

NOARS LOG

Volume 38, Issue 7

Welcome to *NOARS* Country

August – Sept, 2002



Club FM Repeaters

UHF: 449.800/444.800 MHz

VHF: 146.100/146.700 MHz

52.130/53.130 MHz

144.550/145.150 MHz

Home of BART the DX ALERT

BARF-80 BBS sponsored by NOARS (440)237-8208

NOARS on the web -> www.apk.net/noars/

2002 EXECUTIVE OFFICERS

President: Clark Beckman, N8PZD

Vice President: John Schaaf, K8JWS

Secretary: DeeDee Ohman, KA8VTS

Treasurer: Tom Porter, W8KYZ

License Trustee: Mike Willemin, W8EU

NOARS STANDING COMMITTEES:

A.R.R.L. / VE: Tom Porter W8KYZ

DX Member: Tedd Mirgliotta KB8NW

Banquet: Gary Gargus N8DIU

Property Manager: Ned Jones WD8CSP

U.S.S. Cod: Ted Jones KA8WMX

K8KRG

ON-THE-AIR NETS

WD8IQJ-K8JWS-N8PZD

NOARS Net Wednesday 9:00 P.M.

K8WRS-W8KYS-KB8WOW

NOARS Tech Net Thursday 8:00 P.M.

146.700 – 444.800 – 53.130

In this issue:

ARISS heads back to school

Project Traveler SSTV Balloon Launch

The OSCAR satellite history

Autumn DX prospects

PSK mode grows

Where is the DX?

Messages from the front table - Autumn 2002

Upcoming hamfests and events

14 Sep 2002 Grand Rapids ARA, Lowell ARC, & Michigan ARA
Ed Novakowski, N8UXN Phone: 616-458-9029

22 Sep 2002 Greater Cincinnati ARA – Cincinnati, OH
Jim Weaver, K8JE Phone: 513-459-0142

22 Sep 2002 Hamfest Association of Cleveland – Cuyahoga County Fairgrounds
Scott Foschke, N8OND – Phone: 1-800-CLE-FEST

September 14 - 16 ARRL September VHF QSO Party 50 MHz and above

6 Oct 2002 Medina Two Meter Group – Medina JVS bldg Ohio Rt 18
Michael Rubaszewski, N8TZY – Phone: 330-273-1519

Roll Call

Pat Sweeney KC8TBD
John Pearl K8RWR
John McKenna WD8IQJ
Dee Dee Ohman KA8VTS
Ted Jones KA8WMX
Mark Conrad Guest
Sallie Schneider AB8GI
Al Moriarty N8CX
Mike Willemin W8EU
James Henderson N8MPC
Gary Gargus N8DIU
Fred Collins W8ADW
Tom Porter W8KYZ
Doug Kruciuski WD8BSY
Ken Roberts KC8BQO
Joni Roberts KC8BXH

NOARS dues may be paid anytime during the year or at our meetings, be sure to include **your callsign** on your check if you mail it into the PO box. You will find our dues are the most affordable of any ham radio club around the area, we offer many award plaques, 4 voice repeaters – most with linking capabilities, 2 with autopatching, weekly nets that are sharing information about many forms of technical assistance and recruits for public service are often listening on hand, good refreshments at meeting and great fellowship at all activities.

New for 2002 – If you are interested in joining the ARRL contact W8KYZ Tom Porter for a membership form, when you join ARRL/QST through the club, we will submit the form for you and the ARRL continues to recognize us as a Special Service Club, there is a one time 15 dollar bonus for the club. Make your check payable to NOARS, with a note about ARRL membership including your callsign.

Thanks from NOARS

Why do we call our satellites OSCAR? Because the first four Amateur Radio satellite projects that flew in 1961-1965 were managed by pioneering hams in a US West Coast group known as Project OSCAR--an acronym that stands for Orbital Satellite Carrying Amateur Radio. AMSAT, the Radio Amateur Satellite Corporation, was formed in 1969, by an East Coast group wanting to build and fly hamsats.

