



NOARS LOG

Our
43^{ed} Year
Serving The
Amateur Radio
Community

The Newsletter of:

The Northern Ohio Amateur Radio Society

www.noars.net

Welcome to NOARS country!

November 2007

NOARS meetings are held at:
GARGUS HALL
1969 N. Ridge Rd. Sheffield Oh.



V.E. Exam Schedule:
1 P.M. Third Sunday of each Month.
Elyria Red Cross 2929 W. River Rd. Elyria, Oh.
(Across from old Midway Mall)

SUN	MON	TUES	WED	THUR	FRI	SAT
NOARS nets are open to ALL! Tune 146.70 VHF or 444.800 UHF				1 Tech NET 8 pm. NCS: W8KY5	2	3
4	5	6	7 NOARS NET 9 pm. NCS: K8JWS	8 Tech NET 8 pm. NCS: W8KY5	9	10 Grant ARC Hamfest Georgetown, OH
11	12	13	14 NOARS NET 9 pm. NCS: WD8OFG	15 Tech NET 8 pm. NCS: W8KY5	16	17
18 VE Exams 1 P.M.	19 NOARS MEETING 7:30 PM	20	21 NOARS NET 9 pm. NCS: WD8IQJ	22 Tech NET 8 pm. NCS: W8KY5	23	24
25	26	27	28 NOARS NET 9 pm. NCS: N8CX	29 Tech NET 8 pm. NCS: W8KY5	30	

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The Northern Ohio Amateur Radio Society K8KRG



November, 2007 Volume 43 Issue 11

Welcome To N.O.A.R.S

November Already? Got all the windows fixed? All the antenna projects done? Well if you're like me you can always add something new to the list of things to do. Problem is the "things to do" list is getting longer. But the "done" list is not!

Well congratulations are in order for the next crop of officers for 2008. Clark N8PZD will be our President with John K8JWS as Vice President. Tom W8KYZ will be our Treasurer and keep track of our funds. While Darlene KA8VTS will take up the secretary's job (again). Congratulations to all! All bring past experience of the duties of the offices. And will continue to lead NOARS in the right direction.

However I can't help but notice the same hard working individuals are on the executive list again. And it seems to me that with all the very talented individuals I've come to know in this club, that there are a lot of you out there that would be a good fit for the leadership rolls. NOARS needs YOU. Committee Chair persons, Planners and workers. All are needed and with all the talented helpers out there heading a project is an easy gig. I know! I've been enjoying one for years now. So if you have a project or an idea that you would like to promote. Lets do it the old fashioned American way. Form a committee and talk about it and "get er done".

Now onto a more somber note. I wish to express my sense of loss regarding one of the founders of NOARS. The passing of Chick W8QXF, has left a great gap in the local radio spectrum. The sad news came as a great personal shock. I know I share the loss with the entire northern Ohio amateur radio community. Chick was one of those rare individuals that could make you feel at ease. A good guy to chat with. And a real ham's ham. All of us at NOARS will miss Chick

Best 73 and CUL.....

John

John McKenna - WD8IQJ President NOARS

Write: President2007, P.O. Box 35 Avon Lake, Oh. 44012

Or: E-Mail me at: wd8iqj@noars.net

Who's who at NOARS?

2007 Elected Officials

President: WD8IQJ John McKenna
Vice President N8CX Alan Moriarty
Treasurer W8KYZ Tom Porter
Secretary KA8VTS Darlene Ohman

K8KRG License Trustee

W8EU Mike Willemine

Committee Heads for 2007

News Letter Production: WD8IQJ John (Editor)
W8KYZ Tom (Producer)
A.R.R.L. V.E.: W8KYZ Tom Porter
Education Committee: K8JWS, W8KYZ, W8KRF,
K8BMIS, WA8UGC
Property Manager: WD8BJY Doug Krucinski
DX Correspondent: N8CX Al Moriarty
Net operations Manager: WD8IQJ John McKenna
Hamfest Crew : W8KYZ Tom Porter
N8PZD Clark Beckman
N8CX Al Moriarty
KA8VTS Darelene Ohman
Web Master@www.noars.net: K8JWS John Schaaf
Sunshine Committee: KD8SC Rosemary Shook
Repeater Upkeep: N8PZD Clark Beckman
Membership: WD8IQJ John McKenna
Elmer Corp. Representative W8ADV Ray Smith

Contact The Above People Using The Appropriate Information
In Your Copy Of The NOARS Roster
(Did I leave anyone out? Let me know I'll fix it ASAP!)

