

Ship Design & Material Technologies Panel Meeting

July 31, 2020 --- Virtual

Meeting Focus: Panel Project Idea Pitches

Ship Design and Material Technologies Breakout

July 31, 2020 --- 11am Eastern --- 10am Central --- 8am Pacific

Time Eastern	Time Pacific	Presentation	Speaker
11:00	8:00	Convene Meeting/ Meeting Logistics	
11:00	8:00	Meeting Overview and NSRP Program Update	Monika Skowronska, NASSCO Vicky Dlugokecki Nick Laney, ATI
11:15	8:15	Development of NDT Calibration Block for Directed Energy Deposition Additive Manufacturing Processes	John Ralls, Newport News Shipbuilding
11:20	8:20	Temporary Firestop During Construction	Terry Mannion, STI Marine Firestop
11:25	8:25	Digital Twin manufacturing of ship structures	Martin Hardwick, STEP Tools, Inc. / ISO TC184/SC4 WG15
11:30	8:30	Artificially Developed CAD Models (Next Generation Capabilities)	Alicia D'Aurora-Harmon, Newport News Shipbuilding
11:35	8:35	Digital Twin Maturity Models (Next Generation Capabilities)	Alicia D'Aurora-Harmon, Newport News Shipbuilding
11:40	8:40	High Duty Metal Additive Manufacturing Using Cryogenic Cooling Thermal Control	Dennis Harwig, EWI
11:45	8:45	Effect of the Variation of Incoming Pipe Material Properties on Springback in Pipe Bending	Hyunok Kim, EWI
11:50	8:50	Knowledge Provisioning to Simplify Preliminary Design	Victoria Dlugokecki, Victoria Dlugokecki, P.E.
11:55	8:55	Using AI to Simplify Provisioning of Navy Standard Rqmts	Victoria Dlugokecki, Victoria Dlugokecki, P.E.
12:00	9:00	Industry Standards for Unmanned and Autonomous Surface Vehicles (USVs)	David Walker, ABS (American Bureau of Shipping)
12:05	9:05	High Duty Metal Additive Manufacturing Using Cryogenic Cooling Thermal Control	Dennis Harwig, EWI
12:10	9:10	Aluminum Sensitization on High Speed Vessels	Derek Novak, ABS (American Bureau of Shipping)
12:15	9:15	Autonomous System Design Integration	Pat David, SSI USA
12:20	9:20	Design - Build for Test	Pat David, SSI USA

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12:25	9:25	Digital Scan Management	Pat David, SSI USA
12:35	9:35	State of Digital Drawing Delivery	Pat David, SSI USA
12:40	9:40	Next Generation Remote Operation Gear for Valves	John Walks, Ingalls Shipbuilding
12:45	9:45	Advanced Insulation Material Assessment	John Walks, Ingalls Shipbuilding
12:50	9:50	Comprehensive Aircraft Tie-Down Strength and Corrosion Evaluation	Steve Scholler, Ingalls Shipbuilding
12:55	9:55	Additive Manuf. for Seawater Heat Exchangers / Large Scale Additive Manuf. for Composite Unmanned Hulls	Scott Kasen, Electrawatch
1:00	10:00	PUMPKIN Mounts	Alan Klembczyk, Taylor 10, Inc.
1:05	10:05	Tulip Studs to Replace Stand-Off & Flat & Angle Bar Clips	Clark Champney, Nelson Stud Welding Div. Stanley Blavk & Decker
1:10	10:10	Standardization of UxV Shipboard Interfaces	Isabelle Brown, NASSCO
1:15	10:15	Accelerated Development of Low-Cost Low-Density 130ksi Steels	Amit Behera, QuesTek Innovations LLC
1:20	10:20	Questions and any additional pitches	
1:25	10:25	Adjourn	