



# NOARS LOG

**Our  
46<sup>th</sup> Year**  
Serving The  
Amateur Radio  
Community

www.noars.net

The **Award Winning** Newsletter of:  
**The Northern Ohio Amateur Radio**

## Welcome to NOARS country!

### FEBRUARY 2010

NOARS Meetings Are Held at the  
Elyria Police Department Community Room  
On The Third Monday  
Every Month! @ 7:30 P.M.



V.E. Exam Schedule:  
1 P.M. Third Sunday of each Month.  
Elyria Red Cross, 2929 W. River Rd N. Elyria, OH

SUN	MON	TUES	WED	THUR	FRI	SAT
	1 ARN 8PM	2	3 NOARS NET 9 pm. NCS: WD8ADE	4 Tech NET 8 pm. NCS: WB3JVK	5	6
7* Winter Hamfest 8AM-12PM	8 ARN 8PM	9	10 NOARS NET 9 pm. NCS: WD8OFG	11 Tech NET 8 pm. NCS: W8KYZ	12	13
14 Mansfield Hamfest	15 Meeting 7:30PM ARN 9PM	16	17 NOARS NET 9 pm. NCS: W8WFQ	18 Tech NET 8pm NCS: K8RWC	19	20
21 VE Testing 1PM	22 ARN 8PM	23	24 NOARS NET 9 pm. NCS: W8KRF	25 Tech NET 8pm NCS: N8CX	26	27
28				* <b>WINTER HAMFEST</b> @Gargus Hall 1965 N. Ridge Rd E Lorain, OH		

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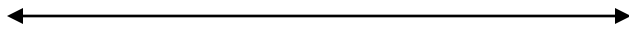


# The Northern Ohio Amateur Radio Society **K8KRG**



February, 2010 - Volume 46 Issue 2

## Welcome to NOARS



I was delighted to see such a good turnout for our first meeting of 2010. I heard many very positive comments about the new venue. It was our pleasure to have Bob Winston, W2THU, visit us and bring us up to date on the problem of antenna restrictions and PRB-1. There were only a few of those in attendance who are impacted by restrictions, but it can be assumed that as time goes on and more entities try to control our antenna structures, more of us will be affected.

When you read this newsletter, we will be within a few days of holding our 2010 Winter Hamfest at Gargus Hall in Lorain. We are in need of more help with setup and operation of the hamfest, so I ask that you consider volunteering to support our efforts and assist in whatever way you can. Please contact Dee-Dee at 216-398-8858 or by email at secretary2010 (at) noars (dot) net.

If you haven't renewed your membership for 2010, please do so this month. March 1<sup>st</sup> is the deadline. See Julie, WD8ADE, at the Winter Hamfest to renew. Membership cards and the 2010 roster will be included with the March mailing of the NOARS Log.

We are already starting to plan for Field Day 2010. Al, N8CX, is our Field Day chairperson. We will be looking for Band/Mode managers and operators. Please contact Al if you are interested. A pre-FD planning meeting will be held in April.

That's it for this month.

*Best 73 and CUL.....*

**Carl W8KRF**

Carl F. Rimmer, W8KRF *Co-Editor of the NOARSLOG*  
Write: Editorlog2010, 161 Herrmann Drive, Avon Lake, OH.  
44012

Or E-Mail me at: w8krf @ noars . net

## Who's who at NOARS?

### 2010 Elected Officials

President:.....W8KRF Carl Rimmer  
Vice President:.....WB3JVK Steve Robbins  
Treasurer:.....W8KYZ Tom Porter  
Secretary:.....KA8VTS Darlene Ohman

