Donald J. Leopold

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**Education**

December 1984, Ph.D., Purdue University, Department of Forestry and Natural Resources (Forest Ecology).

December 1981, M.S.F., University of Kentucky, Department of Forestry (Forest Ecology).

May 1978, B.S., University of Kentucky, Department of Horticulture and Landscape Architecture (Nursery Management/Ornamental Horticulture).

**Employment**

February 2006 to present, Distinguished Teaching Professor and Chair, Faculty of Environmental and Forest Biology (EFB), SUNY-ESF, Syracuse, NY

July 2005 to February 2006, Distinguished Teaching Professor and Interim Chair, Faculty of EFB, SUNY-ESF.

June 1998 to June 2005, Distinguished Teaching Professor, Faculty of EFB, SUNY-ESF.

August 1995 to June 1998, Professor, Faculty of EFB, SUNY-ESF.

August 1989 to July 1995, Associate Professor (with Continuing Appointment), Faculty of EFB, SUNY-ESF.

August 1985 to August 1989, Assistant Professor, Faculty of EFB, SUNY-ESF.

March to August 1985, Research Associate, Institute of Ecology, University of Georgia, Athens, Georgia.

August 1980 to December 1984, Graduate Instructor, Department of Forestry and Natural Resources, Purdue University, West Lafayette, Indiana.

August 1978 to August 1980, Research Assistant, Department of Forestry, University of Kentucky, Lexington, Kentucky.

**Professional Affiliations**

Ecological Society of America

Society for Conservation Biology

Society for Wetland Scientists

# Awards for Teaching, Research, and Public Service

New York State Nursery and Landscape Association George L. Good Gold Medal of Horticulture Award, August 2009

SUNY Chancellor’s Award for Excellence in Professional Service, April 2007.

Garden Writers Association Media Award. Silver Award (in book writing category) for *Native Plants of the Northeast. A Guide for Gardening and Conservation*, August 2006.

SUNY-ESF Undergraduate Student Association Best Advisor Award (1st recipient), April 2005.

SUNY Research Foundation Excellence in the Pursuit of Knowledge Award, October 2004.

Elected to the Nu Chapter (SUNY-ESF) of the Sigma Lambda Alpha Landscape Architecture Honorary Society, April 2001.

SUNY-ESF College Foundation Board Award for Exceptional Achievement in Teaching (1st recipient), Oct. 1999.

Named SUNY Distinguished Teaching Professor, June 1998.

President's ESF Public Service Award, May 1997.

SUNY-ESF Student Association Distinguished Teaching Award, March 1987.

Purdue University, Dept. Forestry and Natural Resources, Outstanding Graduate Teaching Assistant, April 1982.

**Books**

Kirkman, L.K., C.L. Brown, and D.J. Leopold. 2007. *Native Trees of the Southeast*, Timber Press, Portland, OR, 372 p.

Leopold, D.J. 2005. *Native Plants of the Northeast: A Guide for Gardening and Conservation*, Timber Press, Portland, OR, 308 p.

Leopold, D.J. 2003. *Trees of New York. Native and Naturalized.* Syracuse University Press, Syracuse, NY, 322 p.

Hardin, J.W., D.J. Leopold, and F.M. White. 2000. *Harlow and Harrar's Textbook of Dendrology*, 9th ed., WCB/ McGraw-Hill, New York, NY, 544 p.

Raynal, D.J. and D.J. Leopold. 1999. *Landowner Guide to State-protected Plants of Forests in New York State*. State University of New York, College of Environmental Science and Forestry, Syracuse, NY, 96 p.

Leopold, D.J., W.C. McComb, and R.N. Muller. 1998. *Trees of the Central Hardwood Forests - An Identification and Cultivation Guide*, Timber Press, Inc., Portland, OR, 512 p.

**Published Manuscripts (refereed)**

McGee, G.G., M.J. Mitchell, D.J. Leopold, D.J. Raynal, and M.O. Mbila. 2007. The influence of forest age and composition on elemental dynamics of Adirondack northern hardwood forests. Journal of Torrey Botanical Society 134:253-268.

McGee, G.G., M.J. Mitchell, D.J. Leopold, and D.J. Raynal. 2007. Effects of tree-fall gap zones on soil nutrients within an old-growth Adirondack northern hardwood forest. Journal of the Torrey Botanical 134:269-280.

Forrester, J.A., D.J. Leopold, and H.W. Art. 2007. Disturbance history and mortality patterns in a rare Atlantic barrier island martime holly forest. Natural Areas Journal 27:169-182.

Forrester, J.A., & D.J. Leopold. 2006. Extant and potential vegetation of an old-growth maritime *Ilex opaca* forest. Plant Ecology 183: 349-359.

Forrester, J.A., D.J. Leopold and H.B. Underwood. 2006. Isolating the effects of white-tailed deer on the vegetation dynamics of a rare maritime American holly forest. American Midland Naturalist 156:135-150.

Forrester, J.A., T.E. Yorks, and D.J. Leopold. 2005. Arboreal vegetation, coarse woody debris, and disturbance history of mature and old-growth stands in a coniferous forested wetland. Journal of the Torrey Botanical Society 132:252-261.

Forrester, J.A., D.J. Leopold, and S.D. Hafner. 2005. Maintaining critical habitat in a heavily managed landscape: Effects of power line corridor management on Karner blue butterfly (*Lycaeides melissa samuelis*) habitat. Restoration Ecology 13:488-498.

Kelsall, N., C. Hazard, and D.J. Leopold. 2004. Influence of climate factors on demographic changes in the New York populations of the federally-listed *Phyllitis scolopendrium* var. *americana*. Journal of the Torrey Botanical Society 131:161-168.

Yorks, T.E., D.J. Leopold, and D.J. Raynal. 2003. Effects of *Tsuga canadensis* mortality on soil water chemistry and understory vegetation: possible consequences of an invasive insect herbivore. Canadian Journal of Forest Research 33:1525-1537.

Godwin, K.S., J.P. Shallenberger, D.J. Leopold, and B.L. Bedford. 2002. Linking landscape properties to local hydrogeologic gradients and plant species occurrence in minerotrophic fens of New York: A hydrogeologic setting (HGS) framework. Wetlands 22:722-737.

Anderson, K.L. and D.J. Leopold. 2002. The role of canopy gaps in maintaining vascular plant diversity at a forested wetland in New York State. Journal of the Torrey Botanical Society 129:238-250.

Hall, B.R., D.J. Raynal, and D.J. Leopold. 2001. Environmental influences on plant species composition in ground-water seeps in the Catskill Mountains of New York. Wetlands 21:125-134.

Yorks, T.E., D.J. Leopold, and D.J. Raynal. 2000. Vascular plant propagule banks of six eastern hemlock stands in the Catskill Mountains of New York. Journel of the Torrey Botanical Society 127:87-93.

