2023 FERRY SAFETY + TECHNOLOGY CONFERENCE



SSG Michael H. Ollis | photo courtesy of NYDOT


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Convened by the Worldwide Ferry Safety Association

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Welcome

2023 FERRY SAFETY + TECHNOLOGY CONFERENCE

Dear colleagues,

We are thrilled to be able to see you all in person.

Welcome back to the Ferry Safety and Technology Conference, a conference as mission-oriented as the Worldwide Ferry Safety Association that sponsors it. Our mission to expand the use of safe ferries all over the world. We work in the arena of technology, to advance safety in all its manifestations – vessel design, vessel maintenance, human error, and weather detection. This year we took a quantum leap into electrification – supporting and promoting it while gaining understanding of safety issues.

That being said, our fervent wish for you who are attending, is that you get new insights for your work, and that your encounters yield success going forward.

Roberta



George Weisbrod © 1950

Program Events Schedule

Tuesday April 25, 2023

6:00 – 7:30 PM **Speakers and Sponsors Dinner**

Wednesday April 26, 2023

Waterfront Museum barge, Red Hook

8:00 - 9:00 a.m. **Registration and Breakfast**

9:00 - 9:15 a.m. **Introduction: Setting the Agenda**
Joseph Hudspeth, Global Marine at BAE Systems

9:15 - 10:40 a.m. **Panel 1: Zen and the Art of Ferry Maintenance**
Moderator, Capt. James DeSimone, former COO Staten Island Ferry, Maritime Consultant

Holistic Vessel Safety: A By-Product of Mature maintenance, Keegan Plaskon, ABS

Maintenance for the Delaware River Bay Authority, Michael Lynch

The Hornblower Group Maintenance System, Davi Smyth

The Staten Island Ferry Way, John Collins

New York Waterway maintenance operations, Alan Warren

The Bridgeport – Port Jefferson system, Buckley McAllister

10:40 - 10:50 a.m. **Coffee Break**

10:50 - 12:15 p.m. **Panel 2: The Human Factor: In-depth understanding of error and how to prevent it**
Moderator, Mary Ann Pastrana, Chairperson, Archipelago Ferries, Philippines

Global Insight, Daryl Attwood, Lloyd's Register Foundation

SAFE MODE, in depth parsing of human error, a EU Project, Aleik Nurwahyudy, KNKT, Indonesia

Safe MTS a near miss reporting system for the maritime industry, Kevin Kohlman, MARAD

Global survey maritime training, Greg Trauthwein, New Wave Media

12:15 - 1:30 p.m. **Lunch**

1:30 - 2:45 p.m. **Panel 3: Mobile Maritime Weather Network: Why Needed and How to Accomplish**
Moderator, Roberta Weisbrod, Ph.D, Executive Director, Worldwide Ferry Safety Association

Understanding Maritime Weather in the Here and Now, Joseph Sienkiewicz, NOAA

Sudden Hazardous Weather and Accidents, Keith Fawcett, USCG

Using Automated Weather Stations: heads up on hazardous weather, Greg Johnson, SERCO

Testing the system in Indonesia, Aleik Nurwahyudy, KNKT

2:45 - 3:00 p.m. **Coffee Break**

3:00 - 4:45 p.m. **Panel 4: Electrification**
Moderator, John Waterhouse, Elliott Bay Design Group

Shoreside Infrastructure, Andy Bennett, KPFF

Integrated Electrical Systems for Small Passenger Ferry Operations, Dave Adams, Wartsila

It's all about the Batteries, Jon Diller Spear Power

Implementing electric ferry service, Ed Schwarz, ABB TBC

TBD, Michael J. Foster, Senseco Marine

5:00 -5:15p.m. **Keynote Speaker: USCG Commander Eustacia Weist**

5:15 - 6:100p.m. **Student Awards Ceremony**

Captain Nurur Rahman, Hannur Maritime Consultants, and WFSA Board Member

Student awardees, 10th International Design Competition for a Safe Affordable **Electric** Ferry for the Pasig River of Manila

