

Multi-Agency Craft Conference (MACC 2011)

Virginia Beach, Virginia, USA
14 - 16 June 2011

ISBN: 978-1-5108-4919-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2011) by American Society of Naval Engineers
All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact American Society of Naval Engineers
at the address below.

American Society of Naval Engineers
1452 Duke Street
Alexandria, Virginia 22314
USA

Phone: (703) 836-6727
Fax: (703) 836-7491

asnehq@navalengineers.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

REVISED AGENDA

TUESDAY, JUNE 14, 2011				
Time	Location	Speaker	Organization	Topic
0700 – 0900	Theater Lobby	Breakfast		
0900 – 0940	Theater	Welcome & Introductions: CAPT Charles L. Stuppard, USN; Commander, Joint Expeditionary Base Little Creek - Fort Story		
	Theater	Keynote Speaker: RADM Ronald J. Rábago, USCG; Assistant Commandant for Engineering and Logistics		
1000 – 1030	Theater	J.M. Coughlin	PMS 325G	Acquisition Process Overview1
	Brashear Ballroom	Joseph B. Famme, Bryan Price, Ted Raitch and Jim Davison	ITE, Inc.	C2 to the Tactical Edge13
	Brashear Medal of Honor Room	Scott Tedesco and Matt Davis	Old Dominion University	Impact Testing and Simulation Using the 6 DOFs Machine.....38
1040 – 1110	Theater	CAPT Chuck Gunzel	NSWC Panama City Division/ONR 333	Connector for the Navy After Next: A Concept for Enabling Multi-Nodal Operations.....55
	Brashear Ballroom	Bill Stiffler and Anna Shih	Raytheon	Application of Helmet Mounted Display Technology to Watercraft.....65
	Brashear Medal of Honor Room	Christopher Liam and Dr. Mehdi Ahmadian	Virginia Tech, Center for Vehicle Systems and Safety	Testing and Modeling of Shock Mitigating Seats for High Speed Craft.....77
1120 – 1150	Theater	Gabor Karafiath	NSWC Carderock Division	Tele-operated Transformable89 Amphibious Fuel Truck (TTAFT)
	Brashear Ballroom	Rear Admiral Terry McKnight, USN (Ret.), Jeff Williams, and Alex Beard	Cobham MIO	C4ISR in Support of Maritime Interdiction Operations System (MIO)/Hostile Visit Board Search and Seizure (HVBSS).....100
	Brashear Medal of Honor Room	Gregory J. Hiemenz, Ph.D.	Techno-Sciences, Inc.	Adaptive Magnetorheological Shock Absorbers for High Speed Watercraft Seats.....113
1200 – 1230	Theater	CAPT Joel Dolbeck, P.E., PMP	U.S. Coast Guard, Commandant (CG-9325)	Coast Guard Response Boat-Medium (RB-M) 125
	Brashear Ballroom	Chuck Benton	Technology Systems, Inc.	The Tactical Application of Integrated C4ISR and Navigation Systems.....143
	Brashear Medal of Honor Room	David Smith	Shockwave Seats	Shock Mitigation with ICE Integrated Control Environment.....164
1130 – 1330	Rockwell Hall	Lunch		
1230 – 1700	Mud Flats	In-Water Displays & Demonstrations		
1330 – 1400	Theater	David Widhalm	NSWC Carderock Division	Landing Craft Concept Study.....174
	Brashear Ballroom	Andrew Peterson and Dr. Mehdi Ahmadian	Virginia Tech, Center for Vehicle Systems and Safety	Simulation and Testing of Wave-Adaptive Modular Vessels.....190
	Brashear Medal of Honor Room	Tony Van Meter and Bryan Wood	Coast Dynamics Group, Ltd.	Injury Reduction and Health Management Utilizing Semi-Active Mitigation Technology in Crew Seating for High Speed Watercraft.....205
1410 – 1440	Theater	Mike Roa	ABS Americas	Automation and Integrated Bridge System Standards for High Speed Naval Craft.....211
	Brashear Ballroom	Craig Hartzell	Azimuth Inc.	Integrating Biometrics Into The Craft Integrated Electronics Suite (CIES)©224
	Brashear Medal of Honor Room	John Gibson	MitiGator Inc.	The Latest in Shock Mitigation – The MitiGator Cushioning System.....238