### K8KRG License Trustee

W8EU Mike Willemin

### Committee Heads for 2010

Newsletter Production: WD8IQJ John (Editor)  
W8KRF Carl (Co-Editor)  
W8KYZ Tom (Producer)  
A.R.R.L. V.E.:.....W8KYZ Tom Porter  
W8KRF Carl Rimmer  
N8QL Alex Pasini  
Education Committee: W8KRF, WD8ADE  
Property Manager: WD8BJY Doug Krucinski  
DX/Field Day Chair: N8CX Al Moriarty  
Net operations Managers: WD8OFG Harold Drake  
Hamfest Chair: KA8VTS Darlene Ohman  
Webmaster@www.noars.net: W8KRF Carl Rimmer  
K8JWS John Schaaf  
Sunshine Committee: W8KYZ Tom (Interim)  
Repeater Upkeep: WB3JVK Stephen Robbins  
N8PZD Clark Beckman  
Membership: WD8ADE Julie Wilmer  
Elmer Corp. Representative: W8ADV Ray Smith  
Parliamentarian: K8WRS Dave Semanik

## NOARS IS ON THE AIR!

### Weekly Nets:

146.700 Wednesday Night Rag chews 9 pm local  
NCS: WD8OFG – WA8ADE –W8WFQ –W8KRF–  
W8ADV

146.700 Thursday Technical discussion net 8Pm Local  
time NCS: W8KYZ – WB3JVK – N8CX – K8RWC –  
K8WRS

All are welcome on NOARS nets!

**Roll Call: January Meeting:**

23 members and guests in attendance

W8ADV	K8WRS	KD8MUX	KD8REW	WD8OFG	KC8TMZ
W8FJR	W8RET	N8CX	W2THU	WB3JVK	KC8VFE
W8KYZ	WD8ADE	N8HDE	W8GWD	W1AFC	W8KRF
KA8VTS	KD8MUW	KD8KAA	KF8PM	AF8B	

# Membership News:

- Your 2009 membership expired on December 31, 2009 so please take steps to renew now. As is customary, your 2009 membership will remain active until March 1, 2010 to give you the opportunity to renew at the Winter Hamfest on February 7, 2010. If you have any questions regarding your membership status, please contact Julie, WD8ADE.
- Congratulations to Michelle Cook, XYL of Keith, KD8GXL, on passing her Technician test on January 17<sup>th</sup>. She is still awaiting her call sign.
- Welcome to Bob KD8MUS, Dave W1AFC, and Alan KF8PM who joined NOARS in January.
- An appreciative thank you to Steve WB3JVK for his donation of a band-pass filter to be installed on the 147.70 repeater in hopes of eliminating some of the RFI we have been experiencing.
- Bob Winston, W2THU, giving his presentation at the January meeting:



**Harold, WD8OFG, receiving belated Certificate of Appreciation**



**Tom, W8KYZ, receiving 2009 Ham of the Year Award**



## Minutes of the January 18, 2010 Meeting Submitted by: Darlene Ohman, KA8VTS

The meeting began at 7:30 p.m., 23 members and guests present.

**Presentation:** Robert Winston, W2THU, ARRL Assistant Section Manager & ARRL volunteer attorney, gave a great talk on antenna structure restrictions and PRB-1. It was very informative for all.

- **Treasurer's Report:** Tom Porter, W8KYZ was read and a motion was made and seconded to accept the report. The motion was passed.
- **Secretary's Report:** Darlene Ohman, KA8VTS, a motion was made and seconded to accept the minutes as printed in the newsletter. The motion was passed.
- **Education Committee:** The classes are over. Instructors were Carl W8KRF, Julie WD8ADE, Joe KD8MCN, Alex N8QL, Tom W8KYZ and others. We had seven students, who all passed the tests. We had one student who took all three tests; Tech, General and Extra and passed all of them. We are hoping to have another class soon. We would like to put together a NOARS VE team.
- **Membership:** Julie Wilmer, WD8ADE, we have three new members; Bob, KD8MUS, Dave, W1AFC, and Alan, KF8PM. It's time to renew your dues for 2010. 2009 membership status will be kept current until March 1, 2010.
- **Newsletter:** Carl, W8KRF: if you have anything that you want to put in the newsletter contact me or if you are not receiving your newsletter let either Julie or Carl know.
- **Web Site:** Carl Rimmer, W8KRF, there is a survey on the web site. Please take time and fill out the survey.
- **DX:** Al Moriarty, N8CX, the flux is up to 85; they are predicting that the flux will not go any higher than 90 this cycle. There are no DXpeditions right now, but there will be later this year.
- **Nets:** Harold Drake, WD8OFG, everything is going well. We are having trouble with people that are not mobile checking in when mobile stations are called on to check in.
- **Repeaters:** Steve Robbins, WB3JVK and Clark Beckman, N8PZD, the 5.15 is sounding good. 4.8 still has some inter-mod. Steve donated the money to buy some bandpass filters, we should have those in about 2 weeks. We need someone to look at EchoLink, it needs some work. Contact Steve if you know anything about EchoLink and if you are willing to help with the repairs.
- **Sunshine:** Rosemary Shook, KD8SC, was not in attendance. Tom, W8KYZ, will assume interim responsibility for the Sunshine Committee until a replacement is appointed. If you would like to assume this position, please contact Carl, W8KRF.