6:00 - 7:30 p.m. **Reception; and Music by the New Yellers,**
with Buckley McAllister on the guitar

Friday April 27, 2023

Multiple venues

8:00 - 10:30 a.m. **Whitehall Staten Island Ferry Office** (Breakfast) ID required

Captain John Garvey, Deputy Commissioner for Ferries & Chief Operations Officer for the Staten Island Ferry, the busiest ferry route in the US and the world's busiest passenger-only ferry system, "Challenges and Opportunities"

Forum. *Implications of the new: electrification, more waterborne, more AI, fiercer weather. Operators, shipbuilders ship-repairers, vendors.*

Dr. Habib Dagher, U Maine, World's largest 3D printed boats (virtual)

Harry Boardsen, President and CEO, Bridgeport Boatworks

10:00- 11:30 a.m. **Waterborne tours:**
Staten Island Ferry round trip on the VIP deck
Walk to the Wall Street Pier 11

12:00 p.m. — *Take NYC Ferry*
Round trip Wall Street Pier 11 to Rockaway
(Lunch on our own at The Wharf)

Speaker Biographies



Dave Adams is the Senior Sales Manager in Wärtsilä Marine Solutions. He is responsible for promotion of the Wartsila marine product line on the West Coast of North America. Most recently he has been involved in the development and supply of hybrid and electrical systems for the passenger vessels. Mr. Adams holds a BSc, Physics and has been active in aviation and maritime high technology markets for over 30 years. For the past 15 years he has concentrated on maritime power, propulsion and control technologies.



Daryl Attwood, Daryl has worked for Lloyd's Register for 32 years, currently in London as a director for several LNG projects and as a Senior Manager for the LR Foundation, with areas of interest in fishing and domestic passenger ferry safety. Born in Canada, Daryl holds an MSc in iceberg motion and a PhD in safety technology. He has published a book on industrial accident frequency and a chapter on safety regulation.



Andrew K. Bennett, PE Andy is a principal at KPFF and an MIT-trained naval architect with a graduate degree in Coastal Zone Management. He has over 30 years of experience that includes most major ferry systems in North America. Andy's broad background in planning, design, and engineering helps him facilitate the communication between operators, engineers, contractors, stakeholders, and the general public necessary for successful project delivery.



Harry Boardsen is the owner of the Bridgeport Boatworks and General Manager of Seaport Marine Inc.



John Collins is the Director of Ferry Engineering for the Staten Island Ferry where he has worked for over 17 years, responsible for all aspects of engineering and technical oversight for a fleet of ferries, support vessels, and facilities, including new vessel construction projects to pier reconstructions, to maintenance, repair, and drydocking of the ferry fleet. He is also responsible for the implementation and ongoing application of vessel maintenance initiatives, focusing on increased reliability and lowered downtime



Dr. Habib Joseph Dagher, P.E. is the founding Executive Director of the Advanced Structures and Composites Center at the University of Maine. A national treasure, Dr. Dagher has an extraordinary record developing new technologies including floating wind turbine technology; a bridge in a box; and the largest 3 D printed boat (2019 Guinness Book of World Records) and the yet larger carbon-fiber composite vessel built for the US Navy, an 83 ft long high-speed interceptor. Dr. Dagher holds more than 80 patents, has over 100 publications, and has received numerous awards, including: the 2015 White House Transportation Champion of Change.



Captain James C. De Simone is a graduate of the State University of New York Maritime College Upon graduation, he went to sea serving in all shipboard capacities from Third Mate up to and including Master, and as port captain for various cargo interests. Following his seagoing career, he served on the administration of the Maritime College and in senior management positions in the high-speed ferry and towing and transportation sectors of the maritime industry. He retired in 2020 from the New York City Department of Transportation after almost 17 years as Deputy Commissioner Ferry Division. Captain DeSimone holds a master's degree from Manhattan College, a bachelor's degree from the Maritime College, a Professional Certificate in Chartering from the Association of Shipbrokers and Agents and a United States Coast Guard License as Master of Self-Propelled Motor Vessels of Any Gross Tons upon Oceans. He is a member of the American Bureau of Shipping, National Cargo Bureau, Society of Maritime Arbitrators New York, Worldwide Ferry Safety Association, and the National Academy of the Sciences Ferry Committee.



