

## Meet the Presenters

### ***Edward Anthes-Washburn:***

Ed Anthes-Washburn is the Deputy Port Director at the Port of New Bedford, the nation's highest-valued fishing port. Over the last four years, he has led landside infrastructure projects that have provided significant savings for the port and its customers.

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### ***Austin Becker:***

Dr. Austin Becker is Assistant Professor of Coastal Planning, Policy, and Design at the University of Rhode Island (URI) He holds a joint appointment between the Departments of Marine Affairs and Landscape Architecture.

Austin works across the fields of planning, policy, engineering, design, and climate-change science. His research contributes to the untangling of complex problems involving uncertainty, consequences of large-scale shifts in climate over long time horizons, and the resulting challenges in policy and planning.

Dr. Becker's work is recognized globally and he is a regularly invited speaker at expert meetings of the United Nations Conference on Trade and Development (UNCTAD), the United Nations Economic Commission for Europe (UNECE), and the Joint Research Center of the European Commission, as well as numerous conferences in the United States.

He earned a *PhD in Environment and Resources* at Stanford University, a *Master of Marine Affairs* and *Master of Environmental Science and Management* at URI, and a *B.A.* at Hampshire College. His previous career was as a captain of educational vessels, including Rhode Island's *Continental Sloop Providence*. He maintains a 500-Ton U.S. Coast Guard captain's license for ocean-going vessels.

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### ***Jonathan Benvenuto:***

Jonathan Benvenuto is a Native of Rochester, NY, a 2007 graduate of the US

Coast Guard Academy with BS in Naval Architecture and Marine Engineering, served as Executive Officer & Deck Watch Officer aboard USCGC HOLLYHOCK from 2007 to 2009, Project Manager & Asset Manager for the Medium Endurance Product Line at the Surface Forces Logistics Center in Baltimore, MD from 2009 to 2012, Currently he is a MS candidate for Ocean Engineering with intent to graduate in 2014.

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***Ben Bryant:***

Ben Bryant joined Klüber Lubrication in 2011 as the Marine Market Manager, responsible for developing new business in the marine industry. Ben is a graduate of the Massachusetts Maritime Academy and holds a 1,600 ton Masters License with experience on oil tankers, offshore supply vessels, and tug and barge units. In 2009 he earned a Masters of Marine Policy from the University of Rhode Island and he holds a Masters in Business Administration from Boston College. Ben's primary focus at Klüber is to launch their new portfolio of environmentally acceptable lubricants for the marine industry. Ben has authored a number of articles explaining the proposed lubricant standards established in the 2013 vessel general permit.

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***Nigel Calder:***

Nigel Calder got into motorcycles and sailing dinghies as a teenager, and has never been far from mechanical things and boats ever since. In a varied career, before becoming a full-time marine technical writer, he worked on an automotive assembly line, in a foundry and machine shop, and on offshore oil production platforms. He and his wife, Terrie, have built and owned a succession of boats with increasingly experimental systems. The most recent includes digital power distribution and was used by the European Union HYbrid MARine (HYMAR) project, of which Nigel was the co-author and Technical Director, for extensive testing of hybrid propulsion systems. Nigel is a long-time member of the American Boat and Yacht Council (ABYC) Electrical Project Technical Committee. Nigel is best known for his *Boatowner's Mechanical and Electrical Manual*, and his *Marine Diesel Engines*, both in their third editions. In addition to over 300 magazine articles, he has also authored a '*Cruising Guide to the Northwest Caribbean*', '*Cuba: A Cruising Guide*', '*Nigel Calder's Cruising*

*Handbook* and *How to Read a Nautical Chart*.

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***Paul D'Annunzio:***

Since May 2006, Paul D'Annunzio has served as Manager of Environmental Stewardship at Royal Caribbean Cruises Ltd. He currently is responsible for developing and maintaining corporate environmental policy, objectives and targets, key performance indicators, and long term environmental goals. He is involved in evaluating new technologies and developing initiatives of programs related to water and wastewater, waste and chemical management, and energy and air systems.

