ShipTech 2024

draft 14 2024

Wednesday, March 20

6:00 p.m 7:00 p.m.	Registration	Crystal Promenade AB
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Thursday, March 21

7:00 a.m 6:00 p.m.	Registration	Crystal Promenade AB		
	General Session	Crystal Ballroom		
8:00 a.m.	Welcome Master Chief Petty Officer Andrew Chupashko, Command Senior Enlisted Leader, Office of Naval Research (confirm	ned)		
8:05 a.m.	Presentation of Colors Joint Base Charleston Honor Guard			
8:10 a.m.	National Anthem Mr. Tim Macon, Program Manager II, Advanced Technology International (confirmed)			
8:15 a.m.	Keynote Address RDML Kurt Rothenhaus, Chief of Naval Research, Office of Naval Research (confirmed)			
8:45 a.m.	Industry Keynote Address Mr. Kevin Graney, President, General Dynamics Electric Boat (confirmed)			
9:15 a.m.	ManTech Mr. Neil Graf, Navy ManTech Program, Office of Naval Research (confirmed)			
9:30 a.m.	National Shipbuilding Research Program Mr. Colin Dunlop, Program Manager, National Shipbuilding Research Program, NAVSEA 05T2 (confirmed)			
9:45 a.m.	National Shipbuilding Research Program Mr. Logan Jones, Vice-Chair, Executive Control Board / Director of Programs, Jacksonville Ship Repair at BAE Syst	rems, Inc. (confirmed)		
10:00 a.m.	Break / Exhibits	Emerald Ballroom		
	General Session	Crystal Ballroom		
10:30 a.m.	PEO Panel: Accelerating Capabilities to the Warfighter Moderator: Dr. Mark Traband, Deputy Director and Head of the Materials and Manufacturing Office, Penn State Uni 10:35 RADM Casey Moton, PEO Aircraft Carriers (confirmed) 10:45 Mr. Matthew Sermon, Executive Director, Program Executive Office Strategic Submarines (confirmed) 10:55 Mr. James Dempsey, PEO Ships (confirmed) 11:05 CAPT Jesse Mink, PEO Integrated Warfare Systems (confirmed) 11:15 Q&A	iversity Applied Research Laboratory (confirmed)		
12:00 p.m.	Lunch (on your own)			

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Concurrent Technical Sessions					
1:30 p.m.	Maintenance Technical Session Robotics and Automation Technical Session Digital Manufacturing Technical Session 1 Advanced Manufacturing Technical Session 1	Crystal AB Crystal C Crystal D Crystal EF			
00 p.m.	Break / Exhibits	Emerald Ballroom			
3:30 p.m.	Composites Technical Session Robotics and Automation Technical Session 2 Advanced Manufacturing Technical Session 2 Metalworking Technical Session 1	Crystal AB Crystal C Crystal D Crystal EF			
5:00 p.m.	Reception / Exhibits	Emerald Ballroom			
6:00 p.m.	Adjourn				

Friday, March 22

7:00 a.m 1:00 p.m.	Registration			Crystal Promenade AB
	General Session			Crystal Ballroom
8:00 a.m.	Welcome Master Chief Petty Officer Andrew Chupashko, Com	nmand Senior Enlisted Le	ader, Office of Naval Res	search (confirmed)
8:05 a.m.	National Anthem Mr. Tim Macon, Program Manager II, Advanced Technology International (confirmed)			
8:10 a.m.	Submarine Industrial Base Mr. Matthew Sermon, Executive Director, Program Executive Office Strategic Submarines (confirmed)			
8:40 a.m.	NAVSEA Team Ships Mr. James Dempsey, Team Ships Science & Technology Director, NAVSEA (confirmed)			
9:10 a.m.	Industry Keynote Address Mr. Matt Needy, Vice President, Chief Transformation	on Officer, Huntington Ing	alls Industries – Newport	News Shipbuilding (confirmed)

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9:40 a.m.	Sustainment Panel: Accelerating Capability to the Warfighter at the Point-of-Need Moderator: Mr. Steve McKee, Director of Sustainment Transition Office, ODASD (S&T) Office of Secretary of Defense (confirmed) CAPT Steven Tarr, III, Code 33 MILDEP Office of Naval Research (confirmed) Mr. Kirsten Walkup, Sustainment Chair, National Shipbuilding Research Program / Section Manager - Quality Assurance, Lifecycle Applications & Support, Bath Iron Works (confirmed) Mr. Paul Huang, Navy ManTech Program Officer, Office of Naval Research (confirmed) Mr. Jeff Sauby, Technology Insertion Program Manager, NAVSEA 04 (confirmed)			
10:55 a.m.	Closing Remarks Master Chief Petty Officer Andrew Chupashko, Command Senior Enlisted Leader, Office of Naval Research (confirmed)			
11:00 a.m.	Break / Exhibits Emerald Ballroom			
	Concurrent Technical Sessions			
11:30 a.m.	Advanced Manufacturing Technical Session 3 Metalworking Technical Session 2 Additive Manufacturing Technical Session Digital Manufacturing Technical Session 2	Crystal AB Crystal C Crystal D Crystal EF		
1:00 p.m.	Adjourn			

