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North Carolina Urban Forest Council



NC STATE UNIVERSITY

2008 North Carolina Urban Forestry Conference



Trees for an Urban Future

*Emerging Issues, Innovations,
and Current Trends*



September 9-11, 2008

Greensboro, NC

Conference Program

Pre-Conference Events September 9, 2008

Project Learning Tree Workshop 9:00am-2:00pm - Summit Room

Leader: Renee Strnad, NC State University

This workshop will give urban forestry professionals and educators the opportunity to come together and interact as they learn educational strategies to educate a variety of audiences about our urban forests, trees, and other issues affecting communities. This workshop will include lunch and the UNC Greensboro Campus Tour in the afternoon.

UNC Greensboro Campus Walking Tour 2:00pm-5:00pm - Room 200, Patricia Sullivan Science

Building on UNCG Campus

Tour Leader: Fred Patrick, UNC Greensboro

UNC Greensboro is pleased to host a field trip to Peabody Park, a true "Urban Forest" of approximately 30 acres located at the north end of campus. Specific examples of best practices of construction around trees will be discussed including re-forestation, stream restoration, root pruning, and root aeration beds.

Rain Garden Tour 2:00pm-5:00pm - Meet in Lobby

Tour Leader: Debbie Stringer, Carolina Stalite

Participants will tour two rain garden systems in the Greensboro area. An overview of the function and impact of the rain gardens as well as the project design and installation process will be discussed.

Opening Reception 5:30pm - 7:30pm - Virginia Room

Keynote Speakers:



Kathleen Wolf

Dr. Kathleen L. Wolf is a Research Social Scientist at the College of Forest Resources, University of Washington, and does research in environmental psychology. She has worked professionally as both a landscape architect and as an environmental planner. Since receiving her Ph.D. from the University of Michigan, Dr. Wolf has done research to better understand the human dimensions of urban forestry and urban ecosystems. Dr. Wolf's professional mission is to discover, understand and communicate human behavior and benefits, as people experience nature in urban settings. An overview of Dr. Wolf's research programs can be found at www.cfr.washington.edu/research.envmind.



Gary Moll

Gary Moll is vice president of the Ecosystem Analysis Center at AMERICAN FORESTS and has worked as an urban forester for 30 years in the public, private, and nonprofit sectors. Over the last 14 years, Moll has led an effort to map, measure, and analyze the value of urban ecosystems. This effort includes the development of a new technique to analyze urban ecosystems using Geographic Information Systems technology and a desktop application of this technique called CITYgreen. He has authored numerous urban forestry articles and two books, *Shading Our Cities*, and *Growing Greener Cities*.

September 10, 2008

7:00am Registration/Check-In

7:30am Breakfast with Exhibitors - Southern Crescent Foyer

General Session - Carolina and Georgia Rooms

8:30am Welcome

Yvonne Johnson, Mayor, Greensboro, NC

8:40am **Keynote Address**

Tree and Community Livability

Dr. Kathleen L. Wolf

10:15am Exhibitors Break - Southern Crescent Foyer

Concurrent Sessions

Triad Ballroom

10:30am Managing Stakeholder Involvement for an Effective Tree Ordinance
Dr. Steve Smutko, North Carolina State University

11:15am Tree Protection Ordinances: No Lorax Required
Chad Meadows and Craig Richardson, Clarion Associates

Carolina and Georgia Rooms

10:30am The Light Imprint Initiative: Integrating Sustainability and Community Design
Thomas E. Low, DPZ & Company

11:15am Parking and Trees for Cities and Towns
Dr. Kathleen Wolf, University of Washington

12:00 - 1:30 Lunch in Governor's Room

Triad Ballroom

1:30pm The Use of LID Techniques in Residential Development
Bob Benfield, City of Cary Planning Department

2:15pm Costs of Community Services for Different Land Uses
Dr. Mitch Renkow, North Carolina State University

