



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

*Reducing Naval Ship Construction & Repair Costs*

# Crosscut Initiatives Panel Meeting Program Update

Norfolk, VA

November 17-18, 2010

# Funding

- \$15M/yr funding for FY10 and FY11 – sources:
  - PEOs (Ships, Subs, Carriers)
  - NAVSEA 05
  - Defense Appropriations Bill (FY10)
- FY 12 funding dependent on proven program value through current projects
  - \$5M in President's Budget
  - Remainder from PEOs and Congress



# Project Solicitations

- Panel Project Solicitation -- Closed
  - Whitepapers being reviewed; Project Selection on 30 Nov
- Research Announcement
  - Solicitation released on 24 September 2011
  - Proposals due on 11 February 2011
  - Orals (for competitive proposals) will be held the week of 28 March 2011
  - Project Selection will be the week of 11 April 2011
- Anticipate having ~ \$10M available for major projects



# Other Initiatives



# Specifications Review

## Documents for Ship Cost Reduction (DSCR)

- NSRP working with NAVSEA to ID and review specification changes that will reduce cost without impacting quality
- NSRP has performed assessments of changes to the following...
  - MIL-STD-777 (piping & valves)
  - MIL-DTL-17060 (60Hz, AC motors)
  - MIL-STD-1689 / Tech. Pub 278 (welding)
  - Virtual Shelf (Commonality)
  - MIL-STD-167-1A (mechanical vibration)
  - Shock Testing requirements
  - Use of software tool for identifying EMI testing reqts



# Specifications Review

## *Documents for Ship Cost Reduction (DSCR)*

- Next Steps
  - New Specification Initiatives
    - Deck coverings – combine 10 specs into 4; remove redundancies and inconsistencies
    - Shock – New heavy weight testing machine; reduce reliance on floating platform
    - Welding – Standardize processes with American Welding Society (result of NSRP panel project!!)
  - Shipyards can also draft a change proposal and submit through the review process
    - Template proposal letter sent to Specs Working Group members
    - Proposals can be submitted anytime to ATI



# Strategic Investment Plan 2010

- SIP 2010 being finalized by Working Group
  - Anticipate final approval at November ECB meeting
- NSRP Organization & Operations Manual being drafted
  - Anticipate publication in Spring 2011
- Major highlights discussed on following slides...



# SIP 2010

- Major Initiative changes:
  - 4 instead of 6
  - Business Process Technologies and Systems Technology combined
  - Crosscut (Workforce Development) combined with FTRM to make Infrastructure and Support
- Panels – same 10, a few editorial name changes
- Structure mimics major shipbuilding processes:
  - Design
  - Production
  - Business / IT
  - Support functions
- Document changes:
  - New 2-book system that makes updating easier
  - Answers the desire for the SIP to read more like an “Executive Summary” that provides high level information
  - Updated discussion of the Major Initiatives and how they interact with new strategic priorities



# Executive Control Board

## Major Initiatives

Ship Design &  
Material  
Technologies

Shipyard  
Production  
Technologies

Business Processes  
& Information  
Technologies

Infrastructure &  
Support

Panels



# Proposed Documents

## Strategic Investment Plan

- Record of Changes
- Endorsements
- Introduction (brief explanation of NSRP)
- Summary of Industry and Navy Priorities (currently Navy big 3)
- Focus Areas (combined ECB/Navy strategic guidance)

*Update every 2 years*

## NSRP Organization & Operations

- NSRP CONOPS (MI/Panel structure; project activities; history)
  - Program History
  - Organization / Structure
  - R&D Project Process
- Benchmarking
- Methodology
- Acknowledgements
- Glossary
- References (project book, etc.)

*Update sections as necessary*



# Recent Meetings & Events

Dates	Event	Comments
Aug 4-5	Crosscut Initiatives <i>Seattle, WA</i>	Panel Meeting
Aug 17-18	Welding Technology <i>Idaho Falls, ID</i>	Panel Meeting
Sept 14-15	Fleet Maintenance & Modernization Symposium <i>Virginia Beach, VA</i>	Conference
Sept 28-29	Joint Panel Meeting – Business Process/Product Design & Materials/Shipyard Production Process Technologies/Systems Technology <i>Washington, DC</i>	Panel Meeting
Nov 2	Electrical Technologies Panel Meeting <i>Seattle/Bellevue, WA</i>	Panel Meeting in conj. w/ SNAME / SPS



# *Upcoming* Meetings & Events

Dates	Event	Comments
Nov 3-5	SNAME Ship Production Symposium Call for Papers Closed <i>Bellevue, WA</i>	Conference
Nov 3-4	Facilities, Tooling & Risk Management <i>Mobile, AL</i>	Panel Meeting
Nov 9-10	Environmental Technologies <i>Jacksonville, FL</i>	Panel Meeting
Nov 17-18	Crosscut Initiatives <i>Norfolk, VA</i>	Panel Meeting
Dec 7-9	Business Process Tech., Shipyard Production Process Tech., Systems Tech. <i>New Orleans, LA</i>	Panel Meeting
Mar 15-16, 2011	ShipTech <i>Biloxi, MS</i>	Conference



# For More Information



## NATIONAL SHIPBUILDING RESEARCH PROGRAM

### ADVANCED SHIPBUILDING ENTERPRISE

Reducing Naval Ship Construction & Repair Costs

Program Information
Projects
Ship Production Panels
Industry Initiatives
Solicitation

#### VIDEO GALLERY

Gallery



**Remote Climbing Robot for Automated Welding Processes**

Demo of a mobile, autonomous, robotic welding platform that



**Portable Automated Bulkhead and Hull Straightener**

The focus of this project expanded existing technology used in

### Proposal Writing Workshop

October 27, 2010  
Charlotte, NC



For additional Information:  
[Proposal Writing Workshop](#)

Proposal Writing Workshop

**ABSTRACT SUBMISSION**



[Solicitation Information](#)  
[Current Research Announcement](#)

#### TECHNOLOGY TRANSFER

[NSRP Proposal Writing Workshop](#)

October 27, 2010  
Charlotte, NC

[Electrical Technologies Panel Meeting](#)

November 2, 2010  
Seattle, WA



#### MAJOR PROGRAM INITIATIVES

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

-  PROJECT SELECTION PRESS RELEASE
-  PROJECT BOOK
-  NEWS BULLETIN
-  PROPOSAL WRITING WORKSHOP



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# Questions?



# National Shipbuilding Research Program

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