USCRP Presenter Biographies

Welcome to the 2024 USCRP Decadal Visioning Workshop! This document features the biographies of our esteemed presenters. Click on the name of the presenter below to go directly to their biography.

Dr. Christine Angelini

Director of Coastal Solutions, University of Florida

Christine Angelini is an Assistant Professor and Director of the Center for Coastal Solutions (CCS). Founded in 2020, CCS works across disciplines–ecology, engineering, health, computer sciences, policy and communications–to develop and deliver research and technology solutions that support coastal communities in addressing hazards and environmental degradation. A hallmark of the center's innovation is the integration of large data sets, artificial intelligence and supercomputing to rapidly simulate coastal environmental scenarios and produce data driven solutions. The Center counts on strong partnerships with 30 plus organizations in the public and private sector at the local, state and national level to move the needle on coastal challenges.

Dr. Angelini also co-leads Florida's Digital Twin, a UF President's Strategic Initiative launched in 2023 to develop a statewide digital twin technology program in collaboration with UF Health, College of Medicine, College of Public Health and Health Professions, College of Journalism and Communications, Water Institute,

College of Design, Construction and Planning, and UF Research. The goals of the program are to accelerate collaboration and engagement between UF faculty / researchers and public and private sector stakeholders in finding solutions to urgent environmental, health and social issues in the state using state of the art technology and artificial intelligence.

A marine ecologist by training, Dr. Angelini received her Ph.D. in Biology from the University of Florida in 2014 and her BSc in Marine Biology from Brown University in 2009. Her expertise is in wetland, reef and dune systems, and research in her lab focuses on advancing mechanistic understanding of how species interactions moderate ecosystem resilience to climate change and influence contaminant integration into food webs.

Dr. John Bishop

Coastal Manager, Pinellas County, Florida

John Bishop is the Coastal Management Coordinator for Pinellas County where he has been employed for 11 years. Dr. Bishop oversees the County's Coastal Management Program including local coastal stabilization projects and the County's local and Federal shore protection projects. Dr. Bishop has a Bachelor of Science in Geological Sciences from the State University of New York at Buffalo, a Master of Science in Geological Oceanography and Doctorate in Oceanography from Florida Institute of Technology.

Dr. Tiffany Briggs

Chair and Associate Professor of the Department of Geoscience, Florida Atlantic University

Tiffany Roberts Briggs is Chair & Associate Professor in the Department of Geosciences at Florida Atlantic University. She completed a BS in Environmental Science from the Honors College at University of South Florida and a MS and PhD in Geology from USF. Briggs was an Instructor in the Department of Geology & Geophysics at Louisiana State University before joining the faculty at FAU in 2014. Briggs has expertise in coastal geology/sedimentology and geomorphology, embracing an interdisciplinary approach to addressing issues in coastal and marine science. Her research focuses on storm impact and recovery, coastal restoration, and

environmental characterization of beach habitat. She is currently serving as ASBPA Secretary, co-chair of the Science & Technology Committee, and member of the Shore & Beach and Journal of Coastal Research Editorial Boards.

Dr. Kate Brodie

Senior Research Oceanographer, U.S. Army Corps of Engineers

Dr. Barnali Dixon

Professor and Executive Director of the Initiative on Coastal Adaption and Resilience (iCAR) and Director of Geospatial Analytics Lab.

Dr. Dixon earned her PhD in Environmental Dynamics in 2001. She has 22+ years of experience in geospatially integrated interdisciplinary research. Her research focuses on the development and application of Environmental Decision Support Systems (EDSS) integrated with Geospatial Technologies and geocomputation for modeling and managing land-water interfaces for water contamination and vulnerability, with a particular focus on modeling land-water interface under climate change in the context of planning, adaptation, and equitable resilience. Her recent work included a smart and resilient city project funded by NSF with a particular emphasis on coupled natural and human systems. The goal of this NSF project is to 'Design and

Development of a Near Real-Time Community Crowdsourced Resilience Information System for Enhancing Community Resilience in the Face of Flooding and Other Extreme Events'. Her recent project consists of developing an integrated Community Resiliency Information System (CRIS). She co-authored the book, "GIS and Geo Computation for Water Resources Science and Engineering" (Wiley& Sons), and her upcoming book ''Interdisciplinary Environmental Solutions: Using Geospatial Technologies for Bridging Disciplines, Scale and Data' is in Press with Springer/Palgrave International Publishing. She is the recipient of the Fulbright Specialist award and worked with Thailand's space agency GISTDA to explore the role of space technologies in benefiting society, resiliency, and sustainability.

