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COLLEGE OF AGRICULTURE,  
HEALTH AND NATURAL  
RESOURCES

PLANT SCIENCE AND LANDSCAPE  
ARCHITECTURE

CTGBC  
U.S. GREEN BUILDING COUNCIL  
CONNECTICUT CHAPTER

The Connecticut Chapter of the American Society of Landscape Architects in collaboration with UConn Plant Science and Landscape Architecture and the Connecticut Green Building Council presents a two-part symposium:

# ECOLOGICAL APPROACHES TO LANDSCAPE DESIGN & GREEN INFRASTRUCTURE + SCIENCE 1 BUILDING AND WOODLAND WALK

A Continuing Education Program for Landscape Architects, Architects, Contractors, and Green Industry Peers

<b>DATE</b>	Friday, September 22, 2023, 8:30 AM to 5:00 PM (Reception until 6:00)	
<b>LOCATION</b>	The Dodd Center at the University of Connecticut Storrs Campus Parking at South Parking Garage (see directions at the bottom of the page at this <a href="#">link</a> )	
<b>COST</b>	\$135 - ASLA or CTGBC Member	<i>Early Bird Special - Until September 1st</i>
	\$150 - ASLA or CTGBC Member	<i>After September 1st</i>
	\$155 - Nonmembers	<i>Early Bird Special - Until September 1st</i>
	\$170 - Nonmembers	<i>After September 1st</i>

\* To register for Part 2 - SCIENCE 1 Building and Woodland Corridor **ONLY** starting at 2:45, visit CTGBC registration page at [ctgbc.org](http://ctgbc.org)



Continuing Education Credits provided by LACES  
5.0 PDH/HSW for all lecture-style presentations  
1.0 PDH/HSW for Science 1 building and site tour

See also UConn Today article and video on Science 1 at this [link](#).

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## PROGRAM OVERVIEW

Over the past decade, the University of Connecticut has realized a significant body of landscape architecture projects with notable green infrastructure components. Part One of this symposium will highlight recent work at the University, both at the master plan and project execution levels. To set the stage for those projects, a series of speakers with expertise in ecological design, soil science, and stormwater engineering will speak to the considerations of their field relevant to landscape architecture. Part Two will include a presentation the new Science 1 Building and Woodland Walk dedicated on June 15, 2023 by the University and design team members. The program will be capped off with tours of the Science 1 building and landscape and a reception in the Science 1 lobby.

### PART 1 Ecological Approaches to Landscape Design and Green Infrastructure

#### 8:30 - 9:00 Registration and Continental Breakfast

#### 9:00 - 9:15 Welcome and Introductions

Laura A. Cruickshank, FAIA - Chief Architect & Master Planner at UConn  
Sean Ragan, PLA, ASLA - Halvorson | Tighe & Bond, Vice President at CTASLA  
Jill Desimini, PLA, ASLA - Director of UConn Program of Landscape Architecture

#### 9:15 - 9:55 Centering Landscape Ecology and Biodiversity in Campus Planning and Design

Jennifer Dowdell, ASLA - Biohabitats

This presentation will share how principles of landscape ecology and regenerative design can be applied to landscape planning at the scale of the university campus. Case studies from a variety of campuses will highlight how ecosystem services, biophilia, ecological restoration, and integrated water systems are manifested holistically in campus design, from planning through to construction.

#### 9:55 - 10:35 Soils for Ecological Design

Bob Pine, PE, FASLA - Pine & Swallow Environmental

Sustainable landscape design is inextricably linked with soils. Bob Pine will discuss strategies for healthy soil design to increase infiltration, water retention, water cleansing, and carbon storage while optimizing horticultural value for plantings, including for landscape elements such as bio-basins, bio-swales, streams, wetlands and over-structure conditions.

#### 10:35 - 10:50 Break and Refreshments

#### 10:50 - 11:30 Stormwater Engineering – Design and Regulatory Requirements

Daniel Cefaratti, PE, LEED AP - Salas O'Brien

The presentation will include a broad overview of the University's stormwater system and watersheds, followed by a more focused discussion of the engineering and design that goes behind stormwater management systems as landscape features and the challenges of meeting regulatory requirements while maintaining a desired aesthetic.

#### 11:30 - 12:10 How Green Infrastructure Can Strengthen the Campus Experience at the Master Plan Level

Matthew Urbanski - Michael Van Valkenburgh Associates Inc

The UConn Master Plan 2015-2035 offers a macro-scale vision for green infrastructure that creates new opportunities for placemaking and a reinvigoration of the campus form. This talk will introduce the core principles that were used to shape the master plan (led by SOM, with MVVA as landscape planners), outlining an implementable framework for system-wide improvements to campus experience, natural systems, and sustainability.

#### 12:10 - 1:25 Lunch at Student Union Room 304

Meal cards provided to use at Union Street Market.

