KA8VTS, thanked everyone for the Special Life Membership Certificate presented to her, and the kindnesses shown her during her illness.

New Business - Carl, W8KRF, introduced needing a

new amplifier for the 448 repeater, one that would put out 60 or 70 watts. The current amp puts out 50 watts. A new power supply would probably also be needed. Carl will research and present the info at another time. There was discussion of need of a new amplifier since a new amplifier would not provide sufficient gain to warrant getting a new one.

Per Chet's, K8KIZ, request, Dave, KY8OSU, described the antenna he built for his 40 M work at Field Day.

There was some discussion of possible changes to the new brochure.

A motion was made to adjourn the meeting by Chet, K8KIZ, seconded by Mark, W8RON. The motion passed. The meeting was adjourned at 7:48 PM.

July 2018 NOARS Membership Meeting Attendance

Dave, W1AFC

Bill, W8GET

Jim, KD8OCW

Tim, NC8X

Dan, K8AGW

Ted, W8GUH

Tim, NC8OS

Dan, W8AJF

Joe, W8GWD

Dave, KY8OSU

Guests

Bruce, K8CSI

Harold, K8HRD

Tom, W1PDI

Jessica Hering

Al, N8CX

Frank, KE8JON

Clark, N8PZD

Barb Moriarty

Bill, KE8DIF

Dave, W8KFJ

Bob, W8RET

Deborah Ohman

Steve, WA0DUY

Chet, K8KIZ

Darlene, KA8VTS

Joe Swartz

Tom, N8FDY

Carl, W8KRF

Bill, K2WJS

Elaine, KC8FOS

Tom, W8KYZ

Mark, K8WON



The DX Engineering Retail Showroom

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



Plus:

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

In-person customer support

9 am to 5 pm, Monday-Saturday

The DX Engineering Retail Showroom

Inside the Summit Racing Retail Super Store
1200 Southeast Ave., Tallmadge, Ohio

Open from 9 am to 9 pm, seven days a week



For Sale by Tom, W8KYZ, 440.930.9115

Updated Listing

Books

- ARRL Amateur Radio Books – all new
- ON4UN Low Band DXing \$15.00
- Small Antennas for Small Spaces \$12.00
- Emergency Power for Radio Communications \$13.00
- DXing on the Edge (160 Meters) \$15.00
- AC6V - DX101x – HF and six meters DXing Reference Guide \$12.00
- Stealth Antennas \$13.00
- ARRL Wire Antenna Classics \$ 8.00

Equipment

- Yaesu 7800 mobile separation kit (NEW) \$15.00
- Realistic Stereo Headphones - NOVA 20 \$ 5.00
- Olson Electronics S-677 – Air Speaker \$ 5.00
- MFJ-Digital DM55-1E. Voltmeter 130-300V (European Plug) New \$ 5.00

Flex-6600M For Sale by Tom, N8FDY, 216.409.1886

New Listing



Manufactured February 2018, PEN A/D HEAT SINK update and PEN PREAMP RMDR ENHANCEMENT where performed at the factory in July 2018. Non-smoking environment, radio used about two hours a day. No problems with the radio and it is in good condition. Great radio for contesters or serious DX. Price includes Warranty Transfer, warranty good through Jan 2020, includes original box. Price \$4,000.

For Sale by Vic Woconish, N8TN, 440-365-6672

New Listing

Yaesu FT-One radio \$1200.00

Antennas

Tri band 10, 15, 20 meter with rotor

10 meter 4 element with rotor

15 meter 3 element with rotor

20 meter single element

15 meter single element

All on the ground

Tower for Sale

Rohn 25 tower. Three 10-foot sections, one 8-foot top section, and thrust bearing. Gently used. \$350.00

Cushcraft R-7000 vertical 10 – 40 meters antenna. \$250.00

Cash and must pick up. Contact: William, WD8OSJ, wd8osj@wd8osj.com, 440-522-4622 10 am – 5 pm

For Sale from the Estate of Rich, K8RWC, SK

- Mosley AM-14-2. 14 elements 2 meter beam antenna. New. \$250.00.
- Yaesu speaker. Best offer.
- Yaesu FV-401. External VFO. Best offer.
- Yaesu FTV-650. 6 meter transceiver. Best offer.
- Yaesu FL-DX 2000 linear amplifier. 110/220V. \$400.00.
- Heathkit HW-22 40 meter transceiver. Includes power supply and manual. \$200.00.
- Tubes: 8417-P; 1K3A1J3 (Sylvania); IV2 (Sylvania); OB2
- Contact William Cervelli, KC8VFX, at 419.706.3869.

