

DONALD A. FALK
Associate Research Professor, Dendrochronology
Laboratory of Tree-Ring Research
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EDUCATION

- Ph.D. University of Arizona, Ecology & Evolutionary Biology, 2004
Doctoral studies, University of Washington, Division of Ecosystem Studies, 1995-97
M.A. Tufts University, Environmental Policy, 1980
B.A. Oberlin College, Interdisciplinary Studies, 1972

RESEARCH INTERESTS

Fire ecology, fire history, dendroecology, fire-climate relationships, ecological scale, restoration ecology.

PROFESSIONAL APPOINTMENTS

- 1998 – 2007 **Laboratory of Tree-Ring Research, University of Arizona**
2004 – 2007 Adjunct Associate Professor
1998 – 2004 Graduate Associate in Research
- 1993 – 2002 **Society for Ecological Restoration**
2000 – 2002 Science & Policy Consultant.
1993 – 2000 Executive Director. First director of the leading international organization dedicated to the science and practice of ecological restoration.
- 1993 – 94 **The Nature Conservancy of Arizona.** Field biologist and consultant for assessment of conservation status of rare plants in southern Arizona.
- 1984 – 93 **Center for Plant Conservation, Co-Founder and Executive Director.** Co-founder of first national organization dedicated to conservation of endangered plants, at Arnold Arboretum (Harvard University (1984-1991) and Missouri Botanical Garden (1991-present).
- 1980 – 84 **Cambridge Community Development Department, Energy Director**
Responsible for developing and managing \$1.5 million residential energy conservation program.

AWARDS AND HONORS

- 2004 Center for Plant Conservation, STAR Award
2004 International Association of Landscape Ecology (US), Student Presentation Award, Honorable Mention
2003 Edward S. Deevey Award, Ecological Society of America
2001 – 02 Marshall Foundation Graduate Fellowship
2001 – 03 National Science Foundation, Doctoral Dissertation Improvement Grant
2001 – 02 Robert W. Hoshaw Scholar, Ecology & Evolutionary Biology, U. Arizona
1999 - 2000 William McGinnies Scholar, Arid Lands Studies, University of Arizona
1998 - 2001 Achievement Rewards for College Scientists (ARCS) Scholar
1996 Pinchot Institute for Conservation, U.S. Forest Service, Conservation Scholarship
1995 - 96 Lockwood Fellow, College of Forest Resources, University of Washington
1991 Fulbright Short-Term Scholars Award, Australian Fulbright Foundation

1991 - current Fellow, American Association for the Advancement of Science (AAAS)
1990 - 91 Arboretum Associate, Arnold Arboretum, Harvard University
1990 Plant Conservation Award, New England Wild Flower Society
1981 Governor's Award for Energy Conservation, Commonwealth of Massachusetts
1968 National Merit Finalist, National Merit Scholarship Board
1967 Institute in American Studies, St. Andrew's Academy, Boca Raton, FL

TEACHING, LECTURES, AND INTERNSHIPS

2005 - 7 Dendroecology (Geosciences/Ecology 497k597k) (with T. W. Swetnam)
2003 - 6 Lectures and seminars in restoration ecology and conservation biology, School of Natural Resources and Department of Ecology & Evolutionary Biology, University of Arizona
2002 University of Arizona, Environmental History of the Southwest (Teaching Assistant), P. Sheppard
2000 - 1 Columbia University, Earth Semester Mentor, BioSphere II, Oracle, AZ.
1999 - 2005 Dendroecology (lectures), EEB and LTRR, University of Arizona
1988 - 9 Conservation Botany, Arnold Arboretum of Harvard University
1984 - 90 Tufts University, Adjunct Assistant Professor, Dept. of Urban and Environmental Policy:
Biological Diversity and Conservation Strategies
Introduction to Environmental Policy
Environmental Political Economy
1979 Science Instructor, Charles River Academy, Cambridge, MA
1979 - 80 The Nature Conservancy/Massachusetts Department of Environmental Management, Research Associate, Massachusetts Natural Heritage Program.
1978 EarthWatch, Inc./Massachusetts Department of Environmental Management.
1978 Research Assistant, Hummingbird Cay Field Station, Great Exuma, Bahamas
1978 Graduate Teaching Assistant, Environmental Planning and Design
1977 - 78 Lincoln Filene Center, New England Environmental Network, Tufts University.