Thursday, 21 March

Technical Sessions

	Maintenance Crystal Ballroom - AB	Robotics and Automation 1 Crystal Ballroom - C	Digital Manufacturing 1 Crystal Ballroom - D	Advanced Manufacturing 1 Crystal Ballroom - EF
Session Chair	Chris Ligetti, Penn State Applied Research Laboratory	Jeremy Brougher, Advanced Technology International	Dan Reed, Advanced Technology International	Paul Huang, Office of Naval Research ManTech
1:30 p.m.	Advancing Health Monitoring of Critical Manufacturing Technologies: Dr. Melissa Klingenberg and Aayush Verma, General Dynamics Electric Boat	Producing Savings through Portable Welding Technology: Jeremy Brougher , Advanced Technology International; Derek McKee, General Dynamics Electric Boat	Dynamic Simulation Capability Brought In- House Yard Wide: Bobby Mashburn and Scott Truitt, Advanced Technology International and Kyle Green, Bath Iron Works;	Additively Manufactured Jettison- Hatch Control Manifold for the Submarine Rescue Vehicle: Peter Coutts , Evan West, Corey Dickman, Ted Reutzel, John Phillips, Griffin Jones, and Hunter Rauch; Penn State Applied Research Laboratory
2:00 p.m.	Fiber Optic Distributed Temperature Sensing to Monitor Ships Electrical Assets: Giovanni Tomasi , RSL Fiber Systems LLC; Christopher Nemarich, NAVSEA; Rickey DeLoge, Bath Iron Works	Shipbuilding CoBot Alliance and Portable CoBot Operations: Dr. Stephen Canfield and Jamie Beard, Robotic Technologies of Tennessee; Patrick Cahill, CahillConsulting LLC	Integrate Automated Schedule Optimization and Machine Learning into Shipyard Al: Jamie Breakfield, Ingalls Shipbuilding; Tanner Blacklidge, BigBear.ai; Kevan Hutchings, Newport News Shipbuilding; Robert Conley, Advanced Technology International	Tele-Manufacturing - Deploying Remote Automation for Tele-presence Welding: Paul Blomquist and Connie LaMorte, Edison Welding Institute
2:30 p.m.	Utilizing Metal Matrix Composites for at Sea Fatigue Crack Repairs: Brandon Coates and Brian Gordon, Touchstone Research Laboratory; Dr. Daniel Hart, NSWC	Robotic Blasting and Painting of Tank Interiors: Emily Tunila , General Dynamics Electric Boat; Steve Gaschler , Advanced Technology International	Understanding your Digital Twins: Mark Debbink , Newport News Shipbuilding; Eric VanDerHorn and Sharat Valluri, ABS	Automated Targetless Photogrammetry for High Accuracy Metrology: David Rearick , Craig West, Thaddeus Marrara, John Morgan, and Robert Ortman, Penn State Applied Research Laboratory; Dominic Albanese and Michael Raphael, Direct Dimensions, Inc.; Susan Tardif, Bath Iron Works
3:00 p.m.	Break / Exhibits	Break / Exhibits	Break / Exhibits	Break / Exhibits