NOARS IS ON THE AIR!

Weekly Nets:

146.700 Wednesday Night Rag chews 9 pm local
NCS: WD8IQJ - WD8OFG - N8CX - WA8Q - K8JWS
146.700 Thursday Technical discussion net 8Pm Local time
NCS: W8KYS - W8KYZ
All are welcome on NOARS nets!

Roll Call October 15th Meeting

KC8VFE - Dick	N8HDE - Bob	17 Members And Guest's Present	WA8UGC - Jim	W8KRF - Carl
KD8GXX - Norm	KB8IOS - Dan		W8GWD - Joe	N8DIU - Gary
W8AJZ - Ernie	KB8MIS Richard		WD8OFG - Harold	KA8VTS Darlene
WD8IQJ - John	W8KYZ - Tom		WA8Q - Jack	K8RWR - John
		KC8POL - Bob		

I S H S H R S P K O F M N E H B J L S
 N T B R E B F N K X T E P X N L O S W
 T A Z Q A E H C T G C R T M L F Y O T
 I C G S J F R C T D V M O B A E P N T
 H T G F I J E E H K M L O M B Q D K N
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 G H Z T T P L A T E S L I D E R E I C
 T W O R L D D D D I F I D H I H E F L

Solution To Puzzle 1007

Upcoming events

Have your event posted here!
 Send copy to: NOARS Newsletter Editor, P.O. Box 35
 Avon Lake, Oh. 44012 Or Email wd8iqj@noars.net -
 Deadline Is Third Tuesday Of Each Month For The
 Following Months Publication

November 10th 2007

Grant Amateur Radio Club
 ABCAP Building (Old Alverda Reed School)
 406 West Plum Street Georgetown, OH
<http://www.garcohio.net> Talk-In: 146.730

Contact: Rodney Crawford, WD8CTX
 PO Box 76
 Buford, OH 45110
 Phone: 937-446-2338
 Email: wd8ctx@juno.com

N8MPC Jim, Honored in QST Submitted by W8KYZ Tom

ARRL recognized the top 25 volunteer examiners (ve) in the United States. In the September 2007 issue of 'qst.'

Among those listed is NOARS member Jim Henderson, N8MPC, of Oberlin, Ohio with 241 testing sessions beginning November 1991.

Testing for Jim started with Ola Sloan in Grafton, NOARSFEST in Wellington, and LCARA in Elyria, Ohio.

Certainly a remarkable achievement and accomplishment representing a true dedication to amateur radio.

Congratulations to Jim on this well deserved recognition. Incidentally Jim was the only ham so honored in the eight call district (editors note)

N.O.A.R.S. NEWS

Membership News

Welcome to the NOARS community
 NEW Members:

- **KB8IOB Dan Miller**
- **KD8GXA Norman Miller**
- **KB8IOB Dan Miller Upgraded to General**

Nominations Committee Report

The Nominations committee reported the following list of candidates for the executive committee ballot:

2007 Ballot (For 2008 Executive Committee)			
President	N8PZD Clark	Treasurer	W8KYZ Tom
President	<i>Unopposed</i>	Treasurer	<i>Unopposed</i>
Vice President	K8JWS John	Secretary	KA8VTS Darlene
Vice President	<i>Unopposed</i>	Secretary	<i>Unopposed</i>

Since the candidates were unopposed for all offices the membership made a motion for an unopposed ballot. Which was called for and passed by those in attendance. Thus avoiding the cost of sending paper ballots. Good luck to all the new officers in 2008.

Help Wanted !

Net Control Station for the Thursday night tech net. No experience necessary. Give Sandy W8KYS a break! Split the load! Take every other week! Contact John WD8IQJ or Sandy W8KYS if you want to join in the fun

Minutes of the October 15, 2007 Meeting
Submitted by: Darlene Ohman, KA8VTS

The meeting began at 7:30p.m. with 17 members and guests present.

