



**NATIONAL SHIPBUILDING RESEARCH PROGRAM**  
**ADVANCED SHIPBUILDING ENTERPRISE**

*Reducing Naval Ship Construction & Repair Costs*

# NSRP Update

## Surface Preparation & Coatings Panel Meeting

Marinette, WI

June 21-22, 2011

# Funding

- \$15M for FY11:
  - Sources: PEOs (Ships, Subs, Carriers), NAVSEA 05
- \$15M commitment for FY 12:
  - \$5M line item in President's budget
  - Remainder coming from combination of sponsoring PEOs & NAVSEA
    - PEO IWS to be added as a sponsor in FY12
    - Any Congressional mark would reduce PEOs' share
  - Must continue to show program value delivered by FY10 and FY11 activities



# Panel Project Solicitation

- Less than \$100K & short-term (12 months or less)
- Solicitation is open, white papers due to ATI on 8 Aug
- Panel Project selection at September ECB Meeting

*Surface Prep & Coatings Whitepapers due to Panel Chair by July 20th*



# RA Projects Selected 12 April 2011

Proposal Title	Proposal Team
<b>Reduction of Total Ownership Costs Through Application of Design For Maintenance and Repair Methodologies</b>	<b>Bollinger</b> ; BAE Systems SE SY; Todd; TRF Kings Bay; NSWCCD; GDEB; Matt Tedesco; Hepinstall Consulting Group; V. Dlugokecki
<b>Swaged Bulkhead Analysis Verification</b>	<b>NASSCO</b> ; Marinette Marine; UCSD
<b>First Time Quality, NDE &amp; Fitness for Service Technology for Friction Stir Welding &amp; Manufacturing Aluminum Panels for Ships</b>	<b>Bollinger</b> ; Marinette Marine; Austal; NGSB; EWI; NSWCCD; Alcoa; Concurrent Technologies Corp; Manufacturing Technology, Inc.; Gatekey Engineering; ABS; Friction Stir Link; Tabor Industries, Ltd.; Hepinstall Consulting Group; V. Dlugokecki
<b>Naval Vessel Ice Capability Optimization Effort</b>	<b>NASSCO</b> ; BIW; ABS
<b>21st Century Smart Weld Inspection to Improve Ship Performance</b>	<b>Servo Robot Corp.</b> ; NGSB-GC; NGSB-NN
<b>Elimination of Overwelding to Reduce Distortion in Naval Shipbuilding Applications</b>	<b>NGSB-GC</b> ; Applied Thermal Sciences, Inc.; Concurrent Technologies Corp.; UNO; UMaine; NSWCCD

# Research Announcement Solicitation

- Research Announcement projects
  - Can run into the millions of dollars
  - Funded with both government monies and industry cost share
  - Last up to three years
- Abstracts are once again mandatory
  - Due by June 17 if feedback was desired.
  - Can be turned in until July 1<sup>st</sup>



# Research Announcement Solicitation

- Changes from last RA:
  - Minor additions to the “R&D Areas of Interest” table (PEO IWS)
  - Can submit a short video with the Technical Proposal
  - Proposers Conference is an on-demand video on the NSRP website
  - New/updated Technical Proposal requirements in the PPK
- This year’s Proposers Conference is on-demand video and can be accessed from the NSRP website versus a scheduled Webinar. Video will remain available until proposals are due in September.



# Research Announcement Timeline

Release	May 25
Abstracts due if feedback is required	June 17
Abstracts due if feedback is not required	July 1
Proposals due	Sept 9
Technical Review	October
Blue Ribbon Panel	November
Project Selection	December



