



SEUSS

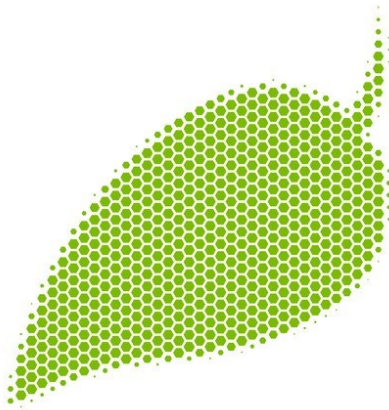
Southeast Urban Sustainability Summit

Southeast Urban Sustainability Summit

August 14-15, 2019

Academic Classroom Building
North Carolina Agricultural and
Technical State University

Welcome!



Welcome to the **Southeast Urban Sustainability Summit (SEUSS)**. SEUSS is convening leaders in urban sustainability from across North Carolina with the goal of forming a Convergence Research Network. Our network will identify key challenges related to the sustainability and resilience of our cities and towns, and develop a research agenda to address these challenges.

The research that comes out of SEUSS will be user-inspired, and will lead to solutions that enable our cities and towns to move toward sustainability and resiliency. Our network is made up of academic researchers from fourteen universities, including many centers; sustainability directors and municipal leaders from twelve of our cities and towns; and many industry and non-governmental organizations.

We intend to continue to grow our SEUSS network after this convening, so that our important work will not only continue, but expand. The clock is ticking, so we must collaborate to find solutions that will move our state forward towards a sustainable future, and lead the way for cities and towns throughout the southeast.

I look forward to meeting and collaborating with each of you!

Dr. Vicki Foust
Principal Investigator
SEUSS

Program Agenda

Wednesday, August 14

- 
- 7:30 – 9:00 am **Academic Classroom Building Atrium**
Registration and Continental Breakfast
- 9:00 – 9:35 am **Academic Classroom Building Room 101**
Welcome
Dr. Vicki Foust, Principal Investigator, SEUSS
Center for Energy Research and Technology, N C A&T State University
- Blessing of the Summit**
Vivette Jeffries, Occaneechi Band of the Saponi Nation
- Welcome to Greensboro**
Honorable Nancy B. Vaughn, Mayor of the City of Greensboro
- Welcome to N C A&T**
Dr. Robin Coger, Dean, College of Engineering, NC A &T
- 9:35 – 10:00 am **Sustainable Urban Systems**
Dr. Selima Sultana, Co-Principal Investigator, SEUSS
Professor in Geography, Environment & Sustainability, UNC-Greensboro
- Convergence Research Network**
Dr. Jamie Russell, Co-Principal Investigator, SEUSS
Director, Appalachian Energy Center, Appalachian State University
- SEUSS as a Convergence Research Network**
Dr. Greg Monty, Co-Principal Investigator, SEUSS
Director, Center for Energy Research and Technology, NC A&T
- 10:00 – 10:30 am **Sustainability – Economics in North Carolina**
Dr. Michael Walden
William Neal Reynolds Distinguished Professor NC State University
- 10:30 am – 11:00 **Sustainability – Environment in North Carolina**
Sushma Masemore, State Energy Director for North Carolina
Deputy Assistant Secretary, NC Department of Environmental Quality
- 11:00 – 11:30 am **Sustainability – Social Equity in North Carolina**
Amanda Martin
Deputy Chief Resilience Officer, NC Office of Recovery and Resiliency
- 11:30 - 11:45 am Q&A
- Noon – 1:00 pm **Student Union Ballroom A**
Lunch
Environmental Defense Fund Cities Initiative Presentation
Megan Anderson , Sustainability Manager, City of Raleigh

Agenda, continued...

