

Biographies, HSRP meeting, Pacific Northwest, Seattle, April 2017

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Capt. (ret. NOAA) Andy Armstrong

Co-Director, Joint Hydrographic Center, University of New Hampshire



Andy Armstrong is the Co-Director of the JHC and a retired officer of NOAA, assigned to the Center as a civilian NOAA employee. Capt. Armstrong specialized in hydrographic surveying and served on several NOAA hydrographic ships, including the NOAA Ship *Whiting* where he was Commanding Officer and Chief Hydrographer. Before coming to the JHC, he was the Chief of NOAA's Hydrographic Surveys Division, directing the agency's hydrographic survey activities. He has a B.S. in Geology from Tulane University and an M.S. in Technical Management from Johns Hopkins University. Capt. Armstrong oversees the hydrographic and ocean mapping education and training program at UNH and coordinates the Center's cooperative research with NOAA.

Mr. Joshua Berger

Director of Maritime, Governor's Sector Lead, Washington State Department of Commerce



Joshua started working at the Department of Commerce in November 2015 as Governor Inslee's Sector Lead and Economic Development Director for Washington's maritime industry. He is charged to set strategic direction for maritime economic development opportunities and serve as the liaison between industry interests and the Governor's office. Joshua brings a depth of business and economic development knowledge to his job. He has been a recognized leader in several professional settings, as the Director of the Washington Maritime Federation, the Maritime Sector Business Development Manager for the Seattle and King County Economic Development Council, the Program Director and Marine Operations Manager at The Evergreen State College, and the Regional and Network Coordinator for the

Environmental Education Association of Washington. Joshua also worked in the towing industry and spent six years as Captain and Restoration Project Manager the schooner *Adventuress*, "Puget Sound's Environmental Tall Ship". He has a lifelong passion for the marine transportation industry and serves on the Washington Marine Coastal Advisory Council, the Board of Directors of Sound Experience and Washington Maritime Federation, and serves as Chairman of the Environmental Protection Committee of Sail Training International. Joshua sailed as mate and engineer on coastwise tugs as well as served as a captain of several sailing ships. Governor Inslee's top priority is to create an economic climate where innovation and entrepreneurship can continue to thrive and create good paying jobs in every corner of our state. Washington State's maritime sector comprises a robust and growing set of industries that contribute to achieving the Governor's priority goal. Despite the diversity of the sector, many issues are important to all segments of the industry. Improved transportation infrastructure, regulatory balance, workforce development, and supporting clean technology and best practices are good examples. He works with stakeholders to create coalitions like the Washington Maritime Federation to promote these improvements and to raise awareness of the importance of maritime activity to our economy.

Ms. Juliana P. Blackwell

Director, National Geodetic Survey, National Ocean Service, NOAA

Ms. Juliana P. Blackwell is the Director of NOAA's National Geodetic Survey (NGS). As Director, she is responsible for the financial, administrative and programmatic performance of NGS, the lead federal agency for positioning activities in the Nation. She oversees the management and delivery of the National Spatial Reference System (NSRS), the nation's consistent coordinate system for latitude, longitude, height, shoreline, gravity measurements and shoreline information throughout the United States. The NSRS supports a wide range of important activities including mapping and charting, navigation, flood risk determination, transportation, land use and ecosystem management. Ms. Blackwell serves as Chair of the Federal Geodetic Control Subcommittee of the Federal Geographic Data Committee, exercising government-wide leadership in the development and improvement of geodetic surveying specifications, methods, instrumentation, and data transfers. She is a member of NOAA's Hydrographic Services Review Panel, a federal advisory committee providing advice to the NOAA Administrator on matters related to hydrographic services. She represents NOAA on the interagency Alaska Mapping Executive Committee and the 3D Elevation Program Executive Forum. A graduate of Tufts University, Ms. Blackwell earned a Bachelor of Science degree in mathematics. She received a master's in business administration from the University of Maryland's Robert H. Smith School of Business.



