

NSRP | National Shipbuilding Research Program



2021 All Panel Meeting

Virtual
March 22-25, 2021

NSRP | National Shipbuilding Research Program

2021 Virtual NSRP All Panel Meeting Overview Agenda

Day	Eastern Time	SESSION
Monday, 3/22	10:00 AM – 3:30 PM	General Session
Tuesday, 3/23	10:00 AM – 1:15 PM	Ship Design and Material Technologies Panel Meeting
Tuesday, 3/23	1:00 PM - 4:40 PM	Electrical Technologies Panel Meeting
Tuesday, 3/23	1:00 PM - 4:15 PM	Welding Technology Panel Meeting
Wednesday, 3/24	10:00 AM - 12:30 PM	Ship Warfare Systems Integration Panel Meeting
Wednesday, 3/24	1:00 PM – 5:25 PM	Business Technologies Panel Meeting
Wednesday, 3/24	1:00 PM - 5:30 PM	Planning, Production Processes and Facilities Panel Meeting
Thursday, 3/25	10:00 AM - 2:00 PM	Surface Preparation and Coatings Panel Meeting
Thursday, 3/25	1:00 PM - 4:00 PM	Workforce Development Panel Meeting
Thursday, 3/25	1:00 PM - 4:00 PM	Environmental, Health, and Safety Panel Meeting

Monday, March 22nd General Session

Times (ET)	General Session Agenda
10:00 AM 10:25 AM	Welcome and Meeting Overview – Stephen Duca, Executive Director, National Shipbuilding Research Program (NSRP) 50-Year Look Back – Stephen Duca, Executive Director, NSRP
10:25 AM 11:30 AM	Keynote Address – Rear Admiral Casey Moton, Program Executive Office – Unmanned and Small Combatants (PEO USC) Keynote Address – James E. Kenny, Executive Director – NAVSEA Engineering Directorate (SEA 05) Keynote Address – Looking Forward – Don Hamadyk, Executive Control Board Chair, Director, Program Development & Integration – Newport News Shipbuilding Keynote Address – Erik Oller, Program Manager, National Shipbuilding Research Program – NAVSEA 05TN Keynote Address – Neil A. Graf, Program Officer, Manufacturing Technology (ManTech) Program – Office of Naval Research
11:30 AM 12:00 PM	Keynote Q&A

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Times (ET)	General Session Agenda
12:00 PM 12:30 PM	LUNCH BREAK (Break will start when Q&A is complete and meeting will resume at 12:30 PM)
12:30 PM 1:00 PM	Mini-workshop – Rapid Adoption Projects and Q&A – Stephen Duca, Executive Director, NSRP
1:00 PM 2:00 PM	State of the Panel – Electrical Technologies – Jason Farmer, Panel Chair – Ingalls Shipbuilding
	State of the Panel – Ship Design and Material Technologies – Monika Skowronska, Panel Chair – GD NASSCO
	State of the Panel – Workforce Development – Ryan Lee, Panel Chair – Austal USA
	State of the Panel – Planning, Production Processes and Facilities – Joshua Reece, Panel Chair – GD NASSCO
	State of the Panel – Business Technologies – Jamie Breakfield, Panel Chair – Ingalls Shipbuilding
	State of the Panel – Environmental, Health, and Safety – Yaniv Zagagi, Panel Vice Chair – Golder
	State of the Panel – Ship Warfare Systems Integration – Perry Haymon, Panel Chair – Ingalls Shipbuilding
	State of the Panel – Welding Technology – Paul Hebert, Panel Chair – Newport News Shipbuilding
	State of the Panel – Surface Preparation and Coatings – Arcino Quiero, Jr., Panel Chair – Newport News Shipbuilding
2:00 PM	BREAK (10 minutes)
2:10 PM 3:00 PM	ManTech COE Update – Timothy Bair, Institute for Manufacturing and Sustainment Technologies (iMAST), Pennsylvania State University / Applied Research Laboratory
	ManTech COE Update – Thomas Gill, Jr., Director, Electronics Manufacturing Productivity Facility (EMPF), ACI Technologies Inc.
	ManTech COE Update – Andrew Trageser, Director, Electro-Optics Center (EOC), Pennsylvania State University / Applied Research Laboratory
	ManTech COE Update – Mark Snider, Deputy Director, Center for Naval Metalworking (CNM), Advanced Technology International
	ManTech COE Update – Jonathan Osborn, Executive Director, Composites Manufacturing Technology Center (CMTC), Advanced Technology International
	ManTech COE Update – Robert Mashburn, Deputy Director, Naval Shipbuilding and Advanced Manufacturing (NSAM) Center, Advanced Technology International