Dr. Greg Dusek

Senior Scientist, National Oceanographic and Atmospheric Administration
Greg is a physical oceanographer and the Chief Scientist for the NOAA National Ocean Service (NOS) Center for Operational Oceanographic Products and Services (CO-OPS). His research focuses on coastal oceanographic product development through the intersection of data science with coastal hazards. Recent projects include the creation of an operational coastal webcam observing system and the development of a probabilistic seasonal high tide flooding model. Greg has been at NOAA for about 13 years, and has led a number of interagency or cross-NOAA teams including serving as the lead of the NOAA AI Executive Committee from 2020-2022. Prior to serving as CO-OPS Chief Scientist, he was an oceanographer on the currents team where he led a range of physical oceanographic field and data projects. Prior to joining NOAA, Greg completed his PhD in physical oceanography at the University of North Carolina Chapel Hill where he studied coastal processes and rip currents.

Dr. Nicole Elko

Executive Director, American Shore and Beach Preservation Association, Co-Executive Director, U.S. Coastal Research Program (USCRP)

Nicole Elko, Ph.D., is the new Executive Director for the American Shore and Beach Preservation Association. She served ASBPA for over twelve years as Science Director. Prior to becoming the Science Director, she served on the ASBPA's Executive Committee, was a Vice-President and Secretary of the Association. Dr. Elko serves as a civilian advisor of the U.S. Army Corps of Engineers' Coastal Engineering Research Board (CERB). She is a member of NOAA's Hydrographic Services Review Panel (HSRP); serves on advisory committees for the Southeast Coastal Ocean Observing Regional Association (SECOORA), S.C. Office of Ocean and Coastal Resources Management, and S.C. Sea Grant Consortium; and is a founder and co-Executive Director of the US Coastal Research Program (USCRP).

Dr. Diane Foster

Director of the School of Marine Science and Ocean Engineering, University of New Hampshire, USCRP Co-Executive Director

Diane Foster is the Director of the School of Marine Science and Ocean Engineering and professor of mechanical and ocean engineering at University of New Hampshire. She is a leader in her field of coastal sediment transport with a research portfolio that includes support from NSF, DOD, NOAA, EDA, and more recently DOE. Her scientific call to action has centered on resolving the dynamics between fluid-sediment or fluid-sediment-structure interactions in coastal environments through a mixture of fundamental theory and novel field and laboratory observations. At UNH, she led UNH's efforts to establish an undergraduate ocean engineering program and expand its ocean engineering research capacity with a major renovation and building expansion. She serves on the Executive Committee of the US Coastal Research Program and New Hampshire's Offshore Wind Commission. She believes that addressing our increasingly complex societal problems impacted by our oceans will require a firm commitment to a convergent approach where we tackle our tricky problems by leveraging fundamental science across disciplines with stakeholder engagement.

Dr. Benjamin Hamlington

Research Scientist in Climate Change, Jet Propulsion Laboratory, National Aeronautics and Space Administration

Dr. Ben Hamlington is a Research Scientist in the Sea Level and Ice Group, in the Earth Sciences Section. He studies the ocean with a particular focus on sea level variability on interannual to decadal timescales. He has also done considerable work on understanding sea level during the 20th century, comparing historical in situ data to modern satellite observations. He is interested in how sea level responds to both natural and anthropogenic forcing, and what this will mean for coastal populations both now and in the future. He is a member of NASA's Ocean Surface Topography Science team, NASA's GRACE/GRACE-FO Science Team and is the current team lead of the NASA Sea Level Change Science team.

Dr. Rob Holman

Professor Emeritus, Oregon State University

Dr. Holman received his BSc degree in 1972 from the Royal Military College of Canada in Honors Mathematics and Physics, followed by his PhD degree in Physical Oceanography from Dalhousie University in 1979. He then joined the faculty of the College of Oceanography at Oregon State as an Assistant Professor, working his way up to Full Professor in 1991 with Adjunct status in the College of Engineering. Dr. Homan is currently Professor Emeritus in what has now become the College of Earth, Ocean and Atmospheric Sciences at Oregon State University.

