



NOARS LOG

Our
42nd Year
Serving The
Amateur Radio
Community

The Newsletter of:
The Northern Ohio Amateur Radio Society

Welcome to NOARS country!

January 2006

SUN	MON	TUES	WED	THUR	FRI	SAT
NOARS meetings are held at: GARGUS HALL 1965 N. Ridge Rd. Sheffield Oh.				V.E. Exam Schedule: 1 P.M. Third Sunday of each Month. Elyria Red Cross 2929 N. Ridge Rd. Elyria, Oh. (Across from old Midway Mall)		
1	2	3	4 NOARS NET 9 pm. NCS: W8KYZ	5 Tech NET 8 pm. NCS: W8KYS	6	7
8	9	10	11 NOARS NET 9 pm. NCS: WD8OFG	12 Tech NET 8 pm. NCS: W8KYS	13	14
15 VE Exams 1 pm.	16 NOARS meeting 7:30 PM	17	18 NOARS NET 9 pm. NCS: WD8IQJ	19 Tech NET 8 pm. NCS: W8KYS	20	21
22	23	24	25 NOARS NET 9 pm. NCS: K8PJS	26 Tech NET 8 pm. NCS: W8KYS	27	28
29	30	31	NOARS nets are open to ALL! Tune 146.70/10 VHF or 444.800 UHF			

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The Northern Ohio Amateur Radio Society K8KRG January, 2006 Volume 42 Issue 01



Happy 2006 in NOARS Country

Its Too soon! A new year? WOW! How time flies. It seems like yesterday I was making an Issue 1 editorial. Seems like time goes by faster and faster every month. Winterfest is going to be here before we know it and then fieldday, hamfests and summer antenna projects. Seems like 05 went by just too darn fast.

What's your resolution this year? Make more money? Lose some weight? Stop Smoking? All good ideas. And best of luck with whatever yours are. Mine is to try to get on the air a little more. And enjoy the world's greatest hobby a little more. How about you? Isn't it time you spent a little time on yourself? Enjoy them fruits of your hard work. After all why else did you go up that tower and study for that upgrade? Get on the air! To blazes with that pesky TVI whiner! After all how many time can he/she watch those re-runs of CSI? When you are doing the public a real service! Its your turn! You painted and caulked and spent your time in the crawspace with that itchy fiberglass. Now its time! Sit down. Get that hot beverage turn on the radios treat the rest of the household to the wonderful static and whistles that we love. We've kept that stuff to ourselves too long! Time to share. You've earned it!

I want to welcome N8CX Al Moriarty who joins us as our clubs V.P. This year to help fill out the front table. Al brings to that position many years of experience in administration at other local area hamradio clubs

It's nice to see something just for hams for a change. Look at that article on page three. A scholarship plan for hams only. An incentive for school age people to actually get their tickets and join us. on the air. And get smart too! What a concept!

Congratulations are in order to: N8CX Al Moriarty honored for his tireless efforts on NOARS behalf as Ham - Of - The - Year Also Honored was W8KYS Sandy who was recognized for his tireless work as NCS on your Thursday night Technical discussion net at 8:00pm with the 2006 presidents service award.

It was one of those decisions that was hard to make since at NOARS we are lucky having such a talented crew who ALL seem to dig down a little deeper and find that little bit extra to make the ham community we are in a better place. Whether its helping out with towers and antennas or sitting at the computer for hours doing the mundane. There just isn't enough plaques and awards to cover all the good people here at NOARS. That's why it's such a pleasure to sit at the front desk and watch a very talented orchestra play well no matter what.

Best 73 and CUL..... John

John McKenna - W8IQJ President NOARS

PO. BOX 432

Elyria, OH. 44036-0432

Or: E-Mail me at: wd8iqj@yahoo.com

Who's who at NOARS?

2006 Elected Officials

President: W8IQJ John McKenna
Vice President N8CX Alan Moriarty
Treasurer W8KYZ Tom Porter
Secretary KA8VTS Darlene Ohman

K8KRG License Trustee

W8EU Mike Willemin

Committee Heads for 2006

News Letter Production: W8IQJ John

A.R.R.L. V.E.: W8KYZ Tom Porter

Banquet: K8PJS Patrick Sweeney

N8DIU Gary Gargus

Property Manager: W8BJY Doug Krucinski

DX Correspondent: N8CX Al Moriarty

USS COD Coordinators: KA8WMX Ted Jones

Net operations Manager: W8IQJ John McKenna

Hamfest Crew : W8KYZ Tom Porter

N8PZD Clark Beckman

N8CX Al Moriarty

Web Master@www.noars.net: K8JWS John Schaaf

Sunshine Committee: KD8SC Rosemary Shook

Repeater Upkeep: N8PZD Clark Beckman

Membership: W8IQJ 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: W8IQJ - K8PJS - W8KYZ - WD8OFG - KC8TMZ

146.700 Thursday Technical discussion net 8 Pm

Local time

NCS: W8KYS - K8PJS

All are welcome on NOARS nets!