Executive Control Board

Executive Director



Major Initiatives

Ship Design & Material Technologies

Ship Production Technologies

Business Processes & Information Technologies

Infrastructure & Support

Panels

Ship Design & Material Technologies

Electrical Technologies

Business Processes

Environmental

Planning, Production Processes & Facilities

Information Technologies

Risk Management  
• Workers' Compensation  
• Safety & Health

Surface Preparation & Coatings

Welding Technology

Workforce Development



# Major Initiative Team Lead Vacancy

	SHIP DESIGN & MATERIAL TECHNOLOGIES	SHIP PRODUCTION TECHNOLOGIES	BUSINESS PROCESSES & INFORMATION SYSTEMS	INFRASTRUCTURE & SUPPORT	MITL At-Large
MI Team	Barry Espeseth (EB) March 2013	Thurston Gore (HII-NNS) March 2013	Scott Mullen (BIW) <i>Business Processes</i> March 2013	Lane Folkers (HII-Ingalls) <i>Facilities</i> July 2011	John Walks (HII-Ingalls) March 2013
	David Rice (HII-NNS) March 2013	Rick Nelson (EB) March 2013	Mark Debbink (HII-NNS) <i>Business Processes</i> March 2013	Mike Leleux (VT Halter) <i>Workforce</i> March 2013	Shawn Wilkerson (HII-Ingalls) March 2013
Extended MI Team	Richard Storch (U of Wash)	Mike Wade (NSWC)	Jack White (Altaram Institute)	Steven Lacoste (NGSB-GC) Will Lannes (UNO) Anthony Start (PSNSY)	
Panel Officers	<b>Ship Design &amp; Material Technologies</b>	<b>Electrical Technologies</b>	<b>Business Processes</b>	<b>Environmental</b>	
	Chair: Dave Wood (HII-Ingalls)	Chair: Gary Zimak (HII-NNS) Feb 2011	Chair: Ken Clarke (HII-NNS) Dec 2011	Chair: Wayne Holt (BAE) July 2011	
	V-Chair: John Malone (Consultant) Feb 2012	V-Chair: Erik Bjorkner (HII-Ingalls)	V-Chair: Pat Roberts (ShipConstructor)	V-Chair: Shaun Halvax (BAE)	
		<b>Planning, Production Processes &amp; Facilities</b>	<b>Information Technologies</b>	<b>Risk Management</b>	
		Chair: Tonya Boney (HII-Ingalls) May 2011	Chair: Burt Gischner (EB) Jan 2013	Chair: Jack Shea (EB) July 2012	
		V-Chair: Vacant	V-Chair: Gerald Radack (PiLog USA) Dec 2011	<b>Workers Comp Committee</b>	
		<b>Surface Preparation &amp; Coatings</b>		Angella Thompson (Todd) June 2011	
		Chair: Steve Cogswell (BAE) Nov 2011		Louise Holleran (NASSCO) June 2011	
		V-Chair: Judie Blakey (NASSCO) Nov 2011		<b>Safety &amp; Health Committee</b>	
		<b>Welding Technology</b>		Yaniv Zagagi (BAE) July 2012	
	Chair: Lee Kvidahl (HII-Ingalls) Jan 2011		Laura Mathisen (BIW) July 2012		
	V-Chair: Mike Sullivan (NASSCO) Feb 2012		<b>Workforce Development</b>		
			Chair: Mark McCoy (NASSCO)		
			V-Chair: Dave Bennett (HII-NNS)		
PTRs	Barry Espeseth (EB)  John Walks (HII-Ingalls)  Bill Brill (Consultant)	Thurston Gore (HII-NNS)  Lee Kvidahl (HII-Ingalls)  Shawn Wilkerson (HII-Ingalls)	Ken Clarke (HII-NNS) <i>Business Processes</i> Scott Mullen (BIW) <i>Business Processes</i> Bob Schaffran (Consultant) <i>Information Technologies</i> Doug Martin (Consultant) <i>Information Technologies</i>	Lane Folkers (HII-Ingalls) <i>Facilities</i>	



# MITL Nomination

- Opening for the Infrastructure & Support Major Initiative Team Lead
- Terms are 2 years
- Employed at an ECB member shipyard
- Responsibilities include: PTR for RA projects & liaisons for communications



# International Shipyard Visits

- NSRP team visit conducted at international shipyards in Asia in April and European shipyards in May
- Focused look at best practices within the following areas:
  - Production Engineering/Planning
  - Ship Design/Design for Production
  - Organization & Structure
  - Purchasing & Material Management



# International Shipyard Visits

- Teams included a mix of ECB, shipyard managers and Navy
- The European Shipyard Visit Team is working on a draft of their trip report. The team's list of major take-aways for consideration are:
  - Non-painted ship's cables
  - Shrink-wrapped stainless steel pipe
  - Numbered cableways to aid installation
  - Wood vs. metal scaffolding applications
  - Ship-side personnel and material elevators
  - Bulb flats in lieu of built-up "T's"
- The combined trip report is also being drafted and will be available soon. The team will brief their findings from both trips at the next ECB meeting (September) and at the All-Panel Meeting in October.



# NSRP Day at NAVSEA

September 22, 2011 in DC

- NAVSEA will be hosting an NSRP Day following the ECB Meeting.
- This will be an opportunity for NSRP to showcase projects and educate Program Managers about the program and technology advances that could be, or are being, used on their shipbuilding programs.
- ATI is currently working with NAVSEA on details and logistics.
- The timing of the event was chosen to facilitate attendance by the Board members and Panel Chairs.
- Attendance by some MITLs, PTRs and Project Leads will also be crucial to the event's success.