Dr. Holman has an extensive record of community and external service including 1.5 years at the Office of Naval Research helping develop a nearshore processes program, five years in MEDEA, ten years working with Navy Special Projects, six years with Ocean Studies Board and seven years with the Coastal Engineering Research Board. In 2003 he was named as the ninth ever SECNAV/CNO Chair of Oceanography for the Navy, representing increased Navy interest in littoral warfare and nearshore remote sensing.

Dr. Holman's research interests focus on nearshore processes including fluid dynamics on a wave-driven sloping beach and the associated morphological response (including erosion), as well as remote sensing approaches to sampling and characterizing the problem. Dr. Holman was the lead developer of the Argus Program of nearshore optical remote sensing and the head of the Coastal Imaging Lab (CIL) at Oregon State University. He has participated in field experiments at the Duck Field Research Facility since 1981 and is a strong supporter of the FRF.

Dr. Holman has extensive international connections, largely related to his research in nearshore remote sensing through the Argus Program. He was the Belle van Zuylen Chair in Oceanography at the University of Utrecht in 1995 and has had long-term relationships with Dutch, British, Italian and Australian coastal researchers.

Dr. Ryan Mieras

Assistant Professor of Coastal Engineering, University of North Carolina Wilmington

Ryan Mieras is an Assistant Professor in Coastal Engineering at the University of North Carolina Wilmington (UNCW). He earned both his Ph.D. and M.C.E. in Civil & Environmental Engineering at the University of Delaware in 2017 and 2014, respectively. He holds a B.S in Ocean Engineering from Texas A&M University (2011). Prior to academia, Mieras worked at the U.S. Naval Research Laboratory – Stennis Space Center as a National Research Council (NRC) Postdoctoral Fellow from 2017-2019, where he developed technology to measure sediment concentration in the coastal swash zone (US patent pending). His research encompasses nearshore sediment transport and hydrodynamic processes via field and laboratory studies, serving to improve our understanding of the physical processes driving coastal flooding and geomorphology in a changing climate. His recent research activities include applied instrumentation development, extreme event reconnaissance observation platforms, post-storm beach recovery, and affordable LiDAR and remote sensing coastal observation systems.

Dr. Mara Orescanin

Associate Professor, Director for the Consortium for Robotics and Unmanned Systems Education and Research, Naval Postgraduate School

Mara Orescanin is an Associate Professor in the Oceanography Department and Space Systems Academic Group at the Naval Postgraduate School where she researches physical processes in the coastal ocean. Her current research includes observations and numerical modeling of bar-built estuaries with a focus on river mouth morphodynamics. She is also the Director of the Consortium for Robotics and Unmanned Systems Education and Research (CRUSER), funded by ONR, which is a group of interdisciplinary faculty and students who research autonomous systems. Dr. Orescanin received her PhD in 2015 in Mechanical and Ocean Engineering from the Massachusetts Institute of Technology and Woods Hole Oceanographic Institution Joint Program in Oceanography. Since arriving at NPS, Dr. Orescanin has focused on integrating unmanned systems and machine learning into observations of small coastal rivers. Dr. Orescanin is also deeply committed to STEM education and runs the annual NPS Design Challenge for high school students,

funded by ONR, which is geared toward integrating the engineering design process into high school classrooms.

Mark Osler

Senior Advisor for Coastal Inundation and Resilience Science and Services, National Oceanographic and Atmospheric Administration

Mark Osler is the Senior Advisor for Coastal Inundation and Resilience for the U.S. National Oceanic and Atmospheric Administration (NOAA) where his leadership advances coastal science and the ability of decision makers to prepare for and respond to changes affecting the nation's coastlines. Mark serves as the NOAA representative within various White House interagency groups including the National Security Council, Office of Science and Technology Policy, and the Council on Environmental Quality.

Mark's inter-agency leadership includes serving as the Co-Chair for the Coasts Workgroups within both the National Climate Task Force and the US Global Change Research Program. Mark also served as the Federal Coordinating Lead Author for the Coastal Effects Chapter, within the recently released 5th National Climate Assessment.

Prior to joining NOAA, Mark worked for 17 years in the private sector. He holds a bachelor's degree in civil engineering from Lehigh University and a master's degree in civil engineering from the University of Delaware's Center for Applied Coastal Research.

