



National Shipbuilding Research Program

Program Update

Surface Preparation and Coatings
Panel Meeting

June 10-11, 2009

Norfolk, VA

Program Funding and Ops: 2009 & beyond

- **FY 2009 Funding**

- PEOs (Ships, Carriers) have committed \$4.5M – *on board*
- \$700K for Documents for Ship Cost Reduction (Specs initiative)
- \$500K for Naval Engineering Education initiative (COMNAVSEA)
- \$710K for SecNav 'Culture of Quality' study (Asst SecNav for RDA)

- **ECB Spending Decisions To Date**

- Phase 2 of ongoing major (RA) projects
- Shipyards' engagement in Navy Product Data Initiative
- New round of panel projects (11/08 selection)
- SecNav Study and SEEC initiative
- Some standby panel projects...?

Standby Panel Projects

Standby List

Project	Participants	Panel	NSRP Funding
Pilot Tool for Linking Ship Design to Shipyard Simulation	Mississippi State University, ShipConstructor USA, VT Halter, Bollinger, Bender Shipbuilding, Todd Pacific, Atlantic Marine, Northrop Grumman - GC	SPPT	\$98,813
Comparison of SAW and Tandem Electrode Gas Shielded Processes for Productivity and Distortion in Thin Panel Butt Joints for Thin Panel Structures	Todd Pacific Shipyard, Nassco, CD-adapco, Weaver Engineering, Dwight Laboratories, Machinists Inc., ESAB, Wolf Robotics, Abicor Binzel Corp.	Welding	\$100,000
Cost-Effective Specifications and Requirements Definition	ABS, NASSCO, BIW, NGSB, Bollinger, Victoria Dlugokecki, Malone Consulting, Tedesco Consulting	PDMT	\$100,000
Vessel General NPDES Permit Applicability to Shipyard Vessels and Operations	BAE Systems Ship Repair Norfolk, CH2M HILL	Env.	\$28,000

- **Standby projects may get funded pending ECB decision...**

Recent Navy Tasking

- **Shipbuilding Engineer Education Consortium (SEEC)**
- **SEEC Task Statement**
 - “Develop an overarching concept strategy for educating engineers across the spectrum of engineers in NAVSEA and the shipyards. Explore issues such as best practices in engineering education, research projects, scholarship focus, curricula development and staff retention as applicable to the shipbuilding engineering work across the ship lifecycle (e.g., concept studies, design, construction, maintenance, repair, disposal). Develop the viability and operational concepts of a consortium to coordinate and execute this strategy.”
- **Briefed to ECB, final deliverable to Navy this month**

Is a Shipbuilding Engineering Education Consortium viable?



Possible?

Practical?

Workable?

Doable?

Feasible?

Documents for Ship Cost Reduction

- **NAVSEA working on**

- Shock
- Vibration/Noise (*New SOW being reviewed by SYs*)
- Welding (NVR Chp 8, MIL-STD-1689, -278)
- Motors (MIL-M-17060)
- Switchgear
- MIL-STD-777 Schedule of Piping
- Electromagnetic Interference & Environmental Effects
- Radar Engineering

- **Over 30 Industry visits made so far**

- Visits will be announced via ATI to the Shipyard POC – ensures logistics are in place

- **All activities in “Risk Analysis” phase (except Shock)**

Recent Meetings & Events

<u>Dates</u>	<u>Event / Location</u>	<u>Comments</u>
Apr 30	ISE-6 Demo; NPDM Mtg <i>Washington D.C.</i>	
May 6-7	Shipyard Prod'n, Business, Systems Product Design & Mat'l, & Crosscut Meeting Initiatives <i>San Diego, CA</i>	Joint Panel
June 9	ECB Meeting <i>Washington D.C.</i>	

Upcoming Meetings & Events

<u>Dates</u>	<u>Event / Location</u>	<u>Comments</u>
June 18	Electrical Technologies <i>Washington D.C.</i>	Panel Meeting
June 10-11	Facilities, Tooling & Risk Management <i>New Orleans, LA</i>	Panel Meeting
June 16-18	Environmental Technologies <i>Ketchikan, AK</i>	Panel Meeting
Sept 15-17	NSRP All-Panel Meeting <i>Philadelphia, PA</i>	Joint Panel Meeting
Oct 21-23	SNAME Maritime Technology Conference & Expo <i>Providence, RI</i>	NSRP Booth

For More Information -- *New, Improved* Website!*

www.nsrp.org

The screenshot shows the homepage of the National Shipbuilding Research Program (NSRP). At the top, the logo features an American flag and the text "NATIONAL SHIPBUILDING RESEARCH PROGRAM" and "ADVANCED SHIPBUILDING ENTERPRISE". Below this is the tagline "Reducing Naval Ship Construction & Repair Costs" and a search bar. A left-hand navigation menu includes links for Home, About Us, Project Information, Ship Production Panels, Events, Industry Initiatives, Key Downloads, Links, and Contact Us. A "Quick Links" section lists Solutions, Small Business Opportunities, Navy Product Data Initiative, Project Information Requests, and Strike Up/Strike Down. An "Updates" section lists "New Project Information Posted" and "Project Book 2007". A "CO-FUNDED BY" section lists the U.S. Navy and the U.S. Shipbuilding Industry, with logos for NAVSEA and other partners. The main content area features a large image of a "Perable Automated Bulkhead Straightener" with a caption "Perable Automated Bulkhead Straightener Demos a Success... more". Below this is a "Major Program Initiatives" section with six categories: Shipyard Production Processes, Systems Technology, Business Process Technologies, Product Design & Materials Technology, Facilities, Tooling & Risk Management, and Crosscut Initiatives. An "About NSRP" section explains the program's goal to reduce the cost of building and maintaining U.S. Navy warships, mentioning a collaboration of 13 major U.S. shipyards. At the bottom, a map of the United States is labeled "NSRP ASE" and shows the locations of various shipyards and research centers, including Ingalls, BAE Systems, and others. The footer contains links for Home, Links, Site Map, and Privacy Policy.

Questions?