Jon Diller is the Commercial Director at Spear Power Systems, a Kansas City-based maker of lithium ion batteries. His team helps customers in the aerospace, marine, and defense industries through sales, marketing, applications engineering, and service. He has a background in international business and routinely speaks at key industry conferences. He lives, or at least keeps his luggage, in Kansas City.



Keith Fawcett is a Marine Accident Investigator at the Coast Guard's Investigations National Cen-ter of Expertise. His focus is the human factors that cause accidents. In 2015, Mr. Fawcett received the USCG Sener Award for his work in the Mobile Offshore Drilling Rig Kulluk Grounding Investigation. He also served on the USCG Commandant Marine Board of Investigation (MBI) for the sinking of the SS El Faro in Hurricane Joaquin in 2015.



Captain John Garvey is the Deputy Commissioner for Ferries and the Chief Operations Officer for the Staten Island Ferry at NYC DOT. In this role, Captain Garvey provides oversight for all aspects of design, construction, maintenance and repair, operation, and administration of the nation's largest passenger-only ferry system, as well as the City Island Ferry which provides service for the city's burial services on Hart Island.



Joe Hudspeth is with BAE Systems and is the Global Marine Director of Business Development for the Power and Propulsion Solutions division. BAE Systems offers complete, efficient propulsion and auxiliary power systems. Hudspeth currently serves as a regional co-chairman for the Passenger Vessel Association, is a judge for the Worldwide Ferry Safety Association student design competition, and frequently speaks and writes on maritime and ferry related issues.



Greg Johnson is a Technical Program Manager at Serco, Inc. in the New London, CT office. His group focuses on electronic navigation and autonomous systems. Recently he has been working on projects in R-Mode, AIS, VDES, and autonomous vessels. He has a BSEE from the Coast Guard Academy (1987), a MSEE from Northeastern University (1993), and a PhD in Electrical Engineering from the University of Rhode Island (2005).

Dr. Johnson has over 25 years of experience in electrical engineering and R&D, focusing on communications, signal processing, and electronic navigation and has published over 100 technical papers. He is a member of the Institute of Navigation, the International Loran Association, the Institute of Electrical and Electronics Engineers, and the Armed Forces Communications Electronics Association. He retired as a Captain in the U.S. Coast Guard Reserves in 2014.



Kevin Kohlman, a 1988 graduate of Massachusetts Maritime Academy, sailed for Exxon/ SeaRiver Maritime aboard tankers for 12 years and earned the license of Master Mariner, Unlimited Tonnage. Kevin then worked for Military Sealift Command in the operations division; as Safety Manager he was responsible for the safety of 5,800 mariners. Kevin is currently the Director of Safety at the Maritime Administration, identifying maritime industry safety issues and working for solutions.



Michael Lynch is the Port Engineer for the Delaware River and Bay Authority at the Cape May Lewes Ferry with progressively more advanced responsibilities for the past 4+ years. He manages the engineering systems onboard and the drydock evolutions. He is a SUNY Maritime graduate.



Brian Buckley Anthony McAllister is the President of McAllister Towing and the Bridgeport and Port Jefferson Steamboat Company. Founded in 1864, McAllister Towing is one of the oldest and largest maritime transportation companies in the United States. The company owns and operates nearly 100 vessels based in over a dozen ports from Eastport, Maine to San Juan, Puerto Rico. For more information, see www.mcallistertowing.com and https://88844ferry.com/ Mr. McAllister serves on the boards of the Steamship Mutual P&I Club, the Area Maritime Security Committee for the Port of New York and New Jersey, the Seamens Church Institute, and the Coast Guard Foundation. He is also a Member of the Maritime Association of the Port of New York and New Jersey and the American Bureau of Shipping. He served as Chairman of the American Waterways Operators 2013-2014. A graduate of Hamilton College and UC College of the Law, San Francisco, he is admitted to practice law in New York, California, and a number of federal jurisdictions.