Dr. Meg Palmsten

Research Oceanographer, U.S. Geological Survey

Meg Palmsten joined the U.S. Geological Survey's St. Petersburg Coastal and Marine Science Center as a Research Oceanographer in 2020. Her work is focused on studying waves, currents, and transport of sand and other sediments causing coastal change on sandy beaches, with special emphasis on making observations in coastal environments using state-of-the-art technology and developing data-driven models for real-time forecasting of coastal change hazards at timescales of hours to days. She is especially interested in understanding model uncertainty and communicating forecasts with stakeholders and end users. Prior to her present position, Dr. Palmsten

spent nearly a decade as an Oceanographer in the Seafloor Sciences Branch of the U.S. Naval Research Laboratory. Dr. Palmsten received her PhD from Oregon State University, her master's degree from the University of South Florida, and her bachelor's degree from Eckerd College.

Dr. Stephanie Patch

Associate Professor, University of South Alabama

Stephanie is an Associate Professor of coastal engineering at the University of South Alabama with expertise in the interactions between civil infrastructure and morphological changes on barrier islands during tropical cyclones and sea level rise. She is also the co-owner of Coastal Zone Engineers, LLC, a woman and veteran owned small business, and is a licensed Professional Engineer in Alabama.

Stephanie received her BSCE (2010) and MSCE (2012) from Georgia Tech and her PhD (2016) from Virginia Tech, and she has more than 10 years of experience as a coastal engineer. Stephanie developed "adaptation pathways" for barrier island communities in New Jersey and Alabama as responsive planning tools for adapting to sea level rise and future storms. She served on reconnaissance missions with National Science Foundation Geotechnical Extreme Event Reconnaissance (GEER) and Structural Extreme Event Reconnaissance (StEER) teams to survey damage in communities by hurricanes and tornadoes. Stephanie served as the lead facilitator and co-organizer of a day-long forum to engage the general public in coastal resilience planning. She was also part of a team to develop Sea Level Rise in the Classroom curricula for Alabama and Mississippi high school teachers, which is now being expanded to Florida, Louisiana, and Texas. Stephanie has earned several awards, including the *Andy and Carol Denny National Alumni Association Excellence in Teaching Award* (2021) and the Gulf Research Early-Career Faculty Fellowship (2020). She is a member of many organizations, including the American Shore and Beach Preservation Association (ASBPA) and the American Society of Civil Engineers (ASCE), and she serves as the faculty advisor for the Society of American Military Engineers (SAME) student chapter at the University of South Alabama.

Dr. Jack Puleo

Professor and Chair of the Department of Civil and Environmental Engineering, University of Delaware

Jack Puleo is a Professor and Chair in the Department of Civil and Environmental Engineering and a core faculty member of the Center for Applied Coastal Research (CACR). He completed a B.S. from Humboldt State University, a M.S. from Oregon State University and the Ph.D. from the University of Florida. He joined the faculty at UD in 2004. He was a Fulbright Scholar and visiting Professor at Plymouth University in 2011-2012.

Puleo conducts research on small-scale hydrodynamic and sediment transport processes in coastal environments. His recent research involves designing sensor networks, developing new sensors, conducting rapid-response deployments to quantify intra-storm processes, and investigating sea level rise scenarios and nature-based solutions for military facilities. Outcomes of the research lead to improved parameterizations for sediment transport that could be incorporated into high resolution and engineering-level predictive models for coastal change.

He has received the NSF CAREER Award in 2007, teaching awards from ASCE, the College of Engineering, and the University of Delaware (twice), a Chi Epsilon advising award, an ASBPA Robert G. Dean Award, and a German DAAD Scholarship. He is a civilian member of the USACE Board on Coastal Engineering Research

Dr. Julie Rosati

Technical Director Civil Works Research and Development, U.S. Army Corps of Engineers, Co- Executive Director, USCRP

Dr. Julie Rosati is the Engineer Research & Development Center's lead Technical Director (TD) for Civil Works R&D, and TD for Flood and Coastal Risk Management R&D. In this role, she oversees multi-disciplinary U.S. Army Corps of Engineers research initiatives in Flood and Coastal Risk Management, Navigation, and Environmental Restoration, as well as multiple Federal agency and international partnerships. Through this research, ERDC conducts fundamental and applied studies in collaboration with academic, agency and non-governmental partners to

infuse innovation into the Corps business processes, advance the state of knowledge, and improve technologies, methods, and tools.

