



NSRP

National Shipbuilding Research Program

Panel Business

Ship Design & Material Technologies

Panel Meeting

March 9, 2017

Current Panel Activities

- Annual Technology Investment Plan
- Panel Project Process
- Future Panel Meetings

- Joint Panel Meetings

Annual Technology Investment Plan (ATIP)

- Initial development workshop held in Feb
- New strategic document created to help steer Research Announcement solicitation
- Should be approved by June

SDMT Project Ideas

- Projects that address advanced materials technologies or adaptation of commercial materials through qualification e.g. composites, additive manufacturing, adhesives, metallic alloys.
- Projects that address commonality/standardization (applicable to parts, equipment, systems, modules, processes, interfaces).
- Projects that simplify technical data packages to supply chain as well as improving supplier compliance i.e. qualification testing, approvals, hardware.
- Projects that address first time quality and accuracy control.
- Projects that address weld distortion and shrinkage during the design phase.
- Projects that facilitate enhanced design tools and processes for drawing-less construction.
- Projects to benchmark industry best practices of design for robotics/automation.
- Projects that address the incorporation of Augmented Reality/Virtual Reality in the design.
- Projects that investigate/develop and implement cost predictive tools for engineers and designers.

Panel Projects Process

- Solicitation released – April
- Panel Project Proposals – end of June
- Virtual meeting – mid-July
- Voting – end of July
- Project Selection – mid Sept

Panel Projects

- Received votes from 15 voting members out of 34 members
- Discussion on voting process
 - Is the telcon helpful prior to voting?
 - Do we want to have a meeting instead of telcon?
 - Any improvements or changes?

Research Announcements

- Awarded 6 projects in Dec
- Following RA's tied to SDMT:
 - Ship Structural Design Optimization for Improved Producibility and enhance Life-Cycle Performance
 - Digital Deadweight Survey
 - CAR-W Production Scanning & Multi-Robot Capability Enhancements

June Panel Meeting

- Targeting first week of June in Portland, Oregon
- Green/clean energy focused
- Still working on a tour
- Any potential topics/presentations, let myself or John Malone know

Dec Panel Meeting

- Dec Timeframe
- Modularity focused
- Any potential tour/topics/presentations, let myself or John Malone know

Future Focus Areas

- Automation
- Design Tools
- Materials
- Others?
- Joint Panel Meeting Possibilities
 - Workforce Development
 - Welding

Moving Forward

- Focused Panel Meetings
 - Good success with focus meeting attendance
 - Better agendas earlier to enable better planning
 - Better success with getting Navy participation if requesting Navy presentations
 - Any requests for a specific TWH presentations?
 - Any suggestions for future meeting topics?

QUESTIONS?