ADVISORS AND PRIMARY COLLABORATORS

James Aronson, Centre National de la Recherche Scientifique, France	Constance Millar, US Forest Service
Craig Allen, USGS	Carol Miller, Aldo Leopold Wilderness Institute
Wallace Covington, Northern Arizona University	Norton Nickerson, Tufts University
Brian Enquist, University of Arizona	Margaret Palmer, University of Maryland
Lisa Graumlich, Montana State University	Peter Raven, Missouri Botanical Garden
Charles Halpern, University of Washington	Robert Robichaux, University of Arizona
Emily Heyerdahl, US Forest Service	Melissa Savage, UCLA/Four Corners Institute
Nathan McDowell, Los Alamos National Laboratory	Thomas Swetnam, University of Arizona
Donald McKenzie, US Forest Service	Lawrence Venable, University of Arizona
Ann Lynch, US Forest Service	Peter White, University of North Carolina
	Joy Zedler, University of Wisconsin

SELECTED PUBLICATIONS

Books

- Falk, D. A., M. A. Palmer, and J. Zedler (eds.). 2006. *Foundations of Restoration Ecology*. Island Press, Washington, DC.
- Falk, D.A., C.I. Millar, and M. Olwell (eds.). 1996. *Restoring Diversity: Strategies for Reintroduction of Endangered Plants*. Island Press, Washington, DC.
- Falk, D.A. and K.E. Holsinger (eds.). 1991. *Genetics and Conservation of Rare Plants*. Oxford University Press, New York.

Editing

- 1998 – current Co-founder and Associate Series Editor, *Science & Practice of Ecological Restoration*, Island Press and Society for Ecological Restoration. Titles to date:
- Morrison, M. L. 2002. *Wildlife restoration: Techniques for habitat analysis and animal monitoring*.
- Friederici, P. (ed.). 2003. *Ecological Restoration of Southwestern Ponderosa Pine forests*.
- Chambers, J. C. and J. R. Miller. 2004. *Great Basin riparian areas: Ecology, management, and restoration*.
- Guerrant, E. O., Jr., K. Havens, and M. Maunder. 2004. *Ex situ plant conservation: Supporting species survival in the wild*.
- Temperton, V. M., R. J. Hobbs, T. Nuttle, and S. Halle. 2004. *Assembly rules and restoration ecology*.
- Packard, S. and C. F. Mutel. 2005. *The tallgrass restoration handbook: For prairies, savannas, and woodlands*. 2nd Edition.
- Falk, D. A., M. A. Palmer, and J. Zedler (eds.). 2006. *Foundations of Restoration Ecology*.
- Apostol, D. and M. Sinclair. 2006. *Restoring the Pacific Northwest*.
- 1996 – 8 Section editor, Conservation and Ecological Management, *Encyclopedia of Ecology and Environmental Management*, P. Calow (ed.). 1998. Blackwell Science, Oxford, U. K.

Dissertation

- Falk, D. A. 2004. *Scaling rules for fire regimes*. Ph.D. dissertation, Department of Ecology & Evolutionary Biology, and Laboratory of Tree-Ring Research, University of Arizona. Tucson. 305 pp.

Journals and book chapters

- M. Lenart, F. N. Scatena, D. A. Falk, and W. R. Osterkamp. Tree uprooting and soil disturbance following a hurricane in Puerto Rico. *Journal of Tropical Ecology (in prep.)*.
- Falk, D. A., D. M. McKenzie, C. Miller, and A. E. Black. Cross-scale analysis of fire regimes. *Ecosystems (in press)*
- Zedler, J. B., D. A. Falk, and D. J. Larkin. 2007. Upstart views of restoration icons. *Bulletin of the Ecological Society of America* 88(1): 104-112.
- Falk, D. A. 2006. Process-centred restoration in a fire-adapted ponderosa pine forest. *Journal for Nature Conservation* 14: 140-151.
- Falk, D. A., C. M. Richards, A. M. Montalvo, and E. E. Knapp. 2006. Population and ecological genetics in restoration ecology. In Falk, Palmer, & Zedler (eds.), *Foundations of Restoration Ecology*. Island Press, Washington, DC.