- **Treasurers Report:** Tom Porter, W8KYZ was read and a motion was made and seconded to accept the report. The motion was passed.
- **Secretaries Report:** Darlene Ohman, KA8VTS, a motion was made and seconded to accept the minutes as printed in the newsletter. The motion was passed.
- **Educational Committee:** Carl Rimmer, W8KRF, we have not chosen a date yet. ARRL does not have an instructor manual for general class, so I have tried to write my own. So at this point I don't know if we will be able to have the class this year. We do have 10 books for general class and if anyone wants one the cost will be \$19.00. If you would like a book, call Tom Porter.
- **Newsletter and Membership:** John McKenna, WD8IQJ, everything is going well. We have a new member, Dan Miller, KB8IOS, who was present at the meeting.
- **Nets:** John McKenna, WD8IQJ, the nets are going along very well. We still need some help on the Thursday night Tech Net. Tom Porter is doing the first week, but we could use someone on the third week. If you would like to try it please contact me.
- **Sunshine:** Rosemary Shook, KD8SC, was not in attendance. Al Moriarty is home from the hospital, he had his other leg amputated, but he is doing well. John Schaaf, K8JWS, his wife was in the hospital with double pneumonia but she is back home. Sylvia Drake, KC8TMV, will be going for kemo therapy treatments at the end of this month. Rich, K8RWC, had a heart attack but he is back home. Chick Jackson, is in the hospital.
- **DX (N8CX) , Repeater (N8PZD) and Web-Site (K8JWS)** were not in attendance
- **Old Business: Nomination Committee:** The Committee made its report of candidates for the 2008 executive committee. and before the nominating committee was closed it was asked if anyone wants to run for any of the offices. (For President or Vice President you have to attend four (4) meetings a year). No one wanted to run for any of the offices. The nominating committee was closed. At that point a motion for an unopposed (white) ballot was called for, and passed. Here is the list of NOARS 2008 officers: President :Clark Beckman, N8PZD, Vice President, John Schaaf, K8JWS, Treasurer, Tom Porter, W8KYZ and Secretary Darlene Ohman, KA8VTS
- **General Announcements:** NOARS is thinking of changing the Noarsfest location from the Lorain Fairgrounds to Lorain Community College. Contact has been made with the college with more information forthcoming. I would like to put together a Hamfest Committee to into finding another location. The hamfest committee will consist of: John McKenna, Darlene Ohman, Tom Porter, Carl Rimmer, Bob Super.
- **New Business:** Banquet, do we want to have it or not? If we do, where do we want to have it? A meeting will be held to discuss the possibilities.

The meeting was adjourned at 8:12 p.m.

Say Happy Birthday (Send 'em ARL#46) This Month To:

(Sorry if I've missed your birthday! It's likely that I don't know what it is! Please let me know. What is your birth date? ..Ed.)
 W8LKM - KC8AIG - KC8ATR - KA8VHI - KF8SV - N8VUB - KD8CFL - N8HDE - K8RWC

A Few Of The Callsigns Heard On The
 NOARS Nets. Wednesday and Thursdays nights
 On The 146.700/100 Repeater In Elyria
October 3 ~ October 31

WD8IQJ W8KYS W8KYZ N8MPC WA8PKC KC8VCM W8KRF
 W8TAS K8JWS KC8TYB W8ADV KC8VFE KC8YJW KB8BBZ
 WA8Q K8WRS KJ1J KD8BBI WD8OFG KB8IOS KE8ZZ
 K18DR W8UTC KD8GXA KD8GTP NC8X WB3JVK KA8OYE
 KB8TK KD8FKD K8RWC W8FAN K8AGW W4IYI K8HUR
 W4WA8GZA KC8TNK W8DJM K8RWR K8ZXU KC8AMR
 KC8OMK W4PLV* BG5HSC* *echolink

146.700 Has Two NOARS Nets For You!

The 9:00 Pm Wednesday Night Rag Chew Net

One of the longest running two meter nets in northern Ohio! You all are welcome to this informal friendly net.

Hosted by: WD8IQJ - W8KYZ - WD8OFG - N8CX - K8JWS

The 8:00 Pm Thursday Technical Discussion Net.

You don't have to be a techno-geek to enjoy this friendly net slanted toward the technical side of the hobby.

Hosted by: W8KYS & W8KYZ

Where's the DX?Taken From *KB8NW* Tedd's OPDX Bulletin.NOTE! This is but a very small part of the complete OPDX Bulletin that can be found at www.papays.com/

The Ohio/Penn DX bulletin now has a new FAX number

Contributors can send DX information to: 1-419-828-7791 FAX only!

4U1, ITU HQ (Special Activity) -- Look for the special callsign 4U1WRC to be used between October 22nd and November 16th. Activity is taking place from the International Amateur Radio Club station 4U1ITU in Geneva during the 2007 World Radiocommunication Conference (WRC). It was mentioned that 4U1WRC is also expected to be active during the upcoming CQ World Wide DX SSB Contest (October 27-28th).