Radio amateurs around the globe had been riveted by the beep-beep signal from Sputnik in 1957. The idea that would grow into Project OSCAR began in 1959, when Don Stoner, W6TNS (SK), wrote about a ham satellite in CQ magazine. He asked if any reader could find a rocket ride to space for a solar-powered 6-meter to 2-meter transistorized repeater that was being tested at the time for balloon trials over the American Southwest.

Taken from ARRL web site

Net check-ins are improving since the repeater overhaul program is underway, try listening in Wednesday at 9PM and again Thursday at 8PM every week except major holidays. Net control stations are WD8IQJ, N8PZD on Wednesdays, K8WRS, and W8KYS Thursdays.

Are you interested in being a net control station? Ask one of the net control stations about how you could help.

Minutes of July 15th, 2002 meeting

The meeting was called to order at 7:41 p.m. with 16 members and guests present.

The Treasurer's report was read, a motion was made to accept the report as read, the motion was approved.

Newsletter – Swap-n-shop welcomed, also other area club activities – replacement editor needed for 2003.

DX - Tedd was absent, however current electronic data has is on page 6 from his newsletter OPDX bulletin.

Nets - Both weekly nets are going very well with a lot of people checking in The net control stations would like to have some help covering the nets, the Wed nite NOARS net is the oldest running net in the area. Everyone is encouraged to join the Wednesday night net at 9:00 p.m. and the technical discussion net Thursday evening at 8:00 pm on the 146.70 machine with linked repeaters.

Field Day - 20 people attended, 8 stations were up and running. 789 contacts were made. There was 852 QSO points, 1704 with multiplier and 500 bonus points for a total of 2,204 points. Sylvia Drake and Rosemary Shook made the great food. Everyone had a wonderful time, even the raccoon that ate Sylvia's cake.

Banquet - Dec 7th at Gargus Catering Hall – cost to be announced at Sept. meeting – last year 18 bux.

Contesting – see below for dates, NOARS should get back into club contesting, in the comfort of your shack and free time. More on this at Sept meeting.

Hamfests - We need volunteers to help set up tables on Friday and at the gate on Saturday.

Repeaters - The 6 meter repeater transmitter is being rewired. – remote receive site has been offered by LCARA.

Sunshine – late report of Pete N8DOU, also late report of Leo N8CIJ passing away – both old NOARS members

USS Cod - The video tapes mentioned are here now.

New Business - A motion was made for the club to purchase 2002 Field Day pins for all of the attending and participating people at field day. The motion was accepted and passed.

The ARRL also is offering 2002 Field Day T-shirts for \$12.95. If anyone is interested in purchasing any T-shirts contact Tom Porter.

A motion was made to purchase a 4 video tape set about the Silent Service with footage of the USS Cod from the History Channel for \$39.95 + shipping and handling, the motion was passed. (They have arrived and are available for loan in your home.)

Old Business –

The August 19th meeting will be the picnic, bring a covered dish.

The meeting was adjourned at 8:27 p.m.

October 26 - 27 ARRL International EME Competition
 November 2 - 4 ARRL November Sweepstakes (CW)
 November 16 - 18 ARRL November Sweepstakes (Phone)
 November 23 - 24 ARRL International EME Competition
 December
 December 6 - 8 ARRL 160 Meter Contest
 December 14 - 15 ARRL 10 Meter Contest
 December 31st – January 1, 2003 Straight Key Night

