Partnering for Safe, Secure, and Resilient Port Operations

15th Biennial Harbor Safety Committee and Area Maritime Security Committee Conference

Philadelphia, Pennsylvania

August 25–27, 2014

Organized by
Transportation Research Board
Mariners’ Advisory Committee for the Bay & River Delaware
# Schedule at a Glance

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<tr>
<th>Monday, August 25</th>
<th>Tuesday, August 26</th>
<th>Wednesday, August 27</th>
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<tbody>
<tr>
<td><strong>7:30 a.m.</strong></td>
<td><strong>7:30 a.m.–8:30 a.m.</strong></td>
<td><strong>Breakfast</strong></td>
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<td><strong>8:00 a.m.</strong></td>
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<td>Grand Ballroom BCD</td>
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<tr>
<td><strong>5:00 p.m.</strong></td>
<td><strong>Welcome Reception and Opening of Exhibits and Posters</strong></td>
<td><strong>Offsite Social Event at Moshulu</strong></td>
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<tr>
<td><strong>5:30 p.m.</strong></td>
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<td>5:00 p.m.–6:30 p.m. Grand Ballroom BCD</td>
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**Registration (1:30 p.m.–5:30 p.m.)**

**Breakout Session**

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<thead>
<tr>
<th>3A: Safety</th>
<th>4B: Security</th>
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<tr>
<td>P.O.R.T.S.</td>
<td>Maritime Commerce and Offshore Energy: How We Can Coexist</td>
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<tr>
<td>Grand Ballroom A</td>
<td>Grand Ballroom A</td>
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**Exhibits and Posters (7:30 a.m.–3:30 p.m.)**

**Morning Break and Exhibits**

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<th>10:00 a.m.–10:30 a.m.</th>
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<td>Grand Ballroom BCD</td>
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**Opening Session: Partnering for Safe, Secure, and Resilient Port Operations**

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<th>8:30 a.m.–10:00 a.m.</th>
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<td>Grand Ballroom A</td>
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**Exhibitor Setup**

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**Breakout Sessions**

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**5A: Safety**

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<td>AMSC Governance: An Information-Sharing Event Columbus AB</td>
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**5B: Security**

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<td>Columbus AB</td>
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**Plenary Session: Training and Exercises—A Frank Discussion**

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**Plenary Session: The Future of Navigation—Bringing America's Waterways into the 21st Century**

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**Closing Session**

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**Lunch**

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**Exhibitor Breakdown**

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</table>
This conference would not have been possible without the combined efforts of many individuals and agencies. Special acknowledgment is given to the Mariners’ Advisory Committee for the Bay & River Delaware and the Maritime Exchange for the Delaware River and Bay for their extraordinary efforts planning this event.

**Conference Chair**
Capt. Stephen A. Roberts, Mariners’ Advisory Committee for the Bay & River Delaware

**Conference Planning Committee Members**
Lt. Cdr. James R. Bigbie, U.S. Coast Guard
Mary Ann Bucci, Port of Pittsburgh Commission
Kurt Ferry, Greenwich Terminals
Capt. Stuart Griffith, Pilots’ Association for the Delaware River & Bay
Lisa Himber, Maritime Exchange for the Delaware River and Bay
Capt. Jonathan Kemmerley, Mariners’ Advisory Committee for the Bay & River Delaware
Rajiv Khandpur, U.S. Coast Guard
Andrew McGovern, Sandy Hook Pilots Association
Ryan F. Owens, U.S. Coast Guard
Jill Roberts, Mariners’ Advisory Committee for the Bay & River
Capt. James Roche, Pilots’ Association for the Delaware River & Bay
Lt. Veronica Smith, U.S. Coast Guard
Dennis Tully, Ronin Security Solutions