8Q, MALDIVES -- Claudio, HB9OAU, will be active as 8Q7AU from Dhonveli Island (AS-013), October 29th-November 10th. Activity will be holiday style ARCTIC STATION -- Operator Mikhail Fokin, RW1AI, is now active as R35NP from the "North Pole 35" drifting station in the Arctic. He will remain there until the summer of 2008. Current position is about 82N 101E in ITU Zone 75. Mike is running only 100 watts on 20, 30 and 40m both CW/SSB. QSL via RW1AI, either by the bureau or direct to: Mikhail N.Fokin, P.O.Box 13, St.Petersburg, 193312 RUSSIA. Logs (including his Antarctic operations as R1AND, R1ANP, R1ANT, RW1AI/ANT) are available at:

<http://www.qsl.net/ua1ake/logs/index.html>

CT3, MADEIRA ISLANDS -- Jose, CT1BOH, will be active as CT3NT during the CQ World Wide DX CW Contest (November 24-25th) as Single-Op/All-Band entry. QSL via CT1BOH, direct or LoTW. Visit his Web page at: <http://www.qsl.net/ct1boh/ct3nt.htm>

IOTA NEWS -- AS-040 Look for JA6QIN/6 to be active from four different islands in the Goto Island Group between November 5-7th. Islands mentioned are: Arifuku, Wakamatsu, Zuga and Nakadori (all in the JA6 Nagasaki Pref). Activity will be on the HF bands. QSL to his home callsign, direct or by the bureau **NA-041**. Rick, K6VVA, will once again activate Revillagigedo Island (USI AK141S, WW Loc. CO45IP, 1st South Eastern County, Alaska). Activity will take place during the ARRL 160m Contest (November 30th-December 2nd). He will be operating as KL8C, and he also hopes to be active on the other bands as K6VVA/KL7 again as during his September (2007) operation (QSLs are being printed - QSL via N6AWD). Rick mentions that the operating QTH has a great over-salt-water path to the U.S. and much of Europe, although his conditions in September were not good for EU. There is a big hill in the direction of JA, so Rick may try to operate from the other side of the Island with a clear shot to JA for a while during the daytime/non-160m hours (if not this trip, then the next time). **NA-069**. Look for Bren, G4DYO, (ex-editor for the DX News Sheet) to be active as W4/G4DYO from Captiva Island for few hours on November 16th. Activity will be on 20 meters.

Please Note: This is only a SMALL part of: OPDX Bulletin #828
LOG TO: WWW.papays.com for the rest

(Only The Parts Relative To The Time Of Distribution Of The
N.O.A.R.S. Log Were Included Here.)

Contest Corner

(Excerpted from arrl.org)

November 3-4

ARRL November Sweepstakes -- CW, from 2100Z Nov 3-0300Z Nov 5. (Phone from 2100Z Nov 17 to 0300Z Nov 19; see October QST, p 102, or www.arrl.org/contests.)

High Speed Club CW Contest -- sponsored by the Radio Telegraphy High Speed Club (HSC) from 0900Z-1100Z and 1500Z-1700Z Nov 4. Frequencies: 80-10 meters, 10-30 kHz above band edge.

IPA Contest -- Phone/CW, sponsored by The International Police Association Radio Club. CW from 0600Z-1000Z and 1400Z-1800Z Nov 3, Phone from 0600Z-1000Z and 1400Z-1800Z Nov 4. Frequencies: 80-10 meters with 15-minute band change rule

November 10-11

Japan International DX Contest -- Phone, from 0700Z Nov 10-1300Z Nov 11 (see April QST, p 97, or jidx.org).

Worked All Europe DX Contest (WAEDC) -- RTTY, from 0000Z Nov 10-2359Z Nov 11

OK-OM DX Contest -- CW, sponsored by the Czech Radio Club (CRC) from 1200Z Nov 10-1200Z Nov 11. Frequencies: 160-10-meters. CQ WE (Western Electric) -- CW/Phone/Digital, from 1900Z Nov 10-0500Z Nov 12. Frequencies: 160 meters-70 cm (no repeater contacts).

CQ WE (Western Electric) -- CW/Phone/Digital, from 1900Z Nov 10-0500Z Nov 12. Frequencies: 160 meters-70 cm

November 17-18

LZ DX Contest -- CW/SSB, sponsored by the Bulgarian Federation of Radio Amateurs from 1200Z Nov 17-1200Z Nov 18. Frequencies: 80-10-meters with 10 minute mode change rule

RSGB 1.8 MHz Contest -- CW, from 2100Z Nov 17-0100Z Nov 18 PSK63 QSO Party -- sponsored by the European PSK Club from 0000Z to 2400Z Nov 18. Frequencies: 160-10 meters, near PSK calling frequencies.