# All Panel Meeting

## October 4-6 in Newport News, VA



- Held at the Newport News Marriott at City Center
- Agenda will include:
  - General Session with keynote speakers
  - 4 Technical Tracks based on MI Areas
  - Individual Panel Meetings



# *Recent/Upcoming* Meetings & Events

<b>Event</b>	<b>Date</b>	<b>City, State</b>
Environmental Panel Meeting	June 15-16, 2011	Norfolk, VA
Large Scale Computer Simulation Modeling System Enhancement Project Quarterly Review	June 15, 2011	San Diego, CA
Modeling/Simulation Phase 2 Quarterly Review & Demo	June 16, 2011	Washington, DC
Workforce Development Panel Meeting	June 16, 2011	Charlotte, NC
Surface Preparations and Coatings Panel Meeting	June 21-22, 2011	Marinette, WI
Risk Management Panel Meeting	June 22-23, 2011	Seattle, WA
Ship Design and Material Technologies Panel Meeting	June 22-23, 2011	Seattle, WA
Welding Technology Panel Meeting	August 2011	Fort Collins, CO
Fleet Maintenance & Modernization Symposium	August 30-31, 2011	San Diego, CA
NSRP ECB Meeting/Panel Project Approval (Tentative)	September 20-21, 2011	Washington, DC
NSRP Day	September 22, 2011	Washington, DC

# *Recent/Upcoming* Meetings & Events

<b>Event</b>	<b>Date</b>	<b>City, State</b>
All Panel Meeting	October 4-6, 2011	Newport News, VA
Technical Evaluation Review Panel (Tentative)	October, 2011	Charleston, SC
Risk Management Panel Meeting	November 2011	Norfolk, VA/Washington, DC
Blue Ribbon Panel (Tentative)	November, 2011	Charleston, SC
SNAME Annual Meeting/Ship Production Symposium	November 16-18, 2011	Houston, TX
Electrical Technologies Panel Meeting	November 19, 2011	Houston, TX
Defense Manufacturing Conference 2011	November 28-December 1, 2011	Anaheim, CA
Joint Panel Meeting	TBD	Gulf Coast
NSRP ECB Meeting/RA Project Selection + PTR Selection (Tentative)	December 13-14, 2011	Charleston, SC

# For More Information



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SEARCH

*Reducing Naval Ship Construction & Repair Costs*

Program Information    Projects    Ship Production Panels    Industry Initiatives    Solicitation

**2010 Strategic Investment Plan and Organization & Operations Manual Released**

Strategic Investment Plan and Organization & Operations Manual available.

**Research Announcement**  
Revision 2 - June 14, 2011

**Proposers Conference**

**Abstract Submissions**

Mandatory Abstracts due 11:59PM ET on...  
June 17, 2011 - if feedback desired  
July 1, 2011 - if feedback not desired

**Program Information**

**Project Portfolio**

**Upcoming Events**



[www.nsrp.org](http://www.nsrp.org)

NATIONAL SHIPBUILDING RESEARCH PROGRAM

# Questions?



# National Shipbuilding Research Program



managed by

## Advanced Technology International

NSRP is managed by ATI, a leader in collaborative applied research. ATI is an affiliate of SCRA, a non-stock, tax-exempt research and commercialization services company. ATI assures delivery of technology solutions to complex challenges for Federal clients, such as the Departments of Defense, Energy, Justice, and Health and Human Services, and for Corporate clients.



**NATIONAL SHIPBUILDING RESEARCH PROGRAM**

BACK UP SLIDES

# Asia Trip

- Visits completed 23 April 2011
- Team:
  - Industry reps (10 personnel, 8 yards represented)
  - Ron Glover and Bob Schaffran
  - Navy
    - Tim Roberts (PEO Subs)
    - Gary Humes (PEO Ships)
    - Phil Koenig (NAVSEA)
    - Nidak Sumrean (NAVSEA)
- Schedule:
  - 16 April                      Travel to Singapore
  - 19-20 April                  Visit ST Marine and Jurong shipyards
  - 21 April                      Travel to Korea
  - 22 April                      Visit Daewoo and DSEC
  - 23 April                      Travel to USA

# Europe Trip

- Team:
  - Industry reps (10 personnel, 9 yards represented)
  - Ron Glover and Bob Schaffran
  - Navy
    - Art Divens (PEO Ships)
    - Connie Bowling (NAVSEA)
    - Gary Humes (PEO Ships)
- Schedule:
  - 8 May                      Travel to Italy
  - 10-11 May                Visit Muggiano and Riva Trigosa shipyards
  - 12 May                    Travel to Spain
  - 13 May                    Visit Navantia Ferrol shipyard
  - 14 May                    Travel to USA