2023 NSRP All Panel Meeting

Charleston, SC March 28-30, 2023

> AGENDA Tuesday, March 28, 2023

7:00	CONTINENTAL BREAKFAST		
8:00	Ballroom A/B GENERAL SESSION Ballroom C		
8:00	Welcome and Meeting Overview – Stephen Duca, Executive Director, National Shipbuilding Research Program		
8:15	Keynote Address – Emil Casciano, Executive Control Board Chair, Vice President of Nuclear Operations & Fleet Support – GD Electric Boat		
8:45	Keynote Address – Ben Canilang, Program Manager, National Shipbuilding Research Program – NAVSEA 05T2		
9:15	Keynote Address – Mr. Robert Keane, SES USN, Retired – Ship Design USA		
9:45	BREAK		
10:00	GENERAL SESSION Ballroom C		
10:00	State of the Panel – Electrical Technologies – Jason Farmer, Panel Chair – Ingalls Shipbuilding		
10:10	State of the Panel – Ship Design and Material Technologies – Monika Skowronska, Panel Chair – GD NASSCO		
10:20	State of the Panel – Sustainment – Kirsten Walkup, Panel Chair – GD Bath Iron Works		
10:30	State of the Panel – Planning, Production Processes and Facilities – Patrick Cahill, Acting Panel Chair – Cahill Consulting		
10:40	State of the Panel – Surface Preparation and Coatings – Bob Cloutier, Acting Panel Chair – Consultant		



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Tuesday, March 28, 2023

10:50	State of the Panel – Business Technologies – Jamie Breakfield, Panel Chair – Ingalls Shipbuilding			
11:00	State of the Panel – Workforce & Compliance – Maurissa D'Angelo, Acting Panel Chair – D'Angelo Technologies			
11:10	State of the Panel – Ship Warfare	Systems Integration – Perry Haymo	on, Panel Chair – Ingalls Shipbuildin	g
11:20	State of the Panel – Welding Tech	nology – Paul Hebert, Panel Chair -	- Newport News Shipbuilding	
11:40 -1:00	LUNCH (Provided) & EXPO			
		TECHNICA	L TRACKS	
	Design <i>Room 6/7</i>	Build Room 8/9	Sustain Room 10/11	Build Room 12/13
1:15	Utilizing Ship Product Model Information for Corrosion Control and Coatings John Walks, HII-Ingalls	Laser Ablation Surface Preparation and Hazard Evaluation Dr. Melissa Klingenberg, PSU ARL	On-Board Ship 3D Environment Mark Debbink, HII-NNS	Virtual Load Out for Interference Detection* Kyle Green, GD-BIW
1:50	Inner Bottom Transformation* Ron Wilson, HII-Ingalls	Advanced Development of the High Mobility Manufacturing Robot (HMMR) Jamie Beard, RTT	Minimum Data Exchange Standards for a Navy Digital Enterprise Philip Jennings, HII-NNS	Evaluation of Splice-On Connectors/Termini for Shipboard Applications Jason Farmer, HII-Ingalls
2:25	Visual Search Engine* Jamie Breakfield, HII-Ingalls	Portable Welding Robot* Chelsea Nugent, ATI	Alternate Blocking Materials Tim Greeson, DM Consulting	High-Density Ribbon Fiber Optic Cable & Tooling for Shipboard Installations Jason Farmer, HII-Ingalls