McGee, G.G., D.J. Leopold, and R.D. Nyland. 1999. Structural characteristics of old-growth, maturing, and managed northern hardwood stands: implications for forest ecosystem management. Ecological Applications 9:1316-1329.

Bonanno, S.E., D.J. Leopold and L. St. Hilaire. 1998. Vegetation of a freshwater dune barrier under high and low recreation uses. Journal of the Torrey Botanical Society 125:39-49.

Johnson, G. and D.J. Leopold. 1998. Habitat management for the eastern massasauga in a central New York weakly-minerotrophic peatland: The effects of cutting, burning and herbicides on vegetation and small mammal abundance. Journal of Wildlife Management 62:84-97.

Podniesinski, G.S. and D.J. Leopold. 1998. Plant community development and peat stratigraphy in forested fens in response to groundwater flow systems. Wetlands 18:409-430.

Smallidge, P.J. and D.J. Leopold. 1997. Vegetation management for the maintenance and conservation of butterfly habitats in human-dominated landscapes. Landscape and Urban Planning 38:259-280.

Cameron, D.S., D.J. Leopold, and D.J. Raynal. 1997. Effect of landscape position on diversity and richness of vegetation on electric transmission rights-of-way. Canadian Journal of Botany 75:242-251.

Smallidge, P.J. and D.J. Leopold. 1997. Effects of watershed liming on *Picea rubens* seedling biomass and nutrient element concentration. Water, Air, and Soil Pollution 95:193-204.

Driscoll, C.T., C.P. Cirmo, T.J. Fahey, V.L. Blette, P.A. Bucaveckas, D.J. Burns, C.P. Gubala, D.J. Leopold, R.M. Newton, D.J. Raynal, C.L. Schofield, J.B. Yavitt, and D.B. Porcella. 1996. The experimental watershed liming study (EWLS): Comparison of lake/watershed base neutralization strategies. Biogeochemistry 32:143-174.

Fisher, A.S., G. Podniesinski, and D.J. Leopold. 1996. Effects of drainage ditches on vegetation patterns in abandoned agricultural peatlands in central New York. Wetlands 16:397-409.

Smallidge, P.J. and D.J. Leopold. 1996. Community characteristics and vegetation management of Karner blue butterfly (*Lycaeides melissa samuelis*) habitats on rights-of-way in east-central New York. Journal of Applied Ecology 33:1405-1419.

Castello, J.D., D.J. Leopold and P.J. Smallidge. 1995. Pathogens, patterns, and processes in forest ecosystems. BioScience 45:16-24.

McGee, G.G., D.J. Leopold, and R.D. Nyland. 1995. Understory response to springtime prescribed fire in two New York transition oak forests. Forest Ecology and Management 76:149-168.

Rossell, I.M., D.J. Leopold, and D.J. Raynal. 1995. Competition among shoreline plants: Responses to watershed liming. Environmental and Experimental Botany 35:507-518.

Smallidge, P.J. and D.J. Leopold. 1995. Watershed liming and pit and mound topography effects on seed banks in the Adirondacks, New York, USA. Forest Ecology and Management 72:273-285.

St. Hilaire, L.R. and D.J. Leopold. 1995. Conifer seedling distribution in relation to microsite and bryophyte cover in central New York forested minerotrophic peatland. Canadian Journal of Forest Research 25:261-269.

Johnson, A.M. and D.J. Leopold. 1994. Vascular plant species richness and rarity across a minerotrophic gradient in wetlands of St. Lawrence County, New York, USA. Biodiversity and Conservation 3:606-627.

Mackun, I.R., D.J. Leopold, and D.J. Raynal. 1994. Short-term responses of wetland vegetation after liming of an Adirondack watershed. Ecological Applications 4:535-543.

Rossell, I.M., D.J. Raynal, and D.J. Leopold. 1994. The effects of watershed liming on the tissue chemistry of three co-occurring poor fen species. Canadian Journal of Botany 72:1825-1834.

Smallidge, P.J. and D.J. Leopold. 1994. Forest community composition and juvenile red spruce (*Picea rubens*) age-structure and growth patterns in an Adirondack watershed. Bulletin of the Torrey Botanical Club 121:345-356.

Cinquemani Kuehn, D.M. and D.J. Leopold. 1993. Habitat characteristics associated with *Phyllitis scolopendrium* var. *americana* in central New York. Bulletin of the Torrey Botanical Club 120:310-318.

Falb, D. and D.J. Leopold. 1993. Population dynamics of *Cypripedium candidum* Muhl. ex Willd., small white ladyslipper, in a western New York fen. Natural Areas Journal 13:76-86.

Knutson, M.G., D.J. Leopold, and R.C. Smardon. 1993. Selecting islands and shoals for conservation based on biological and aesthetic criteria. Environmental Management 17:199-210.

Mackun, I.R., S.J. McNaughton, D.J. Raynal, and D.J. Leopold. 1993. Comparative foliage and twig chemistry of co-occurring *Myrica gale* and *Chamaedaphne calyculata*. Canadian Journal of Botany 71:129-135.

Cinquemani Kuehn, D.M. and D.J. Leopold. 1992. Long-term demography of *Phyllitis scolopendrium* var. *americana* in central New York. Bulletin of the Torrey Botanical Club 119:65-76.

LeBlanc, C.M. and D.J. Leopold. 1992. Demography and age structure of a central New York shrub-carr 94 years after fire. Bulletin of the Torrey Botanical Club 119:50-64.

Smallidge, P.J., D.J. Leopold, and J.D. Castello. 1991. Structure and composition of forest stands affected and unaffected by ash yellows. Plant Disease 75:13-18.

Han, Y., J.D. Castello, and D.J. Leopold. 1991. Relationships among ash yellows, radial growth decline, and drought. Plant Disease 75:18-23.

Smallidge, P.J., Y. Han, D.J. Leopold, and J.D. Castello. 1991. Management implications of ash yellows in northeastern hardwood stands. Northern Journal of Applied Forestry 8:21-23.

DeScisciolo, B., D.J. Leopold, and D.C. Walton. 1990. The seasonal patterns of juglone in soil beneath *Juglans nigra* (black walnut) and the influence of *J. nigra* on understory vegetation. Journal of Chemical Ecology 16:1111-1130.

Cinquemani, D.M., M.E. Faust, and D.J. Leopold. 1988. Periodic censuses (1916-1986) of *Phyllitis scolopendrium* var. *americana* in central New York State. American Fern Journal 78:37-43.

Leopold, D.J., C. Reschke, and D.S. Smith. 1988. Old-growth forests of Adirondack Park, New York. Natural Areas Journal 8:166-189.

Parker, G.R., D.J. Leopold, and J.K. Eichenberger. 1985. Tree dynamics in an old-growth deciduous forest. Forest Ecology and Management 11:31-57.

Leopold, D.J. and G.R. Parker. 1985. Vegetation patterns on a Southern Appalachian watershed after two clearcuts. Castanea 50:164-186.