- 1:15 – 2:45 pm **Academic Classroom Building**
Breakout Session Round 1: Identify SUS “Grand Challenges and barriers” in each urban system (that must be addressed at the city/urban-community scale; Identify overlap/integration with other urban systems)
- Leaders and Rooms for Rounds 1, 2, and 3**
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|-------------------------|---|
| Energy (107) | Dr. Jamie Russell and Dr. Greg Monty |
| Transportation (108) | Dr. Selima Sultana and Steve Kalland |
| Water (109) | Dr. Marcia Hale |
| Housing (211) | Dr. Stephen Sills |
| Health and Safety (308) | Grace Marasco-Plummer and Dr. Maggie Sugg |
| Food/Agriculture (309) | Nicole Peterson |
- 2:45 – 3:00 pm **Academic Classroom Building Atrium**
Refreshments Break
- 3:00 – 4:00 pm **Academic Classroom Building**
Breakout Session Rounds 2 and 3: Challenges/Barriers continued (Peer review from other urban systems)
- 4:00 – 5:00 pm **Breakout Session Final Round:** Prioritize grand challenges and map barriers to NSF Research Elements
- 5:00 – 6:30 pm **Hotel Check-In**
- 6:30 – 8:30 pm **Center City Park in Downtown Greensboro**
Reception



Agenda, continued...

Thursday, August 15

- 8:00 – 9:00 am ***Student Union Ballroom A***
Breakfast
- 9:15 – 10:00 am **Sustainable Urban Systems Debrief, Group Leader Reports**
What we have learned? Where do we go from here?
- 10:00– Noon **Sustainable Urban Systems Facilitated Session**
(Identify Research opportunities; cross-cutting thrusts; and gaps) Sustainable Urban Systems—identifying Convergent Research Network “ideas/opportunities”
- Noon – 1:00 pm **Lunch**
Opportunity to get to know your future research network
- 1:15 – 2:45 pm ***Academic Classroom Building (Room Assignments Announced at Lunch)***
Breakout Session: Question-driven groups, Networking/Planning; Research Brainstorming for CRN.
- 2:45 – 3:00 pm ***Academic Classroom Building Atrium***
Break
- 3:00 – 3:30 pm ***Academic Classroom Building Room 101***
Concluding Remarks, Next Steps for Convergence Research Network, Adjournment



Speakers

Amanda Martin

Amanda Martin, AICP, is Deputy Chief Resilience Officer with the State of North Carolina. Amanda is passionate about building resilience in ways that advance economic prosperity, strengthen housing options, and celebrate cultural and natural heritage. For the past three years, she ran the Southeast Disaster Recovery Partnership, a multi-state, public-private initiative. In this role, she oversaw capacity building and planning projects in four states, conducted applied research, and built a network of recovery and resilience professionals across the Southeast and Caribbean. Previously, she worked as a Principal Planner for the State of Rhode Island, where she led climate change adaptation planning, demographic analysis, and community engagement with underrepresented populations. Amanda is finishing her PhD in City and Regional Planning from UNC-Chapel Hill, where her dissertation examines post-disaster home buyouts in North Carolina from the perspectives of resilience, recovery, and racial justice. She holds a Master in City Planning from MIT and an undergraduate degree from Harvard.



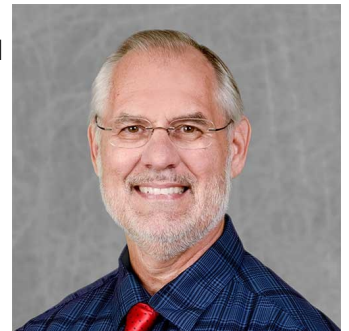
Sushma Macemore

Sushma Macemore serves as DEQ's Deputy Assistant Secretary for Environment and as the State Energy Director. Sushma has 29 years of federal, state, and private sector experience related to pollution control, climate, and energy. In state government, Sushma managed teams of engineers and scientists to develop air quality rules and state implementation plans. At the State Energy Office, Sushma oversees programs related to weatherization assistance, energy planning, and energy efficiency. Sushma is also leading implementation of Governor Cooper's Executive Order on climate change and clean energy economy by bringing clean energy solutions and sustainable practices to North Carolina businesses, citizens, and government operations. Sushma has a B.S. in Chemical Engineering from University of Maryland Baltimore County, and is a licensed Professional Engineer in NC.