*ManTech Project

Presentations and Times Subject to Change



AGENDA Tuesday, March 28, 2023

2:55	BREAK			
	Design <i>Room 6/7</i>	Build Room 8/9	Sustain Room 10/11	Build/Design <i>Room 12/13</i>
3:15	Scaling Up 3D Printed Steel Castings Kolby Pearson, GD-NASSCO	Semi-Auto Gas Tungsten Arc Welding (GTAW)* Dan Reed, ATI	Equipment Sight Site Validation Tool John Walks, HII-Ingalls	Machine Learning and Schedule Optimization* Jamie Breakfield, HII-Ingalls
3:50	Dynamic Rules Based Material Process* Ron Wilson, HII-Ingalls	Next Generation Double Electrode GMAW Processes for Precision Fillet Welding Michael Carney, EWI	Shipbuilding Apprenticeship: A Qualitative Study Scott Christman, GD-BIW	Digital Data for Next Generation Location & Measurement Tools* Bobby Mashburn, ATI
4:25	Custom and Digitized ABS Rules with Executable Knowledge Packets Nathaniel Terre, ABS	Portable Single-Pass Buried Arc Welding of Steel Plate During Ship Erection Jim Hansen, EWI	Digital Twin "TRUST" Verification & Validation Guide Dave Walker, ABS and Mark Debbink, HII-NNS	Digital Model Filtering for Cobot Welding and Cutting Applications Ben Dorris, Next Level Consulting
6:30 – 8:30	RECEPTION & EXPO Ballroom A/B		· · · · · · · · · · · · · · · · · · ·	

*ManTech Project

Presentations and Times Subject to Change



AGENDA Wednesday, March 29, 2023

7:00	CONTINENTAL BREAKFAST		
7.00	Ballroom A/B		
8:00	GENERAL SESSION		
0.00	Ballroom C		
8:10	Keynote Address – Mr. Neil Graf, ManTech Program Lead, Office of Naval Research		
8:30	Keynote Address – Ms. Kelly Cooper, Program Officer, Sea Warfare and Weapons Department, Office of Naval Research		
9:00	Keynote Address – Mr. Tom Perotti, NAVSEA NSRP Program Executive and NAVSEA 05 Executive Director		
9:30	Keynote Address – Mr. Matt Sermon, Executive Director, PEO Strategic Submarines – NAVSEA		
10:15	BREAK		
10:45	ManTech COE Update – Chris Ligetti, Institute for Manufacturing & Sustainment Technology		
11:00	ManTech COE Update – John Mazurowski, Electronics Manufacturing Center		
11:15	ManTech COE Update – Andrew Trageser, Electro-Optics Center		
11:30	ManTech COE Update – Mark Snider, Center for Naval Metalworking		
11:45	ManTech COE Update – Bobby Mashburn, Naval Shipbuilding & Advanced Manufacturing		
12:00	ManTech COE Update – Ryan Frankart, Composite Manufacturing Technology Center		
12:15 – 1:30	LUNCH (provided) and EXPO Ballroom A/B		

AGENDA



Wednesday, March 29, 2023

	Design <i>Room 6/7</i>	Build Room 8/9	Sustain Room 10/11	Build Room 12/13	
1:45	Fire Resistant Watertight Structural Doors John Walks, HII-Ingalls	Dry Dock Block Contact Indicator Tim Greeson, DM Consulting	High Productivity Reduced Emissions Arc Gouging Process Paul Blomquist, EWI	Press Connect Fittings in Construction of US Navy Ships Wendy Greenbaum, GD-BIW	
2:20	Mobile Laser Scan to CAD Cody Griffith, HII-NNS	Breakthrough Welding Process for Pipe and Plate Jason Sherman, K-Tig	Robotic Arc Directed Energy Deposition of Large Format Marine Propellers Dennis Harwig, <i>EWI</i>	Shaped Plate* Jeremy Brougher, ATI	
2:55	Non-Metallic Material Applications in Shipbuilding Environments* De'Andre J. Cherry, ATI	Deep Hole Drilling* Chance Roman, ATI	Optimized Weld Records Megan Brinker, TruQC		
3:25		BREAK			
3:40	Advanced Diagram Development and Management* Kyle Green, GD-BIW	Cold Cutting Steel* Chance Roman, ATI	Predictive Maintenance for Critical Assets in Shipbuilding Dr. Melissa Klingenberg, Penn State ARL/iMAST		
4:15	Development of a Fast Analysis Solver for Welding Sequence Optimization of Ship Structures Steve Scholler, HII-Ingalls	Tele-welding Shipyard Prototype for Welding (and other) Applications Connie LaMorte, EWI	Minimize Work Content in Production and Maintenance Using Early-stage Structural Design Optimization Tobin McNatt, MAESTRO Marine LLC		
4:45	ADJOURN				

