

NSRP ASE

Briefing to Welding Technology Panel

MISSION:

Manage and focus National Shipbuilding and Ship Repair research and development funding on technologies that will reduce the cost of ships to the U.S. Navy and other National Security Customers by leveraging best commercial practices and improving the efficiency of the U.S. Shipbuilding and Ship Repair Industry.

Provide a collaborative framework to improve ship-related technical and business processes.

Vienna, VA

August 22, 2006

New Developments in Funding

- **New Navy sponsors**
- **New “colors” of money**
- ***Maybe...new contract, new terms & conditions***
- **Large upside potential for standby projects**
- **Probability of a separate, additional funding source for Common Product Data Architecture**
 - *Separate solicitation*
 - *Could incorporate Integrated Shipbuilding Environment*

Key Business Activities - Last Quarter

- **Pursued FY07+ stability**
 - **Identified PEO Priorities for FY07 funding**
 - » Resolved CONOPS changes
 - » Worked with PEO Subs on Common Product Data Arch Initiative –
 - **Congressional engagement**
 - » **HAC \$20M; SAC \$10M; Conference will decide on amount of funding**
 - » **Initiated legislative fix to “color of money” issue**
 - **Continued NAVSEA contracts interaction for FAR-based contract vehicle to use SCN funds**
- **ECB approved solicitations for new round of RA & Panel projects**

Key Business Activities - Next Quarter

- **Panel project proposals**
- **RA project proposals**
- **Technical Eval of RA proposals**
- **Work FY07+ funding issues**
 - Close Basic Ordering Agreement (BOA) w/ NAVSEA
 - Legislation authorizing SCN, O&MN for JFA
- **Next ECB Meeting**
 - **Agenda Include: Panel Project selection**
Mid-Tier Benchmarking Report-Out
 - **Dates: 9 November 2006**
 - **Location: Washington, DC**

Navy Special Interest Areas

- Collaborative approaches for nationwide shipyard integration/interoperability, product data interoperability
- Review of shipbuilding specifications and procedures
- Parts standardization, shared parts database
- Expanded modeling and simulation to replace structural testing
- Research advanced materials & designs to reduce weight, increase lifespan in future Naval ships
- Advanced welding techniques to increase welding speed & quality, reduce distortion, improve worker environment
- Solutions for shorter repair availabilities
- Realize improved Navy ROI on ManTech & small business programs

Also...

- Describe how proposed effort supports the Navy 30-year (313 ship) shipbuilding plan
- Involvement of the Navy customer on project teams viewed favorably

Research Announcement # 5 & 06 Panel Projects Preliminary Timeline

<u>Action</u>	<u>Date</u>
RA Released / Panel White Paper Call	4 Aug
Proposers Conference	21 Aug
Optional Abstracts Due	23 Aug
Abstracts Feedback	30 Aug
Panel Project White Papers Due	28 Sep
Proposals Due	5 Oct
Technical Evaluation Review Panel	30 Oct - 3 Nov
ECB Meeting – Panel Proj Selection	9 Nov (Wash DC)
Blue Ribbon Panel	11-15 Dec
Panel Project Contract Deadline	12 Jan
ECB Meeting – RA Proj Selection	16-17 Jan
PEO Variable Funding Proj Selection	16 Jan
Letter Contracts	18 Jan
RA Project Contract Deadline	16 Mar

Lean Shipbuilding & Ship Repair Forum 2006

September 12-14 Jacksonville, FL

- **Response to Industry/Navy desire for forum for sharing best practices in Lean and Six Sigma**
- **Represents an evolution from Lean education focus of previous forums**
- **Theme:**
“Shipbuilding Affordability Through Lean/Six Sigma”
- **Keynotes:**
 - Dennis Fanguy (Bollinger) confirmed
 - _____ (Navy)
 - _____ (NGSS)

Online registration closed Aug 18- call ATI if interested

Lean Shipbuilding & Ship Repair Forum (cont'd)

September 12-14 Jacksonville, FL

- **2 Technical Tracks...8 presentations total**
- **“Crackerbarrel”**
 - Timed, facilitated small-group discussions on selected Lean topics
 - Topics: Lean Metrics, Lean Above the Shop Floor, Customer Alignment, Reward Systems, Sustaining Lean, and Lean Organization
- **Closing Panel on Affordability**
- **Dinner Speaker**
 - Jerry Bussell, Medtronic has accepted
- **Tours**
 - Ameritape (specialty tape & label stock)
 - Atlantic Marine (ship construction & repair)
 - JEA (electric, water, sewer utility)
 - Medtronic (medical technology mfg. & services)
 - NAVAIR Depot Jax (aircraft engine overhauls)
 - Pilot Pen (writing instruments)
 - RexCorp (paperboard packaging)

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Recent Conf. & Panel Meetings

