



NATIONAL SHIPBUILDING RESEARCH PROGRAM

ADVANCED SHIPBUILDING ENTERPRISE

Reducing Naval Ship Construction & Repair Costs

Program Update

Joint Panel Meeting

Jacksonville, FL

April 21, 2010

Program Operations

- NAVSEA Program Mgr: Connie Bowling
- \$15.8M/yr funding (before “taxes”) for FY10 and \$15M (before “taxes”) for FY11 – sources:
 - PEOs (Ships, Subs, Carriers)
 - NAVSEA 05
 - FY10 Defense Appropriations Bill
- New Panel Project Portfolio (~\$1.3M) selected at January ECB meeting
- RA Project selection this April!



New Panel Projects

2010 Selected Panel Projects			
Project	Participants	Panel	NSRP Funding
Analysis of Injuries & Fatalities in Shipbuilding Industry Associated with "Struck By", "Struck Against" or "Caught In" Incidents	Atlantic Marine , Electric Boat, NASSCO, Norfolk Naval Shipyard, NGSB-NN, NGSB-GC, Teresa Preston	FTRM	\$23,000
Solid-State Ship Lighting System Evaluation	NGSB-GC , Omni Technologies, LightPod, Integrated Illuminated Systems	Electrical	\$95,000
Fiber Optic Tester with Go/No-Go Acceptance Criteria	NGSB-NN , NGSB-GC, Bollinger, Bath Iron Works, Kitco, JDSU, NSWC-Dahlgren	Electrical	\$100,000
Cable Tag Reduction	BIW , NASSCO, NGSB-NN, NGSB-GC	Electrical	\$100,000
Implementation of Recently Generated Emission Factors at the Federal, State and Local Level	Concurrent Technologies Corporation , BAE Systems San Diego Ship Repair	Env.	\$98,956
Swage Panel Analysis Verification	NASSCO , Noran Engineering, BMT Scientific Marine Services	PDMT	\$98,670
A Study to Determine an Alternative Coatings System Environment Recorder	NGSB-NN	SPC	\$92,400
Enterprise Resource Planning (ERP) Integration with CAD	VT Halter Marine , NGSB - Gulf Coast, ShipConstructor USA	Business	\$99,600
Study to Determine the Level of Salt Mitigation as related to the Accuracy of the Measurement and Cost Benefits	Lydia Frenzel , NASSCO, Atlantic Marine	SPC	\$79,600
Constructing a Prototype Man-Portable Friction Stir Welding System	Engineering Consulting Services , Wichita State University	Welding	\$99,960
The Cost of U.S. Navy Coatings QA/QC	Global Inspection Group , Atlantic Marine	SPC	\$81,700
Safe practices of Common Shipyard Rigging Equipment	NASSCO	SPPT	\$81,100
Hybrid Laser Arc Welding Economic Viability Study	Bollinger , NGSB-Gulf Coast, Penn State ARL	Welding	\$84,740
NVR Strength Criteria Implementation into MAESTRO FEA Application	DRS Defense Solutions , BIW, ABS, NGSB-GC(Avondale), NSWC-Carderock	PDMT	\$100,000
Improving and Sustaining Goships.com Web Site	Alaska Ship & Drydock , Gulf States Shipbuilding Consortium, Les Hansen	Crosscut	\$52,000
			\$1,286,726
Standby List			
"Best of the Best" Practices in Shipyard Workers' Compensation Programs	Electric Boat , Barry Thompson/Risk Acuity, Bath Iron Works, NASSCO, Todd Pacific	FTRM	\$66,550

Research Announcement 08-01

- Proposals submitted 12 Feb
- Technical Evaluation Review Panel met at ATI 1 – 5 Mar; submitted their recommendations to the Blue Ribbon Panel who met 29 Mar – 2 Apr
- Project Selection 28-29 Apr



Other Initiatives

- Specifications Review
aka 'Documents for Ship Cost Reduction' (DSCR)
- Strategic Investment Plan Update



Specifications Review

Documents for Ship Cost Reduction (DSCR)

History

- Came about as a result of the NAVSEA strategic planning process and industry inquiry
- Spring 2008 – NAVSEA Tech Warrant Holders identified ~140 cost driving requirements
- Asked shipyards, thru NSRP, to ID which could be cut or amended ... & assessment of cost impact
- Solicited similar info from Marine Machinery Assn
- Analysis of input led to “Top 10 List” for initial effort

“Find stuff we no longer need or can no longer afford”

Specifications Review

Documents for Ship Cost Reduction (DSCR)

- NSRP conducted assessment of cost impact to proposed changes for:
 - MIL-STD-777 (piping & valves)
 - MIL-DTL-17060 (60Hz, AC motors)
 - MIL-STD-1689 / Tech. Pub 278 (welding)
- New commonality initiative – “Virtual Shelf” – also reviewed for impact
- Industry response submitted to NAVSEA at January ECB meeting



Specifications Review

Documents for Ship Cost Reduction (DSCR)