Mike Walden

Dr. Michael L. Walden is a William Neal Reynolds Distinguished Professor in the Department of Agricultural and Resource Economics at North Carolina State University, and a member of the Graduate Economics faculty with The Poole College of Management. His Ph.D. degree is from Cornell University and he has been at N.C. State since 1978. He has also been a Visiting Professor at Duke University. Walden has published twelve books and over 300 articles and reports, including his newest book, North Carolina beyond the Connected Age: The Tar Heel State in 2050. Walden can be frequently seen, heard, and read in the media. He has daily radio programs aired on stations around North Carolina. His biweekly column, You Decide, is carried by over 40 newspapers in the state. He has made close to 3000 personal presentations. Walden has won numerous academic and public awards, including two Champion-Tuck Awards for Excellence in Broadcasting, the UNC Board of Governor's Award for Excellence in Public Service, the Order of the Long Leaf Pine, and the Holladay Medal for Excellence from North Carolina State University. He has also served on several state and local commissions, and currently is a member of the NC Future Investment Resources for Sustainable Transportation Commission.



Megan Anderson

Megan Anderson is the Sustainability Manager for the City of Raleigh. She is a people-oriented, energetic, passionate sustainability professional that is committed to supporting sustainable development and positive change within organizations. Megan thrives on creating partnerships, and finding collaborative solutions that fit various stakeholders' needs. She is actively involved in local, national and international sustainable development projects. Her Sustainable Development experience includes working with various organizations; ranging from international corporations, universities, local businesses, non-profits, organizations throughout Asia and Africa, and more. Megan earned a MBA in Sustainable Business from Marylhurt University -Oregon, and a BS in Environmental Science and Management from Indiana University - Bloomington.



The Leadership Team

Vicki Foust Principal Investigator

Dr. Vicki Foust is a Research Associate at the Center for Energy Research and Technology (CERT) at N.C. A&T State University, the Principal Investigator for the NSF funded grant to form SEUSS, and Chair of the Greensboro Community Sustainability Council, an advisory board for the Greensboro City Council. Vicki has been involved in sustainability for many years. Her research interests are in leadership and management related to the sustainability of complex organizations. She taught Sustainable Business and Sustainability and the Built Environment courses at Guilford College and NC A&T, performed many higher education sustainability assessments including greenhouse gas inventories and sustainability assessments using the Sustainability Tracking Assessment Reporting Systems (STARS), developing and implementing pilot projects, providing leadership for student sustainability projects, and auditing performance contract. She is currently working with the City of Greensboro on its LEED for Cities assessment. Vicki holds a PhD in Energy and Environmental Systems from N.C. A&T State University, an MBA from Elon University, and a BS in Business Administration from the University of North Carolina at Greensboro.



Greg Monty, Co-PI

Dr. Greg Monty's career focused on R&D in industry and at universities. Greg led many successful start-ups from small-to-large. Dr. Monty brought investors together with technologists to align ever-changing customer needs with technology solutions to produce win-win results. Greg's experience covers electrical engineering, product and business development, project management, standards development, patents, quality, energy, and sustainability. The start-up efforts Greg has been involved in include: LCD displays (founder of OIS, IPO 1985), GaAs semiconductors (founder of Vitesse Semiconductor, IPO 1990), GaAs cell-phone technology, nano-electronic devices and sensors, restricted substances, environmental regulations, sustainability and GHG mitigation, smart grid technology, solar energy, fuel cells and drones. Greg is presently the Director of the Center for Energy Research and Technology at N.C. A&T State University, and he was a Professor at both the University of Michigan and Arizona State University. Greg has over 18 patents in semiconductor technology, nanotechnology, displays, and sensors. Greg has published dozens of technical reports and papers. Greg earned a PhD & Master's degree in Electrical Engineering from the Massachusetts Institute of Technology (M.I.T.) and a Bachelor's degree from Purdue.



