



# ARES COMMUNICATOR

Information for Scott County Amateurs



August, 2011

Accurate, Reliable Emergency Communications

Volume 11, Number 8

## Exercise!

### Let's Have Some Fun!

Who says we need a disaster to put our communications skills to the test? Not Scott ARES members!

Did you hear about the wide area power outages in Shakopee and Prior Lake during the record high temps? Did you know Roger the alligator was spotted in the northeast corner of Prior Lake? How about the severe weather that caused flooding in Jordan?



Roger!

If you missed these events, you need to check in to the Scott ARES nets on Monday evenings at 7:00 PM on 146.535 mHz simplex.

The ARES net is the place to participate in short drills based on unusual scenarios that allow ARES members to practice their message origination and traffic handling skills. You don't have to be a traffic expert or digital whiz to take part in the fun.

There is an opportunity to take part in the fun no matter what modes you use. The only requirement is the desire to improve your emergency message handling skills. Of course, having some fun is optional!

Who knows when the circus convoy, stopped north of New Prague, may have some run-away elephants lost in the corn fields? You may be the individual that saves the city from being trampled or attacked by an elephant with

**Exercise** *cont'd on page 2*

The ARES COMMUNICATOR is published for the benefit of Amateur Radio Operators in Scott County and other interested individuals.

EDITOR: Bob Reid, Scott County Emergency Coordinator  
Snail Mail: 13600 Princeton Circle  
Savage, MN. 55378

E-Mail: N0BHC@aol.com  
Phone: Home 952-894-5178 Portable 612-280-9328  
Reader submissions encouraged!

## DX'ers Have a New One

### Republic of South Sudan Is Approved

In action on Thursday, July 14, the UN General Assembly met to vote on whether or not to admit the Republic of South Sudan as its 193rd member state. The Republic of South Sudan was admitted by a vote of acclamation and is now a member of the United Nations. Immediately following the General Assembly meeting, the flag of the Republic of South Sudan flew for the first time in front of the UN, ceremoniously marking its membership in the UN.

Now that the Republic of South Sudan is a member of the



Flag of Southern Sudan

United Nations, the new country is now a DXCC entity by way of Section II, 1(a) of the DXCC rules. The DXCC

**South Sudan** *cont'd on page 2*

## ARES Activities

**Weekly Net Monday 7 PM 146.535 mhz (s)**

**Breakfast Saturday, August 13th**

**Digital Monday August 15th**

### ARES Nets

MN ARES Phone Net  
6:00PM Sunday Freq: 3.568 mhz  
ARRL MN Phone Net  
12:00p, 4:30p CST Daily Freq: 3.568 mhz  
ARRL MN CW Net  
6:30p, 9:50p CST Daily Freq: 3.568 mhz

### NETS WITH OUR NEIGHBORS

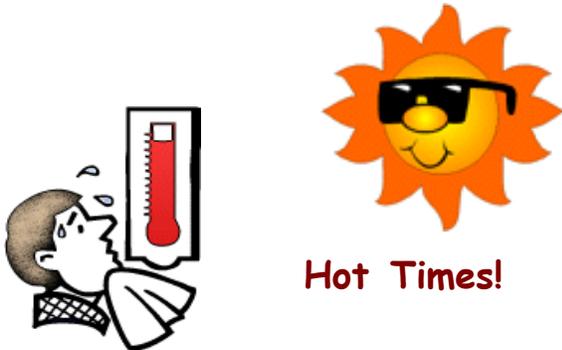
North Dakota: Daily 3.937 mhz 6:30pm  
South Dakota: Daily 3.870 mhz 6:00pm  
Wisconsin: Daily 3.985 mhz 5:30pm  
Iowa: Daily 3.970 mhz 12:30/5:30pm

## Exercise - cont'd from page 1

stomach discomfort from too much sweet corn.

Next Monday fire up your radio, grab your pencil and paper, and check into the Scott ARES net. If digital is your game, boot up NBEMS and trade messages in MT63-2K. Who knows what might be taking place?