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Quickies

Submitted By W8KYZ Tom

- Effective 1/8/06 Postage Is increased 5.4% (This means a first class letter will be \$.39)
- RMS Titanic Webpage. Great site with pictures from the radio room aboard www.hf.ro/
- New YL site. Announced by *M3JTO* Jackie created: Ladies on The Air webpage. Log on to : www.ladiesontheair.proboards37.com It Provides YL Hams a place to discuss their hobby
- New at the ICOM site A new video release. (Volume 3 in series) www.icomamerica/amateur/video (High Speed connection needed for best results)



NOARS

Is on the web
www.noars.net



Scholarship Plan Announced

THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with headquarters in Washington, D.C., plans to administer fifty-four (54) scholarships for the academic year 2006 - 2007 to assist licensed Radio Amateurs. The Foundation, composed of over seventy-five local area Amateur Radio Clubs, fully funds three of these scholarships. Ten are funded with the income from grants. The remaining forty-one (41) are administered by the Foundation without cost to the various donors. Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from \$500 to \$2500 with preference given in some cases to residents of specified geographical areas, or the pursuit of certain study programs. Clubs, especially those in Delaware, Florida, Maryland, Ohio, Pennsylvania, Texas, Virginia and Wisconsin, are encouraged to announce these opportunities at their meetings, in their club newsletters, during training classes, on their nets and on their world wide web home pages. Additional information and an application form may be requested by letter or QSL card, postmarked prior to April 30, 2006 from: FAR Scholarships Post Office Box # 831 Riverdale, MD. 20738

Solution to Puzzle 1205

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

Pursuant to Article XI Titled: Changes to Constitution or Bylaws. Here are the proposed changes in the by-laws:

Original wording of Article III, paragraph 5. Titled: Special Life Member:

5. *Special Life Member*

- Members may be honored by election to Special Life Membership when nominated by the board of directors and confirmed by affirmative vote of the members present at a regular club meeting.
- Special Life Members will have the same obligations and privileges as defined above except the obligation to pay dues is recanted.*
(end of paragraph 5)

Changes proposed are in the form of an addendum shown below:

5. *Special Life Member*

- Members may be honored by election to Special Life Membership when nominated by the board of directors and confirmed by affirmative vote of the members present at a regular club meeting.
- Special Life Members will have the same obligations and privileges as defined above except the obligation to pay dues is recanted.*
- Automatic Special Life membership. Members meeting the following eligibility requirement will be automatically promoted to special life membership with the same obligations and privileges spelled out in paragraph 5-b**
 - 1) requirements of eligibility: at age 75 or will turn 75 during the current year. And who have five (5) years consecutive membership in good standing immediately prior to the year of eligibility.**
 - 2) It will be the duty of the membership committee to notify the candidate of such promotion. And to modify the membership records to reflect the change.**
(End of paragraph 5)

What happens next? The proposed changes will be voted on at the January 16th 2006 meeting and if carried will become an addendum to our bylaws. And the revised paragraph will be published in the following issue of the log (*pursuant to article XI of the bylaws titled: Changes to Constitution or Bylaws*) Copies of the constitution and/or bylaws are available. Send S.A.S.E. with 2X postage to secretary (KA8VTS (good in roster)). A limited amount of copies will be available at the January meeting as well.