Aleik Nurwahyudy is a marine safety investigator, Indonesia National Transportation Safety Committee. A member of the Marine Accident Investigator International Forum, he has a Master's Degree from World Maritime University on maritime safety, and a Naval Architecture and Marine Engineering degree from Sepuluh November Institute.



Mary Ann Pastrana, an entrepreneur who co-founded the Archipelago Group of Companies involved in Ferry and Port Operations, Manning Business, and Maritime Training. She and her husband Chet are pioneers in Domestic Shipping Modernization. An active member of the Lectors Ministry, Interferry, Women in Maritime Association, she recently achieved a Post Diploma Course in Executive Maritime Management at the World Maritime University.



Keegan Plaskon serves as ABS Director of Business Development for Eastern Americas, responsible for client development and strategic planning within the region. Prior to his current role, he worked as a Marine Surveyor in both the U.S. and South Korea. His 17 years at ABS range from survey of existing vessels to new construction for offshore vessels and drilling units. Before joining ABS, he sailed commercially as an Engineer and is a graduate of the U.S. Merchant Marine Academy and received his Master of Engineering from the University of Virginia.



Captain Nurur Asheque Rahman is an international Maritime Consultant. His last position has been the second in command to the Papua New Guinea Government's Flag Administration-National Maritime Safety Authority. He has sailed for 20+ years as a Nautical officer aboard most types of ocean-going vessels and a further 25 years in the maritime industry both from a ship manager's perspective as well as in an administrative and regulatory role. His international work covers stints in the United Kingdom, Australia, Hong Kong and in Papua New Guinea. For the last decade, Capt. Rahman has dedicated himself to championing the cause of Domestic Ferry Safety in developing countries and has actively contributed towards the drafting of IMO TC65 INF.12- "Safety of Ships carrying passengers on non-international voyage". He is currently providing his input for the IMO Model Regulations for Domestic Ferries. He is a member of the Board of the Worldwide Ferry Safety Association and a Judge of the WFSA International Student Design Competition for a Safe Affordable Ferry.



Ed Schwarz is responsible for ABB's Marine and Ports Marine Systems business for the Americas. With his experience in marine propulsion, Ed is passionate about bringing sustainable technologies to help decarbonize the maritime industry. His most proud project is the first all-electric zero emission vessels for the Maid of the Mist Corp. Ed is a graduate of the US Merchant Marine Academy, former MEBA Unlimited Chief Engineer and 2020 Real Admiral McCready Award recipient.



Joseph Sienkiewicz is Chief Concept Engineer, Chairman of the Board, and founding partner of Elliott Bay Design Group. With over 30 years of experience in naval architecture and marine engineering he has made significant contributions to the industry through innovative design and engineering achievement, working for the largest ferry systems in the US, as well as numerous others in the developed and developing world. Mr. Waterhouse has a BS in Mechanical Engineering from UC Berkeley and MS in Naval Architecture and Marine Engineering from MIT and is on the board of the Worldwide Ferry Safety Association.



Davi Smyth is the Director of Engineering at NYC Ferry, operated by Hornblower, where he has served for nearly two years. At NYC Ferry, Davi manages and oversees the maintenance of an industry-leading fleet of 38 vessels and related engineering operations and practices, including a world-class fluid analysis program honored by Polaris Labs' as winner of the 2022 Fluid Analysis Program Champion Awards. As a graduate of SUNY Maritime College with nearly 20 years of maritime industry experience both onboard vessels and ashore, Davi brings vast experience working on and maintaining a wide variety of vessels ranging from small charter vessels, paddle boats, oil tankers, training vessels, and oilfield support and supply vessels. He previously served as a Senior Lecturer in the Marine Transportation Department at SUNY Maritime College.