INDIANA YOUNGSTERS ENJOY BACK-TO-SCHOOL BOOST FROM ARISS

Students at the Stanley Clark School in South Bend, Indiana, started out their school year on a high note on September 4. As an audience of about 200 fellow students and 50 adults looked on, 13 fifth, sixth, seventh and eighth-grade students at the school spoke via Amateur Radio for about 10 minutes with US astronaut Peggy Whitson, KC5ZTD, operating NA1SS aboard the International Space Station. Whitson had visited the school in 1999. The Amateur Radio on the International Space Station (ARISS) contact was the first with a US school since last spring. "The Earth is incredibly beautiful, but I think the most interesting thing is seeing how thin the atmosphere is," Whitson told the youngsters in response to one question. "It looks very fragile and like something we should take care of." Whitson said there are several windows in the ISS Service Module so the crew can observe Earth from there. Replying to a question about the debris shields on the ISS, Whitson said that at a speed of 17,000 MPH, any debris is a threat. "We see damage by things as small as paint chips," she explained. Students always seem to be interested in the food aboard the ISS, and the South Bend youngsters were no exception. "I think the food on the ISS is pretty good, but I tell ya what, after several months up here, I am a little bored with it." Her favorites are the rehydrated strawberries and cookies, she said. So far, she told the Stanley Clark students, she has not experienced cabin fever, "maybe because I got to go on a space walk." She didn't think her two Russian crewmates were having problems with cabin fever either. Whitson, an Iowa native, said that when she was very young, she saw the first astronauts on TV when they walked on the moon, "and I think that had a big effect on me," she said. Students spoke with NA1SS via W9AB, with Mary Nimtz, N9YHI, at the controls. W9AB is the club station call sign of the Michiana Amateur Radio Club in South Bend. The contact was marred at points by QRM from a local paging system, but 15 questions were asked and answered. Crews from two South Bend TV stations were on hand to provide media coverage. Charlie Sufana, AJ9N, was the ARISS mentor for the Stanley Clark School contact. Earlier this month, Whitson spoke with youngsters in Israel, where 2002 has been declared "Space Year" in honor of Israeli astronaut Ilan Ramon, who will be aboard shuttle mission STS 107. Youngsters from several Israeli schools gathered September 2 in the Givatayim Observatory for the QSO. Using an earth station set up by AMSAT-Israel President Shlomo Menuhin, 4X1AS, 15 students got to put 20 questions to Whitson as the ISS passed overhead. The participating students--ranging from 10 to 15 years old--were selected for their high scores in space-related activities and study projects.

On August 29, Whitson also spoke with students at Kursk High School No. 55 in Russia got to chat with the ISS during two passes. In all, 10 questions were asked. "Now we have experience, so we are ready anytime for new radio communications with the ISS," said Valery Pikkiev, RW3WW. Students used the school's RK3WXZ club station call sign.

ARISS is an international project, with US participation by ARRL, AMSAT and NASA.--thanks to Charlie Sufana, AJ9N, Gene Chapline, K5YFL, and Gaston Bertels, ON4WF

Taken from ARRL newsletter Vol. 21, No. 35

Project Traveler and HABITAT SkyLab groups will be launching balloons from the Herington KS Airport 9/7/02 at 10 a.m. CDT.

Both balloons will have APRS on 144.39. APRS callsign for HABITAT SkyLab will be KA0JLF-11. Both should show up (Lat/Long and altitude) on the web at findu.com (see below). HABITAT SkyLab will have ATV on 439.25 MHz (QRP) and a simplex repeater on 147.585 in addition to the APRS. LOS for the balloon at altitude can be 500 miles or more, so give a listen. See if you can hit the simplex repeater. It records what it hears for about 30 seconds, then plays back what it recorded and ends with a tone. Unlike a real repeater you won't be able to hear someone else talking (on the record side) so it may take a couple of tries. HF will be on 7.2535 MHz. All antennas will be vertical. QSLs will get a certificate by return mail or email, send QSO info. We would like to break the QSO distance record, your help would be appreciated.

Thanks for letting spread the word to the groups. 73 de Don KA0JLF

LIGHTHOUSE ACTIVITY – and more DX NEWS

The Radio Amateur Society of Norwich, N1NW, will be active between 1000z September 7th through 1600z September 8th from New London Ledge Lighthouse (ARLHS USA-542). This lighthouse is located in New London County, New London harbor, New London, CT. Suggested frequencies are: 7270, 14270, 21370 and 28370 kHz. QSL via Radio Amateur Society of Norwich, PO Box 329, Norwich, CT 06360.