Prior to joining Royal Caribbean Cruises Ltd., Paul spent 8 years serving as Environmental Superintendent for Carnival Cruise Lines and 2 years as Coordinator of Technical Operations for Premier Cruises.

He holds a Master of Business Administration degree in Environmental Studies from Florida Atlantic University. He also earned a Bachelor of Science degree in Civil/Environmental Engineering from the State University of New York at Buffalo and an Associate's degree in Chemical Engineering Technology from Hudson Valley Community College.

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***Dennis Donahue:***

Dennis Donahue is a Marine Superintendent for NOAA and manages the research vessels operating on the Great Lakes. As a graduate of the Great Lakes Maritime Academy and the University of Michigan, he has an extensive background as a ship pilot and marine engineer. Recent efforts have been devoted to advancing renewable fuels and emerging green technologies in marine applications.

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***Joshua Frederickson:***

Acting Chief of Staff/Deputy Director for Energy, United States Navy.

Mr. Frederickson earned a Bachelor's of Science in Environmental Science from the University of Massachusetts and a Master's of Science, also in Environmental Science, from the University of Rhode Island.

From 2001 to 2008, Mr. Frederickson supported environmental ashore and afloat compliance programs at the Naval Undersea Warfare Center (NUWC) in Newport, Rhode Island. From 2008 to 2011, he served as Project Manager for the NUWC Environmental Division. He successfully led the development and execution of the VIRGINIA Class Submarine Developmental Testing/Operational Testing environmental compliance plan.

From 2011 to 2012, Mr. Frederickson served as the NUWC Environmental Division Head. In September 2012, Joshua was selected to serve as the Acting Chief of Staff for OPNAV N45 and was selected to serve as the Deputy Director for the Navy Energy Coordination Office.

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### *Mike Gaffney*

Michael Gaffney, is Executive Vice President, Engineering at the ALARIS COMPANIES.

Having a passion for energy independence and environmental stewardship, Mr. Gaffney has been promoting the use of energy management to reduce energy consumption and cost. His focus has been providing solutions, both technical and cultural, to high energy cost in the maritime sector over the past decade and has made numerous presentations on maritime energy management and its benefits around the country.

#### Professional Licenses:

- Certified Energy Manager (C.E.M.)

- Certified Energy Auditor (C.E.A.)

- Certified Power Quality Professional (C.P.Q.)

- U.S.C.G. Licensed Chief Engineer, Motor and Gas Turbine Vessels of any horsepower

- U.S.C.G. Licensed Third Assistant Engineer of Steam Vessels of any

horsepower

Education:

U.S.Merchant Marine Academy, Kings Point, New York  
Bachelor of Science, Marine Engineering, June 1986

Experience:

- \*Lead Energy Auditor for Vessels and Terminals (USCG, NAVY, NOAA, MARAD, MSC, Commercial)
- \*Lead Energy Engineer Retro-Commissioning on Vessels
- \*Corporate Energy Management Consultant,
- \*Lead Engineer: Development of Vessel Preventative Maintenance Plans (Government)
- \*Fleet Technical Manager (11 MSC Large Medium Speed Ro-Ro (LMSR) Vessels)
- \*Port Engineer (Government and Commercial)
- \*Chief Engineer (Ro-Ro, Container, Passenger)

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***David Kring:***

Dave Kring is the Chief Scientist for Navatek, Ltd., a Hawaiian-based, research company that has recently opened an office in South Kingstown, RI. Navatek specializes in developing design tools and advanced concepts for the US Navy and Marine Corps and also for commercial clients. It also has an active research program in plasma actuation for wind turbines.

