



# NOARS LOG



The newsletter of:  
**The Northern Ohio Amateur Radio Society**

## Welcome to NOARS country!

### December 2004

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>NOARS meetings are held at GARGUS HALL 1969 N. Ridge Rd. Lorain, OH</b>			<b>1</b> NOARS Rag chew net 9 pm.	<b>2</b> NOARS Tech net 8 pm.	<b>3</b>	<b>4</b> NOARS Banquet 6 pm.
<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b> NOARS Rag chew net 9 pm.	<b>9</b> NOARS Tech net 8 pm.	<b>10</b>	<b>11</b>
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b> NOARS Rag chew net 9 pm.	<b>16</b> NOARS Tech net 8 pm.	<b>17</b>	<b>18</b>
<b>19</b>	<b>20</b> NO NOARS Meeting this Month	<b>21</b>	<b>22</b> NOARS Rag chew net 9 pm.	<b>23</b> NOARS Tech net 8 pm.	<b>24</b>	<b>25</b>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b> NOARS Rag chew net 9 pm.	<b>30</b> NOARS Tech net 8 pm.	<b>31</b>	

**NOARS nets are open to ALL!**  
**Tune 146.70/10 VHF or 444/9.8 UHF**  
**WD8IQJ – K8PJS – W8KYS**

<b>Editorial and Contact Information</b>	<b>Pg 2</b>	<b>DX and Contest Corner</b>	<b>Pg 5</b>
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# The Northern Ohio Amateur Radio Society K8KRG Volume 40 Issue 12



Well here I am again. Once again finding myself honored by the members of this great association of fellow hams! I cannot express enough my feelings of pride and accomplishment that you've chosen me to lead you again in 2004! Its been 17 years since I've sat at the front table and I hope that I won't disappoint you.

Like I've said in the past a lot of things have changed in this hobby. Not excluded is this fine organization we know as NOARS.

But instead of dwelling on the history of accomplishment of this progressive society. I would rather look to the future and direct my energy towards the continuation of this clubs place in the wonderful world of ham radio. I would like to see a lot of things come to pass in the next year. And as this column evolves from an editorial to a presidents message I am hoping that I'll be able to articulate them as time goes by. But I have to make it very clear at the outset! This is not *WD8IQJ*'s club it's yours, all I am is just the conductor of a great orchestra.

Newsletter editor

John McKenna – *WD8IQJ*

PO. BOX 432

Elyria, OH. 44036-0432

Or

E-Mail me at:

[wd8iqj@yahoo.com](mailto:wd8iqj@yahoo.com)

All constructive criticism is welcome!

*John ...*

## Who's who at NOARS?

### *2004 Elected Officials*

President: W8TAS Ted Shook  
Vice President N8PZD Clark Beckman  
Treasurer W8KYZ Tom Porter  
Secretary KA8VTS Darlene Ohman

### *K8KRG License Trustee*

W8EU Mike Willemin

### *Committee Heads for 2004*

News Letter Production: WD8IQJ John  
A.R.R.L. V.E.: W8KYZ Tom Porter  
Banquet: KD8SC Rosemary Shook  
N8DIU Gary Gargus  
Property Manager: WD8CSP Ned Jones  
DX Coordinator: KB8NW Tedd Mirgliotta  
USS COD Coordinators: KA8WMX Ted Jones  
WD8RZG Don Winner  
Net operations Manager: WD8IQJ John McKenna  
Hamfest Crew : W8KYZ Tom Porter  
N8PZD Clark Beckman  
Sunshine Committee: KD8SC Rosemary Shook  
Repeater upkeep: N8PZD Clark Beckman  
Membership: WD8IQJ John McKenna

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 ON THE AIR!**

#### **Weekly Nets**

146.700 Wednesday Night Rag chew 9 pm local  
NCS: WD8IQJ – K8PJS

146.700 Thursday Technical discussion net 8 Pm  
local time

NCS: W8KYS – K8PJS

All are welcome on NOARS nets!

**Roll Call Nov. 15<sup>TH</sup> Meeting 26 Members and guests in attendance**

N8CX AL	W8TAS TED	WA8Q JACK	KA8VTS DARLENE	K8JWS JOHN
WD8OFG HAROLD	WD8IQJ JOHN	K8PJS PATRICK	AF8B DON	KA8WMX TED
KD8SC ROSEMARY	K8RWR JOHN	WD8BJY DOUG	N8VUB BRIAN	KC8BXH JONI
N8PZD CLARK	W8KYZ TOM	KC8ZZH RICH	W8ADV RAY	KC8BQO KEN
N8DIU GARY	W8DJM DJ	N8MPC JIM	KC8POL BOB	ASHLEIGH
		KC8TMZ SILVIA		

Solution to November's puzzle

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

I want to take this opportunity to express my thanks and show my appreciation for the cooperation and support of the N.O.A.R.S. community in making my two terms as president the pleasure it was. Thanks to you it was easy duty.

