

## 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