



**CHICAGO
REGION
TREES
INITIATIVE**

Our Trees.
Our Communities.
Our Future.

Urban Forest Management and Planning Workshop

January 17, 2019 9:00 a.m. – 3:30 p.m.

The Morton Arboretum, Arbor Room, Lisle, IL

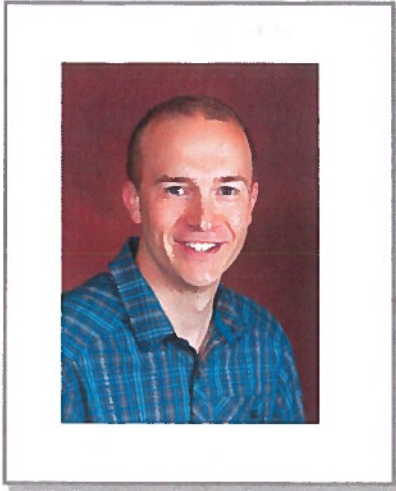
Presented by: The Center for Tree Science and the Chicago Region Trees Initiative



Afternoon Session

Title: Creating equitable urban forests through research, outreach, management, and planning

- 12:15 p.m. Urban forest analysis and planning using iTree landscape
Al Zelaya, Davey Tree Expert Company
- Introduction to the practical use of iTree Landscape to understand and document patterns in urban canopy cover and benefits. Also will present strategies for applying data to urban forest management and planning.
- 1:00 p.m. iTree Landscape as a teaching and outreach tool: online and in class learning modules
Dr. Christie Klimas, Depaul University
- Describes an effort to create educational materials outlining the functions of i-Tree Landscape and possible applications. In collaboration with education and urban forestry experts, educational materials for in-person workshops and online modules have been developed. Materials are designed for a variety of user groups including middle school, high school, and environmentally-focused college programs, community environmental organizations, and urban forestry professionals.
- 1:50 p.m. Break
- 2:00 p.m. Beyond the Plant Kingdom: Applying Urban Forest Data Collection to Population Health Work
Rachel Holmes, The Nature Conservancy
- Learn how an innovative partnership among a church, conservation organizations (local and international), youth development organization, and health care provider led to a unique workforce development opportunity that bridges the gap between nature and human health management efforts in the Pullman neighborhood. A synopsis of the program, curriculum overview, and data collection techniques for population health and tree health will be presented.
- 2: 45 p.m. Understanding inequity in urban forests and modeling future changes
Dr. Robert Fahey and Elliott Volin, University of Connecticut
- Presents results of linked studies that use iTree and urban forest data to 1) understand patterns of inequity in urban forest cover and associated benefits at a continental scale and 2) model future changes in urban tree cover and inequity under scenarios of urban development and global change effects on forests in the Chicago region. Also will present information on analysis techniques and new tools that can be used to conduct equivalent analyses for other geographies.
- 3:20 p.m. Closing Remarks Dr. Robert Fahey and Dr. Adam Berland
- 3:30 p.m. Adjourn



Dr. Adam Berland is an assistant professor of geography at Ball State University. He studies the patterns and drivers of change in the spatial distribution of urban trees using field data and geospatial technologies. Recently he has been studying innovative ways of generating street tree data using free tools. Dr. Berland holds a Ph.D. in geography from the University of Minnesota.

Dr. Robert Fahey, PhD. Assistant Professor, University of Connecticut. Bob's primary area of research is Forest Ecology, but his work also includes Urban Ecology, Landscape Ecology, Remote Sensing, and Silviculture. Current research is focused on understanding canopy structure-function relationships in forests, particularly in relation to disturbance resilience. He works across the spectrum of anthropogenic impacts in forests from urban to rural, and is particularly interested in adapting ecological and silvicultural knowledge to human-dominated landscapes. <http://faheylib.weebly.com/>



Rachel Holmes is the Urban Forestry Strategist for The Nature Conservancy's North America Cities Network, and has been with the Conservancy for over five years. She supports urban forestry projects and programs across the Network and also leads two national initiatives with the US Forest Service – one for human health, one for tree health. Prior to joining the Conservancy, Rachel served as an urban forester and Volunteer Coordinator for the State of Connecticut, and designed and led urban forestry workforce development programming for Groundwork Bridgeport and Solar Youth, both in Connecticut. Rachel holds a BS from Rutgers University, a Master of Divinity from the Yale Divinity School and a Master of Forestry from the Yale School of Forestry and Environmental Studies. In her spare time, Rachel collects begonias, fights wildfires, and teaches and performs as a professional Flamenco dancer.



Dr. Christie Klimas' research brings together ecology and economics in urban and tropical settings to provide solutions for sustainable resource use. Due to the economic drivers underlying resource use, economic knowledge is an essential component of sustainability. Indeed, economic studies have moved to the forefront of sustainable ecosystem management and recent research has focused on quantifying the monetary benefit of ecosystem services like pollination, water filtration, and carbon storage. From valuing tropical forests for their economic potential to quantifying the benefits of urban green space, a commonality in my research interests is working toward ecologically sustainable resource management that recognizes the role of citizen stakeholders.

Kaitlyn Pike is a graduate student working towards her Masters of Science in Environmental Science at DePaul University and is a graduate student research fellow through The Morton Arboretum's Center for Tree Science. Her master's thesis will examine the impact of construction on 'Heritage' trees in the City of Highland Park, as well as the perceptions that homeowners and developers have of trees on residential property. In addition to this, she works in Dr. Jess Vogt's Lab for Urban Forestry in the Anthropocene, is President of the DePaul Student Tree Committee, and is the Senator for Sustainability in DePaul's Student Government Association.



Alli Preble is a Sustainability Associate with the local nonprofit Seven Generations Ahead, implementing healthy, environmentally friendly programs and connecting Chicagoland communities to green initiatives. Her background is in urban soils and forestry as well as the arts. She is also pursuing her Masters of Science in Environmental Science at DePaul University.



Dr. Jess Vogt is an Assistant Professor of Environmental Science & Studies at DePaul University, where she runs LUFA: the Lab for Urban Forestry in the Anthropocene. LUFA's research investigates urban trees and the people who manage them in the Anthropocene - the new era where humans are the dominant influence on Earth system processes - through the lens of sustainability science. At DePaul, Jess teaches courses in sustainability, urban forestry, and research methods at the undergraduate and graduate level. Jess is also active in the urban forestry professional community as an Associate Editor for the journal *Urban Forestry & Urban Greening*, Vice Chair of the Science and Research Committee for the International Society of Arboriculture (ISA), and Director of Research for the Illinois Arborist Association. In 2018, she was awarded the ISA Early Career Scientist Award of Distinction. She

and her husband Paul are eagerly expecting the birth of their first child this April.

Elliott Volin recently completed a Master of Science degree in the Department of Natural Resources and the Environment at the University of Connecticut. His work focused on understanding inequities in urban tree canopy with and among cities across the US and modeling potential future conditions under scenarios of socio-ecological change. He also holds a BS/BA in Environmental Studies & History from Florida State University and spent 5 years in the US Army, rising to the rank of Captain.



After starting as a volunteer, Al Zelaya has spent 20 years working in urban forestry, arboriculture, and natural areas management. Since 2008, Al has worked as an urban forester at the Davey Institute. His responsibilities include research, development, and providing training and technical assistance for global i-Tree projects. Previously, Al was a Regional Urban Forestry Coordinator for the Wisconsin Department of Natural Resources and worked as a Forester for the Lake County Forest Preserves.