

UD LANDSCAPE ARCHITECTURE

# RESILIENCE

by **Design**

**October 29**  
8am – 6pm

**Delaware Center  
for Horticulture**



**1810 N. Dupont Street  
Wilmington, DE**



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**AGRICULTURE &  
NATURAL RESOURCES**

# agenda

**8:00 – 8:45 am**

Registration

**8:45 - 9:00 am**

Welcome

**9:00 – 10:00 am**

Peri-urban Landscape Resiliency Bryan Quinn, Principal One Nature

**10:00 – 11:00 am**

Envisioning Community Resilience Andy Fox, FASLA, PLA  
Professor, University Faculty Scholar & Community Engaged Faculty Fellow  
NC State University Department of Landscape Architecture and Environmental Planning

**11:00 - 11:15 am**

Break

**11:15 am– 12:15 pm**

First Charrette session

**12:00 – 12:45 pm**

Lunch

**12:45 – 3:15 pm**

Charrettes

**3:15 – 3:45 pm**

Coastal Resilience Design Studio  
Jules Bruck and CRDS interns

**3:45 – 5:00 pm**

Report back

**5:00 – 6:00 pm**

Reception with Student Posters



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# speakers

## Bryan Quinn

For over two decades, Bryan Quinn is an artist who has worked directly with land, plants, animals and people to create earthworks that engage viewers with the wonder of ecological systems. Quinn, who is also a respected applied ecologist, considers mountains, rivers, ecosystems, and other types of living landscapes to have inherent rights independent of human use that demand fair and respectful treatment. He is the founder and principal of One Nature (since 2005) and O.N. Engineering (2018).

Informed by his training in environmental ethics, art, and science, Bryan grew up playing and working in the declining prairies on the edge of Chicagoland, later attending Knox College to study ecology and philosophy. After college, he worked as an agroforester in the Malawi Department of Forestry for two years as a Peace Corps volunteer. As a graduate student in landscape architecture at the Rhode Island School of Design, Quinn twice won the school's Athena Award of Excellence for his innovative methods of visual representation. To support himself while he started One Nature, he worked as a public park designer for the New York City Department of Parks and Recreation and, later, a restoration ecologist for consulting firms.



**Bryan Quinn**  
One Nature

## Geoff Anderson

Geoff is a LEED accredited professional with over 30 years of experience designing public and private gardens, historic cultural landscapes, and urban spaces. He received his BS in Horticulture from North Carolina State University and Masters of Landscape Architecture from the University of Pennsylvania. His early-career work focused on zoo design and botanical gardens. Geoff's most recent projects include a series of park renovations for the City of Wilmington and healing gardens for several local hospitals.

Also among his current portfolio of work are new campus projects along with several zoo exhibits located in the US northeast and southwest.



**Geoff Anderson**  
RAS Inc

## Ben Muldrow

Ben is a place branding and economic development expert who has spent the last 18 years assisting communities develop identities that attract investors and encourage private and public organizations to commit to community development projects that lead to economic vitality, environmental stewardship and social advancement. As a partner at Arnett Muldrow & Associates and founding contributor at Proud Places, Ben has designed creative branding and marketing systems in over 600 communities across 40 states and 5 countries, making him a true global leader in placebranding and cementing his ability to combine strategic planning, brand development, interactive marketing, public relations and social media capabilities to preserve and promote the power of place.



**Ben Muldrow**  
Arnett Muldrow



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# charrettes

## Collaborative Suburban Resilience Planning

Bryan Quinn – One Nature

The suburbia of Boswash (the massive urban corridor between Boston and Washington DC), as it was developed in the past century, was not designed to meet the challenges of today and now faces immense challenges to meet the needs of our society, such as social justice, the environmental crisis, and public health. In this workshop, facilitated by environmental artist Bryan Quinn, participants will work in pairs to collaboratively re-design a series of abutting suburban lots within a single block. Teams will have the option to coordinate their designs with each other, or not. At the end of the flash design session teams will pin up their scaled plans on a scaled aerial photograph to facilitate a discussion and documentation.

## Urban Gateway Resilience Planning for a City Residential Block

Geoff Anderson - RAS Inc

The 800 block of West 9th Street serves as one of the main “downtown” entrances into the City of Wilmington. The block connects West Center City for all traveling from the west side of Wilmington and the northbound exit off I-95. This one-way vehicular street is lined with houses with on-street parking, overgrown street trees, and sidewalks in disrepair. In this workshop, facilitated by landscape architect Geoff Anderson, participants will envision what an urban block can be in the 21st century. Using Complete Street guidelines, the charrette participants will have an opportunity to re-design the urban block’s aesthetic while incorporating resiliency standards to improve the overall streetscape appearance. The charrette solutions will explore creative storm water collection methods, traffic calming measures, healthy planting zones, and ways to make this block more hospitable for its residents.