Carolina and Georgia Rooms

1:30pm Innovative Solutions to Balancing Natural Resource Protection and Growth in Chatham County
Allison Weakley & Fred Royal, Chatham County

2:15pm Integrating Conservation into Subdivision Growth
Eric Bridges, City of Lakland, TN

3:00pm Exhibitors Break - Southern Crescent Foyer

Concurrent Sessions

Triad Ballroom

3:30pm LEED Certified Construction
Jill Coleman - *Project Manager*,
Facilities Planning Department, UNC

Conservation Based Design Case Study
Frank Jacobus - *President*, William
Brewster Co. and CedarCroft Homes

Green Roof Techonology
Chuck Friedrich - *Landscape Architect*,
Horticultural Product Manager, Carolina
Stalite Company

Carolina and Georgia Rooms

3:30pm Trees and Unified Development
Ordinances
Lauren Blackburn - *Town Planner*,
Town of Davidson

David Grant - *Urban Forester*, Union
County

Randal Romie - Greensboro Beautiful

5:30pm-9:00pm Hospitality Suite hosted by Duke Energy

Dinner on your own in Greensboro

September 11, 2008

7:00am Registration/Check-In

7:30am Breakfast with Exhibitors - Southern Crescent Foyer

Concurrent Sessions

Triad Ballroom

8:30am Planting and Maintaing a Sustainable
Urban Forest
Bruce R. Fraedrich, Ph.D., Bartlett
Research Lab

Carolina and Georgia Rooms

8:30am Street Tree Sustainability
Dan Whitehead, Moon's Tree Farm

9:15am Streetscape Design and Successful
Street Trees
Erin Schnieders & Pat Hart, Kimley-
Horne and Associates

10:00am Exhibitors Break - Southern Crescent Foyer

Concurrent Sessions

Triad Ballroom

10:30am Conserving Urban Biodiversity: What,
Where, Why and How?
Jeff Marcus, NC Wildlife Resources
Commission

11:15am Green Infrastructure: What, Why
and How?
Jon Calabria, North Carolina State
University

Carolina and Georgia Rooms

10:30am Green Infrastructure and Stormwater
Management
Matt Arnn, USDA Forest Service

11:15am Integrating Green Infrastructure
Mapping & Urban Forestry
Ian Hanou, NCDC Imaging

12:00 – 1:30 Lunch in Governor's Room

12:00pm Tree City USA Recognition Luncheon - Summit Room

General Session - Carolina and Georgia Rooms

1:30pm Keynote Address
The Piedmont Crescent: Rebuilding the Nation's Forest Fabric, a framework for policy that will better
manage the relationship between the human network and the natural system
Gary Moll, American Forests

3:00pm End of Conference

2008 North Carolina Urban Forestry Conference Speakers (bios)

Matt Arnn is the Area Landscape Architect for the Forest Service Northeastern Area. He works with large metropolitan communities in the 22 state region on projects that regenerate urban spaces. Matt is the project leader for the Forest Service's Living Memorials Project (www.livingmemorialsproject.net), an effort to create new parks and open space to help affected communities find balance after the events of September 11, 2001. His project experience ranges from small award-winning urban parks in New York City to large-scale master plans in developing countries. Matt holds a Master's in Environmental Planning from the University of Virginia School of Architecture, a Bachelor's in Landscape Architecture from the City College of NY and a Bachelor's in Physical Geography from the University of Texas at Austin.

Lauren Blackburn has been a planner for the Town of Davidson, North Carolina for two and one half years. Lauren focuses most of her time managing Natural Assets Inventory, Tree Canopy Inventory and Management Plan, and Bicycle Transportation Master Plan. She graduated from the University of Arkansas at Fayetteville with an undergraduate degree in Landscape Architecture and the University of Illinois at Urbana-Champaign with a Masters in Urban and Regional Planning. Lauren worked for the UNC Charlotte Urban Institute's Land Use and Environmental Studies Division for two years prior, researching regional growth and policy initiatives.