- Falk, D. A., M. A. Palmer and J. Zedler. 2006. Integrating restoration ecology and ecological theory: A synthesis. In Falk, Palmer, & Zedler (eds.), *Foundations of Restoration Ecology*. Island Press, Washington, DC.
- Sisk, T. D., M. Savage, D. A. Falk, C. D. Allen, E. Muldavin, and P. McCarthy. 2005. A landscape perspective for forest restoration. *Journal of Forestry* 103 (6): 319-320.
- Maunder, M., K. Havens, E. O. Guerrant, and D. A. Falk. 2004. *Ex situ* methods: A vital but underused set of conservation resources. Pp. 3-20 in Guerrant, E. O., K. Havens, and M. Maunder (eds.), *Ex situ plant conservation: Supporting species survival in the wild*. Island Press, Washington, DC.
- Falk, D. A. and T. W. Swetnam. 2003. Scaling rules and probability models for surface fire regimes in Ponderosa pine forests. In *Fire ecology, fuel treatments, and ecological restoration*. US Forest Service, Rocky Mountain Research Station. General Technical Report RMRS-P-29, pp. 301-317. Ft. Collins, CO.
- Falk, D. A., E. Knapp, and E. O. Guerrant. 2002. An introduction to restoration genetics. Society for Ecological Restoration, Science & Policy Paper No. 1.
- Allen, C. D., M. Savage, D. A. Falk, K. F. Suckling, T. W. Swetnam, T. Schulke, P. B. Stacey, P. Morgan, M. Hoffman, and J. T. Klingel. 2002. Ecological restoration of southwestern Ponderosa pine ecosystems: A broad framework. *Ecological Applications* 12(5): 1418-1433.
- Thomas, S. C., C. B. Halpern, D. A. Falk, D. A. Ligouri, and K. A. Austin. 1999. Plant diversity in managed forests: understory responses to silvicultural thinning and fertilization. *Ecological Applications* 9(3): 864-879.
- Falk, D. A. 1995. Restoration priorities on the landscape scale. In Peterson, D. and C. Klimas (eds.), *The role of restoration in ecological management*. Society for Ecological Restoration/Parks Canada.
- Falk, D.A. and P. Olwell. 1992. Scientific and policy considerations in restoration and reintroduction of endangered species. *Rhodora* 94:287-315.
- Falk, D.A. 1992. From Conservation Biology to Conservation Practice: Strategies for Protecting Plant Diversity. In Fiedler, P.L. and Jain, S.K. (eds.), *Conservation Biology*. Chapman & Hall, pp. 397-425.
- Falk, D.A. 1992. Steps to the Formation of a National Plant Conservation Network. In Butler, G., L. Meredith, and M. Richardson (eds.), *Conservation of Rare or Threatened Plants in Australia*, Australian National Parks and Wildlife Service, Canberra, Australia, pp. 113-123.
- Falk, D.A. 1992. In defense of endangered species. *Missouri Botanical Garden Op-Ed Service* 10/92.
- Falk, D.A. 1990. Discovering the Future, Creating the Past: Some Reflections on Restoration. *Restoration & Management Notes* 8(2): 71.
- Falk, D.A. 1990. A Restorative Strategy for Endangered Species. In J. Berger (ed.), *Environmental Restoration: Science of Strategies for Restoring the Earth*, pp. 328-334. University of California, Berkeley. Island Press, Washington, DC.
- Falk, D.A. 1990. Endangered Forest Genetic Resources in the U.S.: Integrated Strategies for Conservation. *Forest Ecology and Management*. 35:91-117.
- Falk, D.A. 1990. Integrated Strategies for Conserving Plant Genetic Diversity. *Annals of the Missouri Botanical Garden* 77:38-47.
- Falk, D.A. 1990. The Theory of Integrated Conservation Strategies for Biological Diversity. In Leopold, D. (ed.), *Ecosystem Management: Rare Species and Significant Habitats*. Proceedings of the 14th Annual Natural Areas Conference, Natural Areas Association. State University Press of New York. New York State Museum Bulletin No. 471.
- Falk, D.A. 1989. Conserving the native diversity of the U.S. *Conservation Digest* 2(5): 10.