Dr. W. Russell Callender

Assistant Administrator, National Ocean Service, NOAA



Dr. W. Russell Callender is the Assistant Administrator for NOAA's National Ocean Service. The National Ocean Service (NOS) is the nation's most comprehensive ocean and coastal agency. Its mission is to provide science-based solutions through collaborative partnerships to address evolving economic, environmental and social pressures on our oceans and coasts. The agency observes, measures, assesses, and manages the nation's coastal, ocean, and Great Lakes areas; provides critical navigation products and services; and conducts response and restoration activities to protect vital coastal resources. As Assistant Administrator, Dr. Callender provides strategic vision for NOS. He leads the implementation of activities that support NOS's priorities of coastal resilience, coastal intelligence, and place-based conservation. He serves as the focal point for conveying the value of NOS products and services within NOAA and to the Department of Commerce, the Office of Management and Budget, and Congress. Dr. Callender actively establishes and grows partnerships with other federal agencies, non-governmental organizations, and industry. Dr. Callender brings more than 20 years of science, policy, and management.

Mr. Dorrel Dickson

Geospatial Survey Analyst, GIS Department, The Tulalip Tribes of Washington



Dorrel Dickson is a licensed Land Surveyor, a Certified Federal Surveyor, a GIS Analyst and a Geospatial Survey Analyst. He has spent the last 20 years employed in the surveying and GIS industries working in both the private and public sectors. Currently he is working for the Tulalip Tribes in the GIS department as a Geospatial Survey Analyst. He enjoys life most when he is learning, tinkering, on the seat of a mountain bike or quietly growing old with his wife.

Mr. Richard Edwing

Director, Center for Operational Oceanographic Products and Services, National Ocean Service, NOAA

Richard Edwing is the director of [NOAA's Center for Operational Oceanographic Products and Services](#) (CO-OPS), the nation's authoritative source for accurate, reliable and timely water-level and current measurements. In his role, he oversees and continues to improve this 24-hour a day operation to provide mariners, coastal managers, and many other users with real-time data on ocean conditions along America's 95,000-mile coastline. Edwing's career with NOAA spans three decades with much of that time spent advancing NOAA's navigation services mission to provide the nation with up-to-date ocean, weather, mapping and positioning data and tools for safe transits to and from U.S. ports. He started with NOAA in 1976 in the Marine Boundary Program, a partnership between NOAA and coastal states to establish tidal data such as base elevations in sensitive wetland areas vulnerable to urban growth. He later advanced through various positions in the field and at NOAA headquarters, including several years as division chief of the National Ocean Service's policy,



planning and analysis division, where he shaped NOAA's priorities for ocean issues, as well as identified budget needs to advance and modernize ocean science for the twenty-first century. Graduating in 1976 from George Washington University, Edwing earned a Bachelor of Science degree in oceanography, and later completed graduate level work in civil engineering at the University of Maryland. For two hundred years, CO-OPS and its predecessor agencies have provided the critical oceanographic data needed to protect life, property, and the marine environment. Today, the Center manages NOAA's Physical Oceanographic Real-Time System, the National Water Level Program, and National Current Observation Program—major national systems critical to keeping America's oceans, coasts, and Great Lakes safe, healthy and productive.

Captain Jason R. Hamilton

Commanding Officer, USCGC HEALY, U.S. Coast Guard

Captain Hamilton assumed command of USCGC HEALY in June 2015. He is an icebreaker sailor who has completed multiple Antarctic, Arctic, and Great Lakes ice-breaking missions. Captain Hamilton is also a judge advocate who has served with distinction in various legal



officer positions. He graduated with honors from the U.S. Coast Guard Academy in 1993 with a Bachelor of Science Degree in Government. He served as a Deck Watch Officer and Operations Officer aboard USCGC PAPA W (WLB 308). He began his ice-breaking career on the USCGC MACKINAW (WAGB 83) sailing throughout the Great Lakes region. His Polar-class ice-breaking tours include Operations Officer aboard USCGC POLAR STAR (WAGB 10) and Executive Officer aboard USCGC POLAR SEA (WAGB 11). He participated in two Deep Freeze Missions including a direct great circle transit from Seattle to Antarctica to conduct the first U.S./Russian joint break-in and resupply of McMurdo Station. He helped plan and execute relief efforts in Western Samoa following Cyclone

