

2019 | NC Green Industry Council - 9th Annual Water Symposium

Cultivating Water Stewardship



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Our Evolving Environment

June 20, 2019

McKimmon Center, Raleigh, NC

~ Honorary Chair: Dan Gottlieb ~

Director of Planning, Design and Museum Park, NC Museum of Art



Karen Firehock

Director, Green Infrastructure Center, Charlottesville, VA

Karen is the Director and co-founder of the Green Infrastructure Center. She oversees green infrastructure planning and research projects. She is an environmental planner with more than 30 years of experience in planning and natural resources management. She is also an adjunct lecturer in green infrastructure planning and landscape design at the University of Virginia School of Architecture. Prior to her current position, she was a Senior Associate at the UVA Institute for Environmental Negotiation and served as coordinator for community watershed and land use plans for localities. She also coordinated the national Community-Based Collaboratives Research Consortium, and conducted public outreach for the USDA Forest Service's Roundtable on Sustainable Forests.

Karen has authored numerous handbooks, including the "Local Government's Guide to Stream Corridor Protection, Collaboration: A Guide for Environmental Advocates," a "Handbook for Wetlands Conservation and Sustainability," "A Citizen's Streambank Restoration Handbook" and "Local Watershed Management Planning in Virginia, A Community Water Quality Approach." Her most recent publication is "Evaluating and Conserving Green Infrastructure Across the Landscape." She has won multiple awards for her planning work, including a Renew America Award for the Nation's Best Water Protection Program, a National River Greenways Award, State Conservationist of the Year Award and Design Professional of the Year Award as well as an award from the Southern Group of State Foresters for her urban forest conservation work.



Andy Fox, PLA, ASLA

Associate Professor of Landscape Architecture, Co-Director, Coastal Dynamics Design Lab, NC State University, Raleigh, NC

Andrew Fox, PLA, ASLA, is an Associate Professor and University Faculty Scholar in the NC State Department of Landscape Architecture. He is also a professional landscape architect, NC State Center for Geospatial Analytics Faculty Fellow, NC State Community Engaged Faculty Fellow and founding co-director of the Coastal Dynamics Design Lab (CDDL). The CDDL is an interdisciplinary research and design initiative housed within the NC State College of Design that addresses critical ecological and community development, hazard mitigation and disaster preparedness challenges in coastal regions. Andrew's research, engagement and teaching activities specialize in the areas of resilient community design, green infrastructure and sustainable stormwater management, high-performing public landscapes and public involvement.



Christian Gabriel, PLA, ASLA

National Design Director-Landscape Architecture, US General Services Administration, Washington, DC

Christian is an innovative, results-oriented executive and program director. He has significant experience operating nationally at a senior level in federal government and private consultancy in both New York City and Washington, DC. Currently he is working at the intersection of design, policy and new programs, with a mission-driven and collaborative management style focused on advancing wider integration of landscape thinking in the delivery of complex capital projects.

Christian has served on both design and academic juries for universities such as UPenn, Columbia, Harvard, the City College of New York and the University of Massachusetts-Amherst, and professional juries such as the American Institute of Architects and the American Society of Landscape Architect's professional and student awards programs. Additionally, Christian has served on the awards jury for the National Disaster Resilience Competition, awarding approximately \$1 billion in federal funding for landscape-scale public projects to act as an accelerator to increase disaster preparedness nationwide. In addition to his current work at the GSA, Christian currently serves on the board of directors at the University of Pennsylvania's McHarg Center; a salon dedicated to fostering a dialogue between policy makers, academics, designers, citizens, journalists and environmental planners, focused on developing innovative and practical ways to manage risk for our most vulnerable communities, in the face of a changing climate.