- McMahan, L. R. and D. A. Falk. 1989. The Center for Plant Conservation: Collaborating with the National Plant Germplasm System to Save Seeds for the Future. *Diversity* 5:43.
- Falk, D. A. 1988. Testimony on the National Biological Diversity, Conservation and Research Act. U.S. House of Representatives, Committee on Science, Space, and Technology, Subcommittee on Natural Resources, Agricultural Research, and the Environment. 31 May.
- Falk, D.A. 1988. The Center for Plant Conservation: Conserving the Native Plant Genetic Diversity of the United States. *Diversity* 16:20-21.
- Falk, D.A. 1988. Helping to Ensure a Future in the Wild. *Plant Conservation* 3(2): 3.
- Falk, D.A. and L.R. McMahan. 1987. Endangered Species: Managing for Diversity. *Natural Areas Journal* 8(2): 91-99.
- Falk, D.A. 1987. Integrated Conservation Strategies for Endangered Plants. *Natural Areas Journal* 7(3): 118-123.
- Falk, D. A. and P. S. Ashton. 1987. Testimony to the U.S. House of Representatives, Committee on Science, Space, and Technology, Subcommittee on Natural Resources, Agricultural Research, and the Environment
- Falk, D.A. 1987. Endangered species conservation *ex situ*: The national view. In T.S. Elias (ed.), *Conservation and Management of Rare and Endangered Plants*. California Native Plant Society, Sacramento, CA.
- Thibodeau, F.R. and D.A. Falk. 1986. Building a national *ex situ* network: The U.S. Center for Plant Conservation. In D. Bramwell, O. Hamann, V. Heywood, and H. Synge (eds.), *Botanic Gardens and the World Conservation Strategy*. International Union for Conservation of Nature, Academic Press, London.
- Falk, D.A. and F.R. Thibodeau. 1986. Saving the Rarest. *Arnoldia* 46(3): 3-18.
- Falk, D.A. Review of Mello, R.A., *Last Stand of the Red Spruce*. Island Press/Natural Resources Defense Council, Washington, D.C. *Conservation Biology* 3(1): 106-7.
- Falk, D.A. and K.S. Walter. 1986. Networking to Save Endangered Plants. *Garden* 10(1): 2-10. Reprinted: *On the Fringe* (Native Plant Society of Northeastern Ohio) 6(2): 3-9, March/April 1987; *Wildflower* 2(4): 16-18, Autumn 1986.
- Falk, D.A. and F.R. Thibodeau. 1985. A New Response to Endangerment. *The Public Garden* (Journal of the American Association of Botanical Gardens and Arboreta) 1(1):14-18.
- Falk, D. A. 1984 – 1988. Reviews in *Choice* (American Library Association), eleven works.
- Falk, D.A. and F.R. Thibodeau. 1983. Saving the Pieces. *Restoration and Management Notes* 2(2):71-72.
- Falk, D.A. 1980. CAP-sized. *Working Papers*. November/December.
- Falk, D.A. 1980. Labor Unions and Safe Energy. *Liberation News Service* 30 October.
- Falk, D.A. 1979. A Delegation of Survivors: A Visit from Hiroshima/Nagasaki. *Boston Globe* 27 March.
- Falk, D.A. 1979. Hiroshima: A Victim Remembers. *Boston Globe* 7 August. Interview with Shigeko Sasamori, distributed nationally by Associated Press.
- Falk, D.A. 1978. Pilgrim's Progress and a Town's Taxes. *Boston Phoenix* 9 January.
- Falk, D.A. 1978. *Final Report and Recommendations: Boston Harbor Islands State Park, Land Use Study*. Massachusetts Department of Environmental Management/Earthwatch, Inc.
- Falk, D.A. 1978. Solar Energy in New England: A Mixed Forecast. *Boston Phoenix* 11 July. Cover story on regional solar energy development.
- Falk, D.A. 1978. The Sleeper in Carter's Energy Plan. *Boston Phoenix* 28 February. Feature article on National Energy Plan. Reprinted: *Massachusetts Physician*, Spring 1978.

Technical reports

Falk, D. A., Mark K. Briggs, and William L. Halvorson. 1998. *The Riparian Restoration Ranking (R3) System*. Developed for the USDA Forest Service, Region III. Society for Ecological Restoration, Tucson, AZ.

