

Urban Tree Growth & Longevity

This special section of *Arboriculture & Urban Forestry* contains a series of papers related to urban tree growth and longevity. Research and new information on urban tree growth and longevity is important for improved management of our urban trees and forests, as well as assessing their function and value. The papers in this section were presented at the Urban Tree Growth & Longevity Conference held on September 12–13, 2011 at The Morton Arboretum (Lisle, Illinois, U.S.). This international conference brought together researchers and practitioners to discuss the current state of knowledge concerning urban tree growth and longevity. The conference covered four topic areas: 1) Descriptive studies of tree growth, longevity, and mortality; 2) Roles of tree production and sales on tree growth and longevity; 3) Roles of site design and tree selection on tree growth and longevity; and 4) Roles of tree and site management on tree growth and longevity.

These additional papers from the conference were published in September 2012.

Urban Tree Growth Modeling

E. Gregory McPherson and Paula J. Peper

Origins of the Chicago Urban Forest: Composition and Structure in Relation to Presettlement Vegetation and Modern Land Use

Robert T. Fahey, Marlin L. Bowles, and Jeanette L. McBride

Selection Approach of Urban Trees for Inner-city Environments: Learning from Nature

Henrik Sjöman, Allan Gunnarsson, Stephan Pauleit, and Roland Bothmer

Provenance Experiments with Baldcypress, Live Oak, and Sycamore Illustrate the Potential for Selecting More Sustainable Urban Trees

Michael A. Arnold, Donita L. Bryan, Raul I. Cabrera, Geoffrey C. Denny, Jason J. Griffin, Jeffery K. Iles, Andrew R. King, Gary W. Knox, Leonardo Lombardini, Garry V. McDonald, Cynthia B. McKenney, D. Thayne Montague, Genhua Niu, H. Brent Pemberton, Adam L. Purnell, Larry J. Shoemaker, Daniel K. Struve, and W. Todd Watson

Soil Quality Attributes as Indicators of Urban Tree Performance

Bryant C. Scharenbroch and Michelle Catania

Root Pruning at Planting and Planting Depth in the Nursery Impact Root System Morphology and Anchorage

Edward F. Gilman and Christine Wiese

Urban Tree Growth and Longevity: An International Meeting and Research Symposium White Paper

Rachel Leibowitz

E. Gregory McPherson
Research Forester
USDA Forest Service

Bryant C. Scharenbroch
Research Department
The Morton Arboretum