Contest Corner Continued**November 17-18 (continued)**

ARRL November Sweepstakes -- Phone, from 2100Z Nov 17-0300Z Nov 19 (see Nov 3-4).

November 24-25

CQ WW DX Contest -- CW, from 0000Z Nov 24 to 2400Z Nov 25

ARRL EME -- Contest, from 0000Z Nov 24-2400Z Nov 25. Frequencies: 50-1296Mhz.

Got 6 ?**Contributed By N8OFS Andy**

50 MHz beacons. How about some help establishing some 50 MHz beacons? We need potential locations & hosts- please think ahead, it will help us all in a few years. Places we'd "do yesterday" include VP8, VP6 & virtually anywhere in Africa, as well as Oceania. All we require is a willing host, we provide the rest gratis. Past projects include CT1ART/b (TX), ZD7VC/b, PR8ZX/b, V44KAI/b (rebuild), KH6HI/b (rebuild), CQ3SIX/b, AL7QY/b, C6AFP/b (rebuild), J5SIX/b, V73SIX/b (various gear), CE3AA/b, AH2G/b & etc. Others are coming online soon but many areas in need of indicators are still "out of reach." Can you help by putting me in contact with the "right" person? Please let me know. 73 Dave, N3DB

For Sale & Advertisement's Page

All Submissions must be sent to wd8iqj@noars.net or sent to: P.O. Box 35 Avon Lake, Oh. 44012

Deadline for submissions is the Third Tuesday of each month. All must include Asking price, sellers name, call sign and phone number. Ad's from current NOARS members (or paying advertisers) only will be accepted! Notice! All ad's will be removed after three months (as space is needed) unless updated! NOARS reserves the right to refuse ad's at our discretion.

KC8POL Bob (440) 887-0466 5/7
GAP Eagle DX Antenna 15-40 M
 Asking \$75.00 Or Best Offer

N8MPC Jim (440) 774-1275 8/7

- **MT-3000H** Ant. Tuner \$300
- **Gap Eagle DX 10-40**
Vertical Make Offer
- **Ringo Ranger II 2 ARX450B**
2 Meter – Make Offer
- **Fixed Station Multi Band**
Vertical – Make Offer

K8WHK Rich (440) 365-8754 4/7

- **ICOM IC-2AT** 144mhz. handheld Mint condition boxed, w/2 batt. pks. & manuals - \$50
- **KENWOOD AT-120** Ant. Tuner excellent condition - \$60
- **KENWOOD AT-130** Ant. Tuner excellent condition - \$65
- **KENWOOD MC-50** Mic. & Stand excellent condition - \$55
- **MFJ-816** HF SWR/wattmeter like new - \$20
- **HEATH HW-8** with heath power supply, manuals & MFJ-900 antenna tuner & carrying case - \$145
- **HW-8 Handbooks** by: Michael Bryce (WB8VGE) 1991, 1994 & 2004 like new condition - \$15
- **QRP Quarterly Journals** 1988 – 2003 make offer

W8KYZ SANDY (440) 647-2255 8/7

- Commodore 128 Computer
- B&W Monitor
- Color Monitor
- Kantronics II Interface
- 1541 Floppy Disk Drive
- Regency HR 2B 2m FM base or mobile radio
\$50.00 Takes All

WD8IQJ John (216) 544-5761 3/7
Beam Antenna SIX Meters X 5 Ele. \$40
 New hardware! Get ready for the summer band openings!

5' 19" panel rack Pickup only! \$Free
4' 19" Panel Racks Pickup only! \$Free
 (Both Racks Have "Stuff" In Them You Can Have It

W8LZB Mike - Equipment Liquidation! 11/7
 All Good Stuff All Good Condition!
 To Make A Reasonable Offer Contact:
 W8KYZ Tom (440) 930 9115

- **DRAKE TWINS T4X – R4A** with power supply
- **HAMMERLUND HQ-170**
General receiver coverage 160 – 6 meters
- **HAMMERLUND HQ-110**
General receiver coverage 160 – 6 meters
- **KENWOOD TS-790A** 2m/70cm. all mode with MC-60 Mic.
- **ICOM 275H** 2 Meter all mode 100W
- **Johnson Viking Valiant II**
- **HEATHKIT Warrior HA-10**
Linear
- **KLM 440-16 X-Yagi** (New)
- **RF CONCEPTS 2-117** Solid sate amp. 2-15 watts in 10-170 watts