BREAK - OVER



*"There's an old story about the person who wished his computer were as easy to use as his telephone. That wish has come true, since I no longer know how to use my telephone"*

Bjarne Stroustrup

### Scott County ARES Contacts

Emergency Coordinator  
Bob Reid NOBHC  
13600 Princeton Circle  
Savage, MN 55378  
952-894-5178  
NOBHC@arrl.net

Asst. Emergency Coordinator  
Bob Minor WONFE  
5210 West 141<sup>st</sup> Street  
Savage, MN 55378  
952-894-2657  
WONFE@arrl.net

Asst Emergency Coordinator  
Daniel Vande Vusse NOPI  
5722 West 141<sup>st</sup> Street  
Savage, MN 55378  
952-440-1878  
NOPI@arrl.net



## South Sudan - cont'd from page 1

Desk will begin immediately accepting QSOs for this new entity, with a start date of July 14, 2011.

According to DXCC Manager Bill Moore, NC1L, the Honor Roll numbers move from 340 to 341 for the Top of the Honor Roll, and for Honor Roll it becomes 332. "The deadline for the Honor Roll and annual listings is December 31, so you must submit the new entity to DXCC by then in order to retain your Honor Roll status," Moore explained.

"For Logbook of The World (LoTW), you may submit all your QSOs with the Republic of South Sudan stations anytime. There is no need to hold them out of your log or do anything differently from what you already have been doing. You do not need to assign country names or identifiers. After we issue certificates to the Republic of South Sudan license holders, LoTW will make matches and assign the correct entities automatically."

As of July 14, the International Telecommunication Union (ITU) has not announced a prefix block for the Republic of South Sudan.

BREAK - OVER

## Test Your NIMS Knowledge

At which incident facility are resources kept to support incident operations if a Base is not accessible to all resources?

- Helibase
- Camp
- Incident Command Post
- Staging Area

Check next month's ARES Communicator for the solution

## July NIMS Knowledge Solution

Designers of the system recognized early that ICS must:

- Meet the needs of incidents of any kind or size
- Provide logistical and administrative support to ensure that operational staff can meet tactical objectives
- Be cost effective by avoiding duplication of efforts
- \_\_\_\_\_

a. Allow personnel from a variety of agencies to meld rapidly into a common management structure.

## Take a Dip in the General Pool

Time to test your knowledge of the information covered by the General Class license exam. Each month we'll take a look at a selection from the question pool. Here is this month's sample:

1. What is the maximum transmitting power a station with a General Class control operator may use on the 28 MHz band?
  - A. 100 watts PEP output
  - B. 1000 watts PEP output
  - C. 1500 watts PEP output
  - D. 2000 watts PEP output
2. On which of the following band segments may you operate if you are a Technician Class operator and have a CSCE for General Class privileges?
  - A. Only the Technician band segments until your upgrade is posted on the FCC database
  - B. Only on the Technician band segments until your license arrives in the mail
  - C. On any General or Technician Class band segment
  - D. On any General or Technician Class band segment except 30 and 60 meters

*(Check next month's issue of the ARES Communicator for the answer.)*



## July General Pool Answer

1. What is the maximum transmitting power an amateur station may use on the 12 meter band?
  - C. 1500 watts PEP output
2. What limitations, other than the 1500 watt PEP limit, are placed on transmitter power in the 14 MHz band?
  - A. Only the minimum power necessary to carry out the desired communications should be used

## Energy Vampires

Pull the plug to stop standby power use

How high is your monthly electricity bill? With the kind of summer we've had, your power consumption has probably gone through the roof if you've kept the fan and air conditioner on to keep you cool during the ongoing wave of oppressive heat. There are ways that you can cut back, though. Did you know that certain appliances and electronics will continue to use power even when they're switched off? It's estimated that 10 percent of the average home electricity bill comes from the energy used by these products, which are popularly called "energy vampires." In fact, a typical family spends \$120 dollars per year on the so-called "vampire appliances," from cable and DVR boxes to cordless phone chargers, microwave ovens and video game consoles.

