

## Business Technologies and Ship Design & Material Technologies Joint Panel Meeting

Buffalo, NY

October 16-17, 2019

### Meeting Focus: Additive Manufacturing

#### Objectives:

- Discussion on future of Additive Manufacturing in Shipbuilding
- Project Updates from ongoing projects
- Panel Collaboration
- Tour of Edison Welding Institute's AM Facility

### Joint Session Agenda

October 16, 2019

Time	Presentation	Speaker
<b>8:00</b>	<b>Convene Meeting</b>	
8:00	Introductions/Panel Chair Welcome/Chair Report	Virgel Smith and Monika Skowronska
8:30	Update from Technical Warrant Holder on Additive Manufacturing	Justin Rettaliata, NAVSEA
9:30	American Bureau of Shipbuilding on Additive Manufacturing Approval Process	Mary (Dongchun) Qiao, ABS
<b>10:00</b>	<b>15min Break</b>	
10:15	Tentative: AM presentation from NIST (National Institute of Standards and Technology)	
10:45	Large Area DED for Naval Applications & Robotic Arc Directed Energy Deposition Additive Manufacturing for Shipbuilding	Dennis Harwig, EWI
11:15	Additive Manufacturing Capabilities at EWI	Alex Kitt, Paul Boulware, EWI
<b>12:00</b>	<b>Lunch (Provided)</b>	
1:00/1:30	Load bus to EWI	
<b>2:00-5:00</b>	<b>Tour of EWI's AM Facility followed by a Reception</b>	Michael Ulbrich, EWI

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<b>8:00</b>	<b>Convene Meeting</b>	
8:00	ATI Update	Frances Pearce, ATI
8:30	AM Presentation: Additive Manufacturing Activities at ARL/PSU and Penn State's MS/MEng Additive Manufacturing & Design Program	Ted Reutzler, Pennsylvania State University
9:15	AM Presentation: GE Additive	Sam Dajani, GE- Additive
9:45	AM Presentation: 3D Printing for Innovative Mould Making Combined with Simulation Driven Design Inspiration Push the Limits for High Performance Castings.	Ray Deldin, Altair
<b>10:15</b>	<b>Break 15min</b>	
10:30	Tentative: AM Presentation: Fulfilling the Cost and Schedule Promises of Additive Manufacturing – Tools to Predict Part-Level Performance	Elliot Haag, ATA
11:00	Joint Panel Project Update: Knowledge Provisioning to Improve and Simplify Regulatory Compliance with ABS	Greg Burek, Auros Knowledge Systems
11:45	Panel Project Update: Joint Interoperable Standards for Containerized Modules	Isabelle Brown, NASSCO
12:15	AM Presentation: Lincoln Electric	Mark Schaub, Lincoln Electric
<b>12:45</b>	<b>Closing Remarks</b>	
<b>1:00</b>	<b>Adjourn</b>	