Leopold, D.J., G.R. Parker, and W.T. Swank. 1985. Forest development after successive clearcuts in the Southern Appalachians. Forest Ecology and Management 13:83-120.

Leopold, D. J. and R.N. Muller. 1983. Hosts of *Pyrularia pubera* Michx. (Santalaceae) in field and in culture. Castanea 48:135-145.

Parker, G.R. and D.J. Leopold. 1983. Replacement of *Ulmus americana* L. in a mature east-central Indiana woods. Bulletin of the Torrey Botanical Club 110:482-488.

Leopold, D.J. 1980. Chinese and Siberian elms. Journal of Arboriculture 6:175-179.

**Book Chapters**

Bedford, B.L, D.J. Leopold, and J.P. Gibbs. 2000. Wetland biodiversity, pp. 781-804, In: Encyclopedia of Biodiversity, Vol. 5, Academic Press, San Diego, CA.

Raynal, D.J., J.P. Gibbs, N.H. Ringler, and D.J. Leopold. 1998. Ecological surveys: The basis for natural area management (Exercise 21), pp. 125-144, In: J.P. Gibbs, M.L. Hunter, Jr., and E.J. Sterling, *Problem-Solving in Conservation Biology and Wildlife Management*, Blackwell Science, Inc., Cambridge, MA.

Leopold, D.J., P.J. Smallidge, and J.D. Castello. 1996. An integrated model of forest dynamics following disturbance, pp. 63-78, In: S.K. Majumdar, E.W. Miller, and F.J. Brenner (eds.), *Forests - A Global Perspective*, Pennsylvania Academy of Science, Easton, PA.

Dunwiddie, P.W., D.R. Foster, D.J. Leopold and R.T. Leverett. 1995. Old-growth forests of southern New England, New York, and Pennsylvania. pp. 126-143, In: *Eastern Old-growth Forests: Prospects for Rediscovery and Recovery*, Island Press, Washington, D.C.

Leopold, D.J. and M.K. Wali. 1992. Rehabilitation of forest ecosystems in eastern North America, pp.187-231, In: M.K. Wali (ed.), *Environmental Rehabilitation*. Vol. 2. *Ecosystem Analysis and Synthesis*, S.P. Bakker Publishers, The Hague, The Netherlands.

Porcella, D.B., T.J. Fahey, C.L. Schofield, C.T. Driscoll, R.M. Newton, D.J. Raynal, D.J. Leopold, J. Yavitt, and J. DePinto. 1991. Limestone treatment for management of aquatic and terrestrial ecosystems, pp. 5-14, In: H. Olem, R.K. Schreiber, R.W. Brocksen, and D.P. Porcella (eds.), *International Lake and Watershed Liming Practices*. Terrene Institute, Washington, D.C.

**Book Reviews (all invited)**

Leopold, D.J. 2009. The most awe-inspring of all trees. *The Bristlecone Book: A Natural History of the World’s Oldest Trees*. Journal of Forestry (in press).

Leopold, D.J. 2004. *Deforesting the Earth. From Prehistory to Global Crisis*. Conservation Biology 18:1693-1694.

Leopold, D.J. 2003. Guide to Urban Riparian Renaissance. *Restoring Streams in Cities. A Guide for Planners, Policymakers, and Citizens*. Hydrological Processes 17:501-503.

Leopold, D.J. 2002. *Wetland Ecology Principles and Conservation*. Natural Areas Journal 22:166-167.

Leopold, D.J. 2002. *Responses of Northern U.S. Forests to Environmental Change*. The Quarterly Review of Biology 77: 84-85.

Leopold, D.J. 2000. *Discovering the Unknown Landscape: A History of America's Wetlands.* The Quarterly Review of Biology 75:340-341.

Leopold, D.J. 1994. *Old Growth in the East. A Survey*. Journal of Forestry 92(4):55.

**Proceedings**

McDonnell, J.J., S. Stribling, R. Neville, and D.J. Leopold (eds.). 1996. Watershed Restoration Management: Physical, Chemical and Biological Considerations. American Water Resources Assoc., Herndon, VA. 514 p.

McDonnell, J.J., D.J. Leopold, R. Neville, and S. Stribling (eds.). 1996. New York City Water Supply Studies. American Water Resources, Herndon, VA. 174 p.

Mitchell, R.S., C.J. Sheviak, and D.J. Leopold (eds.). 1990. Ecosystem Management: Rare Species and Significant Habitats. Proceedings from the 15th Annual Natural Areas Association Meeting. NYS Museum Bulletin No. 471, State Education Department, Albany, N.Y., 314 p.

**Papers Published In Proceedings**

Endreny, T.A., V. Collins, and D.J. Leopold. 2005. Estimating stable floodplain width for incised rivers using critical shear, effective discharge, and available floodplain constraints, Proceedings: ASCE Watershed Management Conference, Williamsburg, VA (in press).

Yorks, T.E., J.C. Jenkins, D.J. Leopold, D.J. Raynal, and D.A. Orwig. 2000. Influences of eastern hemlock mortality on nutrient cycling, p. 126-133 in K.A. McManus, K.S. Shields, and D.R. Souto (eds.), Proceedings: Symposium on Sustainable Management of Hemlock Ecosystems in Eastern North America, USDA For. Serv., GTR-NE-267, Newtown Square, PA.

Yorks, T.E., D.J. Leopold, and D.J. Raynal. 2000. Vascular plant propagule banks of six eastern hemlock stands and potential response to the hemlock woolly adelgid in the Catskill Mountains of New York, p. 225 in K.A. McManus, K.S. Shields, and D.R. Souto (eds.), Proceedings: Symposium on Sustainable Management of Hemlock Ecosystems in Eastern North America, USDA For. Serv., GTR-NE-267, Newtown Square, PA.

Smallidge, P.J., D.J. Leopold, and C.M. Allen. 1995. Management concerns for the response of blue lupine communities on rights-of-way in east-central New York, USA to environmental factors and vegetation management, pp. 330-335, *In*: G.J. Doucet, C. Séguin, and M. Giguère (eds.), Proceedings of the Fifth International Symposium on Environmental Concerns in Rights-of-way Management, Montreal, Quebec (held September 1993).

Nowak, C.A., L.P. Abrahamson, D.J. Raynal, and D.J. Leopold. 1995. Selective vegetation management on powerline corridors in New York State: tree density and species composition changes from 1975 to 1991, pp. 153-158, *In*: G.J. Doucet, C. Séguin, and M. Giguère (eds.), Proceedings of the Fifth International Symposium on Environmental Concerns in Rights-of-way Management, Montreal, Quebec (held September 1993).

Knutson, M.G., D.J. Leopold, and R. C. Smardon. 1992. Assessing the visual quality of small islands and shoals in the Thousand Islands Region, pp. 166-175, *In*: J. Kusler and R. Smardon (eds.), Proceedings of the Great Lakes Wetlands Conference, Niagara Falls, N.Y.

Apsley, D.K., D.J. Leopold, and G.R. Parker. 1985. Tree species response to release from domestic livestock grazing. Proceedings of the Indiana Academy of Science 94:215-226.