Her background is in coastal research, with focus on regional sediment management and regional sediment budgets, coastal inlet and adjacent beach evolution, barrier island migration, and quantifying coastal resilience. Dr. Rosati serves as the Designated Federal Officer for the Board on Coastal Engineering Research, a Federal Advisory Committee that provides R&D recommendations to the Chief of Engineers and the Assistant Secretary of the Army. She is an Executive Director of the U.S. Coastal Research Program, a national community of practice via collaboration of federal agencies, academics, and stakeholders intended to address coastal research needs and transition outcomes into practice.

She has Bachelors and Masters in Civil Engineering, and a PhD in Oceanography, is a Professional Engineer in Mississippi, member of the American Society of Civil Engineers, and is an Associate Editor for the ASCE *Journal of Waterway, Port, Coastal, and Ocean Engineering*. She was recognized nationally with the *Orville T. Magoon Sustainable Coasts Award* from the American Society of Civil Engineers in 2021, and the *Morrough P. O'Brien Award* from the American Shore and Beach Preservation Association in 2023.

Dr. Peter Ruggiero

Professor, College of Earth, Oceanic, and Atmospheric Sciences, Director of the Cascadia Coastlines and Peoples Hazards Research Hub, Oregon State University

Peter Ruggiero is a Professor in the College of Earth, Ocean, and Atmospheric Sciences at Oregon State University. Ruggiero's primary research interests include coastal geomorphology and coastal hazards, and he has over two decades of experience in assessing the impacts of storms and climate change to beaches and dunes. Currently Ruggiero's research group is developing probabilistic approaches for assessing vulnerability to coastal hazards in light of a changing and variable climate. He currently leads several transdisciplinary projects that are assessing coastal resilience and ecomorphodynamics in the US Pacific Northwest and elsewhere. Ruggiero is Principal Investigator and co-Director of The Cascadia Coastlines and Peoples Hazards Research Hub, a multi-institutional NSF-funded

project focused on increasing resiliency among coastal communities in the Pacific Northwest.

Dr. Tracie Sempier

Resilience Engagement Lead, Mississippi-Alabama Sea Grant
Dr. Tracie Sempier is the Coastal Resilience Engagement Specialist for the Mississippi-Alabama Sea Grant Consortium. She works with local communities, state and federal agencies, non-profit organizations, businesses, coastal managers, residents, and K-12 audiences to try and decrease the negative impacts of disasters (natural, technological, and biological) on families, communities, and the environment. Tracie is also the VORTEX-SE Engagement Coordinator. She is creating a model for regional extension programming focused on severe weather, synthesizing research findings to inform application at the local level, and working to create safe sheltering options for vulnerable populations. Dr. Sempier is the lead for the Gulf of Mexico Climate and Resilience Community of Practice where she utilizes existing networks to build connections with target audiences. Tracie has over twenty years of professional experience in education/outreach with various audiences in formal/informal learning environments. She is a recipient of the prestigious Gulf Guardian Award and the Spirit of Community Award for her work on resilience issues in the Gulf of Mexico. She earned a B.S. in Marine Science and Biology from the University of Alabama, a M.S. in Science and Mathematics Education at Oregon State University, and a Ph.D. in Curriculum and Instruction from Mississippi State University.

Dr. Katy Serafin

Assistant Professor, Department of Geography, University of Florida
Dr. Katy Serafin is an Assistant Professor in the Department of Geography at the University of Florida (UF). Her research focuses on extreme sea levels and coastal flooding and erosion hazards to better understand how our coastlines are changing and the resultant consequences for people and places. Before joining UF, she was a postdoctoral researcher at Stanford University with the Department of Geophysics and the Stanford Urban Resilience Initiative. She received an M.S. and Ph.D. in Ocean, Earth, and Atmospheric Sciences from Oregon State University and a B.A. in Environmental Studies from Connecticut College. Prior to graduate school, she worked at the U.S. Geological Survey's St. Petersburg Coastal and Marine Science Center to evaluate the impact of storm-induced coastal change hazards. She has

worked on multiple stakeholder-driven projects with researchers from a range of subjects, outreach/extension specialists, and state, tribal, county, and other government agencies. She received the 2021 UF Early Career Florida Climate Institute's Faculty Fellow award for her contributions to interdisciplinary climate research, extension, and education programs.