I want to wish the incoming administration the best of luck and with such a great group of hams in this organization. I'm sure that this club will continue to prosper and continue to be a great resource for the Northern Ohio Amateur radio community.

BEST 73  
Ted Shook W8TAS

**Silent Key**

Francis (Fran) Chatley WB8RBU  
1919 - 2004

Passed away at his upstate NY home. Fran is remembered as a long time NOARS member and his stirring invocations at our Christmas banquets.

**DECISION '04**

**Election results announced!**

Here is your executive and administrative committee for 2005:

President: *WD8IQJ* John K McKenna  
 Vice President: *N8PZD* Clark Beckman  
 Treasurer: *W8KYZ* Tom Porter  
 Secretary: *KA8VTS* Darlene Ohman

Thanks to the election committee *WD8BJY* Doug who produced and supervised the election and *KD8SC* Rosemary who helped with the count and certification of the 2004 election. Doug reports that 64 of the 117 ballots sent were returned.

**Last word on Field day!**

**K8KRG/KM8BF** First place in OH Class 5-A!  
 Congratulations to your field day crew  
 Best result in years!

**BRAIN FOOD**

Think You Know All The Q-Codes?

QRH	
QRI	
QRY	
QSP.	
QRS *	
QRV	
QSW	
QSD	

Answers on page 6

(\* My personal favorite.. ed)

Submitted by KA8VTS Darlene Ohman  
November 15, 2004 Meeting Minutes:

**The meeting began at 7:30 p.m. with 25 members and guests present.**

**Treasurers Report** - The treasurers report was read and a motion was made and seconded to accept the report. The motion was passed.

**Secretary Minutes** - The minutes of the October meeting were read and a motion was made and seconded to accept the minutes as read. The motion was passed.

**Newsletter** - Anyone who has not received their newsletter should let John, WD8IQJ or Tom, W8KYZ know as soon as possible. The clubs web site address is [geocities.com/k8krq](http://geocities.com/k8krq).

**Nets** - The nets are going real well. The Thursday night net is going very slow. We need more net control operators.

**Field Day** - The results are in the current issue of QST magazine and in this newsletter. Field Day pins have arrived and will be given to everyone who participated.

**Sunshine** - A planter was sent to Bob Super, N8HDE, he had a double knee replacement. Bill Johnson, KB8AM has been in the hospital. Fran Chatley, WB8RBU passed away in New York on November 14, 2004.

**Christmas Banquet** - Rosemary Shook, KD8SC - The number of tickets sold is down from last year. \$15.00 for dinner, music and prizes is a very small amount to pay for all that is given. The dinner alone costs more than \$15.00. Some thought should be made as to whether we should have a banquet next year.

**Old Business** - The club received a letter from the Wireless Club thanking us for donating the ARRL books to the Veterans Hospital.

**Election Committee** - Doug Krucinski, WD8BJY and Rosemary Shook, KD8SC counted the ballots. 117 ballots were sent out and 65 ballots were returned. A motion was made and seconded to destroy the ballots. The tally of the ballots was as follows:

President: John McKenna, WD8IQJ  
 Vice President: Clark Beckman, N8PZD  
 Treasurer: Tom Porter, W8KYZ  
 Secretary: Darlene Ohman, KA8VTS

D.J. Murray W8DJM won the 50/50 drawing.

Ken Roberts KC8BQO won the door prize, a multimeter.

A motion was made and seconded to adjourn the meeting.  
 The meeting was adjourned at 8:19 p.m.

**A few of the callsigns heard on the  
 Wednesday night NOARS net at 9:00 pm  
 on the 146.70 repeater in Elyria  
 10/27 thru 11/22**

W8KYS W8QXF N8MPC WA8PKC KC8VCM  
 K8PJS WA8Q W8ADV KC8VZZ K3LOW  
 N8LV W8TAS WD8IQJ AF1K WB8UPA  
 W8EDS KC8TBB KC8TYB K8RWR KC8TJH  
 K8AGW

**DON'T  
 forget the *other* NOARS net  
 THE THURSDAY NIGHT TECH NET!  
 Thursday nights at 8:00 on the 146.70 repeater in  
 Elyria .**

You don't have to be a techno-geek to enjoy this  
 friendly net slanted towards the tech side of ham radio  
 questions and answers always welcome

**Upcoming events**

Have your event posted here!