Olaf. As Executive Officer he oversaw the restoration of USCGC POLAR SEA's science capabilities and two Arctic research deployments. He commanded a multi-disciplinary Arctic expedition that culminated in USCGC HEALY becoming the first unaccompanied U.S. surface vessel to reach the North Pole. Captain Hamilton received his Juris Doctor from the University of Washington School of Law, is licensed to practice law in Washington State and before the United States Court of Appeals for the Armed Forces. He is a certified military judge whose legal tours include staff attorney and Staff Judge Advocate for the Thirteen Coast Guard District, Chief of Military Justice at Maintenance and Logistics Command Pacific, and Chief of the Prevention Law Group in the office of Maritime and International Law. He served on U.S. delegations to the International Maritime Organization and the Arctic Council Task Force on Oil Spill Preparedness and Response. His work on the Deepwater Horizon interagency litigation and settlement team resulted in settlements for the largest environmental criminal penalties in U.S. history (over \$5 billion). He was the Executive Assistant to the Pacific Area Commander. His awards include the Legion of Merit, four Meritorious Service Medals, three Commendation Medals, two Achievement Medals, and the Department of State Superior Honor award.

Mr. Marten Hogeweg

Senior Project Manager, Esri, Inc.

Mr. Hogeweg joined Esri in 2001 as a Consultant and Project Manager focused on products and solutions for spatial data infrastructures (SDI), open government, and enterprise information sharing programs. He has extensive experience in geospatial industry standards from ISO, the Open Geospatial Consortium, United States Geospatial Platform, and European INSPIRE programs. Since 2013, Mr. Hogeweg is the Program Manager for the implementation of the

ArcGIS Platform at the Port of Rotterdam, the Netherlands. This platform provides access to core information across the port and supports asset management, strategic planning, and smart



infrastructure processes. Mr. Hogeweg managed the design and implementation of the National Spatial Data Infrastructure networking system in Indonesia between 2010 and 2015. The NSDI connects various government organization who can share geospatial information between themselves, as well as provides public users access through a public information portal. Mr. Hogeweg has served as project manager for the Geospatial One-Stop program from 2003 to 2011. He was responsible for the operation and maintenance of the portal as well as for the development of enhancements and outreach to the user

community. He managed the successful retirement of the portal and the transition to its successor site as part of Data.gov. He was instrumental in building the relationship between the Geospatial One-Stop and Data.gov programs. Mr. Hogeweg has a Master of Science in Geographic Information Systems from the University of Salford, United Kingdom (2000) and a Master of Science in Mathematics, the Free University of Amsterdam, the Netherlands (1989).

Mr. Jeff Hummel

Director of Sales and Marketing, Rose Point Navigation Systems



Jeff Hummel is a leading expert on recreational and commercial PC-based navigation systems. He has extensive knowledge with regard to the evolution of the technology, market segmentation, products, businesses and key players throughout the world. Jeff has been actively involved in the PC-based navigation market since 1987. In 1995, he joined Nobeltec and was instrumental in pioneering several key initiatives including radar overlay and electronic distribution of vector charts. In 1997, NOAA selected Jeff to present at the International Maritime Organization (IMO) regarding the adoption of raster charts where no vector charts existed. The measure was later

adopted despite a significant number of detractors, and Jeff's own belief that vector charts are superior to raster. In 2004, Jeff joined forces with Brad Christian, a retired Microsoft developer, at Rose Point Navigation Systems. Rose Point's hallmark quality and reliability have made it the most widely used commercial navigation software in the United States. Rose Point's ECS software is specifically designed to meet the needs of inland towing, coastal towing and the offshore oil and gas industry. Jeff owns and operates an 80-ft research vessel dedicated to undersea exploration and testing the latest marine electronic innovations. Jeff attended the University of Washington where he rowed on crew and majored in industrial design.