Gregory R. Trauthwein has covered the global maritime, offshore, subsea, ports & logistics markets for nearly 30 years. Today he is the President and COO of New Wave Media, a specialty b2b media company with four trade publications – Maritime Reporter & Engineering News, Offshore Engineer, Marine Technology Reporter & MarineNews – 10 websites, more than a dozen e-newsletters and 4 online "Web TV" channels serving the global maritime, offshore, subsea and energy sectors. Contact Greg at: trauthwein@marinelink.com; T: +1.516.810.7405



Alan Warren is the Vice President, for Operations and Maintenance for NY Waterway. The brevity of his bio is inverse to his achievements. Although Alan is modest, he is revered in New York/New Jersey harbor.



John Waterhouse is a founding partner of Elliott Bay Design Group and has over 40 years of experience in naval architecture and marine engineering. Throughout his career, he has made significant contributions to the marine industry through innovative design and engineering achievement. He has supported vessel operators and state agencies with feasibility and transportation studies, on-going engineering and maintenance work of their fleets, new vessel design and refurbishment, and the industry's current push to reduce marine pollutants.



Roberta Weisbrod, Ph.D. is Executive Director and a Founder of the Worldwide Ferry Safety Association. She has worked for governments and businesses on environmental, safety and economic development aspects of maritime transport and is the author of numerous papers.



Commander Staci Weist assumed the position of Chief of Vessel Inspections for the Port of New York and New Jersey in June of 2020. She is responsible for ensuring the safety, security, and environmental compliance of more than 900 cargo, industrial and passenger vessels in one of the Nation's busiest and most economically important port complexes. Prior to Sector New York, Commander Weist worked as the International Maritime Organization Coordinator for the United States, working closely with Coast Guard, Interagency and private/public sector experts to develop consistent international standards for shipping.

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The 47th Annual Interferry Conference will be held at the Hobart Convention and Exhibition Centre (HCEC). Located within the conference hotel – the Hotel Grand Chancellor Hobart – the HCEC is the largest purpose-built conference and events facility in Tasmania and promises to be a fantastic venue. Our event will offer many networking opportunities, and sponsors and exhibitors will enjoy a flexible and open exhibition area in which to display their products and services.

Check the conference website and our social media accounts for updates about registration; accommodations; speakers and sessions; networking and social events; and sponsorship.

InterferryConference.com Interferry @InterferryOrg



"On behalf of Spirit of Tasmania, I look forward to welcoming you to Hobart, Tasmania in November 2023 for the 47th Annual Interferry Conference."
Bernard Dwyer – CEO/MD, Spirit of Tasmania



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SHIP & BOAT INTERNATIONAL

Ship & Boat International is proud to be a media sponsor of the Worldwide Ferry Safety Association's 2023 annual conference, this year in NYC. Pub lished six times a year by the Royal Institution of Naval Architects (UK), we focus on the design, construction and operation of vessels sized 5-100m, including fast ferries, patrol & rescue boats, tugs, crewboats, fishing vessels and superyachts.

Our coverage is truly global, ranging from student design projects in South Asia to innovative offshore wind farm support vessels for North American and European waters. Subscribers include naval architects, boatbuilders, marine engineers, universities and OEMs.

We also regularly report on subjects such as: autonomous and uncrewed vessel tech; new methods of boosting ship safety and stability; plus eco-friendly 'alt-fuels' and electric propulsive solutions - all exciting aspects of today's fast-evolving maritime landscape.