#### 1:25 - 1:55 UConn Case Study: Toscano Family Ice Forum

Michael Hunton, PLA, ASLA, WEDG - LANGAN  
Joseph Aveni, PLA, ASLA - LANGAN

The design of the Toscano Family Ice Forum within a clearing between an existing forest and wetland provided an opportunity for ecological preservation. The design prominently features the preserved wetland as a backdrop to a pedestrian plaza while also promoting green infrastructure in the form of rain gardens and native pollinator meadows.

#### 1:55 - 2:45 UConn Case Study: Science 1 - Reimagining the Quadrangle as a Performative Landscape

Robert Golde, PLA, FASLA - Towers|Golde  
Wesley Wazni, PLA, ASLA - Towers|Golde

Since the inception of the design process for UConn's new Northwest Science Quad, the intent had been to provide a new paradigm for campus quadrangles; one that not only provides areas for gathering and relaxation but is a functional landscape providing important ecosystem services. Working with University Planning Design and Construction, the designers created a central landscape feature of interconnected bioswales designed to address longstanding campus-wide stormwater discharge issues.

## PART 2 Going Above and Beyond Sustainable Buildings to Sustainable Landscapes: UCONN Science 1 Building and Woodland Walk

**2:30 - 3:00 Part 2 Registration and Break**

**3:00 - 4:00 Science 1 Building and Woodland Walk Presentation (at the Dodd Center)**

**Welcome and Opening Remarks** – Laura A. Cruickshank, FAIA - Chief Architect & Master Planner at UConn

**Planning and Designing the Project** – Peter Viera - Payette

**Sustainable Design Features of the Building** – David Madigan - van Zelm Engineers

**Science One Below the Surface** – David Barstow - GZA, Daniel Cefarati - Salas O'Brien

**Sustainable Landscape Design Features** – Robert Golde - Towers|Golde

**4:00 - 4:15 Walk to Science 1**

(For those who not be attending the Science 1 tour, Continuing Education Sign-Out and Certificates will be provided for 5.0 PDF/HSW at this time.)

**4:15 - 6:00 Science 1 Building and Site Tours and Reception in Lobby**

(1.0 PDF/HSW for tour)

## SPEAKERS



### **Laura A. Cruickshank, FAIA - Chief Architect & Master Planner at UConn**

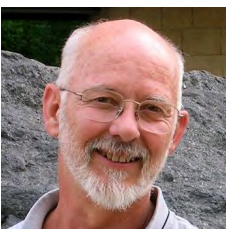
Laura Cruickshank, FAIA, University Master Planner and Chief Architect and Associate Vice President for University Planning, Design and Construction, joined the University of Connecticut in February 2013. Ms. Cruickshank is responsible for the immediate and long-range planning, design and construction of the University's \$2.5 billion dollar Capital Improvement Plan, UConn 2000 and Next Generation CT programs for the Storrs and Regional Campuses and the Law School.

Prior to joining UConn, Laura Cruickshank was the Yale University Planner and directed planning and design on the Yale central campus. Ms. Cruickshank led Yale planning for the new Yale-NUS College in Singapore representing the University in the planning, design, and construction of the liberal arts college. She collaborated with an international team of architects and partnered with professional and administrative colleagues from the National University of Singapore. Prior to her tenure at Yale, Laura was in private practice for over twenty years.



### **Jennifer Dowdell, ASLA - Senior Technical Advisor: Landscape Ecology, Planning and Design at Biohabitats,**

For over 16 years, Jennifer has worked at the interface of ecology, landscape architecture, & conservation planning on projects ranging from greenways to state parks, college campuses, and citywide ecological networks. Her work merges landscape ecology, resilience strategies, and environmental justice in site design and regional planning. She earned her MLA from the University of Michigan's School of Environment & Sustainability. Her experience in writing and advocacy informs her work facilitating dialogue about the social and ecological narratives that engage nature in design. Jennifer has written for the Wilson Quarterly, Landscape Architecture Magazine, PLACES Journal, the Earth Issue #4, The Nature of Cities blog, and the e-quarterly, Leaf Litter as well as a chapter in the new book, The Landscape Approach: From Local Communities to Territorial Systems. Biohabitats was recently awarded the ASLA LA Firm Award for 2023.



### **Bob Pine, FASLA, PE - Principal at Pine & Swallow Environmental**

Bob Pine, FASLA, PE, is a landscape architect and geotechnical engineer. As a Principal and Founder of Pine & Swallow Environmental he has been a consultant to landscape architects for more than forty years. His work includes soil, hydrologic and environmental design, sustainable practices, and construction. Projects include The Highline, Brooklyn Bridge Park, Hudson Yards, and Harlem Meer in Central Park in NYC; an LID Streetscape Manual for DDOT in Washington DC; and sustainable and environmental projects throughout the country. Bob has served on the Board of the Nashua River Watershed Association since 1993 and is currently Chair of the Climate Action Committee.