Send copy to: NOARS newsletter editor. PO BOX 432 Elyria, OH. 44036-0432  
 Or Email [wd8iqj@yahoo.com](mailto:wd8iqj@yahoo.com) - deadline is third Tuesday of each month for the following  
 months publication

**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!**

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn Packet Cluster Network, AB5K & the AR TelNet Clusters Network, AA1M, K1XN & GoList, NC1L, KE2LJ, NG3K, W3UR & The Daily DX, N4AA & QRZ DX, W4WX, W5BOS, K8YSE, N8MR, DL1EK & The DX News Letter, DL2FAG, EA8CAC, F5CWU & La Gazette du DX, F5NQL & UFT, G0IAS, GM4SUC, HA9SU, HP1AC, I1JQJ/IK1ADH & 425 DX News, IN3VZE, JA1ELY, JI6KVR & JA-IOTA Islands News, LA9VDA, LU5WW, LU9ESD, M0BBB/5B4AFM, OH2HAN, OK1MU, PS7AB, SP5XSD, VA3RJ & ICPO, VK2CE, VK2XQ, YL1ZF and ZS4BS for the following DX information

**ACIAG:** The members of Croatian Amateur Radio Association, a member of the IARU, formed the "All Croatian Islands Award Group" (ACIAG) at the beginning of October 2004. The ACIAG is opened to all radio amateurs and people who like chasing islands. The ACIA Group is an organization where you do not have to pay a membership fee; the membership is free. Your membership includes a membership award with a membership number; all you need to do is send the membership application with 3 IRC coupons to cover the postage expenses. The ACIA Group issues two awards: All Croatian Islands Award (Basic). And the All Croatian Islands Award (Diamond) Awards above are available as Trophies, Diplomas, Certificates and Medals. Islands are "activated" very regularly. Also, this is appealing and available to the SWLs. Everything concerning the ACIAG and ACIA awards can be found on the Web page at: <http://www.9a7k.com>

**HS0ZDZ/G3NOM AND HS0AC/HS72B CLUB STATION UPDATE:** Robin, WA6CDR, informed OPDX with good and bad news. First the good. The HS72B CQWW CW and Special Operations team (DL3DXX, DL5LYM, G4ODV, G4UZN, WA6CDR, HS1CKC, HS0ZDX and HS0ZDZ) have received a very generous donation, and they will use it as matching funds toward a new, well equipped FT1000MarkV, shipping & customs costs for several FT980s they received with another generous donation, and repair/re-tube of their amplifiers, including a newly donated FL2100. They need your help to complete this project and bring the RAST club station online as a permanent full performance station. The team members are putting up their own money to make this happen; they need your help to finish the job properly. Now for the bad news. This project, however, was put on hold last week when station leader, Ray, HS0ZDZ/G3NOM, suffered a heart attack and is still hospitalized. The project has gotten everything back on track through major efforts of HS1CKC and HS0ZDX, but they still need your help. However, the news about Ray, HS0ZDZ/G3NOM, is not good, according to HS0ZDX. Anyone who would like to send their wishes for Ray's recovery may send them to: [dx@thai.com](mailto:dx@thai.com) HS0ZDX will print out the messages and pass them on to his wife, daughter and son-in-law in Bangkok. OPDX and its readers would like to send out our best wishes and prayers for Ray's speedy recovery

**IOQHM/IAOPS, ANTARCTICA:** The Mario Zucchelli Station (formerly known as Baia Terra Nova) at Terra Nova Bay, Victoria Land (AN-16), is improving the personnel. Among the 80 people present at the Base, there is Dr. Mario Pillon, a researcher from the Italian ENEA Dept. who holds a personal Ham callsign, IOQHM. He has been showing up on 14180 kHz at 1845z signing IOQHM/IAOPS. However, as this was being typed, Mario is now signing IOQHM/KC4. Mario is expected to remain in Antarctica until around mid- February. He could also operate from Dome C... and probably from other remote camps in the future if time and equipment permit. The Mario Zucchelli Station (MZS) is referenced for WAP as: WAP ITA-01

**IOTA NEWS:** AF-004. Members of the Canary Islands DX Society will activate Tufia Rock as EF8TDX, December 11-12th. Tufia Rock is valid for the Spanish Islands Award (D.I.E), reference: S-101. Activity will be on 15 meters SSB only. The team that is activating AF-004 are licensed EC8 operators and are restricted to only operate below 21200 kHz. QSL Manager is EC8AUA (more details on QRZ.com). All QSLs will be posted through the URE Bureau after the operation. For more updated information, and also video/pictures after the EF8TDX activation, visit the Web page at: <http://www.cidxs.com>

**KC4, ANTARCTICA:** Chris, KC4/N3SIG, reports that he "finally hooked up the ICOM 706 to the Amp in the ham shack, the antennas are all fixed and it's time to DX!" Look for him on 14243 kHz at or around 1930-2000 Local Eastern Time. ALL QSLs go to his home address and will be answered when he gets home.