*ManTech

Project Presentations and Times Subject to Change



AGENDA Thursday, March 30, 2023

7:00	CONTINENTAL BREAKFAST Room/Areas		
Time	Panel	Meeting Room	
8:00 – 3:00	Business Technologies	Room 7	
8:00 – 4:30	Electrical Technologies	Room 6	
8:00 – 12:30	Planning, Production Processes & Facilities	Room 9	
8:00 – 1:00	Ship Design & Material Technologies	Room 10	
8:00 – 2:30	Ship Warfare Systems Integration	Room 13	
8:00 – 1:00	Surface Preparation & Coatings	Room 8	
8:00 – 12:15	Sustainment	Room 11	
8:00 – 12:00	Welding Technology	Room 12	
8:00 – 12:30	Workforce & Compliance	Room 14	



Business Technologies Panel Meeting – Agenda

2023 NSRP All Panel Meeting – North Charleston, S.C. North Charleston Convention Center March 30th, 2023

Time	Presentation	Speaker
08:00	Call Meeting to Order	Jamie Breakfield – BT Chair
	Introductions	
	NSRP Program Update	
08:30	Digital Twin – Digital Thread Path Forward	Mark Debbink – HII NNS
09:00	Offline Mobile Ship Navy Repair Operations (RAP)	Micah Waldstein - Oxalis
09:30	Locate Your Digital Assets Using Al-powered Visual	Robert Hill - VizSeek
	Search Technology	
10:00	Break	
10:30	Automated Detailed Planning & Optimization (RA	Rob Parker – SSIUSA
	Project)	
11:00	CUPIX: How a proven AEC Technology Platform is	Joshua Bibb – CUPIX, Inc.
	benefiting the Shipbuilding, Ship Sustainment & Ship	
	Survey Industries	
11:30	Automated Label Plate Generation (Panel Project)	Robert Parker - SSIUSA
12:00	Lunch Break	On Your Own
01:00	Upcoming BT Panel Projects – Equipment Validation	Patrick Roberts – BT Vice Chair
	Through Scanning	
01:30	Using Ship Product Model for Corrosion Control and	John Walks – HII Ingalls
	Coatings (Panel Project)	
02:00	Open Discussion on Future Panel Activities	Jamie Breakfield – BT Chair
02:30	Final Remarks – Adjourn Meeting	Jamie Breakfield – BT Chair



Electrical Technologies Panel Meeting

Charleston, SC Thursday, March 30, 2023

Meeting Agenda

*Times listed are Eastern Time Zone

Time*	Presentation	Speaker
8:00 am	Convene Meeting – Begin Webinar	
8:00 am	Introductions and Welcome	
8:15	Chair Report	Jason Farmer, Panel Chair
8:30	NSRP Update	Jason Farmer, Panel Chair
9:00	Fiber Optic Test Enhancement for Cost Reduction	Chris Pegge, Dan Morris, KITCO Fiber Optics
10:00	Built-In-Test for Fiber Optic Links	John Mazurowski, Penn State ARL
10:30	Break	All
10:45	NAVSEA 05Z3 Update	Chris Nemarich, NAVSEA 05Z33
11:30	Splice-On Connectors and Termini for Shipboard Applications	Jason Farmer
12:00 pm	Lunch	All
12:30	Protocol Gateway Solutions and Network Diagnostics Tools	Joel Austin, Softing Industrial Automation
1:30	Navy Fiber Optic Update	Brandon Nelson, NSWC DD
2:00	Overview of FY23 Panel Projects	Project Leads
3:00	FY24 Panel Project Topic Discussion	All
4:00	For the Good of the Panel/Open Discussion	All
4:20	Action Items & Wrap-Up	Walt Skalniak, Panel Vice- Chair
4:30	Adjourn	



