WORKSHOP ON AUTONOMOUS SHIPPING, VESSEL AUTOMATION AND MARITIME CYBER SECURITY

Workshop Sponsored by ASTM Committee F25 on Ships and Marine Technology

December 5, 2018
Washington Hilton
Washington, DC

Workshop Chairman: Thane Gilman
United States Coast Guard
Office of Design and Engineering Standards

Committee F25 Chairman: Todd Ripley
U.S. Department of Transportation Maritime Administration

WEDNESDAY, DECEMBER 5, 2018

8:00 AM
Opening Remarks
Todd Ripley, Committee F25 Chairman

KEYNOTE SPEAKER

8:10 AM
Keynote Speaker
Richard Balzano, Deputy Administrator, Maritime Administration

SESSION 1: FEDERAL AGENCY AUTONOMOUS/AUTOMATED ACTIVITIES AND ASSOCIATED REQUIREMENTS
Moderator: Richard Balzano

8:40 AM
Navy Autonomous/Automated Technologies
Jason Stack, Ph.D. Deputy Portfolio Manager for Autonomy Office of Naval Research

9:00 AM
Autonomous Technologies supporting Environmental & Chart Data Collection
Rob Downs, NOAA
9:20 AM
Automation/Autonomy supporting Maritime Operations
Eddie Wiggins, USACE

9:40 AM SESSION 1: Q & A

10:00 AM BREAK

SESSION 2: COMMERCIAL AUTONOMOUS/AUTOMATED TECHNOLOGY ACTIVITIES
Moderator: Richard Delpizzo, ABS

10:20 AM
Autonomous Vessel Control & Navigation
Michael Gordon Johnson, Sea Machines Robotics, Inc.

10:40 AM
Embed Artificial Intelligence on Board Ships
Ugo Vollmer, Shone

11:00 AM
Remote Operation and Autonomy in Shipping - Safety Perspectives and Current Developments
Jan Hagen Andersen, DNV GL – Maritime

11:20 AM
One Sea - Autonomous Maritime Ecosystem Introduced Roadmaps to Autonomous Shipping
Dave Adams, Wartsila

11:40 AM SESSION 2: Q&A

12:00 PM LUNCH (On Your Own)

FACILITATED DISCUSSION

1:30 PM
Maritime Automation/Autonomy implications for Training and Education
Todd Ripley, MARAD/John Jorgensen, ABS

SESSION 3: THE EVOLVING REGULATORY ENVIRONMENT FOR AUTONOMOUS AND AUTOMATED MARITIME OPERATIONS
Moderator: CAPT Ben Hawkins, USCG (Ret.), Deputy Director, Commercial Regulations and Standards (CG-5PS)

2:00 PM
Class
John Jorgensen, ABS

2:20 PM
IMO/International and Domestic Regulations
LT Chris Rabalais, USCG, Office of Design and Engineering Standards (CG-ENG)
2:40 PM BREAK

3:00 PM
Education and Training for Automated Vessels
Dr. Elizabeth McNie, Professor of Marine Transportation, California Maritime Academy

3:20 PM
Remote Control & Monitoring for Machinery and Systems on Barges
Dan Wesp, ABS

3:40 PM SESSION 3: Q & A

SESSION 4: MARITIME CYBER RISK MANAGEMENT AND THREAT MITIGATION
Moderator: John Jorgensen, ABS

3:55 PM
Cyber Risk Management for Vessels: Coast Guard and IMO
LT Kevin Kuhn, USCG, Office of Design and Engineering Standards (CG-ENG)

4:15 PM
Accreditation to mitigate Cyber Risk
Elizabeth Carbonella, Accreditation Manager, A2LA

4:35 PM
Creating Deterrence to Maritime Cyber Attacks
Dr. Joan Mileski, Professor of Maritime Administration and Marine Science
Texas A&M University

4:55 PM
Development of Cyber Security Education for the Maritime Commons
CAPT Tony Piscitelli, PhD, SUNY Maritime College

5:15 PM
Cyber Attacks on Physical Property Assets
Dr. Gary Kessler, Professor of Cybersecurity, Embry-Riddle Aeronautical University

5:35 PM SESSION 4: Q & A

5:50 PM
Closing Remarks
Thane Gilman, Workshop Chairman

5:55 PM WORKSHOP ADJOURNS

6:00 PM RECEPTION