WEDNESDAY, JUNE 15, 2011

Time	Location	Speaker	Organization	Topic
0700 – 0900	Theater Lobby	Breakfast		
0900 – 0940	Theater	Keynote Address: RDML David H. Lewis, USN PEO Ships.....247		
1000 – 1030	Theater	Kelly Haupt, Donald Jacobson and Mike Riley	NSWC Carderock Division (Norfolk) Combatant Craft Division/ The Columbia Group	A Generalized Approach and Interim Criteria for Computing A 1/n Accelerations Using Full-Scale High-Speed Trials Data.....254
	Brashear Ballroom	CDR David Clippinger, Ph.D., P.E. and CDR Hatfield	U.S. Coast Guard Academy	US Coast Guard PARADAR: Design, Testing and Recommendations.....262
	Brashear Medal of Honor Room	Joachim Grenestedt	Lehigh University	Steel/Composite Craft for High Speed Slamming Tests.....282
1040 – 1110	Theater	Mike Riley, Dr. Tim Coats, Kelly Haupt and Don Jacobson	NSWC Carderock Division (Norfolk) Combatant Craft Division	Ride Quality Index – A New Approach to Comparing Wave Slam Acceleration Responses of High-Speed Craft.....288
	Brashear Ballroom	Manhar Dhanak, Tom Furfaro and Janine Mask	Florida Atlantic University	Development of a Small Autonomous Unmanned Surface Vehicle.....299
	Brashear Medal of Honor Room	Scott Lewit	Structural Composites, Inc.	Technical Innovations in Hull and Deck Structures for Toughened Reduced Weight Marine Structures.....307
1120 – 1150	Theater	Heidi Plebani Murphy, Kelly Haupt and Mike Riley	NSWC Carderock Division (Norfolk) Combatant Craft Division	Interim Shock and Vibration Criteria for Electronics Equipment to Withstand Wave Impacts in High Speed Craft.....323
	Brashear Ballroom	Henrich Henriksen	H Henriksen Mek Verksted AS	Launch and Recovery.....335
	Brashear Medal of Honor Room	Robert E. Cole, P.E. and Joseph J. Boza, P.E.	NSWC Panama City Division	Comparison of Model Scale and Full Scale Deceleration of a Fully Skirted Air Cushion Vehicle in Sideslip.....358
1200 – 1230	Theater	Mike Riley, Kelly Haupt, and Donald Jacobson	NSWC Carderock Division (Norfolk) Combatant Craft Division/ The Columbia Group	A Deterministic Approach for Characterizing Wave Impact Response Motions for High-Speed Planning Hulls 366
	Brashear Ballroom	Dean Schleicher	Donald L. Blount and Associates, Inc.	Designing a 7m RIB for Survivability – A Case Study.....281
	Brashear Medal of Honor Room	Eric Hansen	NSWC Carderock Division (Norfolk) Combatant Craft Division	Hovercraft Wing-In-Ground (WIG) Platform Research.....414
1130 – 1330	Rockwell Hall	Lunch		
1230 – 1700	Mud Flats	In-Water Displays & Demonstrations		
1330 – 1400	Theater	Robert Greer and Darren Poore	SPAWAR/WR Systems	Over the Horizon Tactical Tracking System (OTHCTS) Application in the Counter-Piracy Mission.....427
	Brashear Ballroom	Todd Hiller, P.E. and Christopher Barry, P.E.	U.S. Coast Guard Surface Forces Logistics Center	Stability Standards for Military and Paramilitary Small Craft.....439
	Brashear Medal of Honor Room	Gale Banks	Gale Banks Engineering	High Performance and Lightweight Marine Diesel Engine: Turbocharged and Supercharged.....453
1410 – 1440	Theater	John Kermet	Seakeeper	Anti-Roll Gyro Stabilizers for Military Vessel Applications.....485
	Brashear Ballroom	Brian Kays	Navatek Ltd.	Navatek Adaptive Ride Enhancement System (ARES).....494
	Brashear Medal of Honor Room	George MacDonald	ZAZZ Engineering Inc.	Extending Life Cycle and Performance of Diesel Engines.....503
1800 – 2200	Beach Social at Little Creek Beach			

THURSDAY, JUNE 16, 2011

Time	Location	Speaker	Organization	Topic
0700 – 0900	Theater Lobby	Breakfast		
0900 – 0940	Theater	Keynote Speaker: RADM Michael P. Tillotson, USN; Commander, Navy Expeditionary Combat Command		
1010 – 1030	Theater	Jon Hill	STResearch, UK, Trident Marine, VMT, Canada	High Speed Craft: Requirements for Navigation, Command & Control, and Crew Interaction.....509
	Brashear Ballroom	Christopher Swanhart	Donald L. Blount and Associates, Inc.	Pod Drives as Main Propulsion in High Speed Craft.....518
	Brashear Medal of Honor Room	CDR Thomas A. "Tucker" Campion, USN (Ret.)	Poseidon Consulting, TPM, LLC	Risk Reduction in Hostile Environments 534
1040 – 1110	Theater	David Jamison	Drexel University	Analysis of the Mechanical Behavior of the Intervertebral Disc Under High-Impact Loading.....546
	Brashear Ballroom	Thomas Triumph	EPS Navy Systems	Innovation and Amphibious Capability: Advanced Composite Hovercraft Design, Fabrication and Performance.....563
	Brashear Medal of Honor Room	Richard McLellan	Pistris, Inc.	Better Tactics Through Science: Optimizing Tactics, Techniques and Procedures with Engineering Method .577
1120 – 1150	Theater	Jeff Blankenship	NSWC Panama City Division	Human Injury Metric Standards and High Speed Planing Craft.....585
	Brashear Ballroom	William M. Teppig Jr.	AEPLLOG, Inc.	Autonomous Sustainment Cargo Container (Sea Truck).....592
	Brashear Medal of Honor Room	Leonard Loffler	New High Glass, Inc.	Shock Absorbing Boat....619
1130 – 1330	Rockwell Hall	Lunch		
1230 – 1700	Mud Flats	In-Water Displays & Demonstrations		