Leopold, D.J., G.R. Parker, and J.S. Ward. 1985. Tree spatial patterns in an old-growth forest in east-central Indiana, pp. 151-164, *In*: J.O. Dawson and K.A. Majerus (eds.), Proceedings Fifth Central Hardwood Forest Conference, Society of American Foresters Publ. 85-05.

Leopold, D.J. 1984. Angiosperm root parasites of Indiana. Proceedings of the Indiana Academy of Science 93:87-95.

**Published Abstracts**

Leopold, D.J. 1981. The natural history and parasitism of *Pyrularia pubera*. ESA Bull. 62:137.

Ragsdale, H.L., W.H. Murdy, D.L. Phillips, D.J. Leopold, G.R. Parker, L.R. Boring, and W.T. Swank. 1982. Vegetation studies in the Coweeta Basin, North Carolina. ESA Bull. 63:118.

Parker, G.R. and D.J. Leopold. 1982. Replacement of *Ulmus americana* L. in an old-growth central Indiana woods. Proc. Indiana Acad. Sci. 92:166-167.

Leopold, D.J. and G.R. Parker. 1984. Vegetation structure and composition within a young coppice forest in the Southern Appalachians. ESA Bull. 65:248.

Parker, G.R. and D.J. Leopold. 1984. Tree dynamics since 1926 in an old-growth oak forest in Indiana. ESA Bull. 65:248.

Parker, G.R. and D.J. Leopold. 1985. Tree species dynamics in an old-growth deciduous forest since 1926. Proc. Indiana Acad. Sci. 94:212.

Leopold, D.J. and C. Reschke. 1988. Extent, composition, and structure of old-growth forests in the Adirondack Park, New York. ESA Bull. 69 (2; Supplement):207.

Smallidge, P.J., D.J. Leopold, T.C. Wigginton, and J.D. Castello. 1988. Structure and composition of forests affected by ash decline in the northeast. ESA Bull. 69 (2; Supplement): 298-299.

Cinquemani, D.M. and D.J. Leopold. 1989. A microsite study of *Phyllitis scolopendrium* var. *americana* in central New York State. ESA Bull. 70 (2; Supplement):81.

DeScisciolo, B., D.J. Leopold, and D.C. Walton. 1989. The seasonal patterns of juglone in soil beneath *Juglans nigra* (black walnut) and the influence of *J. nigra* on understory vegetation. Amer. J. Bot. (Supplement):

Smallidge, P.J., D.J. Leopold, J.D. Castello, and T.C. Wigginton. 1989. A comparison of community structure and composition in disease infected northeastern white ash. ESA Bull. 70 (2; Supplement):266.

Wigginton, T.C., P.J. Smallidge, Y. Han, J.D. Castello, and D.J. Leopold. 1989. MLO infection and growth decline of white ash in relation to stand characteristics. Phytopathology 79:1221.

St. Hilaire, L.R. and D.J. Leopold. 1993. Conifer seedling distribution in relation to microsite and bryophyte cover. ESA Bull. 74 (2; Supplement):445.

McGee, G.G. and D.J. Leopold. 1993. Effects of prescribed fire on the understory vegetation in transitional oak-northern hardwood forests in New York. ESA Bull. 74 (2; Supplement):353.

Cameron, D.S., D.J. Leopold, and D.J. Raynal. 1994. Effect of landscape position on diversity and richness of vegetation on electric transmission rights-of-way. ESA Bull. 75 (2; Supplement):30.

Fisher, A.S. and D.J. Leopold. 1994. Vegetation patterns along hydrologic gradients in abandoned agricultural peatlands in central New York. ESA Bull. 75 (2; Supplement):66.

Gearhart, N.L., P.J. Smallidge, J.D. Castello, and D.J. Leopold. 1994. Landscape factors influencing disease of white ash in central New York. ESA Bull. 75 (2; Supplement):75.

Podniesinski, G.S. and D.J. Leopold. 1994. Vegetation organization in forested sapric peatlands along hydrology, microtopography and water chemistry gradients.ESA Bull. 75 (2; Supplement):182.

Thomson, D.L. and D.J. Leopold. 1994. Edge effects on the understory of mid-successional forested stands of central New York, USA. ESA Bull. 75 (2; Supplement):229.

Leopold, D.J., A. Van Ord, and D.J. Raynal. 1995. Vascular plant species richness and rarity in wetlands on electric power rights-of-way in New York, pg. 550, *In*: G.J. Doucet, C. Séguin, and M. Giguère (eds.), Proceedings of the Fifth International Symposium on Environmental Concerns in Rights-of-way Management, Montreal, Quebec (held September 1993).

O'Reilly, J.A., G.S. Podniesinski, and D.J. Leopold. 1995. Comparison of seed bank species composition and abundance in abandoned agricultural and natural sapric peatlands. ESA Bull. 76 (2; Supplement):203.

Deitz, K.B. and D.J. Leopold. 1996. Growth rates of woody plant species at two soil moisture levels under natural and greenhouse conditions. ESA Bull. 76 (Part 2):107.

Maciorowski, M.J. and D.J. Leopold. 1996. Temporal variation in size class, population trends and population reestablishment for *Phyllitis scolopendrium* var. *americana* in central New York. ESA Bull. 76 (Part 2):277.

McGee, G.G., D.J. Leopold, R.D. Nyland, and R.W. Kimmerer. 1996. Structural and floristic differences in Adirondack old-growth; managed, uneven-aged; and maturing, even-aged northern hardwood stands. ESA Bull. 76 (Part 2):295.

Gaus, N.G., P.J. Smallidge, J.D. Castello, and D.J. Leopold. 1998. Ash yellows in central New York: Detection, incidence, and rate of spread. European Journal of Forest Pathology 28:75-83.

Endreny, T.A. and D.J. Leopold. 2004. Prioritizing flood protection while restoring ecological function in urban rivers, p. 126, in G. Best and D. Hayes (eds.), Proceedings: National Conference on Ecosystem Restoration, Lake Buena Vista, FL

**Miscellaneous Publications and Technical Reports (nonrefereed)**

Knutson, M.G., D.J. Leopold, R.C. Smardon, and S.R. LaPan. 1990. Conservation of small islands and emergent shoals in the Thousand Islands Region. Institute for Environmental Policy and Planning Publication #90-001, SUNY-CESF, Syracuse, N.Y., 57 p. (+Appendices).

Mackun, I.R., A.R. Brach, P.J. Smallidge, D.J. Leopold, and D.J. Raynal. 1990. Assessing the response of vegetation after liming an Adirondack watershed. Restoration and Management Notes 8(1):36-37.

Castello, J.D. and D.J. Leopold. 1991. Ash yellows: management implications in northeastern hardwood stands. The New York Forester 49(1), 2 pages; invited.

