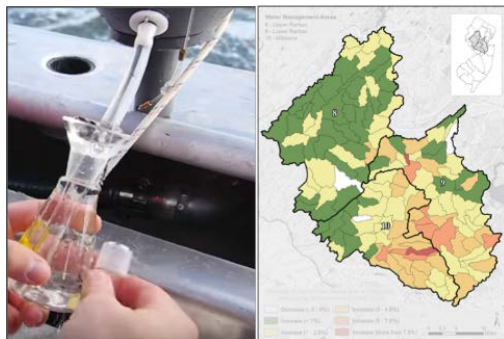# 10th Annual Sustainable Raritan River Conference and Awards Ceremony

Micro to Macro

The Future of the Raritan

Kathleen W. Ludwig Global Village Learning Center
Rutgers, The State University of New Jersey
Douglass Honors College, 26 Nichol Avenue, New Brunswick
Friday, June 8, 2018

Participant Biographies

Brian Buckley, PhD, Executive Director of Laboratories, Environmental and Occupational Health Sciences Institute, Rutgers, The State University of New Jersey. Dr. Buckley received his BS in chemistry from the University of New Hampshire in 1983 his PhD in analytical chemistry from North Carolina State University in 1989 and completed a postdoctoral fellowship at Oak Ridge National Laboratory. He is the Executive Director of Laboratories at the Environmental and Occupational Health Sciences Institute at Rutgers University. Dr. Buckley is an NIEHS Center Facility Core Director, a member of the graduate faculty of the Rutgers Environmental Sciences Department, and the Joint Graduate Program in Toxicology as well as the School of Public Health. His research focus is on analytical mass spectrometric methods development and modification to measure environmental contaminants and their metabolites. His research has focused on innovative analytical techniques such as Microwave Assisted Solvent Extraction MASE solid phase micro extraction SPME and metal speciation to measure contaminants in multiple media.

Keith R. Cooper, PhD, Professor, Department of Biochemistry and Microbiology, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey. Dr. Cooper is a professor in the Department of Biochemistry and Microbiology and a member of multiple graduate programs. Keith has been at Rutgers University since 1981 and has served in several administrative roles and as a mentor for over 40 Ph.D. and M.S. students in toxicology, biochemistry and environmental science. He received his Ph.D. from the University of Rhode Island in Comparative Pathology. He also holds M.S. degrees in Marine Biology from Texas A&M and Industrial Toxicology from Thomas Jefferson Medical School. He currently serves as the Chair of the NJ Drinking Quality Institute, Board member for NJ Sea Grant and on several NJ SAB committees. His research involves emerging contaminants and the understanding of the mechanism of actions of contaminants on eukaryotic organisms.

Michael Catania, JD, Executive Director, Duke Farms Foundation. Duke Farms, serves as a model of sustainability and environmental stewardship on 2,742 acres in Hillsborough, NJ. Michael founded Conservation Resources Inc., a nonprofit conservation group that provided financial and technical assistance to the conservation community in New Jersey. Previously, he served as Deputy Commissioner of the NJ Department of Environmental Protection, Executive Director of The Nature Conservancy of NJ, and he has been the Chair of the NJ Natural Lands Trust for many years. Michael also currently serves as Co-chair of the New Jersey Climate Adaptation Alliance.

Donna Fennell, PhD, Professor, Department of Environmental Sciences, Rutgers, The State University of New Jersey. Dr. Fennell is an environmental engineer/environmental microbiologist who studies biological processes in natural and engineered systems. Her work seeks to discover novel activities of microorganisms in Earth's atmosphere; understand factors controlling the activity, makeup and efficiency of microbial consortia in the waste to energy process, anaerobic digestion; and harness the power of microorganisms to treat contaminated groundwater and sediments. Her group uses interdisciplinary approaches, modeling and cutting-edge molecular and chemical tools to characterize diverse microbial environments.

Carrie Ferraro, PhD, Program Coordinator, Department of Marine and Coastal Sciences, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey. Carrie received her Ph.D. from Rutgers in Oceanography in 2010, studying the active microbial population in aquatic environments using molecular markers. After graduating, she began working with researchers to communicate their science through the construction and implementation of innovative and effective Broader Impact statements that fulfill National Science Foundation requirements. Through this effort, she created high quality educational materials that fostered connections between students, faculty, K-12 teachers, and researchers. Currently, Carrie works with the Rutgers Raritan River Consortium (R3C) to create opportunities for students and researchers to access and study the evolving status of the Raritan River. She is also the program coordinator for Coastal Climate Risk & Resilience (C2R2), an NSF Research Traineeship (NRT) working to prepare the workforce that will build coastal resilience in the face of climate risks.