The only way to completely prevent such appliances from using standby power – that is, drawing on the energy supply even after they're turned off — is to unplug them. But an aggressive campaign, armed with knowledge about which products draw standby, can cut total standby by as much as a third, according to the U.S. Department of Energy's Lawrence Berkeley National Laboratory. Here are a few more tips, taken from the Berkeley Lab, to help you cut standby power:

- Identify products that draw standby power. Products with one or more of the following features typically have standby power use: remote control, external power supply, digital display, LED status light, or digital clock, a battery charger or a soft-touch key-pad.
- Invest in a "Kill A Watt" device (\$25-50) to determine which appliances are energy hogs, even when they're turned off. Just plug your appliances into the "Kill A Watt" plug and it will assess how efficient they really are, so you know whether it's worth keeping them plugged in.
- Other products that may not have these features also can have standby power. Most homes will typically have 20 such devices. The only way to be certain which devices in your home have standby power is to measure them with a meter.
- Ask to join your local power company's "Smart Meter" program, now available in the majority of states. Smart Meters beam your energy usage to the power company, and to you, in real-time so you can see exactly how much power you are using, and what it's costing. Then take advantage of the program's two-tiered pricing system that allows you to pay more during peak hours, but get a discount on your energy costs at lower-usage times.

BREAK - OVER

## Force Multiplier

Op-Ed: Force Multiplier, Not Last Ditch Fall-Back

By: Al Taylor, KN3U, Rockville, Maryland  
ARES E-Letter July 20,2011

As someone who has been both a provider and a consumer of Amateur Radio resources in disasters, I've never been fond of the catch phrase "when all else fails." It may alienate the public safety telecom professionals who should be our natural allies. Sure, some disaster scenarios are characterized by extensive telecommunications infrastructure damage. But modern public safety infrastructure is very robust in many jurisdictions.

When failures occur, it has been my experience that they affect Amateur Radio infrastructure as well as commercial and public safety infrastructure — our repeaters tend to be located on the same towers and rooftops as our public safety counterparts! I've seen many instances in which Amateur Radio resources (including my own) failed miserably to perform when needed — and a few in which well-meaning amateurs who had intended to be a part of the solution became part of the problem instead. So, why the focus on failure?

A more sophisticated view of the matter is that at the same time that the community experiences infrastructure damage, the need for communications channels grows exponentially, both within and among organizations responding to the disaster. Amateur Radio can provide a surge capability to help disaster response professionals meet the exceptional communications demands of disasters, especially if Amateur Radio is included in the planning and training for such events. I'd like to see ARRL marketing us as a competent force multiplier rather than a last-ditch fallback.

Amateur Radio has a number of characteristics that are well-suited to this role as a provider of surge capacity: **First**, our assets are embedded in the served community, decentralized, and geographically dispersed. In many cases, we don't need to respond. We're already there! **Second**, most of our communications assets employ relatively simple technology that is less capable, but also inherently less dependent on infrastructure and more survivable than complex interconnected networks that public safety agencies commonly employ nowadays. So while the public safety pros scramble to mobilize and reconfigure their surviving communications assets, we are doing the same with ours. And there are more of us than there are of them. **Third**, our technology is heavily labor-dependent, but since we volunteer our services, the cost to served agencies is low. (Low, but not zero: Served agencies do typically need to

invest in recruitment, training, and credentialing of volunteers, as well as pre-positioning basic Amateur Radio equipment in key locations— especially antennas and feed-lines.)

**Forth**, by default, our channels tend to be low-bandwidth, but our supply of such channels is almost limitless, and just one noisy channel serving a key location at a critical time can make an enormous difference in outcomes. With planning and the support of served agencies, there is no limit to the creativity and sophistication of the systems we can devise to augment their capabilities.

**Fifth**, last but not least, the Amateur Radio community includes many individuals with technical skills who can rapidly reconfigure basic communications equipment to improvise solutions to emergent needs. The public safety telecom pros also possess these technical skills, of course, but to the extent that we can provide interim solutions meeting the surge in demand, we free them to focus on restoration of their critical infrastructure.

In short, we should be offering to partner with our professional counterparts, instead of telling their bosses and the public that we'll be there to pick up the pieces when they fail.