## Small Town Main Street Resilience Design

Ben Muldrow – Arnett Muldrow & Associates

Milford, Delaware is a quaint river town that saddles the Kent and Sussex County lines, right along the Delaware Bayshore Byway. Milford serves as a gateway community for beachgoers on both Hwy 1 to Lewes, Rehoboth, and Dewey beaches and Hwy 113 to Bethany and further on to Ocean City. This historic community has a quaint downtown with mom & pop shops, local restaurants, and over a mile of Riverwalk along the Mispillion River featuring a natural downtown island and bike racks and boat launches scattered throughout downtown.

In this workshop, facilitated by Ben Muldrow, partner at Greenville, SC based Urban Planning firm Arnett Muldrow, participants will identify logical locations for economic investment, sketch thoughtful placemaking treatments, and use design to help create a stronger connection between the people of Milford and their water. Participants interested in community branding, tactical urbanism, resilient placemaking, and sustainable design are a perfect fit for this workshop.



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# before

10/7/21 – 6-7 PM

## *Integrating Prediction and Performance Models into Scenario-based Resilient Community Design*

Galen Newman, Associate Professor and Interim Department Head in  
the Department of Landscape Architecture and Urban Planning at Texas  
A&M University (TAMU). – Urban Resiliency

Globally, more than 600 million people live in coastal regions lower than 10 meters above sea level and almost 2.4 billion people live within 100 km of a coastline. In the U.S., 39% of the population reside in coastal counties. Sea level rise due to climate change makes coastal populations more susceptible to flood risks. The use of land change prediction modelling to inform scenario-based planning has been shown to help increase capabilities when dealing with uncertainties in urbanization such as urban growth and flood risk. This research uses the Land Transformation Model (LTM) to predict three different urban growth scenarios for Tampa, FL to determine how effective the current comprehensive plan is in adapting urban growth to decreasing flood risk and pollutant load. The LTM, a GIS-based neural network, is used to predict the future urban growth of Tampa, FL according to three different scenarios: 1) Business as usual – predicted urban growth based on current growth patterns; 2) Growth as planned – predicted urban growth based on the current land use plan; and 3) Resilient growth – predicted urban growth based on all future development occurring outside of the floodplain. Then, we develop master plans according to each scenario and assess their probable impacts using the Long-Term Hydrologic Impact Analysis model. Findings show that the current future land use plan for Tampa appears has higher flood exposure, stormwater runoff, and pollutant discharge than current conditions but more than a purely resilient approach to future growth.

**Dr. Galen D. Newman** is an Associate Professor and Interim Department Head in the Department of Landscape Architecture and Urban Planning at Texas A&M University (TAMU). Recently, at TAMU, he has also served as Associate Department Head and Coordinator of the Bachelor of Science in Urban Planning Program. He is Director of the Center for Housing and Urban Development at TAMU and co-editor of the Journal of Planning Education and Research. Dr. Newman also serves as the current President of the Council of Educators in Landscape Architecture (CELA). He graduated from the Planning, Design, and the Built Environment PhD program at Clemson University in 2010. At TAMU, he teaches undergraduate and graduate landscape architecture and planning studios, landscape architecture history classes, and advanced visualization courses. His research interests include urban regeneration, land use science, spatial analytics, community flood resilience, and community/urban scaled design.



**Dr. Galen Newman**  
Texas A&M



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# & after

11/11 /21 – 6-7 PM on Zoom

## *Industrial Resiliency*

Keiko Tsuruta Cramer, ASLA, PLA. Principal, WRT

Keiko Tsuruta Cramer is a Principal at WRT with nearly two decades of experience providing creative and inclusive urban places. With degrees in landscape architecture, architecture, and engineering, Keiko uses her interdisciplinary training to provide a unique perspective focused on transforming the urban landscape to socially and environmentally resilient communities and places. Her projects have included campus master plans, public parks, urban waterfronts, and industrial redevelopments highlighted by 2017 Ruby Bruner Award Gold medalist for Urban Excellence, SteelStacks Arts & Cultural Campus in Bethlehem, PA and the ASLA award-winning Georgetown Waterfront Park. Her experience also led WRT to numbers of international projects and competitions.



**Keiko Tsuruta  
Cramer**  
WRT

11/4/21 – 6-7 PM on Zoom

## *Fight the Power!*

Abra Lee, Horticulturist  
Cultural Resiliency

When the business of beautification left out Black America during the Jim Crow Era, they didn't get mad—they got organized. Join the conversation as we discuss how collaboration between community, academia, and small business inspired horticultural revolutions that were hidden in plain sight.

Abra Lee is a national speaker, writer, and founder of Conquer the Soil a community dedicated to celebrating the history and art of horticulture! She has spent a whole lotta time in the dirt as a municipal arborist, extension agent, airport landscape manager, and more. Lee is a graduate of Auburn University College of Agriculture and an alumna of the Longwood Gardens Society of Fellows, a global network of public horticulture professionals.



**Abra Lee**  
Cultural Resiliency



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