**Contest Corner**

Short list of upcoming events this month more details at [arrl.org](http://arrl.org) contest schedule

**ARRL 10 Meter Contest--**0000Z Dec 11-2400Z Dec 12. See Nov *QST*, p 104

**Great Colorado Snowshoe Run--** CW, sponsored by the Colorado QRP Club from 0200Z-0359Z Dec 11. 40 meters only.

**North American Meteor Scatter Contest--**any mode, sponsored by the WSJTGROU from 0000Z Dec 11-0700Z Dec 15 (the Geminids meteor shower). Frequencies (MHz): 50, 144, 222, 432

**OK DX RTTY Contest--**sponsored by the Czech Radio Club, 0000Z-2400Z Dec 18. Frequencies: 80-10 meters according to IARU band plan.

Stew Perry Top Band Distance Challenge--CW, sponsored by the Boring Amateur Radio Club, 1500Z Dec 18-1500Z Dec 19.

**PSK31 Death Match--** PSK31 and PSK63, sponsored by the Michigan DX Association, 0000Z Dec 18-2400Z Dec 19. Frequencies: 80-6 meters, PSK31 and PSK63 count as separate "bands".

**160-Meter Contest--CW/SSB--** sponsored by *Radio Magazine*, from 0000Z-0200Z Dec 18. Russian 160-Meter Contest--CW/SSB--sponsored by *Radio Magazine*, from 0000Z-0200Z Dec 18.

**Christmas Lights QSO Party--**all modes, sponsored by the Amateur Radio Lighthouse Society, 0000Z Dec 18-2400Z Jan 2, 2005. Frequencies (MHz): CW--1.830, 3.530, 7.030, 14.030, 21.030, 28.030, SSB--1.970, 3.970, 7.270, 14.270, 21.370, 28.370, plus VHF and repeaters

**DARC Christmas Contest--CW/SSB**, sponsored by the Deutscher Amateur Radio Club, 0830Z-1100Z Dec 26. Frequencies (MHz): CW--3.510-3.560, 7.010-7.040, SSB--3.610-3.650 and 3.700-3.775, 7.040

**RAC Winter Contest--CW/Phone**, sponsored by the Radio Amateurs of Canada, 0000Z-2359Z Dec 18. Frequencies (MHz): CW--25 kHz up from the band edge (check on the half hour), Phone--1.850, 3.775, 7.075, 7.225, 14.175, 21.250, 28.500, 50 and 144 MHz..

**KP1 & KP5, NAVASSA AND DESECHEO ISLAND:** "The Lone Star DX Association (LSDXA) has joined the effort to get Navassa (KP1) and Desecheo (KP5) islands back on the air! As the primary DX organization associated with this effort, the LSDXA will assist in many important ways to achieve our common goal by encouraging Amateur radio operators to contact their Congressmen to support new legislation to re-open these islands, and help raise needed funds for court review of the U.S. Fish and Wildlife Service (FWS) ban of Amateur Radio on these islands.

**LIGHTHOUSE ACTIVITY:** Members of the LABRE/RN will activate the Lighthouse Gameleira, December 3-5th. They will use the callsign ZY7LH. Activity will be on CW, SSB, PSK31 and RTTY. Bands were not mentioned. Reference numbers are: DFB RN 05, ARLHS BRA 133 and Grid HI24GS. QSL via PS7AA: LABRE/RN, P.O. Box 251, 59010-970, Natal / RN - BRAZIL

**VQ9, CHAGOS ISLANDS:** Roger, W9ROG, will be on Diego Garcia (AF-006) until the end of the year with the United States Air Force Security Forces. He is currently operating as VQ9OG on his days off and will be operating on 80-10 meters including the WARC bands. Watch 7067 and 7088 kHz after 1930z. Watch 15 meters SSB between 1200-140 and 20 meters SSB after 1400z. QSL via his home callsign of W9ROG.

