

NSRP

National Shipbuilding Research Program

Panel Business

Ship Design & Material Technologies

June 28, 2018

Chicago, IL



DISTRIBUTION STATEMENT

Current Panel Activities

- New Vice-Chair
- JFA Update
- ECB Feedback
- Panel Project Process
- Research Announcements
- NSRP Day
- SNAME Conference
- Future Panel Meetings
- Joint Panel Meetings



Welcome!

- Monika Skowronska
 - General Dynamics NASSCO
 - Involved in NSRP since 2009
 - Two year term started March 2018



Joint Funding Agreement

- JFA signed by ECB 3 March 2018
- Base Agreements being reviewed and signed by each yard
- Must be in place prior to RA solicitation



ECB Feedback

- Voting Members
 - Current By-Laws will remain in place
 - Two meetings (virtual or in person) within a two year time span
 - No change
- Agendas for Meetings
 - More details on topics and presentations
- No Cost Extensions
 - Exception not the normal operating condition



Panel Projects Process

- Solicitation delayed –
 - Could be later this year or early next
 - Two schedules are being discussed currently
 - Panel Project selection – March 2019
 - Panel Project selection – June 2019
 - May drive a change in our panel roundtable and voting process.
 - More to come as details are announced



Research Announcements

- RA19-01
- Solicitation anticipated – June
- Solicitation should follow similar timelines compared to previous years



SDMT Project Ideas

- Enhance Digital Environment for Design, Production and Repair with a focus on Drawing-less, Paperless and Standardized Electronic Work Instructions
- Develop solutions for Enhanced Corrosion Prevention
- Develop Practical Tools for Weld Distortion and Shrinkage Prediction and Standard Mitigation Approaches
- Develop Design Solutions for Reduced Complexity and Impact of New or Future Equipment Installation & Upgrades that support Fleet Modernization
- Increase the Use of Cross-Platform Standard Designs
- Facilitate Military Specification Relief and Increase Use of Commercial Technologies
- Validate Cost Predictive Tools for Engineers and Designers
- Cross-cut Initiatives – Rules Based Design and Commonality

Technology Investment Plan: [Found here](#)



NSRP Day

- In conjunction with Sept ECB
- Date: TBD
- Held at Washington Navy Yard

- Any ideas for projects to be presented?



SNAME Maritime Convention

- October 24-27, 2018
- Providence, RI
 - Exhibit Hall Demos and Displays
 - Ship Production Symposium



Fall Panel Meeting

- October timeframe
- Looking at Austin, TX
- Focus area – TBD (Materials?)
- Any potential tour/topics/presentations, let myself or Monika Skowronska know



Tour Options

- Austin Technology Incubator
- 3M
- Apple
- Applied Materials (coatings for photovoltaic technology)
- National Instruments (LabVIEW, TestStand, automation standards, etc)



Planning for Next Year

- Meeting Locations?
 - West Coast?
 - Northeast?
 - Lightweight Innovations for Tomorrow (LIFT)?
 - Additive Manufacturing?
- All Panel Meeting
 - March 2019
 - Francis Marion



Future Focus Areas

- Automation
- Design Tools
- Materials – Light weight, Composite
- Additive Manufacturing
- Others?
- Joint Panel Meeting Possibilities
 - Welding
 - Surface Prep & Coatings



Moving Forward

- Focused Panel Meetings
 - Good success with focus meeting attendance
 - Better agendas earlier to enable better planning
 - Any requests for a specific TWH presentations?
 - Any suggestions for future meeting topics?
- National Network of Manufacturing Institutes
 - Digital Manufacturing
 - Composites
 - Smart Manufacturing



Moving Forward

- Combine with a conference?
 - Multiple panels hold meeting in conjunction with a conference related to the panel. Does this make sense for our panel?
 - Institute of Industrial & Systems Engineers
 - Defense Manufacturing Conference