Dave received a Ph.D. in Hydrodynamics from MIT in 1994, and spent a decade there as a researcher in the Department of Ocean Engineering and later in the Research Lab of Electronics. Since then, he has been mainly involved in the defense industry, but has also worked in other areas such as commercial aviation

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***Paul Jamer:***

Paul Jamer is the Vice President of Corporate Development for Aspin Kemp & Associates, a Canadian systems integration company that provides electrical, mechanical and marine engineering solutions to a global marine and offshore market. A native of New Brunswick, Paul is a graduate of the Canadian Coast Guard College's Marine Engineering program. He is in possession of a First Class Engineering Certificate and has more than 30 years of experience in the Marine Industry and extensive experience as a project manager and engineering superintendent.

Paul has been instrumental in the development and marketing of landmark initiatives that have allowed AKA and its strategic partners to lead the world in the successful deployment of environmentally conscious technologies in the marine industry. This innovation has resulted in such high profile projects as the propulsion and control system for the World's First Hybrid Tug. He continues to lead AKA's efforts to integrate alternative and conventional energy sources to provide pragmatic and sustainable solutions for the future.

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***Tim Leach:***

Tim Leach has a BS from Webb Institute and has worked in vessel design and consulting for 23 years. Currently, he is a Principal at the Glostén Associates where he has worked for 18 years and has worked on the design and modification of research vessels for the past 17 years.

Currently he is a co-chair of the panel within the Society of Naval Architects and Marine Engineers for the Marine Environmental Performance Assessment

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***Gregory Marshall:***

Greg Marshall is the founder and CEO of Gregory C. Marshall Naval Architects Ltd. Based in Victoria British Columbia Canada. In a career spanning more than 35 years Greg has been involved in more than 800 Luxury Yacht, commercial and military projects built on every continent with the exception of Antarctica.

Having won most of the top awards in the Yacht industry (An industry not particularly known for its green footprint) including "One of the top 50 yachts of all time", and multiple winner of "Most Innovative Yacht", "Best Interior" and "Best Naval Architecture"

Greg has become very passionate about using technology to create "Smarter, Greener, Better Ships" .....with a slight twist.....They must also be more luxurious and strikingly beautiful

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***Pamela Rubinoff:***

Pam Rubinoff is a Coastal Extension Specialist with the Coastal Resources Center and Rhode Island Sea Grant at URI's Graduate School of Oceanography.

Since joining the URI in 1996, Pam has worked with both US-based Rhode Island initiatives and international development programs. Leading the Center's Climate Change and the Coast program, Rubinoff 's focus is on building resilient coastal communities locally and globally, through technical assistance, decision-support tools, policy creation, interdisciplinary collaboration, training and outreach. Her work contributes

to interdisciplinary initiatives and supports partnerships with government agencies, conservation and development organizations, university faculty and research, and private sector initiatives.

Pam received a Bachelor of Civil Engineering from the University of Delaware and a Master of Marine Affairs from URI. Her current work builds upon broad experience including the US Army Corps of Engineers, Massachusetts Coastal Zone Management Program and her Peace Corps experience in Thailand.

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***Rufus Van Gruisen:***

Rufus has a Bachelor of Science degree in Electronic and Electrical Engineering from North Staffordshire Polytechnic in the UK. He is a member of the Institute of Electrical and Electronic Engineers, The National Marine Electronics

Association and the American Boat and Yacht Council. After crossing the Atlantic in a 35 foot sailboat in 1982, he opened Cay Electronics on Tortola in the British Virgin Islands. The company sells, installs and repairs marine navigation and communication equipment.

In 1990 Rufus relocated to Rhode Island and opened a second Cay Electronics location. Over the years, the company has worked with many notable boat builders in the State and across the world providing electronic and electrical installations. In 1999 the company developed and began building the Polar 2000, one of the first high efficiency DC refrigeration systems using a true DC hermetic compressor.

In 2006, in response to demand for more music and video installations on power yachts, the company designed and began manufacturing the AroundSound, a multi-source, multi-zone audio-video distribution system.

In 2012, together with his 22 year old son, Rufus designed and built the eCraft 20 electric launch to test the capabilities of electric propulsion, hull design and control electronics, using the latest technology. When not at work, Rufus enjoys navigating for offshore yacht races, trekking in the Himalayas or enjoying a sunset race around the buoys in Narragansett Bay

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