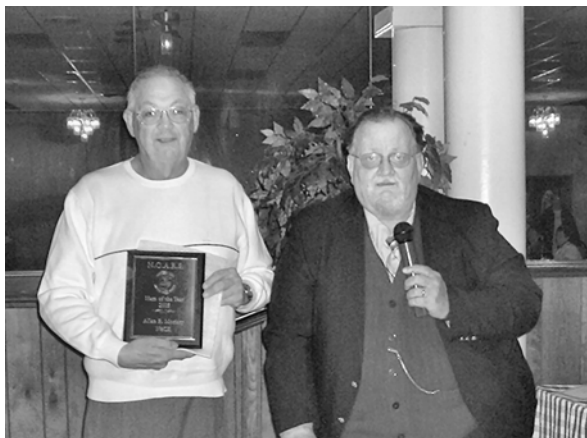
**No Meeting in December
But here's what we did instead**



Installation of 2006 Officers
N8CX Al - W8KYZ Tom - WD8IQJ John - KA8VTS Darlene
Vice President – Treasurer – President – Secretary



W8TAS Ted Gets His Past President Plaque



Ham Of The Year N8CX Al

**M
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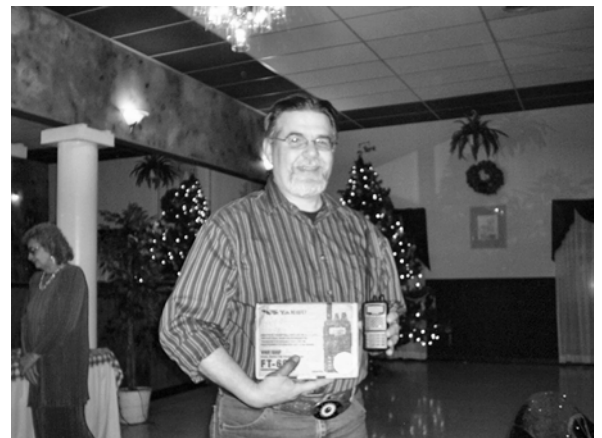
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HT Winner K8VUS Kevin

Happy Birthday This Month To:

(You know 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.)

KA8VTS KA8JKE WB8LUT KB8IOS KA8BWI N8MPF KB8CV

**A Few Of The Callsigns Heard On The
NOARS Nets Wednesday and Thursdays nights
On The 146.700/100 Repeater In Elyria
December 7th ~ December 29th**

W8KYS W8QXF N8MPC WA8PKC KC8VCM KB8TK
W8KYZ W8ADV KB8NEA W8TAS WD8IQJ KC8TYB
WD8IOV W8BNR N8PZD KA8OYE NA8VY K3LOW
KB8UTC KB8LKH WD8OFG K8LP KD8SC K8TV
KG6BEI W8GWD KB8CLB

146.700 TWO NOARS NETS FOR YOU 146.700

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 – K8PJS – W8KYZ - WD8OFG – KC8TMZ

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

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!

ANTARCTICA NEWS - Horacio, LU4DXU, will operate as LU4ZS from Marambio Base (IOTA AN-013, Antarctica Award LU-03) on Seymour Island from January 3-8th, if everything works out with "logistical transport". Alan Cheshire, VP8PJ (aka VK6CQ, VK0LD, and 9V1DX), is active until around January 30th from Patriot Hills Base Camp in Ellsworth Land, Antarctica (80 Deg South 81 Deg West, about 700 miles south of Peter 1st Island). His main activity will be CW on 7003, 10103, 14003; SSB depending on propagation. He was heard this past week on 40 meters between 0200-0330

C6, BAHAMAS - Bill, KM1E, is active as C6AGN from Green Turtle Cay (NA-080), Little Bahama Bank, until March 8, 2006. Activity will be on all HF bands. QSL via his home callsign.

E2/HS, THAILAND (Scout Activity) - Look for special event station E25AJ to be active during the 25th Asia-Pacific Scout Jamboree from Hat Yao, Thailand, between now and January 3rd. Activity will be on all bands (no WARC) on CW, SSB, RTTY, PSK, SSTV and Satellite.

IOTA NEWS - AF-032. (Update) Members of the Provins ARS (F6KOP) will be active as 5H1C from Zanzibar Island, January 24th to February 2nd. Their activity will be on 160-10 meters, CW, SSB and digitals (PSK, RTTY, SSTV). It was announced this past week, that the F6KOP members agreed to try to take skeds for 160/80 meters only. Serge, F6AML, will collect the 160/80m requests from now until January 20th (and not after). Send your 160/80m requests, only to: F6AML@aol.com Also, put in the subject line of your message, "Sked 5H1C". Please send your request one time and once per band only. This is on a trial basis. Since this is the first time, they ask you for some patience on the bands you requested at your sked time. Also, the local and propagation conditions at the sked time will be taken in consideration, too. They will do their best for each of you. Thanks to VE3NEA, a tool for propagation forecast has been added on the 5H1C web page at: http://5h1c.free.fr/trafic_uk.html AS-058. Rich, PA0RRS, will be active from Penang Island (AS-015) between December 28th and March 8th. His current plans are to operate as 9M2/PA0RRS, but hopes he will get an official 9M2 callsign. A trip to Langkawi Island (AS-058) may also be possible AS-079. Take, JI3DST, will be active as JI3DST/JS6 from Miyako Island (JIA AS-079-005) and a few of the islands in the Miyako Island Group between December 28th and January 8th.