Members of the Natal Digital Group (NDG) will activate Lighthouse Bacopari (DFB RN-08) on September 6-8th and participate in the DARC 10-Meter Digital Contest. Look for operators PS7ZZ, PS7TKS and PS7KC to be active on all bands SSB, CW, RTTY, and PSK-31 as ZW7NDG. QSL to Manager is PS7ZZ (bureau or direct to: Francisco Edvaldo P de Freitas, Av. Sao Miguel dos Caribes, 31 - Conj Jiqui, 59086-500 Natal, Rio Grande do Norte, Brazil)

The Radio Amateur Union of North Aegean will be active during their "FIELD DAY 2002" using the special call sign SZ8LH, and will activate at the same time the Lighthouse Megalonisi (Lesvos Island, NUMBER: GR-7130, Grid Locator: 39N12, 25E50 and IOTA EU-049). Operators will be SV8QG, SV8CRI, SV8DCY, SV8DTD, SV8DBO, SV8DCW, SV8BEV and SV8DTL. Activity will be on 160-2 meters on all mode.

JD1, OGASAWARA (75 Years Commemorative DXpedition of JARL) Toshi, JA1ELY, Project Planner, informs OPDX that they are pleased to announce that several Japanese groups will operate as 8N1OGA from Ogasawara Islands. The islands are located about 1,000 kilometers south of Tokyo and can only be reached by taking a 25 hour boat trip from Tokyo. Between September 15th and the end of January 2003, the special station will be active to commemorate 75 years since Japan Amateur Radio League (JARL) was founded. Preliminary license has been already issued by Japanese Telecommunication authority, which permits all modes including satellite and one kilo watt output on normal bands and 500 watts on 6 meter band. They will operate two complete stations with yagi beams on self supporting towers and dipoles and GP antennas for low bands. They will aggressively participate in upcoming major DX contests such as the CQWW Phone, CQWW CW and JIDX Phone Contest. They will particularly be looking for Europe and the East Coast of North America on low bands (For them to be able to do this, they will put up antennas that can be viewed over the Pacific Ocean!!) The current details of the operation schedule is as follows:
Sept 15-18th JE1CKA, JF1PJK, JM1RFT, JR1AIB (A construction team, limited operation) Sept 27-Oct 5th JQ2EHG, JO1LVZ Oct 2-5th JI2UNR Oct 8-16th 7K3EOP, WA1S Oct 20-23th Unknown Oct 26-29th JA1WSX, JS1DLC Oct 26-Nov 4th JA1MRM, JA1LZR Nov 8-11th JO1RUR, JP1JFG Nov 14-23th Unknown Nov 27-30th JA1ELY, JA1IDY Dec 4-24th Unknown Dec 27th-Jan 1st JA7AYE Dec 31st-Jan 4th JA1WSX Jan 4-31st Unknown

QSLs will be available for all QSOs via the Bureau unless you request SAE with one IRC to the manager. If you QSL directly, please send to the QSL Manager JA1MRM to: Saburo Asano, 3-26-8 Toyotamakita, Nerima, Tokyo, 176-0012 Japan. A log search will be available as soon as the operation starts. Please note that there will be no operations prior to September 15th. The Web page for this project is at: <http://www.fivenine.com/8n1oga/eng/>

6J, MEXICO

In celebration of the 70th anniversary of the "Federacion Mexicana de Radio Experimentadores" (FMRE), the Mexican Government has authorized all the Mexican radio amateurs to use the special prefix "6J" instead of "XE" when working DX. Examples: XE2AC can use the 6J2AC, XE1J -- 6J1J and XE3DX -- 6J3DX. This is valid from August 21st, 2002, through December 31st, 2002.