Smallidge, P.J. and D.J. Leopold. 1992. Evaluation of Karner blue (*Lycaeides melissa samuelis* Nabokov) habitat beneath transmission line rights-of-way in eastern New York. Final report submitted to Niagara Mohawk Power Corporation, 187 p.

Leopold, D.J. and P.J. Smallidge. 1994. Transmission line rights-of-way and biodiversity. ESF Quarterly, Winter Issue, 1 p.

Leopold, D.J. 1994. The ecology of old-growth forests in the Adirondacks, pp. 23-24, In: Looking For Answers. An Exploration of Biodiversity in the Adirondack Park, The Association for the Protection of the Adirondacks, Schenectady, NY.

Deitz, K.B., J.A. O'Reilly, G.S. Podniesinski, and D.J. Leopold. 1996. Rebuilding microtopography and planting woody species restores abandoned agricultural land (New York). Restoration and Management Notes (in press; invited).

Kelsall, N. and D.J. Leopold. 2002. Literature review: Effects of water levels and water level fluctuations on wetland plant growth, survival and germination: Emphasis on Lake Ontario and St. Lawrence River coastal wetland plant species. Final report to the International Joint Commission, 129 p.

Halpern, A.D., J.M Farrell, J.A. Toner, M. Beland, B.A. Murry, and D.J. Leopold. 2003. Can water-level control structures restore function and diversity of wetlands? (New York). Ecological Restoration 21(4): 317-318.

Forrester, J.A., M.E. Benjamins, and D.J. Leopold. 2003. Utility right-of-way vegetation management in Karner blue butterfly habitat areas: Eight year response of blue lupine and associated plant communities. Final report submitted to National Grid Environmental Department, Syracuse, NY, 71+ p.

**Grants Received (nearly $20 million total, as PI or coPI)**

Restoring small ephemeral wetlands in forested landscapes of New York State; USDA CSREES (SUNY ESF McIntire-Stennis program), $89,850; August 2009 to September 2012; J.P. Gibbs, J.C. Stella, D.J. Leopold, and K.S. Schulz.

Student internship program; NYS-DEC, $24,297; March 2008 to February 2013; J.P. Gibbs and D.J. Leopold.

Evaluating environmental impacts of transgenic American chestnut trees to chestnut trees produced by conventional breeding; USDA CSREES Biotechnology Risk Assessment Grants (BRAG) program, $380,000; September 2008 to August 2011; W.A. Powell, C.A. Maynard, T.R. Horton, D. Parry, and D.J. Leopold.

Environmental scholars: A scholarship program in Environmental Chemistry, Biology, and Engineering; National Science Foundation, $600,000; March 2009 to February 2013; K. Donaghy, D.J. Leopold, J.P. Hassett, J.M. Hassett, and J.E. Turbeville.

Environmental science to promote sustainable urban, rural and indigenous communities; National Science Foundation; $1,638,333; March 2007 to February 2010; D.J. Leopold, R. Beal, C.M. Spuches, and D.J. Raynal.

Inventory and analysis of vegetation in remnant inland salt marshes of New York; Biodiversity Research Institute; $39,467; April 2007 to December 2007; D.J. Leopold.

A collaborative approach to conservation biology and entrepreneurship: Realizing student and community engagement through the conservation and use of native plants; John Ben Snow Foundation; $18,500; September 2006 to February 2007; C.Spuches and D.J. Leopold.

Environmental influences on plant diversity in rich fens of central New York: A multiscale analysis; Biodiversity Research Institute; $18,014; November 2006 to December 2007; D.J. Leopold.

Invasive plants program coordinator, NYS-DEC; $69,567 (January 2006 to June 2007); D.J. Leopold.

Ashokan Model Forest Study; USGS; $306,971; September 2006 to August 2007; D J. Leopold and R.H. Germain.

An assessment of conservation value of the Honeywell International, Inc.’s Hudson Farm Property; Honeywell; $23,000 (April 2005 to February 2006); J.P. Gibbs and D.J. Leopold.

Spatial distribution and habitat preferences of *Hydrastis* *canadensis* (golden seal) in New York State; Biodiversity Research Institute; $8,892; September 2004 to August 2005; D.J. Leopold.

Distribution, abundance, and ecology of round-leaved orchids in New York State; Biodiversity Research Institute; $10,980; May to December 2005; D.J. Leopold.

Genetic diversity of *Lupinus perennis*; NYS-DEC; $80,000 (April 2005 to March 2008); J.P. Gibbs, D.J. Leopold, and L.B. Smart.

Restoration of alkaline wastebeds; Honeywell; $401,000 (March 2005 to May 2007); D.J. Leopold.

Effects of New York State roadways on amphibians and reptiles: A research and adaptive mitigation program; NYS-DOT; $267,114 (January 2005 to December 2008); J.P. Gibbs, D.J. Leopold, and P.K. Ducey.

Onondaga Creek Habitat Restoration Demonstration Initiative; US EPA; $350,000 (August 2004 to July 2007); T.A. Endreny and D.J. Leopold.

Fertilizer from pulp and paper waste: The utility and ecology of fertilization with biologically nitrogen-enriched waste; USDA-CSREES/NRI; $380,000 (August 2003 to July 2006); D.J. Leopold, T. Amidon, D. Daley, J. Nakas, and G. Scott.

Aquatic nuisance species: Ecology and control of the invasive plant *Hydrocharis morsus-ranae* in eastern Lake Ontario and St. Lawrence River wetlands; NOAA/NYS Sea Grant; $128,708 (June 2003 to May 2005); D.J. Leopold, D. Parry, K. Schulz, and J. Farrell.

Lake Ontario’s dynamic coast: Analyzing ecosystem history for sustaining environmental health; New York State Great Lakes Protection Fund; $200,000 (January 2003 to December 2005); N.G. Hairston, Jr., L. Wagenet, D.J. Leopold, D.M. Peteet, and C.T. Driscoll, Jr.

Health and sustainability of New York forests in relation to beech bark disease; US Forest Service; $40,700 (May 2002 to April 2005); P.D. Manion and D.J. Leopold

A landscape approach to predicting and evaluating vulnerable wetland ecosystems; US EPA; $118,135 (October 2002 to December 2005); D.J. Leopold

An assessment of forest health and soil nutrient status to determine the effects of logging practices on water quality in watersheds draining the Catskill Mountains, NY; US Geological Survey; $547,701 (October 2002 to August 2005); D.J. Leopold.

Onondaga Creek restoration feasibility study: controlling for flooding and water quality, and enhancing natural processes; US Housing and Urban Development Economic Development Initiative; $200,000 (January 2002 to December 2004); T.A. Endreny and D.J. Leopold.

Plant and waterbird diversity relative to water levels in the Lake Ontario/St. Lawrence River region; International Joint Commission; $58,312 (September 2001 to November 2002); D.J. Leopold and J.P. Gibbs.

Nelson Swamp Unique Area research; New York State Department of Environmental Conservation; $9,000 (May 2001 to January 2005); D.J. Leopold.

