State of the Panel
Planning, Production Processes, and Facilities Panel

Peter Radzicki

Panel Chair

General Dynamics NASSCO

NSRP
NATIONAL SHIPBUILDING RESEARCH PROGRAM™
Taking Shipbuilding and Repair to the Next Level

Anti-Trust Rules

Regarding your company's and/or your competitor's **product & services**:

- Do not discuss current or future prices.
- Do not discuss any increase or decrease in price.
- Do not discuss pricing procedures.
- Do not discuss standardizing or stabilizing prices.
- Do not discuss controlling sales or allocating markets for any product.
- Do not discuss future design or marketing strategies.

Anti-Trust Rules

Regarding your company's and/or your competitors' selection of their **supplier companies**:

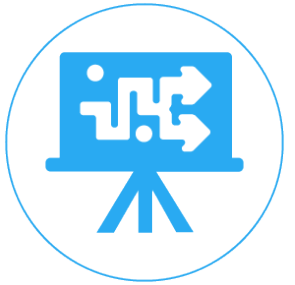
- Do not discuss refusing to deal with a company because of its pricing or distribution practices.
- Do not discuss strategies or plans to award business to remove business from a specific company.

Regarding your company's and/or competitors' **trade secrets**:

- Do not discuss trade secrets or confidential information of your company or any other participant.

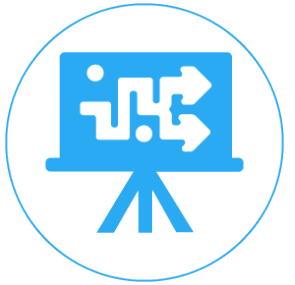
Planning, Production Processes, and Facilities Panel's Mission:

Discover and disseminate best practices focused on the principal manufacturing processes, equipment, planning, and facilities required to support the fabrication, assembly, and testing phases of ship production, repair and maintenance.



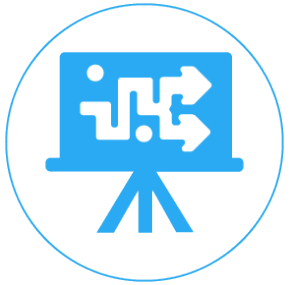
Panel's Purpose:

1. Develop and implement Manufacturing Processes for construction, fabrication and assembly
2. Develop and implement Manufacturing Processes for outfitting, installation and testing
3. Improve shipyard sub-tier supplier performance with respect to quality, cost and schedule
4. Develop and implement Automation, Robotics and Mechanization in manufacturing processes
5. Increase knowledge and proficiency of overall workforce
6. Develop and qualify emerging technologies



Panel's Purpose, Cont.

7. Develop and implement digital shipbuilding tools for improved construction and sustainment activities
8. Investigate improvements to standardization, commonality and modularity
9. Improve quality, level of detail, and automation of job planning and work instructions
10. Develop and implement Additive Manufacturing (AM) into shipbuilding and repair
11. Develop solutions to improve installation, maintenance and efficiency of shipboard networks
12. Develop warehousing and logistics improvements to facilitate equipment delivery.



Benefit to the Navy

Value - Projects research, develop, mature, and implement industry-relevant shipbuilding and sustainment technologies and processes

Implementation - Projects have varying degrees of implementation. Many recent projects study processes (e.g. AM, lifting and handling) or aid in implementation where Navy approval is a hurdle (i.e. robotic welding)

ROI - Various degrees of ROI. Studies tend to yield follow on projects, whereas others are adopted by the shipyard upon completion

Agenda

Day 1 – PPPF

Time	Presentation	Speaker
8:00 AM	Welcome & NSRP Updates	Pete Radzicki & Lydia Szydlo NASSCO / ATI
8:15 AM	State of PPPF Panel	Pete Radzicki NASSCO
8:30 AM	Automated Detail Planning and Integrated Shipyard Operations with Engineering Data	Rob Parker SSI
9:00 AM	Smart Docking System	Alex Stiglich DM Consulting
9:30 AM	Incline Experiment Without Pendulum	Kate Zimmerman NASSCO
9:45 AM	Break	
10:00 AM	Cobot Alliance Training Centers	Pat Cahill Cahill Consulting
10:20 AM	Miller Cobot Technology	David Savage and Ryan O'Dell Miller
10:35 AM	ESAB Cobot Technology	Nathan Lott ESAB
10:50 AM	THG Cobot Technology	Matt Hendey THG
11:05 AM	Lincoln Cobot Technology	Nick Horton Lincoln
11:20 AM	RTT Cobot Technology	Zander Delk RTT
11:35 AM	Kranendonk Cobot Technology	Tom Rodenberg Kranendonk
11:50 AM	Lunch/ Panel Pitches	Starting ~12:15
1:00 PM	Depart on Buses	
1:30 PM – 3:30 PM	Tour of The Cobot Alliance Training Center	Jeff Jaycox & Dave Bartlow Tabet