BREAK - OVER



GULF OF ADEN Aviation Boatswain's Mate (Equipment) Airman Troyphilip Obuga, from Morgantown, W. Va., performs final checks on an F/A-18E Super Hornet assigned to the Argonauts of Strike Fighter Squadron (VFA) 147 aboard the aircraft carrier USS Ronald Reagan (CVN 76). Ronald Reagan is conducting operations supporting maritime security operations and theater security cooperation efforts in the U.S. 5th Fleet area of responsibility.

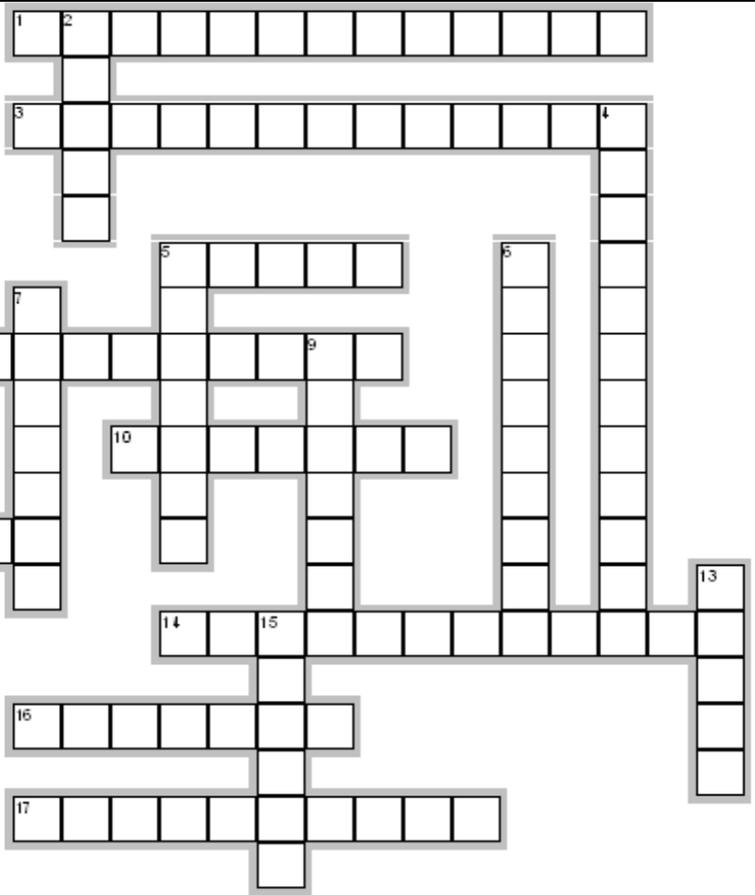


Across

1. The direction to which a compass points.
3. A method of determining position by making an educated guess based on last known position, speed and currents.
5. A room inside a boat.
8. A method of weaving the end of a rope to keep it from unraveling.
10. A line attached to a tool.
11. Waves generated in the water by a moving vessel.
14. Sea with waves approaching from the stern of the boat.
16. A line attached to the bow of a dinghy and used to tie it up or tow it.
17. The most forward below decks area of a vessel.

Down

2. At a right angle to the length of the boat.
4. Swells that become shorter and steeper as they approach the shore due to shallow water.
5. The person who is in charge of a vessel and legally responsible for it and its occupants.
6. A crew member responsible for keeping the hull, rigging and sails in repair.
7. An opening through the toe rail or gunwale to allow water to drain back into the sea.



9. A navigable route on a waterway, usually marked by buoys.
12. Toward the rear of the boat, behind the boat.
13. A device that projects beyond the side of the boat to raise objects from the water.
15. The sideways movement of a boat away from the wind, usually unwanted.



## July Crossword Solution - Golf Lingo

Across

1. BACKSWING—The backward part of the swing starting from the ground and going back over the top of the golfer's head.
3. PENALTYSTROKE—An additional stroke which is added to a golfer's score for a rules violation, going out of bounds, losing a ball, or various other situations.
6. LOCALRULES—A set of rules for a particular golf course as determined by that course.
11. ACE—Term used when a golfer makes a hole in one.
12. HOOK—To hit the ball and have it curve gradually from right to left (for right-handed golfers).
13. BIRDIE—A score of 1 under par for a hole.