Dr. A.R. Siders

Assistant Professor, Disaster Research Center

A.R. Siders is Director of the Mangone Climate Change Science and Policy Hub and an associate professor of public policy, geography, and marine policy at the University of Delaware. Her research focuses on the ethics and evaluation of coastal climate change adaptation, with an emphasis on relocation, transformation, and adaptation justice. She is an Oceans Decade Champion in the NSF program and a member of the Coastal Hazards, Economic prosperity, Equity, and Resilience (CHEER) Coastlines & People Hub. Her work has been published in Science and Nature and covered by the New York Times, National Public Radio, and C-SPAN. She holds a JD from Harvard and a PhD from Stanford. She's originally from Duluth, Minnesota, and misses the cold. Ask her about climate change video games.

Dr. Jonathan Simm

Technical Director of Resilience, HR Wallingford

Dr Jonathan Simm FREng no longer works full time. After a career in coastal engineering and flood risk management, Jonathan continues to work for HR Wallingford and other clients, dealing with issues such as performance, risk, materials and sustainability. A significant focus of Jonathan's work in recent years has been on flood defence resilience, including asset management, and on the reliability of defences (determination of fragility curves and their use), a subject on which he has worked and published in regard to projects in both Europe and USA. Jonathan was Technical Lead for the production of the International Levee Handbook, is the UK representative on the ICOLD Levee Technical Committee and is currently assisting USACE in the production of the US National Levee Safety Guidelines. Indeed, for over 30 years, Jonathan has used his knowledge to write and edit

guidance documents for coastal and river engineering practitioners (such as on the use of rock, timber, concrete and waste materials.) Recently, Jonathan was an active member of the editorial board for the production of the International guidelines on natural and nature-based features. During his PhD (2005 to 2015), Jonathan researched and analysed the role of community direct-action self-help groups in the maintenance and management of flood conveyance and defence assets.

Dr. Hilary Stockdon

Program Coordinator for Coastal-Marine Hazards and Resource Program, U.S. Geological Survey

Dr. Hilary Stockdon is the Program Coordinator for USGS Coastal-Marine Hazards and Resources. In previous roles, inside and outside of USGS, her focus has been on leading the development and coordination of National programs for coastal research and science applications aimed at addressing stakeholder needs. Her earlier research on the impacts of storms on coastal communities has led to tools that predict beach response to extreme events and raised public awareness about the value of scientific information on coastal vulnerability, helping residents prepare for challenges associated with living by the ocean. She received her B.S. in Geology from Duke University and her M.S. and Ph.D. in Oceanography from Oregon State University.

Dr. Amanda Stoltz

Social Scientist, U.S. Geological Survey

Amanda Stoltz is a social scientist and Pathways Career Intern at the U.S. Geological Survey's Pacific Coastal and Marine Science Center. Prior to joining the USGS, Amanda worked as a fisheries anthropologist at NOAA's Southeast Fisheries Science Center and she is currently a Ph.D. Candidate at the University of California, Santa Cruz. Her research focuses on coastal resilience, environmental justice, and the human dimensions of coastal systems. Amanda plans to graduate this August and is looking for a job!. For more information, see Amanda's website: http://amandadstoltz.weebly.com/

Beau Suthard, PG

Program Director, Coastal, Ports & Marine Lead at APTIM

Beau Suthard is a Program Director for APTIM. In this role he serves as APTIM's National Coastal, Ports, & Marine Director. Mr. Suthard is responsible for the quality, timely, and within budget execution of APTIM's marine, coastal, estuarine, port, and flood control projects nationally. Mr. Suthard is a Geological Oceanographer by training, and assists with coordinating, planning, executing, and processing APTIM's marine sediment/sand search and borrow area design geophysical and geotechnical investigations. Originally from Maryland, Mr. Suthard a resident of St Petersburg, Florida. He holds a Master of Science Degree in Geological Oceanography from the University of South Florida, College of Marine Science and a Bachelor of Science Degree in Marine Science (Geology Track) from Eckerd College.

