

RESILIENCE 2021

by Design

October 29
8am – 6pm

the day's events

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 - 12:00 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

Delaware Center for Horticulture

1810 N. Dupont Street
Wilmington, DE

Longwood Gardens

Delaware Nursery & Landscape Association

ASLA
PENNSYLVANIA
DELAWARE
DE/PA American Society of Landscape Architects

Plant & Soil Sciences Department

Davey Tree

Delaware Center for Horticulture

keynote speakers

Andy Fox
Envisioning Community Resilience

Andy Fox, FASLA, PLA is a Professor, University Faculty Scholar and Community Engaged Faculty Fellow in the NC State University Department of Landscape Architecture and Environmental Planning. He is also a founding co-director of the Coastal Dynamics Design Lab, an interdisciplinary research and design initiative within the NC State College of Design that addresses environmental and community development challenges in coastal regions. In his lecture he presented research that integrated elements of geospatial analysis, landscape planning, community development and heritage conservation, to assess, confront and communicate opportunities and challenges to communities recovering from floods. Fox's presentation featured numerous thought-provoking graphics of which some demonstrated how his research actively built community resilience through strategic landscape practices. The goal of his work is actionable change in the context of the public realm.

Bryan Quinn
Peri-urban Landscape Resiliency

Bryan Quinn, principal of One Nature offered an inspirational talk about strategies to incorporate native plant species into homeowner gardens in the town of Beacon. One Nature is committed to helping peri-urban communities benefit local ecosystems. When homeowners use a percentage of their landscape to plant native plants, they increase the area that benefits birds, insects, and other animals to form a healthy ecosystem. Change is happening in Beacon, New York with many individual projects. One Nature has transformed typical residential landscapes dominated by mowed lawn to resilient landscapes with meadows, ponds, wetlands, natural play areas, mountainsides, pollinator gardens and more. Lots of examples inspired the audience to create similar landscapes and healthy ecosystems in towns across the country. As natural ecosystems become more vulnerable it is important to address this issue one small landscape at a time. Bryan Quinn and his firm, One Nature, use drawings, models and implemented designs to inspire us all to design, create and build landscapes to sustain our future.

Andy Fox
NC State
Presentation PDF

Bryan Quinn
One Nature
Presentation PDF

charrette sessions

Urban Gateway Resilience Planning for a City Residential Block
with Geoff Anderson

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 envisioned an urban block can be in the 21st century. Using Complete Street guidelines, the charrette participants had the opportunity to re-design the urban block's aesthetic while incorporating resiliency standards to improve the overall streetscape appearance. The charrette solutions explored creative storm water collection methods, traffic calming measures, healthy planting zones, and ways to make this block more hospitable for its residents.

Example work from Charrette sessions

Collaborative Suburban Resilience Planning
with Bryan Quinn

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 worked in pairs to collaboratively re-design a series of abutting suburban lots within a single block. Many teams coordinated their designs with each other, and at the end of the flash design session teams pinned up their plans on a scaled aerial photograph to facilitate a discussion and documentation.

Example work from Charrette sessions

Small Town Main Street Resilience Design

with Ben Muldrow

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, lead by Ben Muldrow, partner at Greenville, SC based Urban Planning firm Arnett Muldrow, participants identified logical locations for economic investment, sketched thoughtful placemaking treatments, and used design to help create a stronger connection between the people of Milford and their water. This workshop was aimed at participants who are interested in community branding, tactical urbanism, resilient placemaking, and sustainable design.