**TRB Staff**
Scott Brotemarkle
Brittney Gick

**Special Thanks To**
Cape May–Lewes Ferry
Delaware River Docking Pilots
Hueber Launch Service
JTR Solutions
Maritime Exchange for the Delaware River & Bay
McAllister Towing of Philadelphia, Inc.
Moran Philadelphia
Nicom IT
Pilots’ Association for the Bay & River Delaware
Ransome CAT
Reeves McEwing, LLP
Securitas USA
The Docking Pilots Association, LLC
The Vane Brothers Company
Urban Engineers
Wilmington Tug, Inc.

for supporting the Tuesday evening offsite event at Moshulu.
SUPPORTERS

GOLD
JTR Solutions
L-3 Communication Systems
Pilots’ Association for the Bay & River Delaware

SILVER
American Pilots’ Association
Greenwich Terminals/Holt Logistics
Moran Towing
Port of Pittsburgh Commission
PortVision/Oceaneering
Sandy Hook Pilots Association

BRONZE
Association of Maryland Pilots
Maritime Exchange for the Delaware River and Bay
Mariners’ Advisory Committee for the Bay & River Delaware
Marine Exchange/Harbor Safety Committee of Puget
Marine Rescue Technologies
National Oceanic and Atmospheric Administration, National Ocean Service
Observation Technologies
Philadelphia Regional Port Authority
South Jersey Port Corporation
University of Findlay/Rural Domestic Preparedness Consortium
Mutualink
Gahagan & Bryant Associates, Inc.
Delaware River and Bay Authority
U.S. Army Corps of Engineers, Philadelphia District
Welcome to Philadelphia!

On behalf of the Ports of Philadelphia and the Delaware River, the Sector Delaware Bay Area Maritime Security Committee (AMSC), and the Mariners Advisory Committee, I am pleased to welcome you to the 15th Biennial Joint AMSC–National Harbor Safety Conference. Our theme, “Partnering for Safe, Secure, and Resilient Port Operations,” speaks to concerns that everyone has for their own ports. We have put together a comprehensive agenda that looks at many important issues currently facing the port system, including port resiliency, the Physical Oceanographic Real-Time System, offshore energy development, security technology, and the future of navigation—all relevant subjects in today’s operating environment.

After the close of sessions on Tuesday, August 26, please join us on the Moshulu, the world’s largest tall ship still afloat, for an evening celebrating the hard work and dedication of our Harbor Safety Committees and AMSCs along with the 50th anniversary of the Mariners’ Advisory Committee.

I would like to extend my deepest appreciation to our conference planning committee, the Transportation Research Board, Sector Delaware Bay, and the U.S. Coast Guard for all of their hard work and dedication. Thanks to all of the panelists for providing their insight. I would especially like to express my sincere gratitude to our event’s public and private sponsors. Without their support, this conference would not have been possible. Please be sure to visit their booths between sessions.

We hope that you find the conference informative and that you enjoy your stay in Philadelphia.

—Stephen A. Roberts
Mariners Advisory Committee
Conference Chair


Poster Presenters

Tracking Traffic Trends with Geographic Information Systems
Meridena Kauffman and Matt Edwards, U.S. Coast Guard

Maritime Suspicious Activity Reporting Initiative
Keith Holden, Strategic Solutions Group
The Virginia Maritime Association (VMA) is hereby recognized as the 2011 Harbor Safety Committee of the Year. In 2011, the VMA was highly effective in improving maritime safety significantly in and around the port of Hampton Roads, Virginia—one of the nation’s most dynamic and significant economic and military ports—by promoting collaboration and partnership between government and industry.

The VMA was involved in many interagency, industry, and stakeholder events throughout 2011 that directly improved safety, interagency cooperation, and industry relations. VMA stakeholders, the Virginia Port Authority (VPA), and the U.S. Coast Guard hosted a five-day forum that included marine search-and-rescue training for 80 first responders from 20 jurisdictions. This improved interagency cooperation, increased search effectiveness, and enhanced crew safety and coordination. The VMA sponsored an Annual Towing Vessel Safety Seminar, attended by more than 1500 mariners, that resulted in a better-trained and better-equipped regional towing vessel industry and fostered relationships and coordination with regulators. The VMA, along with many federal and state agencies, sponsored the 20th Annual Marine Firefighting Symposium in the Norfolk, Virginia, area. This symposium familiarized land-based firefighters and marine professionals with maritime emergency procedures, resulting in improved interagency cooperation, increased marine firefighting effectiveness, and enhanced crew safety and coordination. The VMA also hosted a briefing that gave the U.S. Coast Guard Captain of the Port a forum to inform local stakeholders on potential wind farm developments and its potential impacts on navigation safety while allowing the VMA to provide concerns about the study and recommendations regarding vessel routing measures.

