

AGENDA

Carderock Academic Outreach Day

8 June 2016

Maritime Technology Information Center, Bldg 40, NSWC Carderock, West Bethesda

Time	Topic				Presenter	Room
0800	Poster Session/Networking session/registration					<i>Columbia Room A</i>
0850	Administrative remarks				Dr. Barkyoumb, Director of Strategic Relations	<i>Melville-Taylor Auditorium</i>
0900	Welcoming Remarks				CAPT Blank, Commanding Officer NSWC Carderock	<i>Melville-Taylor Auditorium</i>
0910	Goals for this workshop				Dr. Arcano, Technical Director, NSWC Carderock	<i>Melville-Taylor Auditorium</i>
0920	Carderock Science & Technology Overview				Mr. Jack Templeton, CTO, NSWC Carderock	<i>Melville-Taylor Auditorium</i>
0945	Keynote Speech				Dr. Walter Jones, Technical Director Office of Naval Research	<i>Melville-Taylor Auditorium</i>
1015	Break					
1030	Parallel Technical Sessions					
	Ship Survivability M&S <i>Columbia B</i>	Ship Design Science <i>Auditorium</i>	Materials Research <i>San Francisco</i>	Tech Futures <i>Leviathan</i>		<i>Breakout rooms</i>
1130	Lunch - Posters, Networking Session					<i>Foyer, Columbia A</i>
1230	Facility Tours					
1330	Doing Business with Carderock				Tech Transfer, Contracts	
1400	Introduction to Models for Carderock/Academic Partnership				Dr. Barkyoumb	<i>Melville-Taylor Auditorium</i>
1415	Breakout Sessions- Models for Carderock/Academic Partnership					
	Breakout Session #1 <i>Columbia B</i>	Breakout Session #2 <i>Auditorium</i>	Breakout Session #3 <i>San Francisco</i>	Breakout Session #4 <i>Leviathan</i>		<i>Breakout rooms</i>
1515	Report out of Breakout sessions					<i>Melville-Taylor Auditorium</i>
1545	Wrap-up, Actions - Conclusion					<i>Melville-Taylor Auditorium</i>
1615	Adjourn					



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Breakout Sessions

Columbia room B –(room 109)

Ship Survivability Modelling & Simulation - Dr. Tom Moyer, Senior Technologist, Ship Survivability M&S

Navy enhanced Sierra Mechanics (30 min brief with 5 min Q&A).

Short Briefs (10 minutes each)

Explosive Resistant Coatings

Assessment Of CSS H.L. Hunley Sinking

Peridynamic Formulations for Shell Structural Dynamics

UNDEX in Close Vicinity to Naval Structures- Dr. Christine Ikeda, University of New Orleans

Auditorium

Ship Design Science & Process Technologies

– Mr. Jeff Hough, Distinguished Engineer for Ship Design

Ship design process & the different phases of ship design - *Short Briefs (10 minutes each)*

Use of set based design for ships & other maritime vehicles

Decision making & presentation of technical data to non-technical decision makers

Ship cost estimating

Application of model based systems engineering to ship & maritime vehicle design



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San Francisco (rm 111)

Materials Research Breakout Session

Overview of the Materials Division at Carderock (15 min brief with 5 min Q&A).

Short Briefs (5 minutes each)

Magnetostrictive Transductive Materials – Dr. Nick Jones

Integrated Computational Materials Engineering – Mr. Charles Fisher

Aluminium research for the ONR Future Naval Capabilities program – Dr. Bill Golumbfskie

Properties and structure of composites: metals containing carbon nanostructures – Dr. Lourdes Salamanca-Riba, Materials Science, University of Maryland

Leviathan room (rm 210, upstairs)

Technology Futures - - Dr. Danielle Paynter, Mr. Harry Whittaker

Disruptive Technology Laboratory (DTL) - Introduction + Process; Mr. Harry Whittaker (15 min)

DTL + Additive Manufacturing Print-a-thon Project – Mr. Harry Whittaker (15 min)

Acoustic Metamaterials Research - Mr. Sailou Telly (10 min)

Carderock S&T Strategic Roadmap Process Brief -Dr. Danielle Paynter (10 min)