- NAVSEA delivered three new letters to NSRP requesting assessment of:
 - MIL-STD-167-1A (Mechanical Vibration) changes
 - Shock Testing requirements changes
 - Use of EM-TARTT (Electromagnetic Interference Testing & Reqts Tailoring Tool)
- Industry responses due at April ECB meeting



Strategic Investment Plan Update

- Last comprehensive update was 2004 – 2005
- SIP Update Working Group comprised of Major Initiative Leads, Panel Chairs and Navy reps
 - Best path for input is through your Panel Chair
- Kickoff meeting held on 22 Feb
- Virtual Meeting held on 16 March
- Strategic direction being sought from ECB members and Navy stakeholders
- Prioritization Workshop to be Scheduled in ~2-3 months



Recent Meetings & Events

Dates	Event	Comments
Mar 10-11	ShipTech <i>Biloxi, MS</i>	Conference
Mar 10	Large Scale Computer Simulation Modeling <i>Biloxi, MS</i>	Workshop/ Demo
Mar 10-11	Product Design & Material Technologies <i>Biloxi, MS</i>	Panel Meeting
Mar 10-11	Electrical Technologies <i>Biloxi, MS</i>	Panel Meeting
Mar 11-12	Crosscut Initiatives <i>New Orleans, LA</i>	Panel Meeting
Apr 7-8	Welding Technology <i>South Padre Island, TX</i>	Panel Meeting
Apr 8-9	ASNE Day <i>Arlington, VA</i>	Conference
Apr 13-15	NDIA 11 th Annual and Engineering Technology Conference/DoD Tech Expo <i>Charleston, SC</i>	Conference



Upcoming Meetings & Events

Dates	Event	Comments
Apr 21-22	Joint Panel Meeting <i>Ponte Vedra Beach, FL</i>	Panel Meeting
Apr 28 - 29	RA Project Selection	ECB Meeting
May 11	Marine Machinery Association <i>National Harbor, MD</i>	Spring Conference
May 19-20	Facilities, Tooling & Risk Mgmt <i>Portland, ME</i>	Panel Meeting
June	Environmental Technologies <i>Portland, OR</i>	Panel Meeting
June	Product Design & Material Technologies <i>TBD</i>	Panel Meeting



NAVSEA Program Office Comments



For More Information

NSRP/ASE NATIONAL SHIPBUILDING RESEARCH PROGRAM
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Navigation: About Us | Project Information | Ship Production Panels | Industry Initiatives | Solicitation

RECENT VIDEOS Gallery

- Remote Climbing Robot for Automated Welding Processes
- Portable Automated Bulkhead and Hull Straightener

Current Research Announcement
Solicitation Information

TECHNOLOGY TRANSFER
Environmental Technologies Panel Meeting
February 10-12, 2010
New Orleans, LA
Surface Preparation & Coatings Panel Meeting
February 25-26, 2010
San Diego, CA

MAJOR PROGRAM INITIATIVES
SHIPYARD PRODUCTION PROCESSES TECHNOLOGIES | SYSTEMS TECHNOLOGY | BUSINESS PROCESS TECHNOLOGIES | PRODUCT DESIGN & MATERIAL TECHNOLOGIES | FACILITIES, TOOLING & RISK MANAGEMENT | CROSSCUT INITIATIVES

NSRP PROJECT BOOK
This book has been created to increase awareness of ongoing work under NSRP, stimulate interaction between projects, and accelerate transfer of technology throughout the U.S. shipbuilding and repair industry.
Project Book 2010

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ATI An OSRA Affiliate
5300 International Boulevard
Charleston, SC 29418
843-760-2466
Fax: 843-60-4098
nsp@ati-corp.org

NEW HOMEPAGE DESIGN...

- Page for each Major Initiative
- New menu layout

NSRP has joined the blogosphere!

- Links off the home page to 6 blog sites
- One for each Major Initiative
- Users can post commentary, event descriptions, other relevant materials
- Additional avenues for tech transfer & networking

NSRP Major Initiatives Blog Site

HOME | HOW TO USE THE NSRP MAJOR INITIATIVE BLOG SITE | RETURN TO NSRP WEBSITE | FEED

Search

MAJOR INITIATIVES BLOGS
Business Process Technologies (1)
Crosscut Initiatives (1)
Facilities, Tooling & Risk Management (1)
Product Design & Material Technologies (1)
Shipyard Production Process Technologies (1)
Systems Technology (1)

HOW-TO WEBPAGES
How to Use the NSRP Major Initiative Blog Site
Return to NSRP Website

How to Use the NSRP Major Initiative Blog Site

Instructions:

1. Select a blog (listed on the left toolbar).
2. Read posting of interest.
3. Post comment by selecting "Comments" Link.
4. The comment will be sent to the NSRP Administrator for approval.
5. Once approved, the comment will be displayed underneath the blog.

If you have questions, please contact the NSRP Administrator at (843) 760-3334 or at nsp@ati-corp.org

Comment (RSS) | Trackback

Leave a Comment

ADMINISTRATOR FUNCTIONS
Log in
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Questions?