Down

2. NASSAU—A form of competition which breaks down the play into front nine, back nine and overall 18 holes. A point is allowed for each nine and the total 18.



4. SANDBAGGER—A golfer who purposely tells others that he is a worse golfer than he really is in order to gain an edge in competition.
5. BALLMARKER—A token or small coin which is placed directly just behind the ball in order to mark the position of the ball on the green.
7. LATERALHAZARD—Any hazard that runs parallel to the fairway.
8. SCRATCHGOLFER—A player who has a handicap of 0. This player will theoretically shoot even par or better every time out.
9. WORMBURNER—This is a shot, which skims very low along the ground.
10. HANDICAP—The number of strokes a player may deduct from his actual (or gross) score to adjust his score to that of a scratch golfer.

## New Moon Rising

Hubble Discovers a New Moon Around Pluto

<http://science.nasa.gov/science>

Astronomers using the Hubble Space Telescope have discovered a fourth moon orbiting the icy dwarf planet Pluto. The tiny, new satellite – temporarily designated P4 — popped up in a Hubble survey searching for rings around the dwarf planet.

The new moon is the smallest discovered around Pluto. It has an estimated diameter of 8 to 21 miles (13 to 34 km). By comparison, Charon, Pluto's largest moon, is 648 miles (1,043 km) across, and the other moons, Nix and Hydra, are in the range of 20 to 70 miles in diameter (32 to 113 km).

"I find it remarkable that Hubble's cameras enabled us to see such a tiny object so clearly from a distance of more than 3 billion miles (5 billion km)," said Mark Showalter of the SETI Institute in Mountain View, Calif., who led this observing program with Hubble.

The finding is a result of ongoing work to support NASA's New Horizons mission, scheduled to fly through the Pluto system in 2015. The mission is designed to provide new insights about worlds at the edge of our solar system. Hubble's mapping of Pluto's surface and discovery of its satellites have been invaluable to planning for New Horizons' close encounter.

"This is a fantastic discovery," said New Horizons' principal investigator Alan Stern of the Southwest Research Institute in Boulder, Colo. "Now that we know there's another moon in the Pluto system, we can plan close-up observations of it during our flyby."

The new moon is located between the orbits of Nix and Hydra, which Hubble discovered in 2005. Charon was discovered in 1978 at the U.S. Naval Observatory and first resolved using Hubble in 1990 as a separate body from Pluto.

The dwarf planet's entire moon system is believed to have formed by a collision between Pluto and another planet-sized body early in the history of the solar system. The smashup flung material that coalesced into the family of satellites observed around Pluto.

Lunar rocks returned to Earth from the Apollo missions led to the theory that our moon was the result of a similar collision between Earth and a Mars-sized body 4.4 billion years ago. Scientists believe material blasted off Pluto's moons by micrometeoroid impacts may form rings around the dwarf planet, but the Hubble photographs have not detected any so far.

"This surprising observation is a powerful reminder of

*cont'd col. 2*

## U.S.M.C. Warrior Dash



America's most insane race, U.S.M.C sponsored Warrior Dash landed in Minnesota for the first time on July 23/24, 2011 where 11 obstacles from hell awaited along the 3.02 mile course. A Warrior Dash participant looks for the finish line on July 24 during the last obstacle called Muddy Mayhem. Runners had to complete twelve obstacles along the 3.2-mile course before crossing the finish line. The fastest runner completed the endurance race in 22:42.90. For more information about the event, visit [www.warriordash.com](http://www.warriordash.com). Photo by Staff Sgt. Clinton Firstbrook

---

*"The big city is a cold, lonely place. At least that's what it's like on the days I forget to wear clothes."*

Scott Griffin

---

*cont'd from col. 1*

Hubble's ability as a general purpose astronomical observatory to make astounding, unintended discoveries," said Jon Morse, astrophysics division director at NASA Headquarters in Washington.