Ms. Carol Lockhart

President, Geomatics Data Solutions, LLC

Ms. Lockhart has been working in the survey industry since graduation from the University of Glasgow with a B.Sc. (Hons) in Topographic Science (Geomatics) in 1996. She has more than

20 years of experience in hydrographic data processing and analysis, using hydrographic and topographic lidar, as well as multibeam sonars. Ms. Lockhart started her career working in the field on vessels, performing various acoustic surveys using equipment such as multibeam,



sidescan sonars and sub-bottom profilers for industries as diverse as oil & gas, local ports and harbors, telecommunications, and local, federal and international governments. In 2001 Ms. Lockhart became involved with bathymetric lidar and has been extensively involved since 2003. She is one of only a handful of people in the world that have worked with Chiroptera, Riegl, LADS, SHOALS and HawkEye lidar data. Ms. Lockhart served as Lead Hydrographer for a NOAA contract in Alaska in 1999, and has provided QA/QC and troubleshooting support on NOAA hydrographic surveying contract projects every year since. She has been involved in

every aspect of hydrographic projects, from business development, bidding, planning, acquisition and processing to product delivery and client liaison. Ms. Lockhart is member of the Hydrographic Society of America (THSOA). She is a recipient of the “Lt. Cmdr. Peter Johnson Best Practices Award” presented by the Joint Airborne Lidar Bathymetry Technical Center of Expertise (JALBTCX) and the “Sebastian Sizgoric Technical Achievement Award” for her work with multiple bathymetric lidars.

Dr. Larry Mayer

Director, Center for Coastal & Ocean Mapping, and Co-Director, Joint Hydrographic Center, University of New Hampshire



Larry Mayer is a Professor and the Director of the School of Marine Science and Ocean Engineering and The Center for Coastal and Ocean Mapping at the University of New Hampshire. He graduated magna cum laude in Geology from the University of Rhode Island and received a Ph.D. from the Scripps Institution of Oceanography in Marine Geophysics. At Scripps, he worked with the Marine Physical Laboratory's Deep-Tow Geophysical package, applying this sophisticated acoustic sensor to problems of deep-sea mapping and the history of climate. After being selected as an astronaut candidate finalist for NASA's first class of

mission specialists, Larry went on to a Post-Doc at the School of Oceanography at the University of Rhode Island to work on the Chirp Sonar and problems of deep-sea sediment transport and paleoceanography. In 1982, he became an Assistant Professor in the Dept. of Oceanography at Dalhousie University and in 1991 moved to the University of New Brunswick to take up the NSERC Industrial Research Chair in Ocean Mapping. In 2000 he became the founding director of the Center for Coastal and Ocean Mapping at the University of New Hampshire and the co-director of the NOAA/UNH Joint Hydrographic Center. Larry participated in more than 90 cruises (over 70 months at sea!) in 35 years, and has been chief/co-chief scientist of numerous expeditions, including two legs of the Ocean Drilling Program and eight mapping expeditions in the ice covered regions of the high Arctic. He served

or chaired many international panels and had a large number of publications on topics in marine geology and geophysics. He was a member of the President's Panel on Ocean Exploration, National Science Foundation's Advisory Committee for the Geosciences, chaired a National Academy of Science Committee on national needs for coastal mapping and charting, and the National Academies report on the impact of the Deepwater Horizon Spill on ecosystem services in the Gulf of Mexico. He co-chaired NOAA's Ocean Exploration Advisory Working Group, was Vice-Chair of the Consortium of Ocean Leadership's Board of Trustees, is the Chair of the National Academies of Science's Oceans Studies Board, a member of the State Department's Extended Continental Shelf Task Force, Navy's SCICEX Advisory Committee, and the Arctic Research Commission. Larry's current research deals with sonar imaging and remote characterization of the seafloor, advanced applications of 3-D visualization to ocean mapping problems and applications of mapping to Law of the Sea issues, particularly in the Arctic.

Dr. Parker MacCready

Professor of Oceanography, University of Washington



Parker MacCready works to advance fundamental understanding of estuarine and coastal physical oceanography. He works closely with biologists and chemists to link patterns of circulation and mixing to biogeochemical processes such as ocean acidification, hypoxia, and harmful algal blooms. With his colleagues in the UW Coastal Modeling Group he creates realistic numerical simulations of coastal and estuarine waters, allowing an unprecedented exploration of these complex processes, particularly in the Pacific Northwest.

Mr. Travis Newman

Marine Chart Division, Office of Coast Survey, NOS, NOAA



Mr. Newman graduated from the University of Wisconsin - Madison with a degree in cartography. He has worked at NOAA for 23+ years and is currently a branch chief in the Marine Chart Division. His team is responsible for the maintenance and updating of RNCs and ENC for the West Coast and Pacific Islands.