Development and application of models to predict occurrence of plant heritage elements on New York State Forest Lands; New York State Department of Environmental Conservation; $165,428 (May 2001 to May 2005); D.J. Leopold.

A random sample system for accessing forest health on New York State Forest Lands. Addendum – Ecological community classification component; New York State Department of Environmental Conservation; $24,800 (May 2001 to April 2002); P.D. Manion and D.J. Leopold.

A random sample system for accessing forest health on New York State Forest Lands; New York State Department of Environmental Conservation; $112,000 (May 2001 to April 2003); P.D. Manion and D.J. Leopold.

Effects of northern New York ice storm on forest communities, Addendum; U.S. Forest Service; $20,000 (May 2001 to August 2002); D.J. Leopold.

Karner blue and the pine-oak barrens educational modules; Niagara Mohawk; $3,000 (January to December 2001); D.J. Leopold.

The role of disturbance in the long-term viability of a coastal maritime forest fragment; USGS, National Park Service; $134,065 (October 2000 to September 2005); D.J. Leopold and H.B. Underwood.

Biocomplexity: Physical, biological, and human interactions shaping the ecosystems of freshwater bays and lagoons; National Science Foundation; $3,000,000 (October 2000 to September 2005); M. Bain, E.A. Cowen, D.P. Loucks, N. Hairston, Jr., R.J. Pendall, D.J. Leopold, C. Driscoll, and S. Ellner.

Chemical analysis of stream water samples; USDI National Park Service; $2,495 (October 2000 to May 2001); D.J. Raynal and D.J. Leopold.

Analysis of vegetation and soil solution in the Catskill Mountains, NY; US Forest Service; $10,000 (June 2000 to Sept. 2001); D.J. Raynal and D.J. Leopold.

A random sample system for accessing forest health on New York State Forest Lands; New York State Department of Environmental Conservation; $70,000 (May 2000 to April 2001); P.D. Manion and D.J. Leopold.

Restoration of coastal wetlands in the St. Lawrence River through re-establishment of natural hydrologic regimes; Great Lakes Protection Fund; $222,000 (October 1999 to December 2002); J.M. Farrell and D.J. Leopold.

Conservation and management of New York fens: Plant diversity, nutrient availability, and landscape controls; The Nature Conservancy's Ecosystem Research Program; $238,526 (May 1999 to April 2002); B. Bedford (Cornell) and D.J. Leopold.

Effects of northern New York ice storm on forest communities; U.S. Forest Service; $863,000 (January 1999 to April 2002); D.J. Leopold, J.P. Gibbs, and R.D. Nyland.

Studies of nitrogen movement in Adirondack Mountain wetland ecosystems; Niagara Mohawk Power Corporation; $86,783 (June to Dec 1998); D.J. Raynal, M.J. Mitchell, and D.J. Leopold.

Continuation of Adirondack Manipulation and Modeling Project; ESEERCO; $700,000 (June 1998 to December 2000); M.J. Mitchell, D.J. Leopold, D.J. Raynal, R.D. Briggs, and C.T. Driscoll.

Allelic diversity in Adirondack forest stands: Old-growth versus managed stands, McIntire-Stennis (USDA); $48,073 (May 1998 - September 2000), J.P. Gibbs, D.J. Leopold, S.O. Rogers, and W.J. Hahn.

Demographic studies of hart’s-tongue fern; New York Department of Environmental Conservation; $12,000 (June 1998 to December 2002); D.J. Leopold.

Selective timber harvest as a tool to promote plant species of concern and regeneration in forested wetlands; NYS-DEC; $5000 (January to August 1998); D.J. Leopold.

A Native American model for environmental restoration and community enhancement; USDA Fund for Rural America; $300,000 (January 1998 to December 2001); R.W. Kimmerer, N.H. Ringler, M.R. Bridgen, D.J. Leopold, S.L. Senecah, and G.L. Godfrey.

Effects of timber harvest and natural gap dynamics on plant biodiversity and tree regeneration in a central New York forested wetland; New York Center for Forestry Research and Development; $32,724 (January to August 1997; January to August 1998); D.J. Leopold.

Curriculum development: Native American perspectives on resource management; USDA-CSREES; $79,978 (September 1996 to August 1998); R.W. Kimmerer, M.R. Bridgen, N.H. Ringler, D.J. Leopold, and J.P. Manno.

The influence of structural heterogeneity on biodiversity within managed, maturing and old-growth northern hardwood stands: implications for ecosystem management; USDA Co-op (Mc-Stennis); $82,671 (May 1996 to September 1999); D.J. Leopold, R.D. Nyland, R.W. Kimmerer, and J.J. Worrall.

Ash yellows in New York State: assessing risk with predictive models; New York Center for Forestry Research and Development; $13,990 (January to September 1996); J.D. Castello, D.J. Leopold, and N.G. Gaus.

Monitoring vegetation along Empire State Pipeline; ANR Pipeline Co.; $3,500 (September to December 1995); D.J. Leopold.

Utility right-of-way management in Karner blue butterfly habitat areas; Niagara Mohawk Power Corporation; $425,000 (June 1995 to December 2002); D.J. Leopold, P.J. Smallidge and L.P. Abrahamson.

Role of vegetation on nitrogen movement and in identifying hydrologically-sensitive areas in Catskill watersheds; U.S. Geological Survey; $267,684 (May 1995 to December 1999); D.J. Raynal and D.J. Leopold.

Restoration potential of abandoned agricultural wetlands in the Great Lakes Region; Great Lakes Protection Fund; $23,000 (October 1994 to March 1995); D.J. Leopold, R. Smardon, and S. Stehman.

Topsoil as a method of restoring abandoned agricultural mucklands: role of the seed bank; US Environmental Protection Agency; $32,500 (October 1994 to December 1995); D.J. Leopold and S.V. Stehman.

Vascular plant species richness and rarity in wetlands on electric power rights-of-way in New York; Empire State Electric Energy Research Corporation; $37,490 (December 1994 to December 1995); D.J. Leopold, D.J. Raynal, and L.P. Abrahamson.

Long-term demographic and genetic diversity studies of *Asplenium scolopendrium* var. *americanum*; U.S. Fish and Wildlife Service; $12,500 (May 1994 to May 1995); D.J. Leopold.

Support for photographs to be used in: Leopold, D.J., W.C. McComb, and R.N. Muller. 1998. *Trees of the Central Hardwood Forests - An Identification and Cultivation Guide*, Timber Press, Inc., Portland, OR, 512 p.; $750 (July 1993 to June 1994); D.J. Leopold.

Ecological models for The Nature Conservancy preserves in central and western New York; The Nature Conservancy; $7000 (December 1993 to June 1994); D.J. Leopold.

Critical habitat for plant species and communities - a landscape ecology perspective; USDA Forest Service; $30,000 (July 1993 to June 1996); D.J. Leopold.

Forest succession on abandoned agricultural wetlands; USDA Co-op (Mc-Stennis); $41,110 (2 years beginning May 1993); D.J. Leopold and S.V. Stehman.