W8TAS Ted (440) 365-8041 10/7

- **KLM KT-34-A** six element beam 10-15-20 36' boom one of a kind (big gun) \$300 (bring your truck)

KA8VTS Darlene (216) 398-8858 8/7
LOWERY Magic Genie -
 Contempo – 80 Electronic Organ

- Double Keyboard
- Full Bass
- Leslie Reverb
- Bench Seat, Music ++

Excellent condition! Must P.U.
\$500 O.B.O

K8RWC Rich (440) 864-7441 11/7

- **YEASU FT 470**
Dual Band (2m/70cm)
With Original Box, Battery, Manual
And Original Yeasu Sticker
Speaker Microphone
12 Volt Car/Power Supply Adaptor
Ht Ant 19"Mag Mount
Battery Charger
All In Excellent Condition
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 L S S C I K O D P E D P P A T P G R I
 B A M I S X E X H E L L Q C E D P I G
 N C P W M K B P K D S L E E L S U K N
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PUZZLE 1107	
WORD LIST	
ACTIVE	MONOSTABLE
ATOM	NEUTRON
BISTABLE	ORBIT
CHARGED	PARTICLE
CHOKE	PROTON
DECAY	RADIO
EFFECT	REACTIVE
ELECTRON	RELATIVE
FIELD	STABLE
HARTLEY	SWINGING
ARE THERE MORE? Want To See Your Word List Here? Send it in! I'll use it ASAP!	

Mission Statement.

The Northern Ohio Amateur Radio Society

Is a public service organization with the purpose and goal to enhance the Amateur Radio Service through education and fellowship.

- Meetings are held at 7:30 p.m. sharp on the third Monday of every month at:
GARGUS Catering Hall - 1969 North Ridge Road Sheffield, Ohio.
- The meeting are open to the public. And all are welcome. Tune to the 9:00 pm. Wednesday night NOARS net on the 146.700/444.8 Mhz. repeaters on the E.S.T. bank Building in Elyria, Ohio for changes or updates in this schedule. Also the 146.700/444.8 repeater hosts the technical discussion net on Thursday Night at 8:00 pm.
- N.O.A.R.S. Repeater Can be found at 146.700 (-) - 444.8 (-) in Elyria, OH. and 145.15 (-) In North Royalton OH.. (although the 5.15 is down for maintenance at this printing)
- Regularly scheduled NOARS nets are every Wednesday night at 9:00 pm on 146.700 for the rag-chew net and every Thursday night at 8:pm for the technical discussion net. All licensed amateurs are welcome. NOARS membership is not necessary
- NOARS can be found on the World Wide Web at: <http://www.noars.net>
- Noars Hosts two hamfest/computer shows annually. The winter hamfest in early February and the summer classic NOARSFEST hamfest and computer show in mid July.

.If this is your first copy of the NOARS log. Why not become a member and receive it on a monthly basis? Membership is open to anyone interested in communications. The dues schedule is: Full \$10, Associate \$5 (non licensed), Family members of a full member are only \$2 ea. make checks payable to NOARS and mail them to :

NOARS Membership Committee P.O. Box 35 Avon Lake, Oh. 44012

Please submit a separate form for each membership.

WARNING: Some of this data will appear in the roster. So please mark all information you want to be private!

Please indicate if this is a: New: Renewal: Changes: application. *Please print!*

Call Sign _____ Class _____ License Expires ____ / ____ / ____ Birthday ____ / ____ / ____

Name First _____ Init. ____ Last _____

Membership type: Full (\$10/yr) Associate (\$5/yr) Family* (\$2/yr) Charter

Membership expiration date 12 / 31 / ARRL Y/N _____ ? Amount paid \$ _____

Street Address _____ Apt _____

City _____ State _____ Zip _____

Email Address _____

Phone (_____) _____ - _____ Mailings** via: U.S.P.S - E-Mail

* _____ Call Sign of family member with full NOARS membership

**Mailings = Monthly newsletter, Roster and/or Roster updates

iqj/0070105

N.O.A.R.S.
P.O. Box 35.
Avon lake, Oh. 44012



THE NORTHERN
OHIO AMATEUR
RADIO SOCIETY

43

Years Serving
The Amateur Radio
Community

U.S.
Postage

Dated Material

Mailing Label