Dr. Jan Newton

Executive Director, NANOOS, Applied Physics Lab, University of Washington

Dr. Jan Newton is a Senior Principal Oceanographer with the Applied Physics Laboratory of the University of Washington, and affiliate faculty with the UW College of the Environment. Jan is the Executive Director of the Northwest Association of Networked Ocean Observing Systems (NANOOS), which is the regional association within the United States Integrated Ocean



Observing System (IOOS) for the Pacific Northwest U.S. Her work through NANOOS seeks to bring knowledge of ocean conditions to stakeholders for their use in decision making in myriad contexts, safeguarding public economy, health, and safety. Jan is a biological oceanographer who continues to study multidisciplinary dynamics of Puget Sound and coastal Washington waters, including understanding effects from climate and humans on water properties. An appointee to the Washington Blue Ribbon Panel on Ocean Acidification and the West Coast Panel on Ocean Acidification and Hypoxia, Jan is now co-Director of the

Washington Ocean Acidification Center at the University of Washington.

Lieutenant Colonel Andrew L. Olson

Deputy Commander, Seattle District, U.S. Army Corps of Engineers

Lieutenant Colonel Andrew L. Olson became the Deputy Commander, Seattle District, U.S. Army Corps of Engineers, in August 2016. His most recent prior assignment was as a Training with Industry Fellow at Parsons in Aiken, South Carolina. His prior assignments include:

Platoon Leader, Executive Officer and Battalion Logistics Officer 9th Engineer Battalion, Germany; Group Engineer and Company Commander 43d Area Support Group, Colorado and Kuwait; Company Commander 4th Engineer Battalion, Colorado; Deputy Resident Engineer Europe District; Resident Officer in Charge USACE Afghanistan District South; Deputy Division Engineer 10th Mountain Division; Battalion Operations and Executive Officer 3rd Brigade STB, 10th Mountain Division, New York and Afghanistan. Lt. Col. Olson's military education includes a Bachelor of Science degree in Geological Engineering and a Master of Science in Engineering and Technical Management, Colorado School of Mines, and a Master of Science degree in



Civil Engineering, Missouri University of Science and Technology. He is a Project Management Professional (PMP), and a licensed Professional Engineer in the state of Missouri. Lt. Col. Olson's awards and decorations include: the Bronze Star Medal with Oak Leaf Cluster, Defense Meritorious Service Medal, Meritorious Service Medal with 2 Oak Leaf Clusters, Army Commendation Medal, Army Achievement Medal with 2 Oak Leaf Clusters, National Defense Service Medal, Kosovo Campaign Medal, Afghanistan Campaign Medal with 2 Bronze Stars,

Global War on Terrorism Expeditionary Medal, Global War on Terrorism Service Medal, Army Service Ribbon, Overseas Service Ribbon with the numeral 4, NATO Medal, Joint Meritorious Unit Award, and the Meritorious Unit Commendation. He was awarded the Air Assault Badge. Lt. Col. Olson is originally from Preston, Idaho.

Mr. Gavin Shrock

PLS, Administrator, Washington State Reference Network



Gavin Schrock, PLS is the administrator of the Washington State Reference Network a regional high-precision GNSS network cooperative in the Pacific Northwest. He has worked in surveying, mapping, data management, and geomatics for over three decades in public works, commercial development, defense, and utilities. He has published in these fields and has taught these subjects at local, state, national, and international conferences.

Mr. Jeffrey Siegel

President, ActiveCaptain

Jeff is a serial entrepreneur. Throughout his career, he has built companies that used technology to make major changes to traditional systems. In 2003, he and his wife started cruising in their trawler full time and realized that the internet would change boating forever.



ActiveCaptain was formed from their experiences living on the water. Today, ActiveCaptain is the standard information resource used by cruising boaters throughout the world. It can be viewed in 650 models of chartplotters and has been integrated into about 600 software apps for phones, tablets, laptops, and computers. Fourteen years later, Jeff, his wife, and 2 spoiled dogs continue to cruise and liveaboard their pocket freighter trawler, Red Head. They are frequent speakers at boating events and cruising venues from Maine to the Keys, Bahamas, Great Loop, and someday, Cuba.

