

TRANSPORTATION RESEARCH BOARD

MARINE BOARD SPRING MEETING

June 7-9, 2016

National Academy of Sciences Jonsson Center

314 Quissett Ave, Woods Hole, MA 02543

Wednesday, June 8

8:00 a.m. **Breakfast – Jonsson Center Dining Room**

Navigation Technology – Current State, Future Possibilities, Gaps and Barriers

JONSSON CENTER – Carriage House

8:30 a.m. **Call to Order / Self-Introductions**
Vice Admiral Jim Card, USCG Ret. – Marine Board Chair

8:35 a.m. **Topic Introduction**
Rear Admiral Dick West, USN Ret. – Session Presider

8:45 a.m. **Expert Perspectives**

U.S. Navy Perspective (20 minutes)

Captain Joe Reason
Program Officer for Navigation Technology
United States Navy - NAVSEA

U.S. Coast Guard Perspective (20 minutes)

Captain Scott Smith
Chief, Navigation Systems
United States Coast Guard

NOAA Perspective (20 minutes)

Rear Admiral Gerd F. Glang
Director, Office of Coast Survey
National Oceanic and Atmospheric Administration

DOT Perspective (20 minutes)

Ms. Karen VanDyke
Director, Office of Positioning, Navigation, and Timing (PNT)
U.S. Department of Transportation

Academic and Vessel Operations Perspective (20 minutes)

Captain Thomas Bushy
Vice President for Marine Operations
Massachusetts Maritime Academy

- 10:30 a.m. **Break**
- 10:45 a.m. **Discussion – Panel questions each other, Board questions panel, Public questions**
Facilitated by Rear Admiral Dick West, USN Ret.
- 11:55 a.m. **Next Steps and Closing Remarks**
- Noon **Lunch – Jonsson Center Dining Room**
- 1:15 p.m. **Car pools depart for Woods Hole Oceanographic Institute**

Technical Tour: Woods Hole Oceanographic Institute

86 Water St, Woods Hole, MA 02543

- 1:45 PM **Tour begins at Institute**
- 1:45 – Rob Munier, Vice President for Marine Facilities & Operations (Smith Conf Room)
 - 2:30 – Dana Yoerger, Senior Scientist, Applied Ocean Physics & Engineering
 - 3:15 – Dick Pittenger, Neal Armstrong Ship Tour
 - 4:00 – Hovey Clifford, Dock Tour with stop in REMUS Lab
 - 5:00 – Tour Adjourns
- 5:30 PM **Reception at National Academies Jonsson Center**
314 Quissett Ave, Woods Hole, MA 02543
- 6:30 PM **Reception Adjourns**
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Thursday, June 9

7:45 a.m. **Breakfast – Carriage House**

Marine Board – Day Two

JONSSON CENTER – Carriage House

8:00 AM **Marine Board Sponsor Reports – Part 1** (10 minute briefs from each sponsor)

- USCG – Captain Scott Smith
- USACE – Kevin Knight
- NOAA – LCDR Meghan McGovern

8:40 AM **Debriefing Discussion on Navigation Technology - Identify Next Steps**

Led by Rear Admiral Dick West and Vice Admiral Jim Card

9:40 AM **Marine Board Sponsor Reports – Part 2** (10 minute briefs from each sponsor)

- MARAD – Todd Ripley
- SupSalv – Captain Dan Eldridge
- ONR – Thomas Fu

10:20 AM **Break**

10:35 AM **Autonomous Vessels: Classification Society Perspective**

John Jorgensen, American Bureau of Shipping

10:55 AM **Autonomous Vessels Discussion: Marine Board Engagement**

12:15 PM **Public Meeting Adjourns**