Bob Benfield began his planning career with the Town of Cary in 1973. Through the years, Bob has held several positions in Cary's Departments of Engineering, Development Services, and Planning and Development. Bob currently serves as the Principal Planner in Cary's Current Planning Division of the Department of Planning and Development; and he is responsible for the review and approval of development plans and for creating and enforcing development related ordinances in a Town whose population has now surged above 129,000. Bob also serves as Cary's primary Planner responsible for the review and approval of Low Impact Development plans, and he has been invited to share with us Cary's experience in implementing Low Impact Development standards.

Eric Bridges is a forestry graduate from Colorado State University and has worked for the past 18 years in the field of forestry. His has worked in several states (Alaska, California, Colorado, & Tennessee) and for federal, state, local, and private sectors. His current position as Director of Natural Resources for the City of Lakeland has placed him into a policy advising position where he is attempting to combine conservation with suburban development. Eric is the president of the West Tennessee Chapter of the Society of American Foresters (SAF), is a certified forester with SAF, and is an ISA certified arborist.

Jon Calabria is faculty at North Carolina State University and coordinates the French Broad Watershed Training Center at the North Carolina Arboretum in Asheville, NC where he designs, constructs, and interprets water quality educational programs and projects. Experience includes all phases of Low Impact Development, stream and wetland restoration, conservation master planning, greenway, park and recreation design. Jon is a registered landscape architect in NC and GA and holds degrees in Landscape Architecture from the University of Georgia and Clemson University, where he also hopes to complete his PhD in Wildlife and Fisheries Biology . . . soon.

Jill Coleman is the Facilities Planning Landscape Architect with at the University of North Carolina at Chapel Hill, where she has been located since 2002. Jill attained a bachelor’s degree in Horticulture and a masters’ degree in landscape architecture from North Carolina State University. Her current position responsibilities include coordinating/reviewing the landscape portion of capital project including hardscape design and planting plans; insuring that capital projects implement the landscape and open space network outlined in the Campus Master Plan; developing and implementing design and construction guidelines for landscape architecture and landscape construction; and serving as project manager for University Capital Improvement Projects. Jill has been a LEED accredited professional since 2006.

Bruce Fraedrich, Ph.D. is Vice President of Research for Bartlett Tree Research Laboratories in Charlotte, North Carolina. Dr. Fraedrich has been with Bartlett since 1975. His positions have involved research and extension responsibilities in shade tree disease management and tree management plans. Dr. Fraedrich is an ISA Certified Arborist and an active member of several related organizations. He earned his B.A. degree at Newberry College, his M.F. degree in forestry at Duke University and his Ph.D. in plant pathology at Clemson University.

Chuck Friedrich is a Horticulturist and Landscape Architect employed with Carolina Stalite Company in Salisbury, NC. He received his Master of Landscape Architecture Degree from North Carolina State University and his B.S. Degree in Ornamental Horticulture from Delaware Valley College of Science and Agriculture. As Director of Horticulture Research and Product development at Stalite, Chuck developed PermaTill soil conditioner, VoleBloc Barrier, Stalite Structural Soil, Lightweight Green Roof Media, Bio-Retention Rain Garden Media and researched the use of expanded slate in constructed wetland systems. Chuck is a member of the American Society of Landscape Architects, NC Landscape Contractors Association, ASTM, The Land Conservancy of North Carolina, Green Roofs for Healthy Cities, NC Urban Forest Council, and The Garden Writers of America.

David Grant is the Urban Forester for Union County, North Carolina. He came to NC two years ago through the NC Division of Forest Resources U&CF grant program when Union County was awarded a cost share grant for a “staff position”. He serves as a resource for 15 municipalities in urban forestry, forestry and natural resource issues. Tree ordinance review, draft & revision, ordinance workshops, plan review, development site visits, tree board meetings, conflict resolution, tree biology & pruning workshops and tree planting are regular activities in his position. David is a third generation arborist and a second generation certified arborist. He loves to share his passion for trees and has found a very eager audience in Union county.