### Old Business:

- **Banquet:** Everyone had a great time.

### New Business:

- **Winter Hamfest:** A signup sheet was passed around for people to help at the hamfest.

The meeting was adjourned at 9:03 p.m.

**A Few Of The Callsigns Heard On The  
NOARS Nets. Wednesday and Thursdays nights  
On The 146.700 & 444.800 Repeaters In Elyria**

*January 1- January 28*

**WD8ADE – WDSADG – W8ADV – K8AGW – KD8FGY –  
W8FJR – W8GWD – WDF8IQJ – KD8JAN – WB3JVK –  
KD8KAA – KD8KRR – W8KRF – W8KYS – W8KYZ –  
WA8LGM – KD8MCN – KD8MUW – KD8MUX –  
KD8FGY – WD8OFG – K8SORE – KC8POL – N8QL –  
W8RET – N8RVE – K8RWC – KA8SWC – K8TV – KE8UV –  
KC8VFE – KA8VTS – W8WFQ – KA8WQL – K8WRS**

### NOARS Has Two Nets For You!

on 146.700 & 444.800 MHz Repeaters

#### 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: WD8ADE – WD8OFG – W8WFQ – W8KRF – KD8GXL

#### 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: W8KYZ – WB3JVK – N8CX – K8RWC – W8FAN – K8WRS



**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/](http://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!

**7Q, MALAWI** QSL Manager Allan, G0IAS, informs OPDX that Harry, 7Q7HB (G0JMU), is again heading to the warmer climate of Malawi for a period of 3 months or so. He was stuck in Nairobi but was hoping to be in 7Q-land via Lusaka on Thursday. Activity will probably be on the Digital modes and CW. QSL as usual is ONLY DIRECT to G0IAS with sufficient funds for return cards. NO BUREAU cards. NO eQSLs. Just old fashioned paper cards DIRECT!

**C6, BAHAMAS** Operators Bob/N4BP (C6AKQ), Mike/W4RUM (C6AUM) and Tim/N4UM (C6ARU) will be in Freeport, Lucaya, Bahamas, beginning Monday, February 15th, with Kevin/K4PG (C6APG) joining them on Thursday, February 18th. The operators will enter the ARRL International DX CW Contest (February 20-21st) as individual entries (Bob/C6AKQ on 80 meters, Kevin/C6APG on 40 meters and Mike/C6AUM possibly on 160 meters. Tim will announce his entry when he knows). Prior to the contest, they will be operating on the 30/17/12 meter bands, HF bands using CW and the Digital modes. QSL direct to their home call signs with SASE and/or LoTW.

**CN, MOROCCO** Mat, MJ0ASP, will be active as CN2MR between February 18-26th. Activity will be on the HF bands using mostly CW. He likes to contest, so he will probably be in the ARRL International DX CW Contest (February 20-21st). QSL via his home call sign (see [QRZ.com](http://www.qrz.com)).