Pathogen incidence and rate of spread: Impact of habitat and landscape attributes; USDA-NRICGP; $200,000 (3 years beginning September 1992); D.J. Leopold, J.D. Castello, and C.J. Davis.

Spatial patterns during succession in abandoned agricultural wetlands; National Science Foundation, Doctoral Dissertation Improvement Program; $5178 (September 1992 to August 1994); D.J. Leopold and A.S. Fisher.

Status of Onondaga Lake plant and wildlife populations and communities; Onondaga Lake Management Conference; $5000 (May to July 1992); L. Van Druff and D.J. Leopold.

Evaluation of Karner blue (*Lycaeides melissa samuelis* Nabokov) habitat beneath transmission line rights-of-way in Albany and Schenectady Counties, N.Y.; Niagara Mohawk Power Corporation; $54,500 (May to December 1992); D.J. Leopold.

Dry Lake basin siltation mitigation; GSA Development Corp.; $3000 (June 1991 to December 1992); D.J. Leopold.

Introduction of *Phyllitis scolopendrium* var. *americana* to new sites in central New York: The Nature Conservancy- New York Field Office, New York Natural Heritage Program, and NYS-DEC (Section 6 Funds from USFWS); $6700 (4 years beginning June 1991); D.J. Leopold.

Management of spreading globeflower (*Trollius laxus* ssp. *laxus*) in central New York; NYS-DEC Forest Stewardship Program; $12,400 (2 years beginning April 1991); D.J. Leopold.

Rights-of-way stability: A 15-year appraisal of plant dynamics on electric power rights-of-way in New York State; Empire State Electric Energy Research Corporation; $147,690 (3.5 years beginning March 1991); L. Abrahamson, D.J. Raynal, C.A. Nowak, and D.J. Leopold.

Ecology of the eastern massasauga; American Wildlife Research Foundation, Inc.; $4000 (2 years beginning January 1991); D.J. Leopold and G. Johnson.

Search for new *Phyllitis scolopendrium* var. *americana* sites in central New York; The Nature Conservancy - New York Field Office and New York Natural Heritage Program; $2500 (1 year, beginning June 1990); D.J. Leopold.

Vegetation responses following prescribed burning; USDA Co-op; $60,000 (3 years, beginning May 1, 1990); R. Nyland, L. Abrahamson, and D.J. Leopold.

Inventory and analysis of small islands and emergent shoals and recommendations for their protection, St. Lawrence River, Thousand Islands Area; St. Lawrence-Eastern Ontario Commission; $10,000 (1 year beginning July 1989); D.J. Leopold, S.R. LaPan, and R.C. Smardon.

Inventory and analysis of wetlands and shoals in the Thousand Islands Area; Thousand Islands Land Trust; $7000 (1 year, beginning February 1989); D.J. Leopold.

Botanical survey at Blueberry Patch, Finger Lakes National Forest and Effects of prescribed fire on oak reproduction; USDA Forest Service; $6500 (1 year, beginning September 1988); D.J. Leopold and R.D. Nyland.

Effects of liming on terrestrial vegetation; Cornell University; $120,000 (3 years, beginning September 1988); D.J. Raynal and D.J. Leopold.

Status of *Cypripedium candidum* in rich fen in western New York; SUNY New Faculty Development Award; $700 (1 year, beginning November 1987).

Ecological consequences of ash decline and relationship of disease to drought; USDA Co-op (Mc-Stennis); $47,387 (3 years, beginning October 1986); D.J. Leopold and J.D. Castello.

Edna Bailey Sussman Fund Environmental Internships for the following undergraduate and graduate students: G. Johnson (2), B. Schrader, S. Ravenscroft, S. Bonanno, A. Fisher (2), L. St. Hilaire, G. Podniesinski (2), G. McGee (2), A. Leimanis, A. Cleveland, D. Thomson, J. O'Reilly, K. Deitz (2), M. Maciorowski, K. Watkins, W. Puishys, K. Barghoorn, S. Scanga, E. Cloyd, H. Hornbeck, S. Reynolds, L. Eiser, Kay Hajek, Tony Eallonardo, Catherine Landis, Brandon Murphy.

**Invited Presentations/Workshops (besides many invited talks each year to garden clubs, etc.)**

Role of foresters in rare plant management. Lecture at annual meeting of NYS-DEC foresters, Cazenovia College, NY, August 1986.

Managing the whole plant community. Two day workshop for NYS-DEC foresters, SUNY-CESF, Syracuse, June 1987.

Biology of rare species and management of significant habitats. Keynote address at Rochester Academy of Science Annual Meeting, Nazareth College, NY, November 1988.

Endangered species and their management. Governor's Conference on Agriculture and the Environment, Albany, NY, November 1988.

Biology of rare plant species and management of significant habitats. Asa Gray Seminar Series, Utica College, NY, December 1988.

Ecological consequences of ash decline and relationship of disease to drought. Northeastern Forest Pest Council, Albany, NY, March 1990.

Managing plant communities. Annual NYS-DEC/NYS Wildlife Society Meeting, Sherburne, NY, September 1990.

Potential biological value of abandoned mucklands. Oswego County Vegetable Growers Association, Oswego, NY, October 1990.

Managing plant communities for biodiversity. Save Oswego County Annual Meeting, Brewerton, NY, November 1990.

Ecology of old-growth forests in the Adirondacks. Biological Diversity. Conserving Our Inheritance. The Association for the Protection of the Adirondacks, St. Huberts, NY, September 1991.

Identification of desirable trees and shrubs on transmission rights-of-way. NYS Category Six Pesticide Training Seminar, Cornell Cooperative Extension, Seneca Falls, NY, October 1991.

Conservation/preservation of rare species and unique plant communities. Ithaca College, Department of Biology Seminar Series, Ithaca, NY, December 1991.

Community and ecosystem management for species of concern. Annual NY SAF Winter Meeting, Hot Issues in Forestry, Rochester, NY, February 1993.

Old-growth forests in the Adirondacks, New York. Conference on The Value of Old-growth Forest Ecosystems in the Eastern United States. University of North Carolina - Asheville, August 1993.

At the brink - maintaining the natural diversity of central and western New York. Presentation to Acorn Members of The Nature Conservancy - Central/Western New York Chapter, Syracuse, September 1993.

Vascular plant species richness and rarity in wetlands on electric power rights-of-way in New York. NYS Category Six Pesticide Training Seminar, Cornell Cooperative Extension, Seneca Falls, NY, October 1993.

Integrated conservation strategies to maintain the biodiversity of central New York. Harvard Forest seminar series, Petersham, MA, March 1994.

Population dynamics of *Cypripedium candidum*, small white ladyslipper, in a western New York fen. New York Natural History Conference, Albany, New York, April 1994.

New York native plant species for central New York Landscapes. Central New York Landscape and Grounds Maintenance Seminar, Syracuse, NY, March 1995.