Example work from Charrette sessions

Geoff Anderson
RAS Inc

Bryan Quinn
One Nature

Ben Muldrow
Arnett Muldrow

Coastal Resilience Design Studio

Dr. Jules Bruck and CRDS interns

The Coastal Resilience Design Studio kicked off their presentation with an introduction of the studio and its values, process, and purpose. Director Dr. Jules Bruck displayed past projects of the studios and their impacts on the coastal communities in which they reside. Two current projects were explained in more detail by two of the current Landscape Architecture Design Interns, Leigh Muldrow and Delaney Plotte. The first project, Carbon in the Tidewater, took an innovative approach on redesigning the coastal systems in and around Hampton, VA. This project focused on selling carbon credits to fund the rebuild of the coastal community in a way that captured carbon, cleaned surrounding waters, and provided coastal protection from storm surge. Carbon in the Tidewater went on to win the 2021 Coastal & Estuarine Research Federation national design competition. The second project presented was the Riverfront Park Conceptual Plan, a plan to make use of an old steel mill site to bring a large-scale public park to Clamont, DE. The plan has gone on to be seen by local and state officials in hopes of approval as surrounding infrastructure begins development on site.

CRDS Interns

Carbon in the Tidewater

HAMPTON, VIRGINIA | UNIVERSITY OF DELAWARE COASTAL RESILIENCE DESIGN STUDIO

LITTLE CREEK, DELAWARE CONCEPTUAL RESILIENCE PLAN

Coastal Resiliency

Dr. Galen Newman
Texas A&M
Zoom Presentation

As an ornamental horticulturist and founder of Conquer the Soil (a social media platform that works to raise awareness of Black garden history), Abra Lee unshared the stories of Black men and women whose accomplished horticultural careers have gone unnoticed. Charles Lathrop Pack, was organizer of the National War Garden Commission, which encouraged Americans to grow their own food during World War I; Ethel Earley Clark founded the Negro Garden Clubs of Virginia to stimulate local interest in gardeners, plants, and the study of landscape beautification; William O. Perry, who launched the International Florist Association after being denied entry to the Florists' Telegraph Delivery Association to provide Black Americans with jobs in the floral industry. For a community that had been unable to cultivate the land as they desired for so long, gardening served as a way for Black Americans to create their own lush, colorful, and whimsical landscapes. Among countless others, these pioneers planted the seeds of self-determination and independence for future generations of horticulture and landscape industry professionals.

Abra Lee
Conquer the Soil

Industrial Resiliency

Keiko Tsuruta Cramer
WRT Design
Zoom Presentation

As the principal of WRT, Keiko Cramer emphasized how re-implementing elements of the existing site can redefine and bring character to the new proposed site. In her talk, Keiko explained how her firm uses existing elements to create a space that feels familiar and comfortable yet new and exciting. Her focus was on her project in Bethlehem PA, the Bethlehem steel stacks. She outlined the process of designing this site from its inception. Keiko emphasized the importance of understanding the site, getting input from the community, and preserving key features. This example showed how a landscape project can revitalize a community. Keiko and WRT's focus for the site and other similar projects was to discover the site through research and use that information to enhance existing elements and create a new identity for the old industrial site, in this case, the Bethlehem steel stacks.

Keiko Tsuruta Cramer
WRT Design
Zoom Presentation

student posters

On the day of the symposium we ran a poster competition which saw multiple students curating class projects or internship work into a poster. These were then judged and prizes were awarded for 1st, 2nd, and 3rd place.

DJ Bromley and Leigh Muldrow Joint 1st Place Prize

Chris Fetteke Von Koeckritz 2nd Place Prize

Nick Bruce Honorable Mention

zoom talks

As part of the symposium we ran three separate zoom presentations which took place before and after the symposium day. These were also focused on resiliency, with talks specifically on coastal, cultural, and industrial resiliency.

Coastal Resiliency

Cultural Resiliency

Industrial Resiliency

Coastal Resiliency

Dr. Galen Newman
Texas A&M
Zoom Presentation

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

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

7th October 2021 6-7 PM

Galen Newman studies the challenges facing land use planning and urban infrastructure in the Southern United States as they relate to coastal resilience. He presented innovative methodologies for calculating runoff reductions by green infrastructure implementation, development scenarios relating to industry and sea level rise vulnerability, and ecological benefits of resilient planning. Dr. Newman showed how his team is able to use a combination of research and planning to recommend optimal scenarios for industrial development to coastal communities. These recommendations are based on resilience to sea level rise and stormwater flooding as well as reduction of ecological impairment by industrial pollution potential. Finally, Dr. Newman presented new variations of green infrastructure that aim to simultaneously enhance the benefit of recreation, ecology, and industry.