**E5, NORTH COOK ISLANDS (Update)** Richard, AD7AF, currently active as E51WWA from Muri Beach on **Rarotonga (OC-013)** in the South Cook Islands, has announced that he will be active as E51WWB from **Tauhunu Village, Manihiki (OC-014)**, in the North Cook Islands, February 3-15th. Activity will be 40-15 meters using mainly CW. SSB and the Digital modes will be used as propagation conditions allow. Also, 80 and 10 meters will be used if conditions are favorable. He will use a K3 operating barefoot into a vertical and wire antennas. QSL via AD7AF. **EF8, CANARY ISLANDS** Operators Luis/EA8AY, Anders/EA8CN, Jeronimo/EA8NC and Anders/SM6CNN will be active as EF8N during the ARRL DX CW Contest (February 20-21st) as a Multi-2 entry. QSL via EA8AY. Visit the contest team's Web page at: [http://www.ea8ay.com/an8r\\_team](http://www.ea8ay.com/an8r_team)

**FRENCH ANTARCTIC TOUR (Update/Change)** Mehdi, F5FPF (FT5YJ/CE9XX/VP8DLM), reports that the French Antarctic expedition by yacht initially scheduled for 2012 will take place in February-March 2011. The entire trip will last six weeks. There is an opportunity for one last person to join the expedition as amateur radio operator or tourist. For more informations please E-mail him at: [f5fpf@orange.fr](mailto:f5fpf@orange.fr)

**HH, HAITI** Phil, F4EGS, will be joining the International Forces and Non-governmental organizations (NGO) which are working to help the survivors in Haiti after the earthquake. He will be staying around the Port au Prince Airport area. Phil will be taking his FT-100 and a dipole and may be on the air passing ham traffic as HH/F4EGS.

**J7, DOMINICA** Gaynell, KK4WWW, will be heading back in Dominica for a mission trip and will be active again as J79WWW between January 20th and February 4th. He will be operating from there as much as possible during his free time. QSL via N4USA.

**JD1, MINAMI-TORISHIMA** Masa, JA6GXX, will once again be active as JD1BMM from **Marcus Island (IOTA OC-073, JIIA OC-073-001)** between January 20th and mid-February. Activity is usually on all bands and modes. QSL by the Bureau or direct ([QRZ.com](http://www.qrz.com) address).

**PLEASE NOTE:** A report states that this may be "the last chance to make a QSO with JD1/M" for some time. The Japanese Coast Guard radio station on the island is closing down on December 1st, and the amateur radio club station will close in February.

**OH, FINLAND (OPENING FOR WORLD'S NORTHERNMOST CONTEST TEAM, OH8X)**

"Far above 60 degrees North in the icy arctic reaches of Northern Finland lies a log house with an original Finnish sauna and cozy sleeping quarters along with the radio station OH8X with its massive antennas springing up from the barren tundra. See [www.radioarcala.com](http://www.radioarcala.com) Should you like to experience the deep North with its blazing Aurora Borealis coupled with unique polar openings to the United States, this is your chance. Radio Arcala will host four or five younger contest types participating as a multi team in the ARRL DX (CW) Contest on the weekend of February 20-21, 2010. The event will start Thursday evening on the 18th and finish on Monday the 22nd. SSB/WARC operating will also be available on those days, including on a limited scale during the contest weekend. Your destination will be the city of Oulu from where we will take care of you. Just drop us a note and explain your desire as well as your potential as an operator on a multinational CW team. Send your email to team leader Marius Hauki, LB3HC [[mhauki@gmail.com](mailto:mhauki@gmail.com)] and he will give you more details. Please contact Marius soon, but no later than January 30th. You may also approach your favorite Contest Club and/or contest operators in your area for their expected support in making your trip a reality. You would owe them an adventure report upon your return."