In preparation for the 2012 Operation Sail and War of 1812 Bicentennial Celebration, the VMA and U.S. Coast Guard stakeholders developed a robust Incident Command System organization and plan that directed 24 government agencies and more than 30 law enforcement boat crews to protect this nationally significant marine event. The celebration, which involved 1.5 million people and more than 1,000 vessels and which brought $120 million to the region, was recognized as one of the safest marine events on record.

Marine transportation system subcommittees of the VMA have been extremely effective in balancing the interests of commercial, military, and recreational waterway users. This was evident in the aftermath of Hurricane Irene, which closed the port of Hampton Roads and caused the largest U.S. Naval fleet sortie since September 11, 2001. Despite extensive impacts to navigational channels, piers, facilities, and intermodal transportation infrastructure, the port was seamlessly surveyed, reopened, and reconstituted in a matter of hours, garnering national attention.

The exceptional actions and distinguished service of the VMA reflect the strong support and teamwork of both government and industry. The VMA’s efforts are most heartily commended and are in keeping with the highest traditions of maritime service and industry.

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**2012–2013 Harbor Safety Committee of the Year Nominees**

Puget Sound Harbor Safety Committee  
San Francisco Bay Area Harbor Safety Committee  
Maritime Navigation Safety Association, Inc.  
Lone Star Harbor Safety Committee  
Port of Baltimore Harbor Safety and Coordination Committee  
Massachusetts Bay Harbor Safety Committee
CONFERENCE SESSIONS

**Monday, August 25**

1:30 p.m.–5:30 p.m.  
Registration

5:00 p.m.–6:30 p.m. *Grand Ballroom BCD*  
Welcome Reception and Exhibits

**Tuesday, August 26**

7:30 a.m.–5:00 p.m.  
Registration

7:30 a.m.–8:30 a.m., *Grand Ballroom BCD*  
Breakfast and Exhibits

7:30 a.m.–3:30 p.m., *Grand Ballroom BCD*  
Exhibits and Posters

8:30 a.m.–10:00 a.m., *Grand Ballroom A*  
Opening Session  
**Partnering for Safe, Secure, and Resilient Port Operations**

- Capt. Kathy Moore, U.S. Coast Guard Sector Delaware Bay
- Rear Adm. Stephen P. Mettruck, Commander, Fifth Coast Guard District, U.S. Coast Guard
- Capt. Jonathan Kemmerley, Mariners’ Advisory Committee for the Bay & River Delaware
- James Prazak, Tricon Energy, Ltd., Chemical Transportation Advisory Committee, Lone Star Harbor Safety Committee

10:00 a.m.–10:30 a.m., *Grand Ballroom BCD*  
Morning Break and Exhibits

10:30 a.m.–Noon, *Grand Ballroom A*  
Plenary Session  
**Desperately Seeking Resiliency**  
Lynn Korwatch, Marine Exchange of the San Francisco Bay Region, *moderator*

Whether it is facing a weather event, a cyberattack or failure, or an accident that shuts down port operations, a port must ensure a return to normalcy as quickly as possible. Designed for both AMSC and Harbor Safety Committee (HSC) members, discussions will focus on resiliency planning initiatives, federal efforts to assist states and stakeholders, and lessons learned from those who have successfully emerged from maritime incidents.