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CONGRATULATIONS TO THE DESIGN COMPETITION AWARDEES

1st prize team
City University of Applied Sciences Bremen
Team Captain: Laurin Rösemeie

2nd prize team
University of Rostock
Team Captain: Mahmoud Reda ElSherif

3rd prize team
Department of Marine Engineering
Institut Teknologi Sepuluh Nopember Hochschule Wismar
Team Captain: Ipung Nur Wahyu Fadholi

Honorable Mention

University of Southampton
Team Captain: Stefan-Tiberiu Tudora

Bangladesh University of Engineering & Technology
Team Captain: Shaikha Shohuda Tuktuk

Mokpo National Maritime University
Team Captain: Maydison Lim

CONGRATULATIONS TO THE DESIGN COMPETITION AWARDEES



1st prize

City University of Applied Sciences Bremen

Captain: Laurin Rösemeie
Patrick Eymers, Omar Idrissi, Niklas Keen, Alicia Meyer, Jan-Lucas Zelenka

Faculty Advisors:
Prof. Dipl.-Ing. G. Schellenberger, Prof. Dr.-Ing. B. Hinrichsen,
Prof. Dr.-Ing. A. Kraus, Prof. Dr.-Ing. S. Sigmund

2nd prize

University of Rostock

Captain: Mahmoud Reda ElSherif
Muhammad Maaz Abbasi, Gamaralalage Ravindu Udayanga Senavirathna,
Josipovic Marko, Abhiram Kakkollil Rajan

Faculty Advisors:
Dipl.-Ing. Kistner Gunnar, M.Sc. Sponholz Iven,
M.Sc. Zhang Junheng

3rd prize

Department of Marine Engineering
Institut Teknologi Sepuluh Nopember Hochschule Wismar

Captain: Ipung Nur Wahyu Fadholi
Joel Herdian Seciawanto, Muhammad Raffi Adhitama, Dewantoro Abimanyu,
Ari Nur Setyanto, I Wayan Attita Dharma Thandava, Alfian Faturrachman,
Nita Wahyuni Dwi Puspitasari, Muhammad Alfaridzi Rizqulloh, Steeven Ramzy Albert Sirait

Faculty advisor:
Dr. Ir. Agoes Santoso, M.Sc., M.phil.,
Dr. Achmad Baidowi, ST., MT.

Extra Special Thanks

To the Sponsors of the Design Competition
who not only provided funds, but also gave their expertise,
and time to provide guidance,
participating in electrification tutorial webinars
(YouTube) and patiently answered questions fielded
to them from students