Jamie Russell, Co-PI

Dr. Jamie Russell serves as Director of the Appalachian Energy Center and is an associate professor of Building Science at Appalachian State University. He holds a Bachelor of Science degree in mechanical engineering from Clemson University and received his doctor of philosophy degree in mechanical engineering from the University of South Carolina in 2004. Dr. Russell carried out his post-doctoral research as a Faraday Research Fellow at Ulster University in Belfast focusing on renewable energy in buildings. Russell joined the faculty at Appalachian State University in 2008. During his tenure as Appalachian, he served for two years (2014-2016) as a visiting professor at the École Polytechnique Fédérale de Lausanne (EPFL) in Switzerland. Dr. Russell has managed three Solar Decathlon Competition projects including the Solar Homestead (US Department of Energy (DOE) Solar Decathlon 2011), Solar Decathlon Europe 2014, and US DOE Solar Decathlon 2017. His current research focuses on energy in buildings, energy efficiency and harmonizing building energy consumption and renewable energy sources with the local utility grid.



Selima Sultana, Co-PI

Dr. Selima Sultana (Co-PI for the NSF grant to form SEUSS) is a Professor and Director of Graduate Studies in the Department of Geography, Environment, Sustainability at the University of North Carolina—Greensboro. Dr. Sultana is a geographer with research foci in urban and transportation sustainability. She authored an edited book on transportation modes across the world and published numerous scholarly articles in leading urban and transportation journals. She has received multiple grants to support her work from various agencies and organizations such as DOT, NSF, UNC-GA, Center for Sustainability at Auburn University, and UNC—Greensboro. Dr. Sultana has held multiple leadership positions in professional organization including in the SEDAAG Honors, Program, and Nomination Committees, served as two-term President for the NC Geographical Society, Chair of the Transport Geography Specialty Group of the AAG, and Co-chair for the Housing, Migration, and Commuting cluster of the Network on European Communications and Transport Activities. Dr. Sultana is currently an Editor for Southeastern Geographer, a Guest Editor for the Special Issue of "Accessibility and Transportation Equity" for journal Sustainability, and working on several projects including a book, and transportation related sustainability and energy issues. For further information, please visit her website, <https://ges.uncg.edu/person/sultana>.



Steering Committee

Zach Ambrose

Zach Ambrose is a principal at Ambrose Strategy. Prior to founding Ambrose Strategy, he had a career in government and politics that began in the 1990s. His public sector career culminated with 5 years working for Bev Perdue, serving as her chief of staff in the Lt. Governor's office, leading her transition team and serving as her chief of staff in the Governor's office. Zach enjoys working with private & public sector clients to bring innovation to the public sector. He has worked on sustainability, energy and clean tech projects with government, university, non-profit and corporate clients. Zach helps lead the NC Cities Initiative which convenes North Carolina local governments with the goal of developing solutions that address statewide barriers to greenhouse gas reduction. He holds Bachelor of Science degrees from MIT in electrical engineering and Russian.



Lori Collins

Lori Collins is an Environmental Programs Consultant with the North Carolina Department of Environmental Quality and is focused on local government and business sector stakeholder engagement. Lori's recent sustainability work has included North Carolina's clean energy plan development; Duke University Nicholas Institute's Energy Efficiency Roadmap; the Southeast Energy Innovation Collaborative; and the CleanTech Commercialization Corridor initiative funded by an i6 Challenge Grant from the U.S. Department of Commerce to the Joules Accelerator and the Research Triangle CleanTech Cluster. Prior to forming her consultancy, Collins served as executive director of Joules Accelerator, a non-profit funded primarily by Duke Energy to support clean energy startups; president of Abundant Power, an energy financing venture; SVP of Client Management and Operations at LendingTree, head of marketing for Bank of America's mutual fund business, VP of Marketing at Fidelity Investments, and Director of Marketing at American Express. She holds a Master of Science in Carbon Management from the University of Edinburgh, an MBA from Kellogg at Northwestern University, a BS in Business Administration from UNC-Chapel Hill and she is LEED AP.