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3:00 PM 3:30 PM	Navy Additive Manufacturing Brief with Q&A – Dr. Justin Rettaliata, Additive Manufacturing Technical Warrant Holder (SEA 05T)
3:30 PM	End of General Session

Tuesday, March 23rd Panel Meetings

Electrical Technologies Panel Meeting

Times (ET)	Presentation	Speaker
1:00 PM	Convene Meeting – Begin Webinar	
1:00 PM	Introductions and Welcome	Jason Farmer, Panel Chair, Ingalls Shipbuilding
1:10 PM	NSRP RA Project Update Insulated Bus Pipe Development & Testing	Patrick Lewis, Hepburn and Sons
1:40 PM	ONR ManTech Test Adapter Efficiency Improvement	John Mazurowski, Penn State Electro-Optics Center
2:10 PM	Panel Project Updates	
2:10 PM	Fiber Optic Test Enhancement for Cost Reduction	Dan Morris, KitCo Fiber Optics
2:25 PM	Advanced Topside Lighting System	Gio Tomasi, RSL Fiber Systems
2:55 PM	Electrical Connector Standardization	Greg Stevens, BIW
3:25 PM	Organic LED, Low Voltage Shipyard Lighting	Peter Sisa, OLEDWorks
3:55 PM	Splice Enclosure at Equipment	John Mazurowski, Penn State Electro-Optics Center
4:30 PM	Action Items & Wrap-Up	Walt Skalniak, Panel Vice-Chair
4:40 PM	Adjourn	

Ship Design and Material Technologies Panel Meeting

Times (ET)	Presentation	Speaker
10:00 AM	Convene Meeting – Begin Webinar	
10:00 AM	Introduction / Panel Chair Welcome / Chair Report	Monika Skowronska, Panel Chair
10:15 AM	Simulation Workflow Development for Additive Manufacturing	David Najera, ATA
10:45 AM	MELD: Scaling Up 3D Printing for Castings	Wes Downs, NASSCO
11:15 AM	ManTech Project: Cold Spray Update and Path Forward	Tim Eden, Penn State ARL / iMAST
11:45 AM	ASTM for Mechanically Attached Fittings	Jesus Herrero, Viega
12:15 PM	Standardization of Watertight Hatches and Scuttles	Wes Rogler, Ingalls
12:45 PM	ManTech Project: Thermoplastic Composite Sunshields for Navy Ready Service Locker	Robert Santiago, ATI / CMTC
1:15 PM	Adjourn	

Welding Technology Panel Meeting

Times (ET)	Presentation	Speaker
1:00 pm	Welding Technology Panel Chair Report	Paul Hebert, Panel Chair
1:15 pm	Panel Project Presentation – Multi-factor Monitoring of Hybrid Laser-Arc Welding Applications	Shawn Sutton, Ohio State University
1:45 pm	MANTECH Project – Electronic Weld Record (NSAM)	Traci Jones, Newport News Shipbuilding Tess Popik, Newport News Shipbuilding
2:15 pm	Panel Project Presentation – Deep Penetration Laser-GMAW Welding	Jake Hay, EWI
2:45 pm	MANTECH Project – Robotic Valve Cladding Cell (NSAM)	Andrew Faiss, General Dynamics Electric Boat Emily Tunila, General Dynamics Electric Boat
3:15 pm	Panel Project Presentation – Validate a Testing Protocol to Establish the Maximum Heat Input for Welding S-1 Series Carbon Steels with Toughness Requirements	Richard Baumer, Letourneau University
3:45 pm	MANTECH Project – Hybrid Laser Arc Welding (NSAM)	Nancy Porter, EWI
3:15 pm	Adjourn	