Ian S. Hanou, Account Manager, NCDI Imaging & Mapping, Colorado Springs, CO; B.S. Forest Management & Spatial Information Management Systems, Colorado State University 2001; member SAF and SE CO/WY Chapter Treasurer 2006-2007, focus on high-resolution satellite imagery and automated feature extraction technology for urban forestry, wildland fire, forest health, forest biomass, watershed management, green infrastructure design and water resource planning.

Pat Hart, RLA, is a Vice President and Senior Project Manager with Urban Resource Group (a division of Kimley-Horn and Associates, Inc.) in Cary, NC. With thirteen years of landscape architecture experience, he has focused his practice on urban and streetscape design. Mr. Hart has served in URG’s Cary, Dallas, Denver, Miami Beach, and Vero Beach design studios working with multi-disciplinary design teams on a diverse portfolio of streetscape projects ranging from suburban parkways to small town main streets to downtown urban public spaces. He is actively involved in the American Society of Landscape Architects, the US Green Build Council, and Projects for Public Spaces. He has an Associate’s degree in Architectural Technology from Del Mar College and earned his B.L.A. from Texas A&M University.

Thomas E. Low, AIA CNU LEED, Director of Duany Plater-Zyberk & Company’s Charlotte, NC office, is an expert on town planning and traditional neighborhood development, light imprint urbanism, and school campus design. Tom has managed and completed more than 150 New Urbanism projects across the U.S. Recently, Tom published the “Light Imprint Handbook” and is pursuing publishing the book “Civic By Design: John Nolen’s Lesson for New Urbanism.”

Jeff Marcus is the Piedmont Wildlife Diversity Supervisor for the NC Wildlife Resources. Jeff earned a masters degree in wildlife management from NC State, and after a 3 year hiatus from the state he returned to work for NCWRC in 2002. In 2004 he helped to launch the Urban Wildlife Project which attempts to minimize and mitigate the negative impacts of urbanization on wildlife and habitats. Jeff currently supervises staff who works on this project. He lives in Aberdeen, NC.

Chad Meadows is a Senior Associate in Clarion Associates’ Chapel Hill Office. Mr. Meadows is a planner with over thirteen years of experience in public and private sector planning. He has worked on a diverse array of projects in his career at Clarion, including: Land

development codes, Subdivision standards, Design standards and guidelines, and Comprehensive and growth management plans. Prior to joining Clarion Associates, Mr. Meadows oversaw the Land Development Ordinance Update in Cary, North Carolina and worked as a Senior Planner on growth management issues in Monroe County, Florida. Mr. Meadows holds both a master’s degree in urban and regional planning from Portland State University and a bachelor’s degree in geography from the University of North Carolina, Greensboro.

Mitch Renkow is a Professor and Extension Specialist in the Department of Agricultural and Resource Economics. His research and extension activities focus on economic development, labor economics and local public finance.

Craig Richardson is a planner, lawyer, and Vice President of Clarion Associates. He is Director of the firm’s North Carolina office. Mr. Richardson has consulted with over 100 local government clients in a number of states throughout the country on the preparation of development codes, growth management strategies, adequate public facility regulations, impact fees, and workforce housing plans and regulations. He has a strong record of success in leading code revision projects, growth management strategies, and other plan implementation efforts. Recent growth management efforts include leading the firm’s preparation of the South Beaufort County Regional Plan (selected the Outstanding Multi-Jurisdictional Plan by SCAPA); designing the plan conformance and projects of regional significance process for the Southern Nevada Regional Plan (which won the DeBoer Award for Planning Excellence); and leading the public facilities and cost of growth components of the Wake County Growth Management Strategy. He serves on the faculty for APA’s national Zoning Clinic.