Marcia Hale

Dr. Marcia Rosalie Hale is an Assistant Professor of Peace and Conflict Studies at the University of North Carolina Greensboro. She is a member of the steering committee for SEUSS and a lead of the Water Group. Her research explores urban environmental justice, human security and sustainability. She has published research on the urban water systems of Los Angeles, California; Athens, Greece; and Istanbul, Turkey. Current projects explore environmental justice issues in North Carolina; social movements and urban policy related to food and water in Cape Town, South Africa; urban policy connected with water and migration in Barcelona, Spain; as well as historic and contemporary policy associated with migration to the U.S. from Central America. Dr. Hale is interested in human dynamics and understands questions of justice and sustainability to be at the intersection of social and environmental conflict. Her course Conflict Transformation at the Food-Water Nexus explores these issues. She also teaches conflict resolution theory and skills at UNCG, as well as in the Global Environmental Policy Programme with the University of Geneva and the United Nations Environment Programme.



Meg Jamison

Meg loves bringing change makers together to make our world a better place. Meg currently focuses her work on social impact networks and building capacity to advance among local governments across the Southeast to address climate change. She is the Executive Director of the Southeast Sustainability Directors Network. Meg's background is in city planning, and she uses that training to provide expertise in community engagement, sustainable development, smart growth planning practices. She has consulted with the internationally recognized urban economics firm, Urban3, but also has experience in rural economic development and local food system economy work. Her food systems work includes coordinating the City of Austin's first Urban Agriculture Program, consulting with SCALE, Inc. to complete food hub feasibility studies. Meg's experience in local economic development spans from coordinating small town revitalization programs with HandMade in America to heading up the northern Arizona office of Local First Arizona, the largest local business coalition in the country. Meg has an undergraduate degree in Urban and Environmental Planning from University of Virginia and a master's degree in Geography from Appalachian State University.



Steve Kalland

Steve is the Director of the NC Clean Energy Technology Center at NC State University where he directs the strategic vision of the center and its programs, including activities in renewable energy, clean power and energy efficiency technologies, green buildings, and clean transportation. Programs range from technical assistance, economic development, public policy (including DSIRE), STEM education and workforce development. Steve has a demonstrated history of working in the non-profit and higher education fields, and has strengths in Environmental Awareness, Policy Analysis, Renewable Energy, Energy Policy., and Business Development Steve holds a Master of Science (M.S.) focused in Public Policy Analysis from University of Rochester.



Grace Marasco-Plummer

Grace serves as the Program and Research Development Manager for the Research Institute for Environment, Energy and Economics (RIEEE), an umbrella organization housing the Appalachian Energy Center and two additional interdisciplinary centers. She is responsible for a variety of program and research development activities including funding opportunity identification, research team building, concept and program development and related workshops and events. She also supports the directors of the Appalachian Energy Center and the RIEEE to develop and cultivate partnerships and external collaborations. She serves as Vice Chair of the Board of Directors of Blue Ridge Women in Agriculture and on the University Sustainability Council at Appalachian State. She holds an undergraduate degree in International Business and Asian Studies from the College of Charleston and a Master of Arts in Human Geography from Appalachian State University.



Marilynn Marsh-Robinson

Marilynn Marsh-Robinson is the Partnerships and Alliances Manager in the SE Regional Office with Environmental Defense Fund. She joined in 1999. Marilynn works with partners to develop holistic, practical energy solutions that incorporate socioeconomic factors. She collaborates with electric cooperatives, rural communities, faith based partners and transit agencies. Marilynn also supports inclusive financing for energy improvements. Her experience includes helping to develop energy efficiency projects for local governments, nonprofits, and academic institutions, especially minority-serving colleges and universities. She serves on the North Carolina Department of Environmental Quality (NCDEQ) Environmental Justice and Equity Advisory Board, North Carolina Conservation Network Advisory Board and the Planning Committee of the North Carolina Environmental Justice Network. Marilynn is a Climate Reality Leader and a graduate of the North Carolina Rural Economic Development Institute. Education: BA, Political Studies, Meredith College.