**PLEASE NOTE THIS IS A SMALL PART OF:  
OPDX Bulletin No. 686  
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.)

### For Sale & Advertisement's Page

All Submissions must be sent to wd8iqj@yahoo.com or sent to  
 PO BOX 432 Elyria, OH. 44036 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 unless updated!  
 NOARS reserves the right to refuse ad's at our discretion.

**W8TAS** Ted (440) 365-8041 12/4  
**ICOM 706 NEW!** Never used \$700

**N8MPC** Jim (440)744-1275 11/4  
**BK** model 2160 Oscilloscope  
 60Mhz. Dual trace and time base  
 2 new Probes, Manual & Schematic  
 Asking \$350

**NI8N** Jack (419) 499-1308 9/4  
 Ni8n@accorwalk.com  
**MOSLEY TA-33** Beam antenna  
 Rebuilt last year. On the ground  
 Asking \$150  
**ROHN 25'** Fold over tower (down)  
 (Location Dayton)  
 6 Element 10M Yagi (down)  
 (location Dayton)

**WD8OTY** John (440) 988-8755 9/4  
**KENWOOD TW4000** Dual Band  
 20 watt each band! Including the  
 tone and voice modules  
 Asking \$75

## NOARS Winter Fest® February 6<sup>th</sup> 2005

@

**Gargus hall  
 Lorain, Ohio  
 8 AM – 1 PM**

Hourly door prizes  
 Main prize at NOON  
 Admission STILL \$5  
 (Including pancake breakfast!)  
 (while they last! Come early!)

**Gargus Hall is located at  
 1965 Northridge Rd. (North side of street)  
 1.2 miles West of Rt. 57  
 which is the extension of Rt.254  
 Just north of Turnpike (I-80) exit 8 (Rt. 57)  
 Just North of I-90 exit 145 (Rt. 57)  
 Motels – dining in the area  
 Contact for Information or table reservations (a must)  
 Clark Beckman N8PZD (216) 671-8795  
 Tom Porter W8KYZ (440) 930 9115**

#### ANSWERS TO BRAIN FOOD (PG 3)

QRH	Does my frequency vary? Your Frequency varies.
QRI	How is the tone of my transmission? The tone of your transmission is 1= Good 2=Variable3= Bad
QRY	What is my turn? Your turn number is ____
QSP.	Will you relay to? I will relay to.
QRS	Shall I send more slowly? Send slower ____ wpm
QRV	Are you ready? I am ready
QSW	Will you send on this frequency ____ KHZ. I will send or reply on this frequency ____ KHZ.
QSD	Are my signals mutilated? Your signals are Mutilated

**WD8IQJ** John, (216) 544-5761 12/4  
**Cushcraft 5 Element 6M Beam** (on ground) new hardware good condition .....\$50 will deliver (within 40 miles)  
**Sears (Konica) KS-1 35 MM SLR Camera Kit** With: 28mm, 50mm, 135mm Telephoto, 80-200mm zoom/macro Lenses. (K-Mount) Vivatar 225 Flash attachment, Filters, Leather Cases,Steady rest, Zip Case, Flex Trigger. All You need to get serious about 35mm (film) photography..... \$400  
 (will not separate)



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

Puzzle1204	
WORD LIST	
ACTIVE	IMAGE
BACKLASH	QUARTZ
BAND	QUIETING
CARRIER	SWEEP
DAMPEN	TRAPS
ECHO	TRIM
FRINGE	ULTRA
FUSE	VIDEO
GROMMET	WIRE
HARMONIC	WWV
HEATER	XENON

### 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.

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Meetings are held at 7:30 p.m. sharp on the third Monday of every month at:  
GARGUS Catering Hall - 1969 North Ridge Road Lorain, 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.

NOARS can be found on the World – Wide – Web at: <http://www.geocities.com/k8krq>

NOARS also operates the Amateur radio station aboard the U.S.S. Cod the WWII Submarine museum next to Burke Lakefront Airport. In Cleveland. NOARS members are welcome to operate the club station there between the hours of 11 AM. and 5 PM. And will be admitted to the museum for that purpose at no charge.

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 PO box 432 Elyria, OH. 44036-0432.

Use the handy application form on the reverse to Join NOARS

Use this form to Apply for new membership, or to renew a membership, or to change information on file

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 \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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

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

\*Call sign of family member \_\_\_\_\_ Amount paid \$ \_\_\_\_\_

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

iqj/081804

N.O.A.R.S.  
PO. BOX 432  
Elyria, OH. 44036-043



U.S.  
Postage

Dated Material



Mailing Label