**SPECIAL EVENT** The Nacogdoches Amateur Radio Club (W5NAC) will again hold a special event station in remembrance of the Columbia Space Shuttle disaster on February 1, 2003. The event will occur on Saturday, February 6th. Ham operators from other areas are welcome to attend the event at the McMichael Middle School located in Nacogdoches. If you cannot come to Nacogdoches, listen for the special event station on 20 or 40 meters. Operation will begin at 0800 CST (1400z) and end at 1500 CST (2100z). They plan to operate on 7200 and 14270 kHz, plus or minus QRM. The local VHF repeater 146.84, negative offset, 141.3 PL, will be monitored as a talk-in channel.

**T6, AFGHANISTAN** Jim, WA2EWE, will be active T6AF from Kabul during the ARRL DX CW Contest (February 20-21st) as a Single-Op/All-Band/Low-Power entry. When Jim can find time, you can usually look for him on RTTY or PSK on 20 or 17 meters. He was heard this past Friday on 20m RTTY. QSL via LoTW, eQSL or WA2EWE by the Bureau or direct.

Please Note: This is only a SMALL part of: OPDX Bulletin #943 LOG TO: [www.papays.com](http://www.papays.com) for the rest (Space permitting, only the parts relative to the time of Distribution of The N.O.A.R.S. Log Were Included Here.)

FEBRUARY'S CONTEST CORNER			MODE		
DATE	BANDS	NAME	PH	CW	DG
2/6-2/7	10	10-10 Winter Phone QSO Party	X		
2/7	80-20	North American Sprint		X	
2/8-2/12	6+	School Club Roundup	X	X	X
2/14	80-20	North American Sprint		X	
2/20-2/21	160-10	ARRL DX Contest		X	
2/27-2/28	80-10	North American QSO Party			X

Check for updates, additional contests, and a downloadable PDF version online at [www.arrl.org/contests](http://www.arrl.org/contests)

**Got 6?**  
 Contributed By N8OFS Andy

```

MRAC FM{6M AWARD}
DATE1:FEB21 2030Z-2100Z 2010
MODES:52.53FM+52.55FM+52.57FM+52.59FM
EXCNG:CALL+GRID4
INLOG:BAND+LOCALTIME+CALL+GRID4
LOGTO:n9ux@arrl.net
RULES:http://www.w9rh.org/documents/F
M-Contest-Rules-2010.pdf
    
```

**WANT MORE 6?**  
 Go to: <http://www.noars.net/got6/GOT6.txt>

## For Sale & Advertisement's Page

All Submissions must be sent to w8krf at noars dot net or to: NOARS Log, 161 Herrmann Drive, 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 ads at our discretion.

**WD8IQJ** John (216) 544-5761

6/09

- **Beam Antenna SIX Meters**  
5 element antenna (Cushcraft?)  
New hardware! Get ready for the summer band openings!
- **Sears / Konica 35MM SLR** (film) camera Many extras / lenses \$200

### **Phil's Ham Radio Store**

Ham Gear – Accessories  
512 Broadway, Ste 103  
New Haven, IN. 46774  
(888) 562-8927  
Fax (260) 399-6230

Email: [sales@philshamradiostore.com](mailto:sales@philshamradiostore.com)

Web: [www.philshamradiostore.com](http://www.philshamradiostore.com)

### This space available for your ad

Contact Carl W8KRF  
at  
[president2010@noars.net](mailto:president2010@noars.net)

**W8KYZ** - Tom (440.930.9115)

8/09

- **Micronta SWR/Power Tester-Meter.**  
20W/200W/2000W. 50 Ohm. Model 21524 (3 - 30 MHz)...\$10.00.
- **World Radio Lab. "Globe Scout" 75 Watt CW Transmitter. Model 90.** With Instruction Manual...\$40.00.
- **Whisper Fan by Rotron Inc.** Model WR2HI 115V 50/60 HZ. 4 1/2" X 4 1/2" X 2" High....\$5.00
- **Electro Products Laboratories Model "BJ" Junior D.C. Power Supply** (6 Volts Adjustable) Metered (0 - 20 Volts Input) and (0 - 20 Amperes Output)...\$20.00.
- **Manual for World Radio Lab. Transmitter Model 680A. Make Offer.**
- **Manuals – FREE**
  - CORNELL-DUBILIER MODEL AR-22R ROTOR MANUAL.
  - KENWOOD MC-60A MIC, INSTRUCTION MANUAL
  - ELECTRO-VOICE MODEL 664 CARDIOD MIC. MANUAL

operated by TestParts.com

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Evans, GA 30809



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or HM-118.