Sarah Praskievicz

Dr. Sarah Praskievicz is an assistant professor in the Department of Geography, Environment, and Sustainability at the University of North Carolina at Greensboro, a member of the SEUSS steering committee, and co-organizer of the SEUSS water focus area. Her research interests focus on physical processes in river systems and sustainability of water resources. She teaches sustainability-related courses such as Introduction to Earth Science and The Water Planet. As a Sustainability Faculty Fellow at UNCG, she is currently leading a student research project with her class focused on the water quality of North Buffalo Creek, an urban stream in Greensboro. Sarah holds a PhD in Geography from the University of Oregon, an MS in Geography from Portland State University, and a BS in Environmental Studies from Southern Oregon University.



Stephen Sills

Dr. Stephen Sills is a community-engaged scholar and Professor of Sociology. In 2015, Sills founded the Center for Housing and Community Studies at UNCG, a transdisciplinary research organization under the Office of Research and Engagement. His recent projects include: a multi-year formative/summative evaluation of a USDA Local Food Promotion Program developing food entrepreneurship in low-income communities; technical assistance to SAMSHA Partnerships for Success (PFS) grantees in rural communities to address behavioral health disparities in opioid overdose prevention focusing on underserved Latino and African-American youth; development of neighborhood-level health indicators to guide and evaluate impact of philanthropic projects for the Foundation for a Healthy High Point; the design and implementation of an evaluation of a multi-year neighbor-based collective impact initiative to address diabetes and asthma (BUILD 2.0); an oral history project on Latino/a immigrants living in peri-urban and rural mobile home communities; and a recent study of pediatric asthma in low income neighborhoods using GIS analysis of hospital visits and housing assessments, which has led to over \$4.5 million in neighborhood revitalization efforts (RWJF/Reinvestment Fund Invest Health Grant).



SEUSS Network

The SEUSS network includes representation from the following organizations:

Higher Education

Appalachian State University
Duke University
East Carolina University
East Tennessee State University
Elizabeth City State University
Indiana State University
NC A&T State University
NC State University
University of North Carolina at Asheville
University of North Carolina at Chapel Hill
University of North Carolina at Charlotte
University of North Carolina at Greensboro
Wake Forest University
Winston Salem State University

Municipalities

City of Asheville
City of Charlotte
City of Durham
City of Greensboro
City of Raleigh
City of Wilmington
City of Winston-Salem
Durham County
Guilford County
Mecklenburg County
Town of Cary
Town of Hillsborough
Town of Walkertown

Organizations

AARP/NC AARP
Carolina Farm Stewardship Association
Centre for Homeownership & EDC
Church Women United-Wake County
Community Food Strategies / Carolina Farm Stewardship Association
Down East Coal Ash Environmental and Social Justice Coalition
Energy Environment Innovation Foundation
Guilford Community Care Network
Guilford County Project ONE
LaPlaca and Associates LLC
Montagnard/SE Asian Community Disparities Research Network
NC Community Development Initiative
NC Conservation Network
NC Housing Finance Agency
NC Justice Center
Piedmont Environmental Alliance
Piedmont Triad Regional Council
Ready for School, Ready for Life
Research Triangle Cleantech Cluster (RTCC)
Rivendell Farms of the Carolinas
Rockingham County Integrated Health Care
Safety Net Health
Sustain Charlotte
Triangle J Council of Governments
Transit Alliance of the Piedmont
United Way of Greater Greensboro

Industry

AmeriHealth Caritas NC
Duke Energy
NC Advanced Energy
Volvo Group North America



**NORTH CAROLINA
AGRICULTURAL AND TECHNICAL
STATE UNIVERSITY**