Planning, Production Processes and Facilities (PPPF) Panel Meeting – *Draft Agenda*

2023 NSRP All Panel Meeting – Charleston, S.C. North Charleston Convention Center March 30th, 2023

Time	Presentation	Speaker
07:00	Continental Breakfast	
08:00	Call the Meeting to Order, Introductions, Panel	Patrick Cahill – Acting PPPF
	Business, Call for Chair Nominations	Chair
08:30	Fit-Up Gear	Kevin Smith - Harbach
09:00	Advanced Elevator Systems	Eric Moran - CDI
09:30	FlexSim Tactical Planning Tool: Using 4D Simulation	Chad Goff – Goff Consulting
	for Strategic Success	
10:00	Coffee Break	
10:30	Blucher Stainless steel push-fit drainage	Alex Green - Blucher
11:00	Dai-Ichi High Frequency, Inc.	Jeff Brunner - DHF
11:30	Atmospheric Plasma – demo immediately after	Glenn Astolfi - APS
12:30	Meeting Adjourned	On Your Own



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Ship Design & Material Technologies Panel Break Out March 30th, 2023

Time	Presentation	Speaker
8:00	Convene Meeting	
8:00	Agenda/Tour Logistics	Monika Skowronska, SDMT Panel Chair
8:00	Panel Project Update: Using MELD to Additively Manufacture Flight Deck Tie Downs	Danny Georgiadis, Hepburn and Sons LLC
8:30	NAVSEA Additive Manufacturing Overview	Scott Storms, NAVSEA 05T
8:45	RA Update: Shore-Based Additive Manufacturing in Support Of Military Sealift Command	Gareth Burton, ABS
9:15	Panel Project Update: 3D Printing of Supply Sensitive Parts	Chris Bal, NASSCO
9:30	Panel Project Update: Automated Label Plate Generation	Rob Parker, SSI
10:00 10:15	Tour of Detyens Shipyard Meet outside/Bus Leaves for Tour	
1:00	Back to Convention Center	



Ship Warfare Systems Integration Panel Meeting

2023 NSRP All Panel Meeting – Charleston, S.C. North Charleston Convention Center March 30th, 2023

Time	Presentation	Speaker	
8:00 am	Convene Meeting		
8:00 am	Introduction / Panel Chair Welcome / Chair Report	Haymon	
8:10 am	NSRP Update	Haymon	
8:30 am	Panel Status	Haymon	
9:00 am	Past Project Overview	Haymon	
10:00 am	SIP/TIP Update	Haymon/ATI	
11:00 am	Built-In-Test for Fiber Optic Links	John Mazurowski	
12:00 pm	Lunch	All	
12:30 pm	Combat Systems Standard Foundations	H.G. Howard	
	Qualification and Optimization		
1:30 pm	Performance Improvement for 25Hz DSSM Spring	Mike Talley	
	Tray	white famey	
2:30 pm	Review Action Items / Closing Remarks	Haymon	



Surface Preparation & Coatings Panel Meeting Charleston, SC

Thursday, March 30, 2023, 8:00 AM - 1:00 PM

Time	Presentation	Speaker
8:00	Welcome & Introductions	Robert Cloutier Acting Chair, SP&C Panel
8:10	NSRP Program Overview	Robert Cloutier Acting Chair, SP&C Panel
8:30	Surface Preparation & Coatings Panel Update	Robert Cloutier Acting Chair, SP&C Panel
9:00	NAVSEA 05 Surface Preparation and Coatings (SP&C) Technical Warrant Holder (TWH) Update Planning for the TWH's update being virtual	Mark Ingle, TWH, NAVSEA 05
10:00	BREAK	
10:15	Association of Materials Protection & Performance, AMPP – Certification, Education, & Standards	Dave Evans, Director, QP & Coatings Credentialing, AMPP
10:45	Panel Project Updates	Leads, Panel Projects Proposals
12:00	MegaRust 2023 Update Planning for the MegaRust update being virtual	Dave Zilber, Chair, MegaRust
12:15	Election Chairperson NSRP SP&C Panel	
	A word from the former Chair	Arcino "Q" Quiero, Jr., Master Shipbuilder
12:45	Election SPC Panel Chair	
1:00	For the Good of the Panel Conclusion & Wrap-Up	Robert Cloutier Acting Chair, SP&C Panel