Falk, D.A. and P. L. Warren. 1994. *Population Status and Monitoring Protocols for Rare Plants of the Coronado National Forest*. The Nature Conservancy/USDA Forest Service, Tucson, AZ

RESEARCH SUPPORT

Collaborative Forest Restoration Program,
US Forest Service
Ecological Restoration Institute, Northern
Arizona University
Ecology & Evolutionary Biology,
University of Arizona
Ecosystem Interest Group, College of Forest
Resources, U. Washington
Institute for the Study of Planet Earth

Joint Fire Science Program
Mazamas Research Committee
National Science Foundation
National Center for Ecological Analysis &
Synthesis
Rocky Mountain Research Station, US
Forest Service
T&E Foundation

SELECTED LECTURES AND KEYNOTE PRESENTATIONS

American Association for the Advancement
of Science (AAAS)
Association for Fire Ecology
Center for Plant Conservation
Chicago Botanic Garden
Collaborative Forest Restoration Program,
US Forest Service
Colorado State University
Columbia University, Lamont-Doherty
Earth Observatory
Ecological Landscape Association
Ecological Restoration Institute, Northern
Arizona University
Ecological Society of America
Fire Learning Network, The Nature
Conservancy
Forest Guild
Gila River Riparian Restoration Forum
International Association for Landscape
Ecology

International Institute for Tropical Forestry,
Puerto Rico
Joint Fire Science Program
Mountain Climate Sciences Symposium
National Center for Ecological Analysis &
Synthesis
National Fire Sciences Laboratory
New England Wildflower Society,
Centennial Tour
Oklahoma State University
Pacific Southwest Research Station, US
Forest Service
Santa Fe Forest Forum
Society for Ecological Restoration
St. Albert Forum on Theology and Science,
Newman Center, University of Arizona
University of Gröningen, Netherlands
University of North Carolina
USGS Wildland Fire Conference
USGS Western Mountain Initiative

RECENT TECHNICAL AND INVITED PRESENTATIONS (2003 – 2006 only)

2006 **Falk, Donald** and William Armstrong. "Process-centered restoration in a New Mexico ponderosa pine forest." Association of Fire Ecology, 3rd International Fire Ecology and Management Congress, San Diego, CA.

Falk, Donald. "Restoring fire as a landscape process: Some stochastic ideas." National Conference on Conserving and Restoring Frequent Fire Landscapes of the West: Linking Science, Collaboration and Practice. Northern Arizona University, Flagstaff.

- Falk, Donald** and William Armstrong. "Process-centered restoration in a New Mexico ponderosa pine forest." National Conference on Conserving and Restoring Frequent Fire Landscapes of the West: Linking Science, Collaboration and Practice. Northern Arizona University, Flagstaff.
- Falk, Donald** and Thomas W. Swetnam. "Developing the western US fire history-climate network: Emerging questions, new potential". USGS, Western Mountain Initiative. Portland, OR.
- Falk, Donald.** "Pyrogeography: Understanding and restoring natural variability." US Forest Service, Pacific Southwest Research Station, Sierra Nevada Research Center, Placerville, CA.
- Falk, Donald** and Peter S. White. "Landscape ecology and fire." Rx510, Applied Fire Effects. National Advanced Fire & Resource Institute, Tucson, AZ.
- 2005 **Falk, Donald.** "Reference dynamics: Reconstructing ecological processes to restore natural variability." USGS Wildland Fire Symposium, Tucson, AZ.
- Falk, Donald.** Keynote presentation at 10th Anniversary of the Forest Guild. Santa Fe, NM.
- Falk, Donald.** "Reference dynamics and process-centered restoration to restore natural variability." Society for Ecological Restoration, Zaragoza, Spain.
- Falk, Donald & Thomas Swetnam.** "Cross-scale patterns of forest fire synchrony in southwestern North America". Invited paper in Organized Oral Session: "Spatial nonlinearities and cross scale interactions: Cascading effects in the Earth system." Debra Peters (Organizer). Ecological Society of America, Montréal, Québec, Canada.
- Thomas Sisk, Melissa Savage, **Donald Falk** & Patrick McCarthy. "Restoring the landscape scale of fire as an ecological disturbance process." Invited paper in Organized Oral Session: "Restoring and designing ecosystems for a crowded planet: provision of ecosystem services." M. Luisa Martinez and Margaret Palmer (Organizers). Ecological Society of America, Montréal, Québec, Canada.
- Falk, Donald.** "Analytical foundations of scaling theory for fire history." Western Mountain Initiative-USGS, Northern Arizona University, Flagstaff.
- Falk, Donald & W. Wallace Covington.** "Emerging principles in ecological restoration." American Association for the Advancement of Science. 80th Southwest and Rocky Mountain Division, Tucson, AZ.
- Christopher Baisan, Erica Bigio, **Falk, Donald**, Calvin Farris, Jose Iniguez, Ellis Margolis, Thomas Swetnam. " Using reconstruction of historical ecosystem processes to guide forest restoration." Invited presentation at: Southwest Fire Learning Network Workshop, Western New Mexico University, Silver City, NM.