Wednesday, March 24th Panel Meetings

Ship Warfare Systems Integration Panel Meeting

Times (ET)	Presentation	Speaker
10:05 AM	Introduction / Panel Chair Welcome / Chair Report	Perry Haymon, Panel Chair, Ingalls Shipbuilding
10:30 AM	Panel Update	Perry Haymon, Panel Chair, Ingalls Shipbuilding
10:45 AM	False Deck Update	Robert Santiago, ATI / CMTC
11:30 AM	Fusion Splice Enclosure at Equipment	John Mazurowski, PSU ARL - Electro-Optics Center Division
12:00 PM	Extension Basis for 72 Inch POA Enclosure Systems to DDG and CG Ships	Mike Talley, Newport News Shipbuilding
12:30 PM	Review Action Items / Closing Remarks	Perry Haymon, Panel Chair, Ingalls Shipbuilding

Business Technologies Panel Meeting

Times (ET)	Presentation	Speaker
1:00 PM	Convene Meeting	
1:00 PM	Introduction / Panel Chair Welcome / Chair Report	Jamie Breakfield, Panel Chair, Ingalls Shipbuilding
1:15 PM	Structural Interface for Automated Compliance Checking	Steve Boisvert, Auros
1:45 PM	LiftShip 2	Pat David, SSIUSA
1:55 PM	Advanced Knowledge Provisioning Using Artificial intelligence (AI) & Augmented Reality (AR) for Ship Repair	Greg Burek, Auros
2:25 PM	Minimum Standardized Content to Enable a Navy Digital Enterprise	Ariel Bond, Newport News Shipbuilding
2:55 PM	ManTech – Digital Accuracy Control Management System	Carrie Callahan, General Dynamics Bath Iron Works
3:25 PM	ManTech – Wireless Assessment of Shipyard Production Environments	Jamie Breakfield, Ingalls Shipbuilding
3:55 PM	ManTech – Advanced Diagram Development and Management	Gregg Buczkowski, General Dynamics Bath Iron Works
4:25 PM	Brief History of Shipbuilding Digital Technical Data	Ben Kassel, LMI
4:55 PM	2021 BT/DS NSRP Panel Project Introduction (On Hold) Modern Shipbuilding Courses III (5 min) Detail Planning and Instant Earned Value Control (5 min) Utilizing Ship Product Model Information for Corrosion Control and Coatings (5 min)	Patrick Roberts, Vice Chair, SSIUSA
5:15 PM	Closing Remarks	Jamie Breakfield, Panel Chair, Ingalls Shipbuilding
5:25 PM	Adjourn Meeting	

Planning, Production Processes and Facilities Panel Meeting

Times (ET)	Presentation	Speaker
1:00 PM	Welcome and Introductions/ Chair Report	Joshua Reece PPPF Panel Chair
1:15 PM	Onboard Ship Integration of Laser Peening System for Lasting Aluminum Repairs	Robert Medve, Director of Technology Transition at Hepburn and Sons LLC
1:40 PM	Automated Pipe Fitting Scriber	Larry Brown, ATI or Zane Bogosian, EWI / CNM
2:05 PM	NNS Foundry Casting Improvements	An Tran, Newport News Shipbuilding Drew Christensen, Newport News Shipbuilding
2:30 PM	BREAK	
2:45 PM	High Mobility Manufacturing Robot	Jamie Beard, Robotic Technologies of Tennessee
3:10 PM	Additive Manufactured Solution in the Shipyard for Job Aids, Replacement and Part Prototypes	Kelly Christiansen, GD NASSCO
3:35 PM	CNC Forming of Steel Plates	Russ Hutchings, GD Electric Boat David Eubank, GD Electric Boat
4:00 PM	BREAK	
4:15 PM	Advanced Knowledge Provisioning Using Artificial Intelligence (AI) & Augmented Reality (AR) for Ship Repair and Welding Smart Camera "In the Torch"	Michael Buelsing, Pacific Marine and Supply
4:40 PM	Digital Data for Next Generation Measurement/Location Tools	Andy Faiss, GD Electric Boat
5:05 PM	Health Management Technology for Manufacturing Equipment to Enable Condition – Monitoring (Diagnostic Monitoring)	Jeff Banks, Penn State ARL / iMAST
5:25 PM	For the Good of the Panel	
5:30 PM	Adjourn	