Sandra Goodrow, PhD, Research Scientist, Division of Science, Research, and Environmental Health, New Jersey Department of Environmental Protection. Dr. Goodrow is a Research Scientist in the New Jersey Department of Environmental Protection's (NJDEP) Division of Science, Research, and Environmental Health. She received her Ph.D. from Rutgers University in Environmental Science. Dr. Goodrow is an environmental modeler, evaluating the sources, fate, transport and transformation of emerging compounds including per- and polyfluorinated alkyl substances (PFAS). She has been involved in a number of contaminant studies including several source track down in New Jersey. She provides the technical support for the Contaminants in Fish Tissue program and coordinates efforts to address issues surrounding emerging contaminants within the NJDEP. She is co-lead for the PFAS Fate and Transport Team for the Interstate Technology Regulatory Council (ITRC), which has produced six fact sheets on PFAS and is currently compiling a PFAS Guidance Document.

Robert M. Goodman, Ph.D., Executive Dean of Agriculture and Natural Resources, Rutgers, The State University of New Jersey. In that capacity, he serves as the executive director of Rutgers New Jersey Agricultural Experiment Station and executive dean of Rutgers School of Environmental and Biological Sciences. Dean Goodman is a plant biologist and virologist by training. In recent years, his work has been in microbiology, specifically on the diversity of microorganisms in soil that are recalcitrant to cultivation. Before coming to Rutgers in June 2005, Dean Goodman was a professor of plant pathology and environmental studies at the University of Wisconsin–Madison, where he also served as chair of the undergraduate major in molecular biology. Dean Goodman has served as senior scholar-in-residence at the National Research Council/National Academy of Sciences, executive vice-president of R&D at Calgene, Inc., and a professor at the University of Illinois Urbana–Champaign. His work has appeared in premier journals, including Nature, Science, Virology, and the Proceedings of the National Academy of Sciences. He is a fellow of the American Association for the Advancement of Science (AAAS) and is a past chair of the Agriculture, Food and Renewable Resources section of the AAAS. He's also a fellow of the American Academy of Microbiology and a trustee of the International Maize and Wheat Improvement Center (CIMMYT). He holds a bachelor's degree in plant sciences and a doctorate in plant pathology from Cornell University. His postdoctoral fellowship in plant virology was completed at the John Innes Center in Norwich, England.

Michael Greenberg, Ph.D., Interim Dean and Distinguished Professor, Edward J. Bloustein School of Planning and Public Policy, Rutgers, The State University of New Jersey. Dean Greenberg studies environmental health and risk analysis. He was previously associate dean of the faculty. He has written more than 30 books and more than 300 articles. His most recent books are Explaining Risk Analysis: Protecting Health and the Environment (Routledge 2017), Urban Planning and Public Health: A Critical Partnership (with Dona Schneider, APHA 2017), The Environmental Impact Statement After Two Generations: Managing Environmental Power, New York: (Routledge 2011), Nuclear Waste Management, Nuclear Power and Energy Choices: Public Preferences, Perceptions, and Trust, (Springer 2012), and Protecting Seniors Against Environmental Disasters: From Hazards and Vulnerability to Prevention and Resilience (Earthscan 2014). He has been a member of National Research Council Committees that focus on the destruction of the U.S. chemical weapons stockpile and nuclear weapons; chemical waste management; and the degradation of the U.S. government physical infrastructure, and sustainability and the U.S. EPA. Currently, he is chairing a Committee for the appropriations committees of the U.S. Senate and House to determine the extent that the US DOE emphasizes human health and safety in its allocations for remediating former nuclear weapons sites. Dean Greenberg has received awards from the United States Environmental Protection Agency, the Society for Professional Journalists, the Public Health Association, the Association of American Geographers, and Society for Risk Analysis. He served as area editor for social sciences and then editor-in-chief of Risk Analysis: An International Journal during the period 2002-2013, and continues as associate editor for environmental health for the American Journal of Public Health.

Jeanne Herb, Associate Director, Environmental Analysis and Communications Group, Edward J. Bloustein School of Planning and Public Policy, Rutgers, The State University of New Jersey. Jeanne's work at the Bloustein School focuses on leading collaborative research and applied projects that advance sound environmental and sustainability practices at the state, local and regional levels. Among other projects, Jeanne co-facilitates the New Jersey Climate Adaptation Alliance, a network of governmental, non-profit, and business organizations focused on advancing climate change and resilience policies and practices in New Jersey, the New Jersey Planning Healthy Communities Initiative, a university-based collaborative that focuses on promoting "health in all policies" strategies at the state and community levels, and the Sustainable Raritan River Initiative, a collaborative effort to integrate multidisciplinary science and research into planning and decision-making within the Raritan River Basin. Prior to joining the Bloustein School, Jeanne was the Assistant Commissioner for Policy, Planning and Science at the New Jersey Department of Environmental Protection where she led multidisciplinary and cross-program efforts related to climate change and energy, Environmental Justice, smart growth and sustainable development, environmental health and science policy and coastal management.