Dr. Galen Newman
Texas A&M
Zoom Presentation

Cultural Resiliency

Abra Lee
Conquer the Soil

As an ornamental horticulturist and founder of Conquer the Soil (a social media platform that works to raise awareness of Black garden history), Abra Lee unshared the stories of Black men and women whose accomplished horticultural careers have gone unnoticed. Charles Lathrop Pack, was organizer of the National War Garden Commission, which encouraged Americans to grow their own food during World War I; Ethel Earley Clark founded the Negro Garden Clubs of Virginia to stimulate local interest in gardeners, plants, and the study of landscape beautification; William O. Perry, who launched the International Florist Association after being denied entry to the Florists' Telegraph Delivery Association to provide Black Americans with jobs in the floral industry. For a community that had been unable to cultivate the land as they desired for so long, gardening served as a way for Black Americans to create their own lush, colorful, and whimsical landscapes. Among countless others, these pioneers planted the seeds of self-determination and independence for future generations of horticulture and landscape industry professionals.

Abra Lee
Conquer the Soil

Industrial Resiliency

Keiko Tsuruta Cramer
WRT Design
Zoom Presentation

As the principal of WRT, Keiko Cramer emphasized how re-implementing elements of the existing site can redefine and bring character to the new proposed site. In her talk, Keiko explained how her firm uses existing elements to create a space that feels familiar and comfortable yet new and exciting. Her focus was on her project in Bethlehem PA, the Bethlehem steel stacks. She outlined the process of designing this site from its inception. Keiko emphasized the importance of understanding the site, getting input from the community, and preserving key features. This example showed how a landscape project can revitalize a community. Keiko and WRT's focus for the site and other similar projects was to discover the site through research and use that information to enhance existing elements and create a new identity for the old industrial site, in this case, the Bethlehem steel stacks.

Keiko Tsuruta Cramer
WRT Design
Zoom Presentation

student posters

On the day of the symposium we ran a poster competition which saw multiple students curating class projects or internship work into a poster. These were then judged and prizes were awarded for 1st, 2nd, and 3rd place.

DJ Bromley and Leigh Muldrow Joint 1st Place Prize

Chris Fetteke Von Koeckritz 2nd Place Prize

Nick Bruce Honorable Mention

student posters

On the day of the symposium we ran a poster competition which saw multiple students curating class projects or internship work into a poster. These were then judged and prizes were awarded for 1st, 2nd, and 3rd place.

DJ Bromley and Leigh Muldrow Joint 1st Place Prize

Chris Fetteke Von Koeckritz 2nd Place Prize

Nick Bruce Honorable Mention

student posters

On the day of the symposium we ran a poster competition which saw multiple students curating class projects or internship work into a poster. These were then judged and prizes were awarded for 1st, 2nd, and 3rd place.

DJ Bromley and Leigh Muldrow Joint 1st Place Prize

Chris Fetteke Von Koeckritz 2nd Place Prize

Nick Bruce Honorable Mention

student posters

On the day of the symposium we ran a poster competition which saw multiple students curating class projects or internship work into a poster. These were then judged and prizes were awarded for 1st, 2nd, and 3rd place.

DJ Bromley and Leigh Muldrow Joint 1st Place Prize

Chris Fetteke Von Koeckritz 2nd Place Prize

Nick Bruce Honorable Mention

student posters

On the day of the symposium we ran a poster competition which saw multiple students curating class projects or internship work into a poster. These were then judged and prizes were awarded for 1st, 2nd, and 3rd place.

DJ Bromley and Leigh Muldrow Joint 1st Place Prize

Chris Fetteke Von Koeckritz 2nd Place Prize

Nick Bruce Honorable Mention