Also, look for special event station 6F1LM to commemorate the 70th anniversary of FMRE to be activated by different hams and radio clubs on several bands and modes during the rest of the year. A special QSL card will be sent to each and every contact they made. Please QSL VIA BUREAU ONLY. DO NOT send SASE, IRCs or Green Stamps, just send it via your country's bureau. Any questions about this operation please send an E-mail to: XE1KK@xe1kk.net

AFRICIAN ACTIVITY Ed, ON7UN, will leaving Belgium at the end of the month and will be working in Africa. During the first week in October he is expected to be in the Dem. Rep. of Congo (9Q). He has requested for a license and has received confirmation for the license. He will operate from there with the 9Q5** call sign. He is also expected to travel to Brazzaville, Republic of Congo (TN), probably during the second week. He will also try to obtain a license from the TN country. Ed will be using the equipment in the Belgium Embassies (a KLM log periodic antenna and 500 watt). Over the next 6 months, Ed will be visiting Kenya (5Z), Tanzania (5H), Gabon (TR), Angola (D2) and possible other African countries because of his work. QSL via ON4ACA.

Taken from OPDX bulletin Sept 2, 2002 – see page 6 for more

Where's the DX? – Taken from Tedd KB8NW's OPDX bulletin

P5, NORTH KOREA According to Bruce, KK5DO, there have been reports that Ed, P5/4L4FN, has been on CW and these QSNs are false. Ed still has to repair his antennas. A co-worker that was helping Ed has left the country permanently for another assignment. So this will increase Ed's work duties and limit his radio activities to the weekends.

R1, ANTARCTICA. It has been reported that Oleg, R1ANF/A, will be active from the "Great Wall Base" (WABA BY-01) until the end of September. Look for him to be active every Monday on 21275 kHz starting at 1700z. Also, Oleg is expected to activate the Uruguyan Base "Artigas" (WABA CX-01) during the month of September. QSL via RK1PWA. PLEASE NOTE: WABA stands for "World Antarctic Base Award".

TO5, MARTINIQUE Albert, NH7A, will be active in the CQWW DX SSB Contest (October 26-27th) as a Single Op/All Band entry. Callsign is not yet known but it will be TO5(something). QSL via F5VHJ.

TY, BENIN Pat, I8QLS, informs OPDX that he will be active with Piero, W1NA/I8CZW and Gino, I8ULL, from Benin between October 19-28th. During the CQWW Phone Contest, I8QLS will take part as a Single Op/10m entry, W1NA as a Single Op/15m entry and I8ULL Single Op/20m entry. Before the contest they will focus on the low bands, WARC bands, 6 meters and CW. QSL Manager is Cirio, I8ACB. Only callsign provided so far is for Pat, I8QLS, and will be active as TY2LS.

9M6, EAST MALAYSIA Shun, JH7IMX, will be active as 9M6LSC from September 26th through October 1st. He will participate in the CQ/RJ Worldwide DX Contest, RTTY (September 28-29th) as a Single Op/All Band entry. QSL via JH7IMX.

C9, MOZAMBIQUE (Update) As mentioned in OPDX.574 Babs/DL7AFS and Lot/DJ7ZG will be active again from here as C98DC. Their 2 weeks activity will start around September 24th. Activity will be from Bazaruto Island in the northern part of Mozambique (IOTA AF-072). They will operate SSB on the usual DX frequencies. Also, look for operations on RTTY/PSK on 18101 kHz as well. QSL via DL7AFS. Check out the Web site at: <http://www.qsl.net/dl7afs>

FS, FRENCH ST. MARTIN Look for Ann/W2AZK, Brian/KF2HC, Gene/K2KJI, Maryann/K2RVH, Bob/W5GJ and Mike/WA2VUN to sign FS/homecall from December 4-11th. The group hopes to have 2 stations on HF and 1 station on 6 meters. Operations will be CW, SSB, and possibly some PSK31. They plan to participate in the ARRL 160M Contest that weekend. QSL to the callsign worked. Visit the following Web page at: <http://www.njdx.org>

GU, GUERNSEY Rainer/DL2MDZ and Gerhard/DL3NBL will be active October 11-27th from the Island of Guernsey, IOTA EU-114. Using a KW, activity will be on 160-10 meters, including the WARC band. DL2MDZ will use CW/RTTY and DL3NBL will use SSB/RTTY. QSL via their homecall.