For Sale by Bill, KE8DIF

- MFJ 10 Meter SSB Tranceiver (MFJ 9410) with power supply and MFJ Portable Tuner (MFJ – 971). Like New. Both \$200

Contact Bill at 216-470-2774 or bill.eyman@gmail.com

For Sale by Bob, W8RET, 440.365.6829

- Icom 7000 100W HF/6M/VHF/UHF. Original box/manual, mobile mounting bracket (MB-62), starting at \$850.00 OBO
- LDG AT-7000 Tuner for 7000, starting at \$150.00 OBO
- Icom CT-17 convertor for 7000, starting at \$35.00 OBO
- LDG Antenna Tuner Z-11 PRO II . 160-6M. 125 W. Original box/Manual, starting at \$150.00 OBO
- Yaesu ATAS-120, Antenna system/Mobile/Portable/Balcony use. 7/14/18/21 MHZ, starting at \$200.00 OBO
- Icom IC-2820H, 2/440 D-STAR with Icom UT-123 Digital GPS unit. Original box/manual, starting at \$400.00 OBO



Free Stuff from Tom, W8KYZ, 440.930.9115

Updated Listing

Polk Audio Computer speakers, set of 2 speakers

6 gently used 5 gallon all-purpose buckets

Free Roof Tower, 2m Antenna, and Hardline

From Tim Hitesman - I haven't been active for more than a decade but am still licensed (NR8T). I will be moving in just a few weeks and must remove a roof tower and feedline before the sale of our home is final but my wife (N8INI) refuses to allow me on the roof. I'm 73.

I would love to donate the roof tower, 2m antenna and hardline (yes - hardline) in return for its removal and patching the roof (I have spare shingles). Would you be so kind as to ask your members to spread the word and contact me if interested? My contact info is below.

Glen Martin 8 ft roof tower; Ranger 2m antenna; about 70 ft of 3/4" solid copper jacket commercial hardline.

Contact info

Tim Hitesman

tim.hitesman@gmail.com

356 Bradley Road

Bay Village OH 44140

216-570-6019

NOARS Information

Members of the Board of Directors

President: Dave, KY8OSU

Vice President: Clark, N8PZD

Secretary: Thomas, N8CWF

Treasurer: Tom, W8KYZ

Others: Carl, W8KRF; Tim, NC8X; Tom, N8FDY

Others

Net Manager: Bob, W8RET

Club Trustee for K8KRG: Al, N8CX

Repeater: Carl, W8KRF, and Tim, NC8X

NOARS Log Editors: Tom, N8FDY, and 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 44012.

Meetings

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

Committees

Parliamentary Committee: Bob, W8RET.

Repeater: Carl, W8KRF

Field Day: Al, N8CX

Hamfest Dee, KA8VTS.

Sunshine Tom, W8KYZ (temp)

Membership Carl, W8KRF

Club Property Committee: Tom, W1PDI

Program Committee: Open

Social Committee: Elaine, KC8FOS, Dave, KY8OSU, Thomas, N8CWF

Public Relations Committee:

Dave, KY8OSU, Elaine, KC8FOS, Thomas, N8CWF



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.

Burning River Traffic Net

The Burning River Traffic Net uses the NOARS repeater (146.700 MHz) Wednesdays at 21:30.

ANNOUNCING THE
2018
ANNUAL
QRP-FUN-DAY-IN-THE-FIELD
- ALL ARE WELCOME -

WE'RE LOOKING AT SATURDAY, AUGUST 11TH

RAIN DATE SATURDAY, AUGUST 18TH

WHERE - NORTH OLMSTED CITY PARK

TIME - 9 A.M. UNTIL ?

- You can CQ, QSO or just sit around, listen to the -- bands and QSO with the others. -

Bring your station, a battery and portable antenna and have some fun

The Straight Key Century Club (SKCC) will be having their monthly 'Weekend Sprint' (WES)

This is a straight key (or keyer), slow-speed CW event.

If you have any questions or comments.

Contact me, Al, N8CX n8cx@arrl.net or Glenn, AF8C af8c@arrl.net

WE SET UP IN THE SOUTHWEST CORNER OF THE NORTH OLMSTED CITY PARK.

THIS IS AT THE CORNER OF LORAIN RD. AND WEST PARK DRIVE.

THIS IS AT A TRAFFIC LIGHT WITH MAC KENZIE ROAD.

A TALK-IN STATION WILL BE ON THE 147.360 REPEATER.