Randal Romie is the President of Designature (Design-Nature) which is a Landscape Architectural Firm in Greensboro, NC specializing in commercial landscapes, renovations and therapeutic gardens. He is the Past-Chair of Greensboro Beautiful and 2004 recipient of the Robert Garrard Award for improving the quality of life in the community including his design and work to get the new stone bridge built at the Bicentennial Garden and chairing tree-plantings at Caldwell Park and Price Park. Randal is the Past Chair of the City of Greensboro’s ACT, ADVISORY COMMISSION ON TREES, and helped write the City’s Tree Preservation Ordinance and Scenic Corridor Ordinance.

Fredric T. Royal, is the Director of Environmental Resources for Chatham County, NC. He is responsible for environmental regulations and policy, Stormwater and Floodplain Management, Development Review, Technical Assistance, Drainage design, other regulatory provisions and policy. He earned a Associate’s degree in Applied Science in Marine Technology from Cape Fear Community College, a B.S. degree in Civil Engineering from Texas A&M University, and a Master of Project Management from Northwestern University. His professional interests include Low Impact Development, Watershed Planning, National and State Water and Stormwater Policy. Fred is a professional engineer with the State of North Carolina and is a certified floodplain manager, certified in wetland identification and delineation and in stream surface water identification.

Erin A. Schnieders is a Landscape Architecture Designer with Urban Resource Group (a division of Kimley-Horn and Associates, Inc.) in Cary, NC. Her experience has focused on streetscape design and the urban horticultural environment. Previous to her position at URG, Ms. Schnieders had worked in Florida with Disney’s Horticulture Division and other private design/build firms in the Chicago area. Ms. Schnieders is an ISA Certified Arborist and an active member of American Society of Landscape Architects, US Green Build Council, and Green Roofs for Healthy Cities. She earned her B.S. degree in Horticulture and Environmental Studies at Iowa State University and her Masters of Landscape Architecture from Kansas State University.

Steve Smutko is an Extension Specialist in the Department of Agricultural and Resource Economics at North Carolina State University, and directs the Natural Resources Leadership Institute. Steve’s academic and extension experience is in the areas of environmental economics and policy, decision making and negotiation, and public issues education. Steve received a PhD in Economics from Auburn University, an MS in Community and Regional Planning from North Dakota State University, and a BS from the College of Forestry and Natural Resources at Colorado State University.

Allison Weakley is a consulting biologist with an expertise in water quality, landscape integrity, rare species conservation, and wildlife habitat. Ms. Weakley has experience evaluating development and natural resource management plans, conducting environmental analysis to determine potential impacts of alternatives on natural resources and species viability, writing and reviewing biological evaluations and environmental assessments, and a background in environmental law, policy and conservation planning. She has considerable experience conducting biological surveys in North Carolina and is certified by the NC Division of Water Quality to identify and classify streams. Ms. Weakley has worked for the U.S.D.A., U.S. Forest Service, NatureServe, University of North Carolina, the NC Botanical Garden, the Flora of North America and Flora of Virginia projects, and the Triangle Land Conservancy. She holds a M.S. from the University of North Carolina-Chapel Hill in Biology, a B.S. from the University of Maryland-College Park in Plant Biology, and an Associate’s degree in Business Administration from Montgomery College in Maryland.

Dan Whitehead earned his Bachelor of Science degree in Ornamental Horticulture from the University of Tennessee in 1986. He is the Horticulturist / Sales Manager for Moon’s Tree Farm, Inc and Marketing Director for Southern Selections, LLC (a sister company focused development of urban tolerant tree cultivars). Dan is a member of the Advisory Board for the Ornamental Horticulture program at Gwinnett Technical College, previous Board Member / Past-President of the Georgia Urban Forest Council and an ASLA Continuing Professional Education Provider. Over the past few years he has become involved in a sponsorship role with the Georgia Urban Forest Council, South Carolina Urban and Community Forest Council, North Carolina Urban Forest Council, Alabama Urban Forest Council, Tennessee Urban Forest Council and the Georgia Chapter of the American Society of Landscape Architects.