T30, WESTERN KIRIBATI - The Finnish operators who were going to return to the Pacific and operate from Tarawa (OC-017), West Kiribati, January 5-22nd (see OPDX.738), seem to have put their trip on hold.

V2, ANTIGUA AND BARBUDA - Steve, G4OHX, will be active from Antigua between December 31st and January 13th. He has not been issued a callsign yet but has requested V25OHX. His activity will be limited because he is on holiday but hopes to be on 30/20/17 meters

SPECIAL EVENT (Update) - It seems that more than two special event stations will be active between December 26th and January 15th, to celebrate the first launch of Kazakhstan's "KazSat" broadcasting satellite. Activity will be on all modes and bands (including the WARC bands, 2m and 70cm). RW6HS will be the QSL Manager for all the following stations: UP1SAT (operated by UN7ED), UP4SAT (operated by UN7BD), UP2SAT (operated by UN0LL), UP5SAT (operated by UN7BM), UP3SAT (operated by UN7BF), UP0SAT (operated by UN0B)

CONTEST CORNER

Excerpted from ARRL.ORG

Jan 6 - 8**ARRL RTTY Roundup**--1800Z Jan 7-2400Z Jan 8, see Dec 2005 *QST*, p 87**Kids Day--Phone** -- sponsored by the ARRL and the Boring Amateur Radio Club from 1800Z to 2400Z Jan 8. See Dec 2005 *QST*, p 45.**DARC 10-meter Contest**--CW/SSB, sponsored by the Deutscher Amateur Radio Club from 0900Z -1059Z Jan 8.**Worldwide QRP Federation QSO Party**-- CW/SSB/Digital, sponsored by the RU QRP Club from 0000Z-2400Z Jan 6. Frequencies: 160-10 meters.**Jan 14 - 15****North American QSO Party**--CW, sponsored by the *National Contest Journal* from 1800Z Jan 14-0600Z Jan 15. Frequencies: 160-10-meters.**Midwinter Contest**--CW/SSB, sponsored by the Dutch YL Committee, CW from 1400Z-2000Z Jan 14, SSB from 0800Z-1400Z Jan 15.**070 PSKFest**--sponsored by the Penn/OH DX Society (PODXS) from 0000Z-2400Z Jan 14. Frequencies: 80-10-meters**Hunting Lions in the Air**--CW/Phone, sponsored by the South African District 410B of the Int'l Association of Lions Clubs from 0000Z Jan 14-2400Z Jan 15. Frequencies: 80-10 meters.**Jan 21-23****ARRL January VHF Sweepstakes**--1900Z Jan 21-0400Z Jan 23, see Dec 2005 *QST*, p 89.**80-Meter Straight Key Sprint**--sponsored by the North American QRP Club, from 0130Z-0330Z Jan. 21 (Thursday evening)**BARTG RTTY Sprint**--sponsored by the British Amateur Radio Teletype Group from 1200Z Jan 21-1200Z Jan 22. Frequencies: 80-10 meters**International United Teenager Contest**-- CW/SSB, sponsored by "Radio-TLUM" Ukraine from 0600Z-1400Z Jan 21 in four periods for operators 18 or younger and Ukraine veterans. Frequencies: 80-10 meters**Jan 28 - 29****CQ WW 160-Meter Contest**--CW, sponsored by *CQ Magazine* from 0000Z Jan 28-2359Z Jan 29 (Phone is Feb 25-26)**REF French Contest**--CW, sponsored by the Reseau des Emetteurs Francais, 0600Z Jan 28-1800Z Jan 29 (Phone is Feb 25-26)

QSL INFO AND NEWS - ANOTHER REMINDER. Stateside Dxers should remember that U.S. postage rates will increase on January 8, 2006. **ADDED NOTE:** Joe, W4TV, also wants to remind OPDX readers that FOREIGN postage rates will also increase. New rates:

Postcards:	1 Oz. letter:
Canada and Mexico - \$0.55	Canada and Mexico - \$0.63
Rest of the world - \$0.75	Rest of the world - \$0.84

It won't effect those DX stations who send a USD or Euro, but it will be important to those who use U.S. postage. It will also cut into the "extra" that often pays for the cards, envelopes, labels, ink, etc. for the QSL manager.

