

State of the Panel Address

Environmental Technologies Panel

February 10 - 12, 2010

New Orleans, LA

Environmental Technologies Panel Steering Committee

- Donna Elks – EB - Chair
- Mike Chee - NASSCO
- Stephanie Carver - BIW
- Shaun Halvax – BAE Systems SDSR
- David Kopack – NAVSEA
- Frank Thorn – NG Newport News
- Alan Spratt – Vigor Industrial

- Personnel from academia and consulting firms will be asked to participate in meetings to provide input

Program Operations

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



Research Announcement 08-01

- Proposals due 12 February
- Blue Ribbon Panel week of 29 March
- Project Selection 28-29 April

Panel Budgets Funding

- \$ 30,000 for each of the 10 Panels



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
			\$1,234,726
Standby List			
Project	Participants	Panel	NSRP Funding
"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

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

DSCR Top 10

- MIL-STD-777 Schedule of **Piping**, Valves, Fittings & Associated Piping Components for Naval Surface Ships
- Naval Vessel Rules Part 8 relative to MIL-STD-1689 and MIL-STD-278 **Fabrication Welding** and Inspection of Ships Structure
- MIL-M-17060 **Motors**, 60 Cycle, Alternating Current, Integral HP, Shipboard Use
- MIL-DTL-16036 **Switchgear**, Power, Low Voltage, Naval Shipboard in conjunction with use of MIL-Spec circuit breakers (MIL-C-17587, MIL-C-17361)
- MIL-STD-167 **Vibration** Technical Area
- MIL-STD-740 Airborne and Structure Borne **Noise**
- MIL-STD-461E Electromagnetic Interference (**EMI**)
- MIL-STD 464A **Electromagnetic Environmental Effects** (E3) Requirements for Systems
- MIL-STD-469B / National Telecommunications Information Administration (NTIA) Chapter 5 **Radar** Engineering Interface Requirements, Electromagnetic Compatibility – Frequency Spectrum Guide for Radar
- MIL-S-901 **Shock** Technical Area

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
- Major Initiative Team Leads, Panel Chairs to form SIP Update Working Group
- Kickoff meeting on 22 Feb, workshop in early May – Major Initiative Brainstorming & Prioritization Session
- Open Major Initiative Team Lead Position for Facilities & Tooling



Upcoming Meetings & Events

Dates	Event	Comments
Feb 24-26, 2010	Surface Preparation and Coatings <i>San Diego, CA</i>	Panel Meeting
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



For More Information

NATIONAL SHIPBUILDING RESEARCH PROGRAM
ADVANCED SHIPBUILDING ENTERPRISE
Reducing Naval Ship Construction & Repair Costs

About Us | Project Information | Ship Production Panels | Industry Initiatives | Solicitation

RECENT VIDEOS | Gallery

Remote Climbing Robot for Automated Welding Processes
Team continues refinement of the mobile

Portable Automated Bulkhead and Hull Straightener
The focus of this project expanded existing

National Shipbuilding Research Program Approves \$1.2M for New Cost-Reducing Projects

SHIP PRODUCTION PANELS

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 USCARA Affiliate
5300 International Boulevard
Charleston, SC 29418
843-767-3366
Fax 843-760-4098
nsrp@aticorp.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

How to Use the NSRP Major Initiative Blog Site

ADMINISTRATOR FUNCTIONS
Entries RSS
Comments RSS
WordPress.org

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 nsrp@aticorp.org

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www.nsrp.org



NATIONAL SHIPBUILDING RESEARCH PROGRAM

Questions?