Dr. John Havlin

Professor & Extension Specialist, Department of Crop and Soil Science, NC State University, Raleigh, NC

John Havlin has expertise in soil fertility/chemistry, soil management, precision agriculture and viticulture. He received his Bachelor of Science in Chemistry from Illinois State University and his Master's and Ph.D. in Soil Chemistry from Colorado State University. John is a Fellow in the Soil Science Society of America, American Society of Agronomy and the National Association of College Teachers in Agriculture. He served on numerous state, regional and national committees and advisory boards related to nutrient management, natural resources, sustainable agriculture and environmental quality. As President of the Soil Science Society of America (2005), he developed nationally recognized research/education programs in soil/crop/nutrient management and precision agriculture. He provides leadership in soil science distance education. Over his career, John has received numerous research, teaching and extension awards, and is a recipient of the USDA Honor Award (2004). He's authored 300+ technical papers/book chapters and authors the internationally recognized textbook "Soil Fertility and Fertilizers." Currently John teaches four classes (600 students/year), while conducting research to support NC wine grape growers. He also provides basic soils training for the NC Master Gardeners program.



Dr. Richard Linton

Dean, College of Agriculture and Life Sciences, NC State University, Raleigh, NC

Since 2012, Richard has been serving as the Dean of the College of Agriculture and Life Sciences at NC State University. He oversees a college of more than 300 faculty housed in 12 different departments, with more than 2,800 students enrolled in the 4-year degree program, nearly 400 students enrolled in the 2-year Agriculture Institute and more than 1,000 graduate students. Under his direction, the college has developed a new strategic plan that focuses on "building people, programs and partnerships." This effort has led to "BIG-IDEAS" and new ways of thinking for the college. Large interdisciplinary and partnership initiatives have been created for Plant Sciences, Food Manufacturing and the Food Animal Industry. The college recently experienced an aggressive faculty hiring program—with a goal to hire 120 new faculty within a 3-year period. Research productivity is at an all-time high, with an average of \$75 million being awarded each year. The college has raised more than \$350 million toward the NC State "Think and Do the Extraordinary" Capital Campaign. Nine new college buildings have been constructed in his tenure and the ground breaking for the new \$160 million NC Plant Sciences Building is planned for the fall of 2019. Best of all, Richard continues to do what he loves most – that is to teach. Every spring he and the NC Commissioner of Agriculture co-teach the course "New Ventures in Agriculture."



Dr. Christy Rollinson

Forest Ecologist, The Morton Arboretum, Lisle, IL

Growing up in rural Appalachia, Christy knew she wanted to pursue a career path that would allow her to do meaningful and important research on the issues facing trees and forests. She obtained her Bachelor's degree in Biology from Oberlin College and attended The Pennsylvania State University where she obtained her Master's and Ph.D. in Ecology, focusing her dissertation on climate effects and community assembly in Central Appalachian forests. Prior to joining The Morton Arboretum, Christy was a Postdoctoral Research Associate at Boston University, coordinating and analyzing multiple ecosystem model simulations of forest change over the past millennium. Christy's current work combines citizen science, long-term monitoring, tree rings, and computer modeling to understand how trees and forests change through time in the past, present and future. She regularly interfaces with land managers, educators and visitors to The Morton Arboretum.



Dr. Adam Terando

Southeast Climate Adaptation Science Center, Research Ecologist, US Geological Survey, NC State University, Raleigh, NC

Adam Terando is a Research Ecologist with the US Geological Survey at the Southeast Climate Adaptation Science Center located at NC State University. His research focuses on the risks posed by climate and land use change to ecosystems and the complex human-environment relationships that drive these processes. This includes understanding and predicting climatically-induced changes to extreme wildfires in the Southeast US; developing methods to quantify the information value of climate models for use in adaptive management problems; simulating urban growth and land use pattern changes in the Southeast; and developing ultra-high-resolution climate projections for the U.S. Caribbean to support the creation of robust conservation strategies for at-risk species. Adam also recently served as the federal coordinating lead author and co-author for the "US National Climate Assessment" Southeast and Caribbean Chapters, which provide a comprehensive synthesis of climate change impacts, risks and adaptation choices facing the nation.