Jon Diller. Spear Power

Ed Schwarz, ABB

John Waterhouse, Elliott Bay Design Group

To the judges for their outstanding efforts
in reviewing each design submission

Sammuel Lim, SONAME Philippines

who designed the specifications for the Pasig River ferry

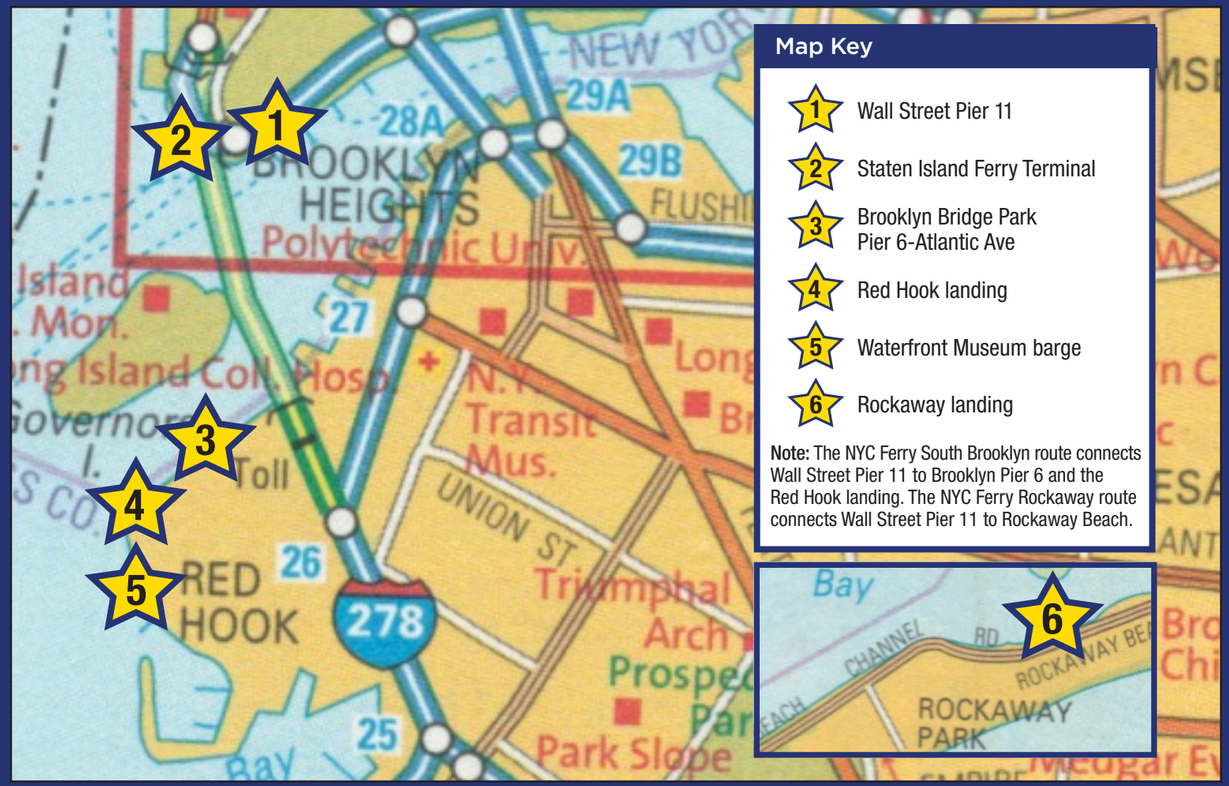
Nurur Rahman, Hannur Maritime, Australia

Aleik Nurwahyudy, Indonesia

Joseph Hudspeth, US

Charles R. Cushing, US

Inderveer Solanki, India



Map Key

1. Wall Street Pier 11
2. Staten Island Ferry Terminal
3. Brooklyn Bridge Park Pier 6-Atlantic Ave
4. Red Hook landing
5. Waterfront Museum barge
6. Rockaway landing

Note: The NYC Ferry South Brooklyn route connects Wall Street Pier 11 to Brooklyn Pier 6 and the Red Hook landing. The NYC Ferry Rockaway route connects Wall Street Pier 11 to Rockaway Beach.



Ride the Staten Island Ferry!

Illustration courtesy of Bowsprite | Christina Sun

Mobile Maritime Weather Network
Join with us

Hazardous weather events are becoming more severe, more frequent, and move more rapidly. And, patterns for extreme weather conditions have changed—when and where they occur. Our tools are not adequate. Satellites require ground truthing to correct their inaccuracies and lack of resolution. The in situ,at sea, weather resources available are meagre. There are less than 3000 Voluntary Observing Ships. Weather buoys are largely limited to near shore and shallow waters although there is a newer generation of floating buoys.

A low-cost solution (approximately the cost of cell phone) that could throw a net over the sea is the use of Automated Weather Stations connected to the vessel's AIS so they text out weather information to vessels in VHF range and to the national weather services.

Many recognize the lack of vitally needed in situ maritime weather information, so we are establishing a weather Information sharing association of mariners, weather professionals, academic researchers, and technology vendors and service providers.

If interested in joining with us, contact Roberta Weisbrod at ferrysafety@gmail.com

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www.flickr.com/photos/mitchwaxman

Many thanks to Mitch Waxman, photographer
for his generous support of the WFSA



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To the Royal Institution of Naval Architects – Lloyd's Register

for bestowing on Worldwide Ferry Safety Association The Maritime Safety Award on November 2022

To the Lloyd's Register Foundation

for their research grants awarded to the Indonesia – WFSA team working on improving maritime weather predictions to prevent maritime accidents

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John Waterhouse, Elliott Bay Design Group

Roberta Weisbrod, Executive Director, Worldwide Ferry Safety Association

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