Day 2 – Weld

Time	Presentation	Speaker
8:00 AM	Welcome and Introductions	Cody Whiteley NASSCO
8:15 AM	NSRP Update	Lydia Szydlo ATI
8:30 AM	Business Technologies Panel Project – Optimized Weld Records Phase Two	Megan Brinker TruSolutions
9:00 AM	Welding Technology Panel Project - Laser Hybrid Tack Welding of Stiffeners	Jonathan Roberts Ingalls Shipbuilding
9:30 AM	Welding Technology Panel Project – Training Modules for NAVSEA Technical Publications	Lynn Showalter Newport News Shipbuilding
10:00 AM	Break	
10:15 AM	Advanced Technology Implementation at BAE- Challenges and Benefits	Paul Henry BAE
10:45 AM	Welding Technology Panel Project – Semi-Automated Stud Welding Gun for Capacitor Discharge	Scott Grove Newport News Shipbuilding
11:15 AM	Mobile Repair via Portable Friction Stir Welding – Current Progress and Future Benefits	Rob Mason CTC
11:45 AM	Lunch	
12:30 PM	Group 1 Depart on Buses	
1:00 PM- 2:00 PM	Group 1 Tour of NASSCO Norfolk	Christian Stanco NASSCO
2:00 PM	Group 2 Depart on Buses	
2:30 PM- 3:30 PM	Group 2 Tour of NASSCO Norfolk	Christian Stanco NASSCO

Preparation for Tours

- PPE Requirements for Tours
  - Cobot Alliance Training Center
    - Safety Glasses
    - Closed Toe Shoes
  - NASSCO Norfolk
    - Safety Glasses
    - Hard Hat
    - Closed Toe Shoes
    - Long Pants
    - Shirts with Sleeves
  - Note: Safety Glasses and Hard Hats can be provided. Encouraged to bring own if available.
- Travel Plans
  - Wednesday: All Buses Depart VDMC @ 1:00 pm, Return to VDMC NLT 4:00 pm
  - Thursday: Split Bus Departure 12:30 pm and 2:00 pm, Return VDMC NLT 4:00 pm
- Roster Finalization (Please confirm)
- Citizenship Confirmation (NASSCO Norfolk Only)