- Ryan F. Owens, U.S. Coast Guard
- Capt. Kathy Moore, U.S. Coast Guard
- Andrew McGovern, Sandy Hook Pilots Association
- Bill Ryan, U.S. Department of Homeland Security
Noon–1:30 p.m., Grand Ballroom BCD  
Luncheon Keynote Address and Awards Ceremony  
Vice Adm. Charles D. Michel, Deputy Commandant for Operations, U.S. Coast Guard

1:30 p.m.–3:00 p.m.  
Breakout Sessions

3A: Safety, Grand Ballroom A  
PORTS  
Capt. Stephen A. Roberts, Mariners’ Advisory Committee for the Bay & River Delaware, moderator

The National Oceanic and Atmospheric Administration (NOAA) Physical Oceanographic Real-Time System (PORTS), is the go-to place for real-time weather and tide and current data. Primarily envisioned for mariners, PORTS data are used by port authorities, emergency management agencies, academics, water resource managers, and members of the general public. Its value to a port is immeasurable, both as an economic engine and a safety enhancement. This panel will explore how PORTS is used and how its future funding can be ensured.

- Darren Wright, NOAA
- Lisa Hummon-Jones, Office of U.S. Senator Chris Coons (D-Del.)
- Capt. Ward Guilday, Pilots’ Association for the Bay & River Delaware
- John Yagecic, Delaware River Basin Commission

3B: Security, Columbus AB  
Challenges to Regional Initiatives  
Kurt Ferry, Holt Logistics Corporation; Lisa Conte, New Jersey Office of Homeland Security and Preparedness; Paul Myhre, Maritime Exchange of the Delaware River and Bay; Scott Brotemarkle, TRB, facilitators

This is not your average panel discussion: all registered attendees will participate in a conversation on challenges we all face, from risk mitigation plan implementation to intelligence sharing, cross-jurisdictional programs, management of regional projects, and problems with signing memoranda of understanding (MOUs). The goal is to learn what works and what doesn’t and to share this with AMSCs across the country. Topics include project implementation, proposed resource management plan and special recreation management plan implementation, intelligence sharing, cross-jurisdictional sharing, volunteerism, and MOUs.

3:00 p.m.–3:30 p.m., Grand Ballroom BCD  
Afternoon Break and Exhibits

3:30 p.m.–5:00 p.m.  
Breakout Sessions

4A: Safety, Grand Ballroom A  
Maritime Commerce and Offshore Energy: How We Can Coexist  
Kris Ohleth, MARCO, moderator

Ships have plied the coasts for hundreds of years via traditional shipping lanes that are based on efficiency and safety. As the nation looks to the sea for renewable energy sources to meet its ever-growing energy needs in an environmentally sound manner, wind energy generation projects bloom off the coasts. Increases in ship traffic and more wind energy areas competing for the same acreage create a recipe for disaster. This panel will explore each industry’s needs and take a look at how we can share our coastal waters.
4B: Security, Columbus AB

Securing Our Ports Through Technology

Michael Fink, Maritime Exchange of the Delaware River and Bay, moderator

Cybersecurity is gaining increased attention at U.S. ports, and it is only one of the many technology issues that port stakeholders face. Panelists will address systems integration, collaboration, and partnerships to leverage existing systems and to eliminate redundant regional information technology initiatives, information sharing, and other topics relevant to port communities.

- Louis Noriega, APS Port Solutions
- Cdr. Nicolas Wong, U.S. Coast Guard
- Rex Woodward, Port of Pittsburgh
- Eric Schaeffer, Advantech, Inc.

6:00 p.m.–9:00 p.m.

Offsite Social Event at Moshulu

The Pilots’ Association for the Bay & River Delaware and conference host, the Mariners Advisory Committee for the Bay and River Delaware, in conjunction with the 2014 National Harbor Safety Conference, invite you to enjoy an evening of appetizers, hors-d’oeuvres, and cocktails aboard the sailing ship Moshulu, the world’s oldest and largest four-masted tall ship still afloat. Overlooking Philadelphia’s skyline and waterfront, this unique culinary landmark is just a quick 5-minute stroll from the Hyatt along the Penn’s Landing inner basin.