Photos and others information on the recent XY0TA (AS-165) DXpedition can now be found at:
<http://www3.ocn.ne.jp/~iota/newpage34.htm>

Top 10 Most Wanted Countries; 1) P5 - North Korea, 2) BS7 - Scarborough Reef, 3) VU4 - Andaman, 5) VU7 - Lakshadweep, 6) VP8/S - South Sandwich, 7) YA - Afghanistan, 8) FR/J - Juan de Nova, 9) 3Y/P - Peter I Island, 10) VP8/G - South Georgia

The complete OPDX bulletin set can be viewed on-line at <http://www.papays.com/opdx.html>

PSK mode is growing quickly – the editor has been invited to join – and passing along the info for you.

Find a member near you to try PSK or use Meteor Scatter WSJT JT44 or FSK441....

Check the "Database: http://groups.yahoo.com/group/PSK_VHF_UHF_HAMRADIO/database

De N8PZD Clark

Swap n Shop

For Sale: Vic Woconish N8TN – (440) 365-6672 – woconish@juno.com

15 meter driven element with omega and gamma match – good condition \$50.00

For Sale; Jim N8MPC (440) 774-1275 Astron RS-35M separate volt/amp meters, like new \$140.00 Bearcat BC 560 XLT 16 Channel mobile and base scanner – \$60.00

Bill Easterday, KB8FU. Phone (440) 365-4001

Yaesu FT-747GX 160 - 10 Meter 100 Watt Transceiver, 500 kHz - 30 MHz General Coverage Receiver with Optional FM Module and Service Manual \$400 – Dentron AT-1K Antenna Tuner with Built-in Five Position Coax Switch \$75 – Heathkit HW-2036A 10 Watt 144-148 MHz Mobile with CTCSS Encode and Touch Tone Microphone \$50 – Kenwood TM-231A 50 Watt Two Meter Mobile with CTCSS Decode Option and Service Manual \$125 - Van Gordon G5RV (102 Feet Long), 80 - 10 Meters \$25 – MFJ 1773 Portable 30 Meter Dipole \$15 – Cushcraft A220-7 Seven Element 220-225 MHz Beam \$40 – Antenna Specialists Avanti AP450.5G Glass Mount UHF Collinear Antenna \$30 – Larsen LM-220 5/8 Wavelength 220-225 MHz Antenna with LM-MM Magnet Mount \$35 – Larsen LM-UHF Collinear 440-450 MHz Antenna with LM-MM Magnet Mount \$40 – AEA ½ Wavelength Telescopic Two Meter BNC Antenna \$10 – Larsen KD4-146-HQ Part Helical/Part ¼ Wave Two Meter BNC Rubber Duck \$15 – Larsen KD4-222-HQ Part Helical/Part ¼ Wave 220 MHz BNC Rubber Duck \$15 – Larsen Two Meter, 220 MHz and 440 MHz BNC Stubby Ducks \$10 ea. – Larsen KD4-2/70 Dual Band Two Meter/440 MHz BNC Antenna \$15

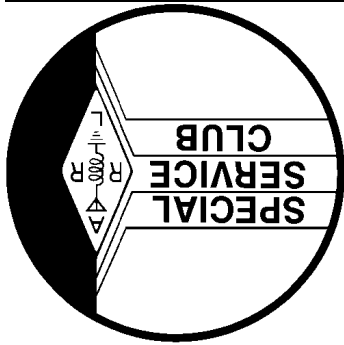
Bill - KB8FU Phone (440) 365-4001 – cont.