William Kibler, JD, Director of Policy, Raritan Headwaters. Raritan Headwaters protects water in our rivers, our streams and our homes. Bill was the Executive Director of the South Branch Watershed Association from 2005 until RHA was created in 2011. An attorney (JD, Syracuse University) whose practice focused on environmental law, land use, and corporate sustainability, he served in the Army Corps of Engineers after graduating from the United States Military Academy. Bill serves on the campaign committee for Keep It Green, and the board of trustees of the New Jersey Highlands Coalition. He lives on the South Branch of the Raritan River in Califon and is a past chief of the Califon Fire Company.

Richard G. Lathrop, Jr., Ph.D., Professor, Department of Ecology, Evolution & Natural Resources, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey. Rick co-leads the Sustainable Raritan River Initiative and is the inaugural holder of the Johnson Family Chair in Water Resources and Watershed Ecology. He has also served as Director of the Walton Center for Remote Sensing & Spatial Analysis since 1999 and is the Faculty Director for the Rutgers Eco Preserve in Piscataway. He holds a PhD in

Environmental Monitoring and an MS in Forestry from the University of Wisconsin-Madison and a BA in Biology from Dartmouth College.

Sara J. Malone, MES, Facilitator, Sustainable Raritan River Initiative, Rutgers, The State University of New Jersey. Sara is a Senior Research Specialist in the Environmental Analysis & Communications (EAC) Group at Edward J. Bloustein School of Planning and Public Policy where she works with the Sustainable Raritan River Initiative and Rutgers Raritan River Consortium. As part of the EAC Group, Sara has worked with state and local governments on several planning projects including a Brownfield to Greenfield project in Perth Amboy, a statewide climate adaptation/habitat vulnerability assessment project and a Municipal Public Access Plan and Coastal Vulnerability Assessment for New Brunswick. Sara is a part-time lecturer at Bloustein and co-taught a graduate planning studio on wetlands and habitat restoration for a working waterfront in the Raritan Center as well as a graduate planning studio focused on environmental, design and regulatory aspects of the Raritan River boardwalk and bicycle/pedestrian bridge as proposed in the Rutgers 2030 Master Plan. She holds a Bachelors in Earth Science from the University of Massachusetts/Boston and she received a Master of Environmental Studies from the University of Pennsylvania. Sara serves as Chair of the Franklin Township Shade Tree Commission in Somerset.

Debbie Mans, Esq, Deputy Commissioner, New Jersey Department of Environmental Protection. Debbie joined DEP as Deputy Commissioner on February 14, 2018. Before joining the DEP, Deputy Commissioner Mans served as Baykeeper and Executive Director for the Matawan-based NY/NJ Baykeeper since April 2008. Prior to joining Baykeeper, she served as Environmental and Energy Policy Advisor to then-Governor Jon S. Corzine, assisting in the development of a State Energy master Plan charting clean energy plans through 2020. She also served as the Governor's appointment to the State Planning Commission as the Smart Growth Ombudsman. Before working for the Governor, Deputy Commissioner Mans served as Baykeeper's Policy Director from 2002 to 2006, where she developed policies and programs to promote Baykeeper's mission.

From 2000 to 2002, Deputy Commissioner Mans worked with the Stony Brook-Millstone Watershed Association as a Policy and Outreach Specialist. In that role, Deputy Commissioner Mans directed activities for a program designed to build New Jersey's community-based watershed organizations.

Deputy Commissioner Mans graduated from the University of Michigan and Vermont Law School. She is the former Chair of the New Jersey League of Conservation Voters (NJLCV) and a current member of her Borough Council.

John Reinfelder, PhD., Professor, Department of Environmental Sciences, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey. Dr. Reinfelder has conducted research on the accumulation and trophic transfer of trace metals in marine and estuarine organisms, mercury cycling in aquatic ecosystems including the sources, transformations, and bioaccumulation of mercury in the continental shelf waters west of the Antarctic Peninsula, the physiological ecology of marine phytoplankton, sulfur biogeochemistry, and trace element accumulation in rice. He received a B.A. in Biology from Johns Hopkins University and a Ph.D. in Coastal Oceanography from Stony Brook University. He joined the Department of Environmental Sciences at Rutgers in 1996 where he has taught environmental chemistry, aquatic chemistry, and a freshman seminar on New Jersey's estuarine waterways.

Greg Remaud, Baykeeper and Chief Executive Officer, NY/NJ Baykeeper. Greg has been an advocate for land preservation in densely developed communities for over 20 years. He has led and partnered in numerous land acquisition, preservation and restoration projects throughout the NY-NJ Harbor Estuary Region. Greg serves on numerous Advisory Boards and has presented on urban land preservation in a variety of forums. He is a trustee on the board of the Meadowlands Conservation Trust, and a board member and past president of the Liberty State Park Conservancy.