P4 was first seen in a photo taken with Hubble's Wide Field Camera 3 on June 28. It was confirmed in subsequent Hubble pictures taken on July 3 and July 18. The moon was not seen in earlier Hubble images because the exposure times were shorter. There is a chance it appeared as a very faint smudge in 2006 images, but was overlooked because it was obscured.

BREAK - OVER

## Hot Hot Hot Energy!

### Summer Heat Shows Value of Load Mgmt

A heat wave across the Midwest in early June shattered records as the temperature surpassed 100 degrees Fahrenheit. Such extreme heat sent residents indoors, caused roads to buckle and presented electric utilities with a challenge. The regional electric grid is designed to handle the most extreme spikes in demand for power; but as demand rises, so do electricity prices. On hot days when air conditioners across the region are all running at the same time, Great River Energy must purchase high-cost energy from the wholesale market in order to meet member needs. If Great River Energy can reduce electric load during these expensive hours, it can reduce the total cost of delivering power to its members.

That's why Great River Energy developed an industry-leading load management program that allows the company to avoid the purchase of energy during times of high market prices. Great River Energy's member distribution cooperatives offer incentives to their members to encourage participation in these voluntary load management programs. By participating, members agree to have certain electrical appliances, or "loads," interrupted by Great River Energy during times of peak electricity use or high market prices. Being member owned has had a significant impact on the success of the demand response programs over the past 30 years. Members know that reducing their cooperative's cost of ownership helps everyone save, not just those able to participate.

"Our load management system allows us to buy less energy when prices are high so we don't have to recover as much from our members," said Great River Energy Load Management Coordinator Eddie Webster. "By avoiding these prices we're alleviating some of the upward pressure on electric rates." Avoiding high-cost energy is the most immediate benefit from load management, but perhaps its most significant advantage is in delaying future generation resources. "If we weren't able to shed electric load, we'd have to consider investing in another more traditional resource, a power plant," said Webster. In aggregate, Great River Energy's load management system allows more than 350 megawatts of electric load to be shed. That's the equivalent of reducing electricity demand by nearly 200,000 homes on a normal summer day.

Here is a snapshot of electric energy prices on one of the hotter days in July.

MISO Day-Ahead market – Minn.Hub for July 19

On-peak average: \$65.39/mWh

Off-peak average: \$24.50/mWh

BREAK - OVER

## Mobile Phone Networks

### Near Capacity?

Mobile networks in North America are filled to 80 percent of capacity, with 36 percent of base stations facing capacity constraints, according to a survey by investment bank Credit Suisse.

Networks in other regions also are more than 50 percent utilized, with the global average at 65 percent, Credit Suisse said after surveying carriers around the world. That level of use matches the average "threshold" rate that would trigger the service providers to start buying more network equipment, the report said. Looking ahead, on average the carriers expected their utilization rate to grow to 70 percent within 12 months.

Credit Suisse used the results to predict new sales by makers of cellular equipment, such as Ericsson, Alcatel-Lucent, Nokia Siemens Networks and Huawei Technologies. But at a certain level, heavy use of a base station can also affect the mobile experience of individual subscribers. The survey found that 23 percent of base stations worldwide had capacity constraints (defined as a utilization rate over 80 percent during busy hours), while 36 percent in North America were under that kind of pressure.

The North American networks were 72 percent utilized two years ago. The region's carriers expect the rate to ease back down to that point within two years. North American service providers are likely to buy more equipment soon, because having their networks 74 percent filled is the threshold rate in that region, the survey said.

Asia's mobile networks are also getting more filled, rising from 54 percent utilization two years ago to 62 percent in 2011. But Western European networks are getting less constrained, falling from 66 percent to 56 percent. Both regions will be well over 60 percent within two years, however. Latin America's mobile networks will hit 85 percent average utilization within a year, according to the survey.

Data services are driving the growth in network usage and in turn account for most of the growth in average revenue per user to the carriers. Credit Suisse forecast worldwide data revenue to grow by 11.7 percent this year while voice revenue falls 4.4 percent and SMS (Short Message Service) revenue declines 3.3 percent. Last year, average data revenue per user increased 25.6 percent.