Yaesu CD-15 Desktop Rapid Charger & NC-72B Power Supply for VX-5R \$35 – Icom IC-3AT 220-225 MHz Transceiver \$75 – Icom IC-4AT 440-450 MHz Transceiver with Com-Spec. CTCSS Encode \$75 – Two Heavy Leather Cases with Velcro and Snap Closures for IC-2/3/4AT \$10 ea. – Icom BC-35 Desktop Rapid Charger for IC-2/3/4AT \$35 – Several Icom BP-3 270 mAh and BP-4 AA Battery Cases – ICE 8.4 Volt 900 mAh Battery and Extra Cell Cluster for IC-2/3/4AT \$30 – Periphex 8 Cell AA Battery Case for IC-2/3/4AT \$10 - Icom CP-10 Remote Battery Adapter with Belt Clip for IC-2/3/4AT \$5 – JABRA Lapel Microphone with Assorted Gel Ear Pieces for Icom & Compatible Radios \$10 – Radio Shack 19-1122 30 Watt Two Meter FM Power Amplifier with Helical Filter and Pre-Amp \$35 – Antenna Specialists ASA-6025-04 25 Watt FCC Type Accepted 432-512 MHz FM Power Amplifier \$50 Bell & Howell/Heathkit Solid State Triggered Sweep Oscilloscope \$25 \$25 – Optoelectronics Model 2210 2.2 GHz Frequency Counter \$50 – Home-brew 8 Digit Frequency Counter \$10 – Heathkit IT-121 In-Circuit/Out-of-Circuit Transistor Tester \$25 – Parallax #27200 BASIC Stamp II Programming Package and Prototype Board \$20

For Sale; Jerry Karusz WB8LFO (440) 282-2123 M-F 1pm to 4:30pm and ant time sat or sun. after 12noon ICOM 765 , TS940AT , Icom 751 , Icom 701 , Henry floor model 2K 4A Amp ,Hazer heavy duty elevator , US Tower Tubular tower with rotor and Cushcraft A4 antenna. This is a moving sale – we will miss you Jerry.

For Sale; Clark Beckman N8PZD (216)671-8795 Compaq SLT-286 laptop computer with docking station and separate VGA display, ms-dos 6.22, logging, packet, great ham computer, \$100 package.

Great lessons learned; Never ask a 3-year old to hold a tomato - Families are like fudge... mostly sweet, with a few nuts - You can't trust dogs to watch your food – Raising teenagers is like nailing Jell-O to a tree – Laughing helps, it's like jogging on the inside



Amateur Radio Home of the U.S.S. Cod

Northern Ohio Amateur Radio Society
P. O. Box 432
Elyria, OH 44036-0432



The **NORTHERN OHIO AMATEUR RADIO SOCIETY** is a Public Service Organization, with the purpose of education and the furtherance of the art.

Meetings are held on the Third Monday of each Month except December at **Gargus Catering Hall, 1969 N. Ridge Rd., Lorain, Ohio** at 7:30 P.M. The **NOARS 2 METER NET** is held each Wednesday at 9:00 P.M. on the **146.700/444.800/53.130** repeaters in Elyria, Ohio, located atop the E.S.T. Bank Building.

The **NOARS TECHNICAL NET** is held each Thursday at 8:00 P.M. on **146.700/444.800/53.130**.

NOARS also operates a **BBS (BARF-80)** 100% Ham Radio information and news, full open access to all users at **(440) 237-8208 24 hr.** 300 - 33,600 baud. Visit **NOARS** on the Internet at <http://www.apk.net/noars/>

The **NOARS** club station donated by manufacturers aboard the **WW II** submarine **U.S.S. Cod** in the port of Cleveland is open from Memorial Day to Labor day. The station is open to all **NOARS** members and their guests daily from 11 AM until 5 PM.

If this is your first copy of the **NOARS LOG** why not become a member and receive it monthly? Membership is open to anyone interested in communications, whether a licensed amateur or not. Dues are \$10.00 US per year for a licensed amateur, \$5.00 for an associate member, and \$2.00 for family members. Checks are to be made payable to **NOARS** and mailed to **NOARS MEMBERSHIP, PO Box 432, Elyria, OH 44036-0432**, please include your call sign.

Please Indicate _____ NEW _____ RENEWAL _____ CHANGES * PHONE (____) _____
Name _____ CALLSIGN _____ CLASS _____ ARRL _____
Address _____ City _____ ST _____ ZIP _____
E-mail address _____