- Falk, Donald** and Thomas Swetnam. " Forest restoration at Monument Canyon Research Natural Area." Invited presentation at: Annual meeting of the Collaborative Forest Restoration Program, Santa Fe, NM, January 2005.
- 2004 **Falk, Donald.** "Ten Years into the Future: Restoring Plant Diversity and Ecosystems." Janet Meakin Poor Research Symposium, Chicago Botanic Garden.
- Falk, Donald.** Keynote lecture at the 20th anniversary celebration, Center for Plant Conservation. Santa Barbara, CA.
- Falk, Donald & Donald McKenzie.** "A null model for the temporal distribution of surface fire events." Ecological Society of America, Portland, OR.
- Falk, Donald.** "Restoring the Earth: Can We Create New Nature?" St. Albert's Forum on Theology & Science, Newman Center, University of Arizona.
- Falk, Donald.** "Event-area relationships: Scaling rules for fire regimes." Invited symposium presentation, Special Symposium: "Scaling laws in fire regimes: moving landscape fire history into the 21st century." Carol Miller & Donald McKenzie (Organizers). International Association for Landscape Ecology (US), Spring 2004.
Honorable Mention, Student Presentation Award.
- Falk, Donald.** "Event-area relationships: Scaling rules for fire regimes." LTRR Seminar, University of Arizona.
- Falk, Donald.** "A Just and Sustainable Landscape." Keynote presentation at "Balancing the Systems", Ecological Landscaping Association, 2004 Tenth Annual Conference, Boxborough, MA.
- 2003 **Falk, Donald.** "Scaling rules for fire regimes: The event-area relationship: Scale dependence in the fire regime of a New Mexico ponderosa pine forest." Ecological Society of America, Savannah, GA. **Presentation given the ESA Edward S. Deevey Award.**
- Falk, Donald.** "Event-area relationships: Scaling rules for fire regimes." Seminar series, Laboratory of Tree-Ring Research, University of Arizona.
- Falk, Donald.** "Toward process-centered restoration: Temporal variability as the reference envelope." Southwest Fire Initiative Conference, Ecological Restoration Institute, Northern Arizona University, Flagstaff.
- Falk, Donald.** "Spatial and temporal variation in a New Mexico Ponderosa pine fire regime: Recent findings and analysis". Annual PI workshop, Joint Fire Science Program, Phoenix, AZ.
- Falk, Donald.** Lecture in Landscape Ecology, Department of Biology, University of North Carolina, Chapel Hill.
- Falk, Donald.** "Event-area relationships: Scaling rules for fire regimes." Seminar series, Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY.

PEER REVIEW AND CONSULTING

Arctic & Alpine Research

Blackwell Science

Cambridge University Press

Canadian Journal of Forest Research

Canadian Journal of Water Resources

Conservation Biology

Ecology

Ecological Applications

Foundation for Science (New Zealand)

Forest Ecology & Management

Island Press

Journal of Arid Environments

Journal of Vegetation Science

Landscape Ecology

MacArthur Fellows Program

National Science Foundation (US)

Oecologia

Oxford University Press

Restoration Ecology

1980 – 82 Wetlands consulting practice (MA)

BOARDS AND COMMITTEES

2003 - current Office of the Governor, Arizona Forest Health Council

2001 – 2003 US Forest Service, Collaborative Forest Restoration Program, Technical Advisory Panel

1994 - current Indigenous Peoples Restoration Network

1993 - 2003 Native Seeds/SEARCH, Board of Directors

1991 - 1994 IUCN Species Survival Commission, Reintroduction Specialist Group

1988 - 93 Society for Ecological Restoration, Madison, WI, Board of Directors

1988 - 89 IUCN/Botanic Gardens Conservation Secretariat, 2nd Botanic Gardens Congress

1986 - current Tufts University, Environmental Resource Guide

1984 - 93 American Association of Botanical Gardens & Arboreta, Plant Conservation Committee

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement
of Science

Ecological Society of America

International Association for Landscape
Ecology

Society for Conservation Biology

Society for Ecological Restoration

Tree-Ring Society