BREAK - OVER



## CQ FIELD DAY

Field Day 2011 is in the log book. This year there were no interruptions for severe weather although windbreakers and warm coffee would have been nice at times. The band conditions were improved over the past two years and the number of contacts also showed an increase.

The park shelter in Canterbury City Park in Savage once again provided a comfortable operating location and good visibility. There were a number of visitors this year including a representative from the Salvation Army SATERN organization.

Bob, W0NFE, recorded the activity in pictures shown here.



Tony, KC0YHH, (left) and Bob, KB0FH discuss strategy, or something, just prior to the starting gun.



Power this year was provided by a portable generator for the full contest. Back-up power during refueling and regular checks was provided by a deep cycle battery.



The hockey rink provides a great location for the multiband dipole antenna.



Ian, KC0ITQ, (left) from Shakopee, stopped by for a visit and sat in to make a few contacts. Tony, KC0YHH (center) supervised while Bob, KB0FH, did the logging.



## SSN 783 Minnesota

### Keel-laying for a new submarine

NEWPORT NEWS, Va. (NNS) — The Navy celebrated the keel laying of Pre-Commissioning Unit Minnesota at Huntington Ingalls Industries - Newport News Shipbuilding (HII-NNS) in Newport News, Va., May 20.

In a time-honored Navy tradition, ship sponsor Ellen Roughead, wife of Chief of Naval Operations Adm. Gary Roughead, had her initials welded onto a steel plate that will be permanently affixed to Minnesota's hull. Mrs. Roughead, a former educator, has been a tireless supporter of military families and continuing education initiatives for Navy spouses.

"We are honored to have Mrs. Roughead as Minnesota's sponsor," said Capt. Michael Jabaley, Virginia-class program manager. "The keel laying marks the beginning of a special relationship between Mrs. Roughead, this submarine, and her crew. Her dedication and support of our Sailors and their families is admirable and will pay dividends for the submarine force for years to come."

Minnesota's keel-laying is the submarine's first major event since it began construction in February 2008; the submarine is on track to continue the Virginia-class program's trend of early deliveries.

"Our shipbuilding partners have done an outstanding job of reducing the amount of time it takes to deliver these much-needed platforms," said Rear Adm. David Johnson, program executive officer for submarines. "Their hard work and ingenuity have helped put Virginia-class submarines with their tremendous capabilities into the hands of the submarine force at an increasing rate."

Minnesota is the tenth submarine of the Virginia class and the last of the second, or Block II, construction contract. The submarine, like all Virginia-class boats, is being built under a unique construction contract between HII-NNS and General Dynamics Electric Boat (GDEB).

In addition to Minnesota's keel laying, the Virginia Class program will celebrate PCU California's (SSN 781) commissioning in October and PCU Mississippi's (SSN 782) christening in December. Also, for the first time in 22 years, the Navy will begin construction of two submarines of the same class in the same year when the unnamed SSN 787 officially starts construction in September.

Virginia-class submarines are designed to dominate the world's littoral and deep waters while conducting anti-submarine warfare; anti-surface ship warfare; strike warfare; special operation forces support; intelligence, surveillance, and reconnaissance; irregular warfare; and



NEWPORT NEWS, Va. A welder inscribes the initials of ship's sponsor Ellen Roughead during the keel laying ceremony for the Virginia-class attack submarine Pre-Commissioning Unit (PCU) Minnesota (SSN 783) at Huntington Ingalls Industries-Newport News Shipbuilding on May 20.

mine warfare missions. Their inherent stealth, endurance, mobility, and firepower directly enable them to support five of the six Maritime Strategy core capabilities - sea control, power projection, forward presence, maritime security, and deterrence.

BREAK - OVER



**ARES Breakfast**  
Saturday, August 13th  
7:30AM  
Perkins Restaurant  
Savage, MN

### NECOS Schedule August 2011

**1 Aug W0NFE Bob**  
**8 Aug KB0FH Bob**  
**15 Aug KC0YHH Tony**  
**22 Aug N0PI Dan**  
**29 Aug W0NFE Bob**  
**5 Sep KB0FH Bob**  
**12 Sep KC0YHH Tony**