<u>Dates</u>	<u>Event / Location</u>	<u>Comments</u>
May 9-10	Product Design & Materials Technologies <i>San Diego, CA</i>	Panel Meeting
May 10 – 11	Crosscut Initiatives <i>Mobile, AL</i>	Panel Meeting
May 16 – 17	Shipyard Production Process Technologies, Systems Technology and Business Process Technologies <i>Seattle, WA</i>	Joint Panel Meeting
May 16-19	International Marine Design Conference <i>Ann Arbor, MI</i>	UMich/SNAME/ASNE
May 23 – 24	Facilities, Tooling & Risk Management <i>Jacksonville, FL</i>	Panel Meeting
June 13 – 14	Surface Prep & Coatings <i>Norfolk, VA</i>	Panel Meeting
June 21-23	Environmental Technologies <i>Jacksonville, FL</i>	Panel Meeting
Aug 8-10	Systems Technology <i>Bath, ME</i>	Panel Meeting

Upcoming Conf. & Panel Meetings

<u>Dates</u>	<u>Event / Location</u>	<u>Comments</u>
Aug 22-23	Welding Technology <i>Carderock, MD</i>	Panel Meeting
Sep 11	Shipyard Production Process & Business Process <i>Jacksonville, FL</i>	Panel Meeting
Sep 12-14	Lean Shipbuilding & Ship Repair Forum <i>Jacksonville, FL</i>	
Oct 11-13	Ship Production Symposium / SNAME MTC <i>Ft. Lauderdale, FL</i>	NSRP booth
Oct 31-Nov 2 (tent.)	Surface Prep and Coatings <i>Seattle, WA</i>	Panel Meeting
Oct 31-Nov 2	Crosscut Initiatives <i>Tidewater area</i>	Panel Meeting
Nov 7-8	Facilities, Tooling, Risk Management <i>San Diego, CA</i>	Panel Meeting
Nov 9-10 (tent.)	Environmental Technologies <i>Bath, ME or Tidewater area</i>	Panel Meeting
Nov 14 (tent.)	Product Design and Material Tech <i>Carderock, MD</i>	Panel Meeting
Dec 12-13 (tent.)	Joint Panel Meeting (SPPT, BPT, FT&RM, SYS) <i>New Orleans, LA or Savannah, GA</i>	Panel Meeting

2006 NSRP.org

A Technology Transfer Indicator

Feb 16, 2006 – July 26, 2006

- **Avg visits per day** **866**
- **Avg visit length** **10:54**
- **Total Document downloads:** **139,662**
- **Top 10 downloaded docs:**
 - **Lean Manufacturing Principles Guide** **25,331**
 - **Lean Simulation Tools** **14,231**
 - **State of the Art Assessment** **9,138**
 - **Welding Emissions Final Report** **7,059**
 - **ShipTech 2004 Presentation: Overview of Electronic Wrap Technologies** **6,607**
 - **ShipTech 2004 Presentation: CRP Azipod Propulsion** **5,672**
 - **Common Parts Catalogue** **5,295**
 - **Laser Pipe Welding- Technology Evaluation and Cost Analysis** **4,882**
 - **Asian Benchmarking** **4,732**
 - **Strategic Investment Plan** **4,296**

Technology Transition

www.nsrp.org User Breakdown

- **Top Shipyard Users**

- General Dynamics
- Northrop Grumman
- Norfolk Naval Shipyard
- Atlantic Marine
- Suppliers, some international yards

**All within the Top 20
with hits ranging from
10,000 to 20,000**

- **Top Pages**

- Project Descriptions
- Calendar of Events
- Lean Home Page
- Panel Projects

- **Top Search Phrases**

- Lean
- Manufacturing

Panel Project Update

Project	Panel	Status
Cold Wire Feed SAW	Weld	Ongoing
TipMate SAW Noxxles	Weld	Ongoing
Pipe Weld Inspection Project	Weld	On contract 8/1
STEP-NC for Steel Production	Sys	Ongoing
Panel Line Optimization (PLOPS)	SPPT	Ongoing
Workforce Preparation Improvements	CC	Ongoing
EPA Residual Risk Regulation – Part 2	Env	Proposed Modification
Lessons Learned for Coatings	Surf	Ongoing
Short Sea Shipping Initiative	PDMT	Contract in process
Surplus/On-Hand Material in CPC	PDMT	Ongoing

Panel Activity Update

- **Planning for panel meetings thru Dec 06 underway**
- **Ship Production Symposium 2006**
 - Paper Coordination effort
 - » NOT in NSRP budget
 - » SNAME will cover the first \$10K and half of costs over \$10K
 - » NSRP impact should be less than \$4K
 - 19 papers were selected and are under review by the Panels
- **Ship Production Symposium 2007**
 - SNAME poised to take over Paper Coordination effort
 - Provisions for continued close linkage between SNAME/SPC and NSRP/ECB are needed
 - Panel Chairs will continue as the Paper Committee
 - Turnover meeting being scheduled

Questions?