Wednesday, August 27

7:30 a.m.–8:30 a.m., Grand Ballroom A

Breakfast

7:30 a.m.–Noon

Registration

8:30 a.m.–10:00 a.m.

Breakout Sessions

5A: Safety, Grand Ballroom A

Pilot Commissions: Compositions, Responsibilities, and Roles in Harbor Safety

Paul Kirchner, American Pilots Association, moderator

- John F. Hassel III, Commission of Pilotage for the Lower Coastal Area, Charleston, South Carolina
- Robert B. Schulman, Maryland State Board of Pilots
- Carolyn J. Kurtz, Florida Board of Pilot Commissioners
- Todd Haviland, Office of Great Lakes Pilotage, U.S. Coast Guard
5B: Security, Columbus AB
AMSC Governance: An Information-Sharing Event
Jim Walsh, Philadelphia Regional Port Authority, moderator
Bob Ward, U.S. Coast Guard, Sector Delaware Bay, and Lisa Himber, Maritime Exchange of the Delaware River and Bay, facilitators

This session will be an open discussion on AMSC processes, staff support, committee structure, membership sustainment, port security grant project prioritization, topics and formats of AMSC meetings, and mechanisms for AMSC networking.

10:00 a.m.–10:30 a.m., Grand Ballroom BCD
Morning Break

10:30 a.m.–Noon, Grand Ballroom A
Plenary Session
Training and Exercises: A Frank Discussion
Dennis Tully, Ronin Security Solutions, moderator

Training and exercises are more than important—they are required. While every exercise is beneficial and always has some excellent takeaways, sometimes shortcomings in exercise planning, design, or execution result in less-than-optimal results. This panel, a joint Harbor Safety Committee–AMSC session, will pinpoint deficiencies and will identify ways to minimize these shortcomings—or even eliminate them—in the future.

- Frank Fiurnano, U.S. Coast Guard, Sector New York
- William T. Robinson, PBF Energy
- Brian Onieal, New Jersey Office of Homeland Security
- Joseph Sullivan, Philadelphia Police Department
- Allen Huelsenbeck, Wilmington Fire Department

Noon–1:30 p.m., Grand Ballroom BCD
Lunch

1:45 p.m.–3:15 p.m., Grand Ballroom A
Plenary Session
The Future of Navigation: Bringing America’s Waterways into the 21st Century
Capt. Scott Smith, U.S. Coast Guard, moderator

The U.S. Coast Guard, U.S. Army Corps of Engineers, and NOAA, in coordination with the Committee on the Maritime Transportation System, have begun an initiative to bring America’s waterways into the 21st century. These federal agencies and others are working on technological solutions that will help mariners receive and transmit data to improve information critical to navigation and navigational safety. The agencies are committed to designing and implementing federal navigation safety systems that leverage the benefits of electronic technologies in order to fully meet current future navigation requirements and bring America’s waterways into the 21st century.

- Capt. Scott Smith, U.S. Coast Guard
- Capt. Shep Smith, NOAA
- Jeff Lillycrop, U.S. Army Corps of Engineers
- Jorge Viso, Tampa Bay Pilots, American Pilots Association
- L. Dan Maxim, Everest Consulting Associates

3:15 p.m.–4:00 p.m., Grand Ballroom A
Closing Session
Rear Admiral Gerd F. Glang, Office of Coast Survey, NOAA
Transportation Research Board is one of six major divisions of the National Research Council, which serves as an independent adviser to the federal government and others on scientific and technical questions of national importance. The National Research Council is jointly administered by the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine. The mission of the Transportation Research Board is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal. The Board’s varied activities annually engage about 7,000 engineers, scientists, and other transportation researchers and practitioners from the public and private sectors and academia, all of whom contribute their expertise in the public interest. The program is supported by state transportation departments, federal agencies including the component administrations of the U.S. Department of Transportation, and other organizations and individuals interested in the development of transportation. www.TRB.org