Please Note: This is only a SMALL part of:**OPDX Bulletin #740- 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.)

NOTICE!

Al N8CX is our DX correspondent if you have any juicy DX tidbits you want to share let Al know so he can announce them here and at the regular meetings.

➔ 444.8 Out for service ➔

As of this printing our UHF repeater 444.8 has been removed from service. As it was acting wacky and making some rather annoying noises. So it was taken off to the repair bench. N8PZD Clark estimates down time will be around three weeks. When it goes back up it will have improved functionally including the return of "BART" the DX alert.

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.

K3LOW Hank (440) 716-9552 11/5
hschuett@netzero.net

QSY Sale - As priced or best offer (BO)
MOTOROLA (indoor) repeater cabinet with 18" rack, panel meters and 144 MHz 2E26 TX with power supply - BO
Phelps Dodge 144 MHz Collinear - BO
Hardline coaxial cable ~50 ft - BO
Mobile whip 50 MHz - BO
HP Model 650A Test Oscillator 100 Hz ~10 MHz - \$25
MIL Model TV-7A tube tester/manual - \$135
EF Johnson Viking Navigator ~ 40W, non-WARC ham bands 160-10 M. CW only - \$150
ROHN 10' tower top section/tripod legs for roof mounting - \$45
Dumont 304A o'scope/manual (not working) - BO

Non-Amateur Items:

21 Cu Ft upright freezer - \$250
Walnut Credenza 72"x20"x28 1/2" (LWH) - \$65
Clothes dryer 220 vac - BO
Mountain bike 26" men's (like new) - \$65

N8MPC Jim (440) 774-1275 11/5
BK model 2160 Oscilloscope 60Mhz. Dual trace and time base 2 new Probes, Manual & Schematic Asking \$250 << **Price Reduction**

N8PZD Clark (216) 671-8795 6/5
ICOM 275A 2m.25w all mode with fm tone Asking \$450
MIDLAND 100w UHF fm Mobile 64ch Asking \$200
UNIDEN gps/radar detector new \$199 - Asking \$125 w/box & manual
BEARCAT BC760XLT 100ch 800MHz Scanner w/box & manual Asking \$125
BEARCAT BC200XLT 200ch 800MHz with Drop in charger base. Needs Battery asking \$100

W8FC Ford (440) 288 9941 1/6
54 Foot Crank-up Tower Hy-Gain HG-54-HD Bearing & rotor plate (on the ground) all for \$400 Bring your Trailer.

NOARS Winterfest

February 5th 2006

@

Gargus Hall - Elyria, 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

1969 North Ridge Rd. (North side of street)

1/2 mile West of Rt. 57

which is the extension of Rt.254

Just north of Turnpike (I-80) exit 145 (Rt. 57)

Just North of I-90 exit 145 (Rt. 57)

Motels - dining in the area



YOUR AD BELONGS HERE!
Send Copy to wd8iqj@yahoo.com

W8KYZ Tom (440) 930-9115 12/5
35 Ft. "6 Step" Tower. Is down and needs to be disassembled. Location: West side of Elyria (next to The Church Of The Open Door) on Rt. 113 Price: **FREE**

W8TAS Ted (440) 365-8041 1/6
Antenna sale
KLM KT-34-A six element beam 10-15-20 36' boom one of a kind (big gun) \$300 (bring your truck)
CUSHCRAFT A-4-S Four element beam 10-15-20 18' boom used. \$400
CUSHCRAFT A-148-10s eleven element 2 meter beams (2) \$30 each.
DIAMOND DJ-130J Super discone antenna \$40

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

Puzzle 0106

WORD LIST

ALPHA	PHASE
CODES	PHI
CYCLE	POWER
EXAMPLE	PRODUCT
FACTOR	ROOT
GAIN	STANDARD
LOGARITHM	SUM
MANTISSA	TOTAL
MICA	VECTOR
FORMULA	RATIO

ARE THERE MORE?

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 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.noars.net>

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 ____ / ____ / ____ 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

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. 44036-0432



Dated Material

THE NORTHERN
OHIO AMATEUR
RADIO SOCIETY

42

Years Serving
The Amateur Radio
Community

U.S.
Postage

Mailing Label

