

CURRICULUM VITAE

Peter Del Tredici

EDUCATION

B.A., Zoology: University of California, Berkeley, 1968.

M.A., Biology: University of Oregon, 1969.

Ph.D., Biology: Boston University, 1991. Thesis topic: "The Evolution and Natural History of *Ginkgo biloba* L." Research on this project extended over a three year period and involved field research in eastern China (fall of 1989) and South Carolina.

PROFESSIONAL AND ADMINISTRATIVE EXPERIENCE

Senior Research Scientist, Arnold Arboretum of Harvard University

(July 2003 to present) My major responsibility is to develop a research program utilizing the living collections of the Arnold Arboretum. In this regard, I have published peer-reviewed, scientific articles on ecological monitoring (phenology), urban ecology (invasive species), tree architecture (vegetative regeneration in woody plants) and the molecular taxonomy, ecology, and cultivation of various hemlock (genus *Tsuga*), *Magnolia* and *Stewartia* species.

Lecturer, Harvard University Graduate School of Design (1993 - present)

Appointed Adjunct Associate Professor in July 2011

I taught the "Plants and Design" course to 2nd year students in the core curriculum from 1993 through 2009. Since the fall of 2003, I have taught electives on "Soils for Landscape Architects" and "Ecological Strategies of Disturbed Sites;" and since 2008, I have been teaching a required soils module in the core curriculum for 2nd year students. In the fall of 2009, I taught a new elective course for 3rd year students, "Sustainable Plants for a Changing World." Beginning in 2010, I have been teaching half courses on soils and on urban ecology in the new "Ecologies, Techniques and Technologies" portion of the newly designed core curriculum.

In 2005-06, with a grant from the Provost's Office for innovative teaching technologies, I created the EVUE website (Emergent Vegetation of the Urban Environment) with a small group of GSD students that covers the identification and uses of one hundred common (spontaneous) urban plants. I published a book, *Wild Urban Plants of the Northeast* (Cornell University Press, 2010) based on this website.

Director of Living Collections of the Arnold Arboretum of Harvard University

(May 1992 to July 2003) I managed the Living Collections Department, consisting of eight staff members and fourteen unionized grounds crew working in maintenance, propagation, and plant records sub-departments. Ultimately I was responsible for overseeing all aspects of planning, development, and management of the Arboretum's 17,000 accessioned plants, spread out over 265 acres, including the maintenance of an extensive infrastructure network of walls, roadways, trails, and drainage pipes. The primary purpose of these collections is scientific in nature, and my responsibility was to oversee their curation to facilitate research by Arboretum staff as well as by scientists from other academic institutions. My own research interests during this time period included the morphology and ecology of sprouting in

gymnosperms; the development of form in woody plants; and the growth and physiology of plant root systems.

As a representative of the Arboretum, I have participated in eight plant collecting expeditions to China: Zhejiang Province in eastern China to study *Ginkgo biloba* (1989 and 1995); Hubei Province in central China (1994); Jilin Province in northeast China (1997); Guizhou Province to observe *Ginkgo biloba* in the wild (2002); Jiangxi Province in central China to collect *Stewartia* (2004); Sichuan Province in southwest China (2005); and Chongqing Province in central China to study wild *Ginkgo* (2007). I have also collected plants in Korea and Japan (2008) as well as the southeastern and western United States on behalf of the Arboretum.

Editor of *Arnoldia*, the Magazine of the Arnold Arboretum (1989 to April 1992)

I was responsible for coordinating all phases of the production of this quarterly publication, from soliciting, editing, and writing articles to supervising design, printing, and distribution. In all, I produced fourteen issues of *Arnoldia*. Part of my current job at the Arboretum is to supervise the Editor of *Arnoldia*.

Assistant Plant Propagator, Arnold Arboretum (1979 to 1989)

I participated in all aspects of the operation of the Dana Greenhouses and nurseries. I specialized in propagation of woody plants from seed, cuttings, and grafting, and have published on a wide variety of plants at the Arboretum.

Curator of the Larz Anderson Bonsai Collection (1982 to present)

In this capacity, I have been responsible for all aspects of the care and maintenance of this collection of bonsai trees, which is of the most historically significant bonsai collections in North America.

Research Technician, Cabot Foundation Laboratories, Harvard Forest, Petersham, Mass. (1972 to 1977)

I was in charge of operating the laboratories and greenhouses and participated in research investigating nitrogen-fixation by non-leguminous trees and shrubs, primarily *Comptonia peregrina*, the sweet fern. The work culminated with the first successful isolation and *in vitro* cultivation of actinobacteria in the genus *Frankia*. I also worked on a project on the longevity of seeds buried in forested soils.

Partner, Arnold Arboretum / National Park Service Collaboration (1991 to 1999)

I have worked closely with the Eastern Region Office of the National Park Service in developing guidelines for "Cultural Landscape Preservation" programs at various historic sites in the Boston area, most notably the F. L. Olmsted site in Brookline, Massachusetts. I have also helped in the organization of several conferences on historic landscape preservation and have presented papers at them.

Landscape Consultant (1985 to present)

I have periodically consulted with a variety of landscape architects, government officials, and property management firms on issues associated with landscape management and design. Typically the work involves site evaluation and site planning related to tree plantings. Since 1991, I have served on the "Harvard Yard Tree Committee" that developed and implemented the program to replace the dying elm trees in Harvard Yard. I have served as a consultant for Garnay Inc., of Sumter,

South Carolina, on the cultivation and production of *Ginkgo biloba* leaves for pharmaceutical purposes from 1990 through 2003.

AWARDS AND GRANTS

Awarded a *Bullard Fellowship* in Forest Research from the Harvard Forest in Petersham, Massachusetts, where I was in residence from September 1, 1999 through March 1, 2000.

Winner of the *Arthur Hoyt Scott Medal and Award* for 1999, presented annually by the Scott Arboretum of Swarthmore College to either an individual or organization "in recognition of their outstanding national contributions to the science and art of gardening."

Awarded a \$3,000 grant from the *Highstead Foundation* of Redding, Connecticut in 1993 for basic research on the growth and development of lignotubers in mountain laurel, *Kalmia latifolia*, the rose bay rhododendron, *Rhododendron maximum*, and the California redwood, *Sequoia sempervirens*.

Awarded (with Dr. K. Tripp) a \$12,000 grant from the *Stanley Smith Horticultural Trust* (1995) to evaluate and distribute new woody ornamental plants from the collections of the Arnold Arboretum.

Awarded a \$5,000 travel grant from the *Institute Henri Beaufour* in Paris, France in 1989 to fund field work in China for my Ph.D. research on the natural history of *Ginkgo biloba*.

Winner of the *Jackson Dawson Medal* for 1986, awarded by the Massachusetts Horticultural Society for "skill in the science and practice of hybridization and propagation of plants."