New Vice Chair

Brian Tapajna

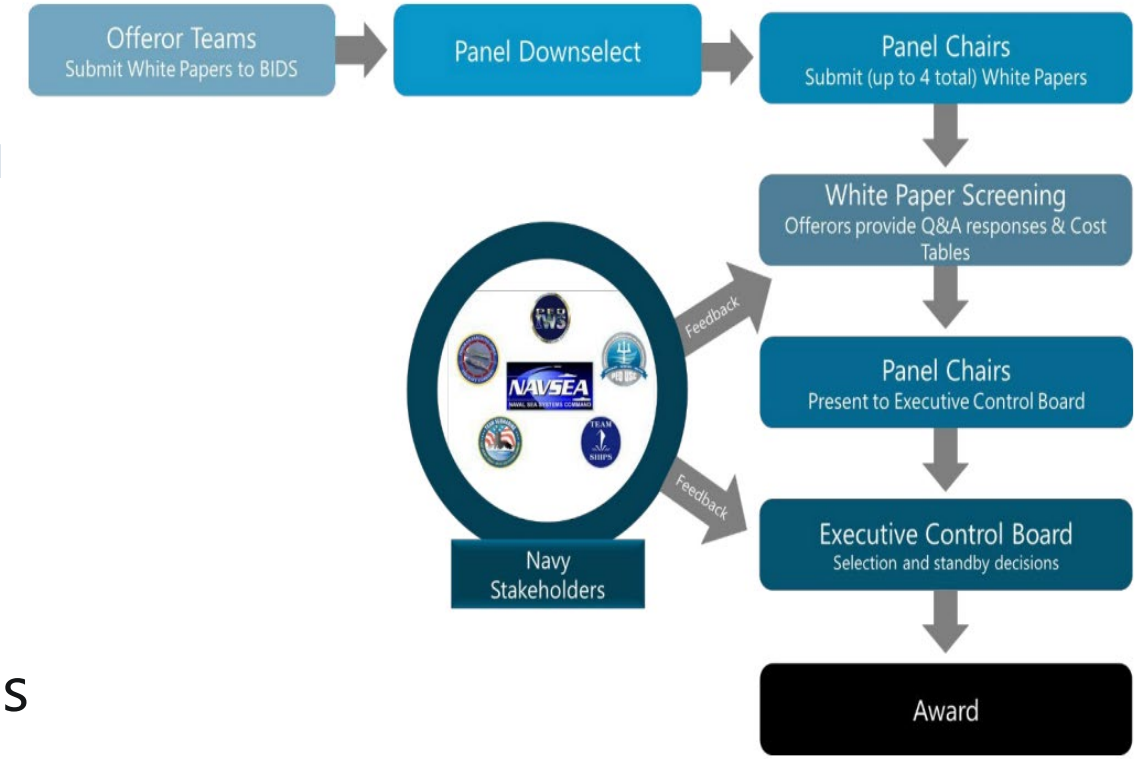
Panel Vice Chair

HII – Newport News Shipbuilding

brian.tapajna@hii-nns.com

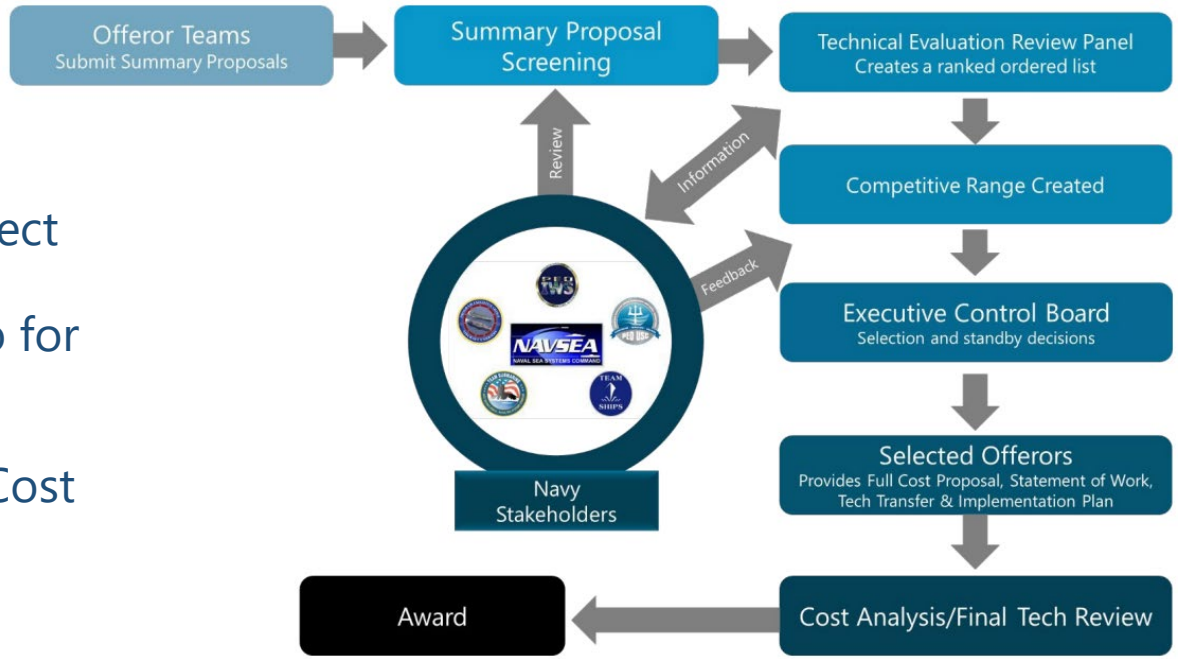
Panel Project Submittals

- White Paper Submission and Selection
  1. Proposers submit white papers to Panel Chair and ATI
  2. Panel Members review and prioritize white papers
  3. Panel Chairs submit final white paper selections to ATI
  4. ATI reviews for technical and cost compliance
  5. Complete white paper portfolio is presented by the Panel Chairs (or their designees) to the Executive Control Board for selection and award
- Duration: 12 Months or Less
- Funding : $200K or Less
- Focus: Aligned with the mission of one or more NSRP Panels and the overall objectives of the Program
- White Papers Due: August 26th
- Detail Here



Research Announcement Project Submittals

- Proposal Submission and Selection
  1. RA is issued; proposers begin developing summary proposals
  2. Summary Proposals are submitted to ATI — a firm submission deadline is included in the Research Announcement and posted on the NSRP website
  3. Summary Proposals are reviewed by third-party subject matter experts, followed by an industry expert panel
  4. Executive Control Board reviews and selects portfolio for funding
  5. Proposals selected for funding submit to ATI full Statements of Work, Technology Transfer Plans and Cost Proposals for technical and cost compliance
  6. Proposals which meet above-described requirements receive award
- Duration: Multi Year
- Funding : 50/50 Share Target
- Summary Proposal Due: July 25th
- Detail Here



Maritime Industrial Base (MIB)