Thursday, March 25th Panel Meetings

Surface Preparation and Coatings Panel Meeting

Times (ET)	Presentation	Speaker
10:00 AM	Welcome and Introductions	Arcino "Q" Quiero, Jr SP&C Panel Chair
10:05 AM	NSRP Program Update	Ryan Schneider NSRP / ATI
10:20 AM	SP&C State of the Panel	Arcino "Q" Quiero, Jr SP&C Panel Chair
10:30 AM	NAVSEA 05 Technical Warrant Holder Update – FY21 Update	Mark Ingle, NAVSEA 05P2 Howard Castle, NAVSEA
10:45 AM	BREAK	
11:00 AM	Survey of Surface Prep and Coatings Automation (PTR – Arcino Quiero)	Pete Ault, Elzly Technology Corp.
11:30 AM	Laser Ablation and Passivation of Aluminum (ManTech Project)	David Rearick, Penn State ARL / iMAST
12:00 PM	Lunch Break	
12:30 PM	Ship Inspection Using Drone Technology (ManTech Project)	Jason Hunnell, Penn State ARL / EOC
1:00 PM	Optimize Power Tools Surface Preparation (PTR – Arcino Quiero)	Eric Shoyer, Elzly Technology Corp.
1:30 PM	For the Good to the Panel – Association of Materials Protection & Performance (AMPP) Update	Cynthia O'Malley, COO AMPP
2:00 PM	Wrap Up & Path Forward	Panel Chair & Vice Chair

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Workforce Development Panel Meeting

Times (ET)	Presentation	Speaker
1:00 PM	Convene Meeting – Begin Webinar	
1:00 PM	Introductions and Welcome	Ryan Lee, Panel Chair, Austal USA
	FY21 Panel Project Selection	
	Shipbuilding Apprenticeship: A Qualitative Analysis <i>Bath Iron Works, NASSCO, Fincantieri Marinette Marine, Austal USA, Newport News Shipbuilding, Ingalls Shipbuilding</i>	Scott Christman, GD Bath Iron Works
	Modern Shipbuilding Design <i>ShipConstructor USA, Austal USA, Fincantieri Marinette Marine, Conrad Shipyard, Southern Maine Community College, Genoa Design Courses 3</i>	Pat David, Ship Constructor USA
	Active Panel Project Updates	
	Build Your Future (BYF): Shipbuilding & Ship Repair Works!	Audrey Kennedy, The TJC Group
	Certificate Program - Shipyard Industry Manufacturing Technician Training	Scott Christman, GD Bath Iron Works
	Certificate Program - Shipyard Industry Marine Designer	Kyle Jellison, GD Bath Iron Works
	Women in Welding	Jamal Gibson, HII – Newport News Shipbuilding
4:00 PM	Adjourn	

Environmental, Health, and Safety Panel Meeting

Times (ET)	Presentation	Speaker
1:00 PM	Welcome to the EHS Web Meeting and Environmental, Health, & Safety (EH&S) Panel Update	Yaniv Zagagi, Golder
1:30 PM	Metrics and Lessons Learned Round Table Environmental, Health, Safety, and Worker Compensation	Participating shipyards
2:45 PM	OSHA Update	Thresa Nelson, NNS
3:15 PM	EPA's new Storm water Multi-Sector General Permit rule	Dave Krochko and Mary House, Woodard & Curran
3:45 PM	Future EH&S Plan and Suggested Topics	Yaniv Zagagi, Golder
4:00 PM	Wrap Up & Adjournment	Yaniv Zagagi, Golder

Additional Information

Registration Link

<https://events.bizzabo.com/2021NSRPAIIPanelMeeting>

Virtual Poster Session

<https://events.bizzabo.com/2021NSRPAIIPanelMeeting/page/1772855/posters>

Virtual NSRP All Panel Meeting Event Page

<https://www.nsrp.org/event/2021-nsrp-all-panel-meeting/>

All Panel Meeting Survey

<https://events.bizzabo.com/2021NSRPAIIPanelMeeting/page/1772736/survey>

Technical Assistance or General All Panel Meeting Questions

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