Dr. Amanda Tritenger

Research Hydraulic Engineer and Deputy Program Manager for the Engineering With Nature Program, U.S. Army Corps of Engineers

Dr. Amanda Tritinger is the deputy program manager for the US Army Corps of Engineers (USACE) Eng6/ineering With Nature (EWN) Program. She is also a distinguished research hydraulic engineer specializing in coastal engineering, with a particular emphasis on numerical modeling. Stationed at the US Army Engineering Research and Development Center's Coastal and Hydraulics Laboratory (ERDC's CHL), she collaborates extensively with across ERDC Labs, USACE Districts, and external partners. Driven by a steadfast commitment to advancing coastal resilience, her research aims to foster a more resilient future for America's coastal communities.

Her dedication and contributions have been recognized with accolades including the ERDC's CHL's Team Member Award and CHL's Achievement of Army Award in 2020, the Department of the Army's Achievement of Army Medal in 2021, and the Department of the Army's Commendation Medal in 2022 . Additionally, she is a graduate of Leadership and Development and actively participates in EWN research collaboration through the Network for Engineering With Nature (N-EWN).
She is an active American Shore and Beach Organization member and in the ADvanced CIRCulation numerical modeling developers' community.

Dr. Tritinger earned her Bachelor of Science Degree in environmental engineering from the University of Central Florida, her Master of Science Degree in civil engineering from the University of North Florida, and her Doctor of Philosophy Degree in coastal and oceanographic engineering from the University of Florida. Dr. Tritinger is also a registered Professional Engineer.

Dr. Tritinger lives in Vicksburg, MS and shares her home with her husband and dog. Outside of her professional endeavors, she channels her passion into renovating her historic home.

Dr. Thomas Wahl

Assistant Professor, University of Central Florida
Thomas Wahl is an Associate Professor for Coastal Risks and Engineering at the University of Central Florida (UCF), where he is affiliated with the Civil, Environmental, and Construction Engineering Department and the National Center for Integrated Coastal Research (UCF Coastal). He obtained a Diploma in 2007 and PhD in 2012 in Civil Engineering at the University of Siegen, Germany. Afterwards, he became a postdoc at the College of Marine Science at the University of South Florida. Before joining UCF in 2017, he was a Marie Curie Fellow of the European Union at the University of Southampton, UK. He studies changes in coastal sea levels (mean and extreme), ocean waves, and freshwater flows and the associated impacts to support the development of resilient adaptation strategies in the face of uncertainties in future climate projections.

Dr. Bret Webb

Professor and Director of Applied Coastal Engineering and Science, University of South Alabama, Co-Executive Director, USCRP
Dr. Bret Webb is a Professor of Coastal Engineering in the Department of Civil, Coastal, and Environmental Engineering and serves as Director of the Center for Applied Coastal Engineering and Science at the University of South Alabama. Dr. Webb has more than 20 years of experience as a civil/coastal engineer including considerable time in both consulting and academia. Dr. Webb is a licensed professional engineer (AL, FL) and is recognized by the Academy of Coast, Ocean, Port, and Navigation Engineers as a Board Certified Coastal Engineering. Dr. Webb's area of research and professional practice deals with coastal resilience. Within that broad topic, he focuses on resilience of the built environment to extreme events and

climate change, and on the resilience benefits provided by nature-based solutions. Dr. Webb has more than 50 publications and has given more than 100 technical presentations on coastal resilience topics. Some of those publications include guidance documents for the US Department of Transportation Federal Highway Administration; the Transportation Research Board; the National Academies of Science, Engineering, and Medicine; and the US Global Change Research Program. Dr. Webb currently serves as Chair of the Coastal Council for ASCE-COPRI; President of the ASBPA Central Gulf Coast Chapter; Editorial Board Member for the Shore & Beach Journal; and one of four Co-Executive Directors for the US Coastal Research Program.

Dr. Greg Wilson

Associate Professor, Oregon State University

Dr. Greg Wilson is an Associate Professor in the College of Earth Ocean and Atmospheric Sciences at Oregon State University. He holds a Bachelor of Science degree from University of Victoria, and a PhD in Oceanography from Oregon State University. Prior to joining the OSU faculty in 2016, he was a Postdoctoral Scholar at Dalhousie Unversity.

Wilson's research focuses on the physical dynamics of the nearshore coastal ocean and beaches, with an emphasis on sediment transport processes at time scales from waves to turbulence. His recent work includes the application of acoustic sonar to obtain direct field measurements of sediment transport; and development of theories to quantify uncertainty in sediment transport predictions. His work is supported by the US Coastal Research Program, Office of Naval Research, National Science Foundation, US Army Corps of Engineers, and Oregon Sea Grant.