- DRPM-MIB
  - Single, accountable Program Manager to assess, develop, integrate, and manage enterprise maritime industrial base efforts for the Department of the Navy

  - Refine the Navy's approach to industrial base improvements in infrastructure, strategic outsourcing, suppler development, advanced manufacturing, and workforce development
  - Accelerate the Navy's trajectory toward delivering submarines and surface ships in accordance with current and future Navy shipbuilding acquisition and sustainment plans
  - Contact MIB Leadership at MIB-Inbox@us.navy.mil

Lines of Effort

MIB Details

Opportunities: Advanced Manufacturing Deployment

Mission

Revolutionize the maritime industrial base by leveraging commercially mature advanced manufacturing technologies that drive **efficiency**, increase shipbuilding **capability**, improve ship **availability**, and maintain the **quality** and **safety** of ships.

Technology **adoption**, continuous **innovation**, and skilled workforce **development**, will position the Navy's industrial base to stay at the forefront of global maritime dominance.

Objective 1 – Adoption / Integration of Advanced Manufacturing Technologies

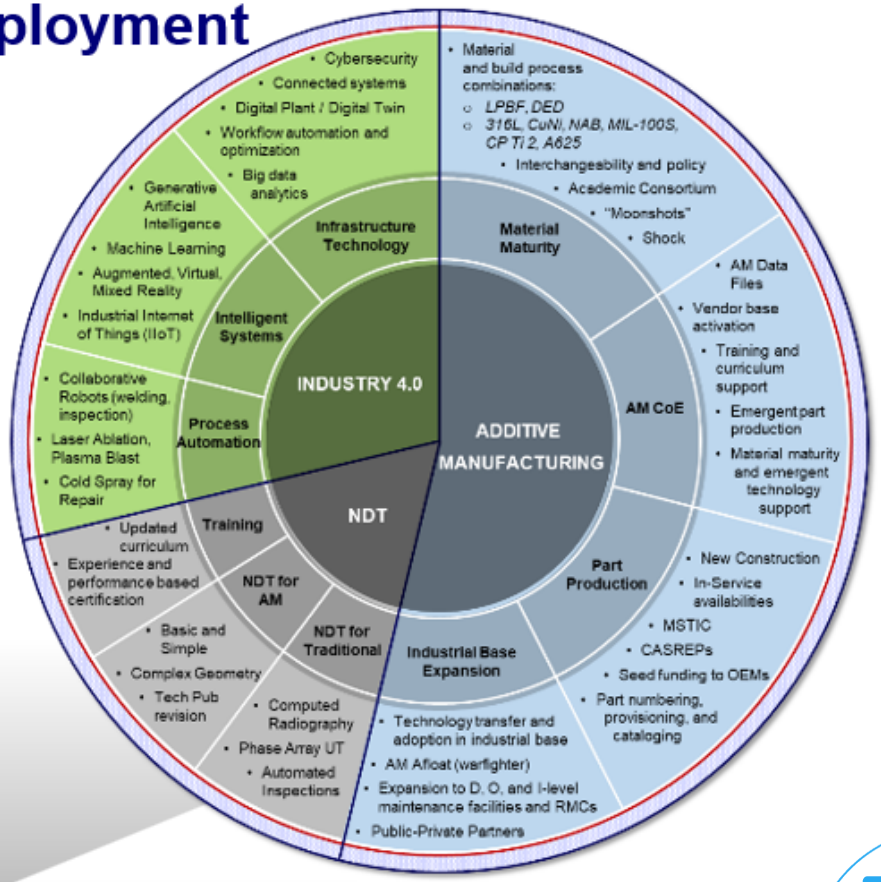
What is Advanced Manufacturing?

Objective 2 – Enhance Industrial Base Resilience, Workforce Upskilling, and Talent Development

How to Establish and Sustain?

Objective 3 – Continued Innovation Engagements and Broaden Global Collaboration

How to Grow and Scale?



IMPROVED ON-TIME DELIVERY through improved **material availability** and **enhanced workforce productivity**

Upcoming Event

- Advance Manufacturing: Innovation for Maritime Readiness

  Register Online

Important NSRP Panel Dates

- Panel Projects
  - Offeror Submission Deadline August 26th
  - Panel Down Select NLT September 26th
  - Selected Offerors to provide Cost Data Table NLT October 2nd
- RA Projects
  - Summary Proposal Due July 25th
  - Technical Evaluation August 2025
  - Mandatory Oral Presentation & ECB Section September 2025
- ECB Selection Meeting November 2025

Back Up

Planning, Production Processes, and Facilities Meeting Attendance

	24’ Joint PPPF W/ Paint	25’ All Panel	25’ Joint PPPF w/ Weld
Attendance In-Person	30	69	79
Attendance Virtual	16	Unknown	35