### FOR SALE

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CALL JIM (N8MPC) 440.774.1275.

FREE

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CAPACITORS, RESISTORS, ETC, ETC.

CALL SANDY, W8KYS

440.647.2255.

See Sandy at the Winter Hamfest

### This space available for your ad

Contact Carl W8KRF  
at  
[president2010@noars.net](mailto:president2010@noars.net)

### This space available for your ad

Contact Carl W8KRF  
at  
[president2010@noars.net](mailto:president2010@noars.net)

# 2010 WINTER HAMFEST

**Sunday, February 7, 2010**

**Gargus Hall, 1965 North Ridge Road E, Lorain, OH**

**8:00 AM until 12:00 PM**

**Vendor Setup: 6:00 AM**

**Donation Only \$6.00**

**Including:**

**Pancake & Sausage Breakfast  
(While they last, come early)**

## **Tables Reservations:**

**Darlene Ohman KA8VTS**

**4122 Bush Ave., Cleveland, OH 44109**

**Call before 11 pm EST - (216) 398-8858**

**Email: secretary2010 (at) noars (dot) net.**

## **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 the Elyria Police Department Community Room, 18 West Ave in Elyria, OH.
- The meetings are open to the public. And all are welcome. Tune to the 9 pm. Wednesday night NOARS net on the 146.700/444.800 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 heard at 146.700 (-) - 444.800 (-) in Elyria, OH. and 145.150 (-) In North Royalton OH.
- Regularly scheduled NOARS nets are every Wednesday night at 9 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 to participate. In fact all participation is encouraged and appreciated.
- 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, 161 Herrmann Drive, Avon Lake, OH 44012**



# The Northern Ohio Amateur Radio Society Membership Application

Mail completed form with a check/money order to:  
**NOARS- Membership**  
161 Herrmann Drive  
Avon Lake, OH 44012

Call Sign \_\_\_\_\_ Class \_\_\_\_\_ Birthday Month \_\_\_\_\_

Name First \_\_\_\_\_ Init \_\_\_\_\_ Last \_\_\_\_\_

Type: Full (\$10/yr) \_\_\_ Associate (\$5/yr) \_\_\_ Family\* (\$2/yr) \_\_\_ Life/Honorary \_\_\_

Expiration date: 12 / 31 / \_\_\_\_\_ ARRL Member? (Circle one) Y N

Street Address: \_\_\_\_\_ Apt #: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Email Address: \_\_\_\_\_  Keep Private\*\*

Phone: (\_\_\_\_) \_\_\_\_\_  Keep Private\*\*

Mailings:  E-Mail  Website  USPS

Ham radio interests: \_\_\_\_\_

\*Call Sign of Family Member: \_\_\_\_\_ Amt Pd: \_\_\_\_\_

Mailings: Delivery method for monthly newsletter, roster, and/or roster updates.

\*\* If checked, email address and/or phone number will not be disclosed in roster

For Office Use:	
Amt Pd:	_____
Date Pd:	_____
Renewal:	_____
New:	_____
Initials:	_____
Data Entry:	_____
Comments:	_____
	_____

Northern Ohio Amateur Radio Society

Name: \_\_\_\_\_ Call sign: \_\_\_\_\_

Rcvd hv: \_\_\_\_\_ Amount Paid: \_\_\_\_\_

(Cut on dotted line)

**N.O.A.R.S.**  
161 Herrmann Drive  
Avon Lake, OH. 44012



THE NORTHERN  
OHIO AMATEUR  
RADIO SOCIETY

45

Years Serving  
The Amateur Radio  
Community



Dated Material

Mailing Label