Sustainment Panel Meeting

Thursday, March 30, 2023

* All times are Eastern Standard Time

	Presentation	Speaker
8:00 am	Sustainment Panel Chair Report	Kirsten Walkup, Panel Chair
8:15 am	Panel Project Presentation – Siemens SOIP	Michael Mazzenga, Siemens Government
9:45 am	Technology Tracks – Bloom Cloud Engine	Greg Lawes, point3D
10:15 am	Panel Project Presentation – Sight Validation Tool	John Walks, HII - Ingalls
10:45 am	MANTECH Project – Point Cloud to Solids Conversion Tool	Kyle Green, GD – Bath Iron Works
11:15 am	Panel Project Presentation – Alternate Blocking Materials	Tim Greeson, DM Consulting
11:45 am	Vice Chair Presentation – Collaboration Opportunities, PHNS	Kaipo Crowell, Panel Vice-Chair
12:15 pm	Adjourn	



Welding Technology Panel Meeting

2023 NSRP All Panel Meeting – Charleston, S.C. North Charleston Convention Center March 30th, 2023

Time	Presentation	Speaker
8:00 AM	Welcome and Introductions	Paul Hebert
8:15 AM	Panel Chair Report	Paul Hebert
8-30 AM	Semi-Auto GTAW Discussion	Electric Boat
9:00 AM	Multi-factor Monitoring During Laser and Hybrid Laser-Arc Keyhole Welded Steel Butt Joints	Shawn Sutton
9:30 AM	Inspection 4.0	Mike Mohseni, PhD Autometrics
10:00 AM	Break	
10:15 AM	NAVSEA TP/248, Rev 1 – Overview of Robotic Requirements	Jim Thomas NSWC - Carderock
10:45 AM	Presentation on Cobots	Warren Krueger Lincoln Electric
11:15 AM	How to Choose Shipyard Automation Projects with Examples	Tom Richardson Arc Specialties
11:45 AM	Closing Remarks & Discussion	Paul Hebert
12:00 Noon	Adjourn	



Workforce & Compliance Panel Meeting

2023 NSRP All Panel Meeting – Charleston, S.C. North Charleston Convention Center March 30th, 2023

Time	Presentation	Speaker
8:00 am	Convene Meeting	
8:00 am	Introduction / Panel Chair Welcome / Chair Report	Maurissa D'Angelo
8:10 am	NSRP Update	Maurissa D'Angelo
8:30 am	Panel Project Call Highlights Discussion	Maurissa D'Angelo
8:40 am	Panel and RAP Project Updates	Multiple
	Shipbuilding Apprenticeship: A Qualitative Analysis	
	Feasibility of Standardized OSHA Maritime	
	Management Safety Training	
	Pending – High Productivity Reduced Emissions Arc	
	Gouging Process	
	Pending – Modern Shipbuilding Design Courses 3	
	Pending – Implementation of Press Connect Fittings	
	in Construction of US Navy Ships	
9:30am	When Bad Data Meets Good Intentions: Impact of	Giobbi
	Poor Data Quality on Welding Emission Factors	Globbi
10:00 am	SIP/TIP Update	Crowell
10:45	Break	
11:00	Supporting Workforce Through Training	Witt
11:30	Electric Transportation and the Environment	Tallarico
12:00	Panel Project Discussion	All
12:30 pm	Review Action Items / Closing Remarks	Maurissa D'Angelo