Thursday, 21 March

Technical Sessions

	Composites Crystal Ballroom - AB	Robotics and Automation 2 Crystal Ballroom - C	Advanced Manufacturing 2 Crystal Ballroom - D	Metalworking 1 Crystal Ballroom - EF
Session Chair	Dr. Maureen Foley, NSWCCD Ryan Frankart, Advanced Technology International	Bobby Mashburn, Advanced Technology International	Nancy Porter, Edison Welding Institute	Mark Snider, Advanced Technology International
3:30 p.m.	Thermal Insulating Coatings for Thermal and Anti-sweat Insulation: An Tran and Chris Yoko, Newport News Shipbuilding; Steve Gaschler, Advanced Technology International	Robotic Installation of Submarine Inserts: Chelsea Nugent, Advanced Technology International; Derek McKee, General Dynamics Electric Boat	Potential Life of Boat Ceramic Coating for Submarine Seawater-System Ball Valves: Ryan Romesberg, Penn State Applied Research Laboratory	One-Sided Deck Tie-Down Welding and Inspection: Gary Rosetti , Ingalls Shipbuilding; Robert Conley, Advanced Technology International
4:00 p.m.	S2940-1 High Performance Insulation Materials and Processes: De'Andre Cherry , Advanced Technology International	Mobile Robotic Foundation for Welding Structural Joints: Dan Meath , Gary Rosetti, Ingalls Shipbuilding	Drone Operations for Submarine Hull Inspections: Application and Lessons Learned: Connor McNulty-Ule and Daniel Bard, General Dynamics Electric Boat; Dr. Simon Miller, Sean Krieger, Mike Zugger, Chris Ligetti, Penn State Applied Research Laboratory	Robotic Blending of Large Diameter Internal Piping: Sean McDowell , Advanced Technology International; Maksim Vasilchenko, General Dynamics Electric Boat
4:30 p.m.	Composite Materials Components for Reduced Maintenance and Total Ownership Cost: Dr. Maureen Foley , NSWCCD	Automated Hull Access Cutting and Welding Applications: George Hinerman , Advanced Technology International; Gary Rosetti, Ingalls Shipbuilding	High-Density Ribbon Fiber Optic Cable and Tooling for Shipboard Installations: Jason Farmer, Ingalls Shipbuilding; John Mazurowski and Michael Reilly, Penn State Applied Research Laboratory; Dan Morris KITCO Fiber Optics; Chris Good, NSWCDD	Advancement of Temporary Fitting Attachment Technology: Dan Meath , Advanced Technology International; John Lovezzola, General Dynamics Electric Boat

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Friday, 22 March 2024

Technical Sessions

	Advanced Manufacturing 3 Crystal Ballroom - AB	Metalworking 2 Crystal Ballroom - C	Additive Manufacturing Crystal Ballroom - D	Digital Manufacturing 2 Crystal Ballroom - EF
Session Chair	Dr. Charles Fisher, NSWCCD	Larry Brown, Edison Welding Institute	Matt Sinfield, NSWCCD	Dr. Carrie Davis, NSWCCD
11:30 a.m.	Application of Printed Sand Mold Technology to Navy-Relevant Castings: Michael Tims and Dr. Juan Valencia, Concurrent Technologies Corporation; Gerald Thiel, University of Northern Iowa	Silicate-free GMAW Electrode and Procedure Technology for High Integrity Multi-pass Ship Panel Joints: Jim Hansen , Joe Getgen, and Dennis Harwig, EWI; Kevin Roossinck, Ingalls Shipbuilding	Invigorating the Additive Manufacturing Industrial Base to Support Submarine Construction: Sean McDowell , Advanced Technology International; Aayush Verma, General Dynamics Electric Boat	Model-Based Standards for Shipbuilding: Governance and Harmonization: Ryan Bounds , Newport News Shipbuilding
12:00 p.m.	Laser Ablation to Improve NNS Preconstruction Primer Removal Operations: Dr. Melissa Klingenberg and Steve Brown, Penn State Applied Research Laboratory; James Brooks and Mike Cunneen, Newport News Shipbuilding	Next Generation Double Electrode GMAW Process for Precision Fillet Welding: Michael Carney, Jim Hansen, Joseph Getgen, and Dennis Harwig, EWI; Kevin Roossinck, Ingalls Shipbuilding	Quality System Framework for NAVSEA and ABS Metal Additive Manufacturing Requirements: Dr. Dennis Harwig and Jason Rausch, EWI; Troy Erb, Wildcat	Automated Forming Outputs for Compound Curvature: Shawn Wilber , Austal USA, and Darren Guillory, SSI USA
12:30 p.m.	Transitioning Material Solutions from R&D to Pilot-Scale Manufacture: A Case Study: Dr. Amberlee Haselhuhn , Nick Johnson, Tanner Olson, and Anthony Koumpias, LIFT	Transforming the Methods to Construct Inner Bottom Assemblies: Dan Meath , Advanced Technology International; Gary Rosetti, Ingalls Shipbuilding	Expeditionary Cold Spray Repair and Additive Manufacturing of Ship and Submarine Components: Dr. Timothy Eden , Anthony Naccarelli, and Jeremy Schreiber, Penn State Applied Research Laboratory; Jeffery Campbell and Daniel Stanley, NAVSEA 05	Implementation of a Shipyard Digital Twin using FlexSim Modeling Software: Patrick Cahill, Russell Knowles, PEO Aircraft Carriers, and Chad Goff, CahillConsulting LLC