### **Daniel Cefarati, PE, LEED AP - Associate Vice President at Salas O'Brien**

Daniel Cefarati is an associate vice president and project manager with over 18 years of design and management experience. Involved in all civil and site utility applications of a project, Dan's engineering experience encompasses a diverse portfolio of new construction and renovation projects for clients throughout the Northeast, ranging from college and corporate campuses to hospitals and research centers, as well as municipal and government facilities. Dedicated to serving his clients' infrastructure needs, Dan's notable experience includes work at University of Connecticut, Jackson Laboratory for Genomic Medicine, and UConn Health Center.

## SPEAKERS (continued)



### **Matthew Urbanski - Partner at Michael Van Valkenburgh Associates Inc**

Matthew is a Partner at Michael Van Valkenburgh Associates (MVVA), where he has worked for over three decades. He led the landscape planning for the UConn Master Plan 2015-2035 and has been part of the leadership team for many of the firm's best-known campus work, including the Wellesley College Master Plan, and the Harvard Yard Landscape Restoration. Matthew graduated from Albright College with a B.S. in biology, studied horticulture at the Delaware Valley College of Science and Agriculture, and earned an M.L.A. from Harvard's Graduate School of Design.



### **Michael Hunton, PLA, ASLA, WEDG - Senior Project Manager at Langan**

Michael leads the New England | New York Landscape Architecture + Planning Studio at Langan. With over 18 years of experience, he has been instrumental in the design of sustainable and resilient waterfront parks, master-planning, streetscapes, campus planning, educational, and mixed-used developments from concept through construction. Michael's work focuses on experiential design, creating innovative nature-based solutions that integrate community vision, education, and universal access.



### **Joseph Aveni, PLA, ASLA - Landscape Architect at Langan**

Joe Aveni is a Project Landscape Architect within the Landscape Architecture + Planning Studio at Langan. With over seven years of experience, he has led and assisted in the design of numerous projects throughout the Northeast. Joe strives to provide positive, thoughtful experiences within the built environment by combining his interests in site history, incorporating green infrastructure, and through creative placemaking. Joe is currently serving as ASLA-CT Executive Committee Member-at-Large.



### **Robert Golde, PLA, FASLA - Principal at Towers|Golde**

Robert Golde is a principal at Towers|Golde with more than 40 years of experience and an unusually varied portfolio of built work. Bob's expertise in site planning and placemaking ranges from park planning in Shenzhen, China, to corporate headquarters in suburban New York, in addition to roof-top healing gardens at urban medical centers and master planning and implementation projects on academic campuses. Recent projects at UConn include Gant Science Building Renovations, the Science1 Building, the Northwest Science Quad and the Peter J. Werth Residence Hall.



### **Wesley Wazni, PLA, ASLA - Senior Associate at Towers|Golde**

Wesley Wazni is a senior associate at Towers|Golde with more than 30 years of experience designing contextually appropriate landscapes for a broad range of projects in the built environment. In keeping with the firm's philosophy, Wes has worked closely with a diverse group of architects creating collaborative designs with significant relationships between architecture and landscape. Wes has implemented green infrastructure projects on academic campuses including UConn, Yale University and Tulane University.



### **Peter Vieira, FAIA, LEED AP - Principal at Payette**

Peter's career has been distinguished by sustained design excellence and deep professional impact across a 27-year span of projects of significant programmatic and technical complexity. Within the trajectory of institutional building types Peter has designed, what remains constant is his belief in the importance of an overarching architectural narrative for each project that weaves together its disparate parts. The clear-headed legibility of design intent and rigorous level of design execution of Peter's work has garnered more than two dozen peer-recognized awards, including two AIA Honor Awards, a COTE Top Ten Award and seven awards from the Boston Society of Architects.



### **David W. Madigan, P.E., LEED AP - Senior Vice President and Sustainable Design Specialist at van Zelm**

Senior Vice President and Principal of van Zelm since 1993, Dave Madigan brings to his clients over thirty-five years of professional experience in the design and planning of high efficiency, sustainable laboratory facilities and the design and implementation of campus energy systems for colleges and universities. Dave has worked on numerous lab projects with high performance design objectives and holds a Master of Science in Building Energy Engineering from the University of Colorado and a B.C.E. degree from Villanova University. A recognized expert on sustainable design, Dave is a LEED-Accredited Professional, and frequent lecturer of energy conservation and sustainable design practices.



### **David M. Barstow, PE - Associate Principal at GZA**

David has over 25 years of geotechnical experience with GZA in Connecticut including over 40 projects for the University of Connecticut. He directs and performs subsurface investigations and design of spread footing, piles, micropiles, helical piles, MSE retaining walls, estimating settlements and preparing foundation design reports. David's construction phase experience includes geotechnical inspection and site preparation including deep and shallow foundation systems, blast monitoring, fill excavations and placement, geotextile membrane placement, piles, deep dynamic compaction, vibratory pile compaction and geogrid reinforced wall systems.