Rear Admiral Shepard M. Smith

Designated Federal Officer, HSRP; and Director, Office of Coast Survey, NOS, NOAA

Rear Admiral Shepard M. Smith became the director of the Office of Coast Survey (OCS) on August 26, 2016. Hallmarks of his career have been his leadership in the modernization of NOAA's charting systems and transformation of NOAA's hydrographic technologies. That leadership and experience are now be applied to expanding Coast Survey's data capabilities and supporting a data-enabled maritime economy, among other challenges.



Smith returns to Coast Survey as commanding officer of NOAA Ship *Thomas Jefferson*, on which he served three tours during his NOAA career. Smith became NOAA's first commanding officer to operationalize unmanned surface vehicles for mapping shallow areas previously inaccessible and uncharted. Smith served as the chief of Coast Survey's Marine Chart Division where he changed the nation's charting tradition by restructuring chart production and distribution. That modernization made U.S. navigational data more accessible to the public through a wider range of electronic formats, faster and more accurately. During ship assignments, he surveyed Alaska on NOAA Ship *Rainier*, was on the interagency response teams for the

search and recovery of TWA flight 800, Egypt Air flight 990, the private plane piloted by John F. Kennedy, Jr., and commanded *Thomas Jefferson* during her six-week response to the Deepwater Horizon oil spill. *Thomas Jefferson*, under his command, was awarded a Commerce Gold Medal for heroism. He graduated with a bachelor of science in mechanical engineering from Cornell University in 1993. He has a master of science in ocean engineering in 2003, and completed the IHO Category "A" program, both at the University of New Hampshire.

Ms. Linda Stryk

Executive Director, Puget Sound Pilots



Ms. Stryk is the Executive Director of the Puget Sound Pilots, handling all business operations and external affairs for an organization of highly skilled, expertly trained ship pilots who navigate and dock commercial ships safely within Puget Sound waters, including tankers, cargo vessels and cruise ships. Prior to joining the Pilots, Ms. Stryk was the Managing Director of the Port of Seattle Seaport. She joined the port in 2005 and held the positions of Director of Container Marketing, General Manager of the Container Division and Director of Strategic Facilities and Planning. As Seaport Director, she was instrumental in securing a 10-year lease extension for Terminal 46, the U.S. Army Corps Seattle Harbor Channel Deepening Project, Terminal-5

Modernization Project for mega-ships, the Seaport Asset Stewardship program and advancement of the Northwest Seaport Alliance. Prior to working with the Port Ms. Stryk spent almost 20 years with container shipping line APL in a variety of roles. Ms. Stryk is a graduate of

the California Maritime Academy with a bachelor's degree in Nautical Industrial Technology and previously held a U.S. Coast Guard Third Mate's License, unlimited. The Puget Sound Pilots organization was created in 1935 when the State of Washington established compulsory pilotage requirement for all foreign vessels traveling on Puget Sound and adjacent waters "to prevent the loss of human lives, loss of property and vessels, and to protect the marine environment of the state of Washington". Today, Puget Sound Pilots work around the clock to ensure the safe navigation of vessels on the waters of Puget Sound for the benefit of the people of Washington State.

Captain John Veentjer, (U.S. Coast Guard ret.)

Executive Director, Marine Exchange of Puget Sound



Captain John Veentjer, U.S. Coast Guard Retired, has been the Executive Director of the Marine Exchange of Puget Sound since January 1, 2007. John is also the Chair of the Puget Sound Harbor Safety Committee (PSHSC), a member of the Puget Sound Area Maritime Security Committee (AMSC), and a member of the Olympic Coast National Marine Sanctuary Advisory Council. He is a native of Portland, Oregon, joined the Coast Guard in 1969 and graduated from the Coast Guard Academy in 1973. More than half of his Coast Guard career was in the Pacific Northwest; a tour of duty Astoria and Portland and several tours in Seattle. He was the Coast Guard Captain of the Port for the Delaware River Region, Philadelphia from 1995 to 1998. He retired at the end of 2001 after serving as the Chief, Marine Safety

Division, Thirteenth Coast Guard District.