

Spring 2019 Newsletter



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Upcoming Events

Sea-Air-Space

May 6-8, 2019

Gaylord National
Convention Center
National Harbor, MD

MegaRust with SPC Panel Meeting

May 14-16, 2019

Renaissance Portsmouth-
Norfolk Waterfront Hotel
Portsmouth, VA

Executive Control Board Quarterly Meeting

June 18, 2019

Maritime Plaza
Washington, D.C.

NSRP 2019 All Panel Meeting



The 2019 NSRP All Panel Meeting convened 12-14 March at the Francis Marion Hotel in Charleston, South Carolina. This year's event was the highest attended All Panel Meeting so far, totaling 414 participants!

The meeting consisted of over 30 technical presentations given on both NSRP and ManTech projects as well as updates on all 10 of NSRP's Panels and ManTech COE Updates.

Keynote speakers for this event included: Tim Glinatsis (Bath Iron Works), Erik Oller (NAVSEA 06N), John Carney (Office of Naval Research), RADM Lorin Selby (NAVSEA 05), CAPT Kenneth Ebert (PEO C4I), Don Hamadyk (Newport News Shipbuilding), CDR Stephen Markle USN (ret.) (PMS 325-Electric Ships Office), and Janice Bryant (NAVSEA04X3).

During the General Session, Lee Kvidahl (Ingalls Shipbuilding) was recognized for his 40+ years of service to the Program. Lee has served as Panel Chair for the Welding Technology Panel since 1986, and provided leadership on many NSRP projects. Lee also contributed many Program improvements and was an original driving force for creation of NSRP panel projects. Lee has always personified NSRP collaboration, and his contributions will be sorely missed. We wish him the best in retirement.



Executive Control Board Selects RA 19-01 Projects at December Quarterly Meeting

- Laser Scan to CAD Analysis
- Cost Reduction of Shock Application
- Tele Welding – Remote Operation of Shipyard Welding (and other) Equipment
- Supply Chain Integrity – Blockchain for Smart Contracts
- Qualification Testing of Insulated Bus Pipe (IBP) for Shipboard
- On-Board Ship 3-D Environment
- Fatigue Analysis of Swaged Bulkheads
- Robotic Arc Directed Energy Deposition Additive Manufacturing for Shipbuilding
- Mixed Reality System for Real-Time Construction Problem Resolution

RA 20-01 Solicitation Released

The National Shipbuilding Research Program issued [Research Announcement 20-01](#) to solicit summary proposals that respond to priorities in the program's [Strategic Investment Plan](#) and [Technology Investment Plan](#) including areas of particular interest identified in the Research Announcement.

For additional information on RA 20-01 and the Proposers' Conference on April 11, 2019, please visit the [NSRP](#) website and [FedBizOpps](#).

Upcoming Events

**ASNE Technology,
Systems and Ships**

June 18-20, 2019

FHI 360 Conference Center
Washington, D.C.

**Ship Design & Material
Technologies, Business
Technologies,
Environmental Panel Joint
Panel Meeting**

July 17-18, 2019

Merritt Island, FL

**Ship Design & Material
Technologies Panel
Meeting**

October 16-17, 2019

Buffalo, NY

ECB Selects 2019 Panel Projects at March Quarterly Meeting

- Build Your Future (BYF): Shipbuilding and Ship Repair Works!
- Support Delivery of Shipbuilder Product and Technical Data to an In-Service Navy PLM for all Classes of Ships
- Standardization and Digitization of Visual Inspection for Shipbuilding and Repair
- ExpressMarine Integration
- Fiber Optic Testing Enhancement for Cost Reduction Follow On
- Certificate Program: Shipyard Industry Surface Prep and Coating Training
- Shipboard Fiber Optic Cables Design Enhancements
- Miniature Torch Speed Sensor Based Adaptive Manual Arc Welding
- Survey of Surface Preparation and Coatings Automation
- Shore Power Connector Testing
- Short Course on Dredging Fundamentals for Shipyard Operations & Environmental Sustainability
- Shipboard Cable Trays
- Quick-Deploy Scaffold for Improved Safety and Lower Cost
- Test and Evaluation of Primers with Extended AF Overcoat Window
- Fusion Splice Enclosure at Equipment
- Applications of Targetless Photogrammetry for Facilities and Close Range Metrology
- High Deposition Robotic Arc Additive Manufacturing Process Development
- Joint Operable Standards for Containerized Modules
- Virtual Spray Paint Training System
- TRITON Dynamic Network Paradigm: Analysis and Demonstration
- Knowledge Provisioning to Improve and Simplify ABC Digital Compliance
- COMPASS – COMbined Product ASSESSment Tool
- Weld Sequence Modeling Software Interface Development
- Design of a SIFD Principal Unit and Development of an EQT Strategy
- Shipboard Pipe Insulation Tape
- Advanced Impact Analysis – Potential Changes to Weld Fume Carcinogenicity Designation
- Wearable Ergonomic Sensor Technology



Technology Investment Plan Now Available

The annual Technology Investment Plan (TIP) workshop was held February 6-7, 2019 at ATI's offices in Summerville, SC. The workshop was very well attended, with over 35 participants including member shipyards, NAVSEA technical experts, and Navy acquisition program members. The TIP workshop identifies the technology needs of the industry by Major Initiative; these feed directly into the NSRP solicitations for projects for the year. Proposers for NSRP solicitations should closely review the TIP during proposal development. The current TIP is available on the NSRP webpage under 'Resources', or click the link at the right.

NSRP | National Shipbuilding Research Program

Technology Investment Plan for Research Announcement 20-01

Version: 3.0 dated February 27, 2019

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, other national security customers and the commercial sector, and develop and leverage best commercial and naval practices to improve the efficiency of the U.S. shipbuilding and ship repair industry.
- ❖ Provide a collaborative framework to improve shipbuilding-related technical and business processes.

[Technology Investment Plan](#)



Completed RA Projects

These projects and their final results are available for the NSRP collaboration. For more information about the project POCs or results, please contact nsrp@ati.org or nsrp.org/project-portfolio/

- Standardization of Watertight Closures
- Ship Structural Design Optimization for Improved Producibility and Enhanced Life-Cycle Performance
- Welding Application Development Initiatives using Augmented Reality Technology
- Integration of Scanning and Laser Peening Activity
- Land Based Case Study of Insulated Bus Pipe for Ship Design
- SMART: Ship Mobile Applications in Real Time
- LiftShip
- Knowledge Provisioning to Improve First Time Quality of Ship Design
- Integration of Outfitting and Structural Details on Swaged Bulkheads
- Digital Deadweight Survey Project
- Swage Panel SVR Rule Development