Interesting New York native trees. Empire State Tree Conference, Syracuse, NY, January 1996 (banquet speaker).

Native woody plants for CNY landscapes. Sixth Annual CNY Flower and Garden Show, Syracuse, March 1996.

Role of forest management in maintaining and enhancing biodiversity. Watershed Science and Management Initiative Seminar Series, Cornell Center for the Environment, Cornell University, Ithaca, NY, May 1997.

Walk into Five Ponds Wilderness and panel participant in Public Forum to discuss July 1995 blowdown, Sponsored by the Northern Forest Alliance and the Association for the Protection of the Adirondacks, Wanakena, NY, July 1997.

Old growth in the Northeast, Northeastern Conference of the Student Environmental Action Coalition, Syracuse, NY, November 1997.

Pattern and process in eastern U.S. old-growth forests, SUNY-Binghamton, NY, April 1998.

Role of forest management in maintaining and enhancing biodiversity, SUNY-Binghamton, NY, April 1998.

The Nelson Swamp, Leatherstocking Series, Cazenovia Public Library, Cazenovia, NY, April 1998.

Synopsis of Wetland Research at SUNY-CESF, New York State Wetlands Forum 1998 Annual Meeting, Albany, NY, April 1998.

Orchids of New York State, Adirondack Chapter of the North American Rock Garden Society, Cornell University, Ithaca, NY, April 1998.

Trees of the Central Hardwood forests of North America, Garden Trends Lecture Series (and book signing), The Horticultural Society of New York, New York, NY, May 1998.

Use of reference wetlands to assess plant community succession and re-establishment of forested wetlands on abandoned agricultural wetlands in central New York State, G.S. Podniesinski and D.J. Leopold, Selecting and Using Wetland Reference Sites, Institute of Ecosystem Studies, Millbrook, NY, May 1998.

Keynote address, SUNY-CESF, December 1998 Convocation, Syracuse.

Wetlands of New York State, part of all day NYS-DEC Hydrology Training Workshop, with D. Siegel, C. Cirmo, B. Bedford, R. Tiner, and J. Kusler; Cortland, NY, May 1999.

Overview to wetlands and wetland restoration in New York State, Natural Resources Conservation Service training course, Watertown, NY, September 1997; Syracuse, August 1998; Syracuse, August 1999.

Identifying Wetland Woody Plants in Winter, New York State Wetlands Forum, 2000 Annual Meeting, Binghamton, NY, March 2000.

Patterns of plant diversity in eastern North American fens (with B. Bedford), Society of Wetland Scientist Invited Papers Symposium, Society of Wetland Scientists Annual Meeting, Quebec City, Quebec, August 2000.

A biocomplexity research approach for open ecosystems: the physical, biological, and human interactions in distinct coastal habitats of Lake Ontario. M. Bain, E. Cowen, D. Loucks, N. Hairston, R. Pendall, D. Leopold, C. Driscoll, S. Ellner, and J. Lobo. 2000. American Geophysical Union Fall 2000 Conference, Nonlinear Geophysics Section, San Francisco, CA, 14-19 December (poster and oral presentations).

Physical, biological, and human interactions shaping the ecosystems of freshwater bays and lagoons. M. Bain, E. A. Cowan, C. Driscoll, S. Ellner, N. Hairston Jr., R. Johnson, D. Leopold, D. P. Loucks, A. W. Parmenter, R. J. Pendall, G. Steinhart. Biocomplexity in the Environment Conference, National Science Foundation, Arlington, VA, October 2001 (poster and oral presentations).

Invasive plants in New York State’s forests, A.D. Halpern and D.J. Leopold, NYSAF Winter Meeting, Liverpool, NY, January 2003.

Native plants for difficult garden sites, D.J. Leopold, EcoSavvy Gardening Symposium, Green Spring Gardens, Alexandria, VA, February 2005.

Native plants, Central New York Nursery & Landscape Association Annual Education Day, Skaneateles, NY, February 2005.

Native plants of the Northeast. A Guide for Gardening and Conservation, D.J. Leopold, Habitat Gardening in Central New York: A Wild Ones Chapter, presentation and book signing, Liverpool, NY, March 2005.

Native plants of the Northeast. A Guide for Gardening and Conservation, D.J. Leopold, Borders Bookstore, Carousel Mall, presentation and book signing, Syracuse, NY, April 2005.

Gardening with native plants, Syracuse Rose Society Annual Meeting, Syracuse, June 2005.

Native plants for difficult sites, Phipps Conservatory and Botanical Gardens Native Plant Conference, Pittsburgh, PA, October 2005.

Native plants of the Northeast, 77th Annual Meeting Sixth District FGCNYS, Inc., Syracuse.

Native plants for shady and sunny borders, D.J. Leopold, Rochester Civic Garden Center Master Class Series, Rochester, NY, October 2005.

Native plants for difficult garden sites, Cornell Plantations Fall Lecture Series, Cornell University, Ithaca, NY, November 2005.

Native trees and shrubs, Central New York Nursery & Landscape Association Annual Education Day, Skaneateles, NY, February 2006.

Native plants for difficult sites, Bowman’s Hill Wildflower Preserve’s 6th Annual Land Ethics Symposiuim, Langhorne, PA, February 2006.

Native northeastern plants for landscape settings, NYAPPA Seminar on Campus Grounds Design, Construction, and Maintenance; SUNY-New Paltz, March 2006, and Syracuse, April 2006; about 120 people total

Native trees and shrubs for the garden, The Men’s Garden Club of Syracuse, Syracuse, April 2006.

Native ferns, graminoids, and wildflowers for gardens, Garden Center Association of Central New York, Highland Forest, May 2006.

Native plants for difficult sites, Northeast Symposium on Native Plant Education, Conservation and Gardening, Mexico, NY; June 2006.

Native plants of central New York field trip, Northeast Symposium on Native Plant Education, Conservation and Gardening, Mexico, NY; June 2006.

Native plants for gardens in New York state, Federated Garden Clubs of New York State annual meeting, Cooperstown, September 2006.

Native plants of the Northeast, Homer Garden Club Annual Lecture, October 2006.

Lesser-known native plants of the Northeast, Muesum of the Earth, Ithaca, February 2007.

Native plants of New York, Invasive Plant Council of NYS, Albany, February 2007.

Native plants for wet areas, CNY Blooms, Syracuse, March 2007.

Native plants for shady areas, CNY Blooms, Syracuse, March 2007.

Great performers in the landscape: Native trees and shrubs, Rochester Flower Show (Gardenscape 2007), Rochester, March 2007.

Native plants for difficult sites, Rochester Flower Show (Gardenscape 2007), Rochester, March 2007.

From ferns to fens: Highlights of biodiversity-related research in New York state, New York State Museum Lecture Series, Albany, April 2007.

Native trees, shrubs, and vines for the garden, The Pennsylvania Horticultural Society’s Annual Woody Plant Conference at Swarthmore College, Swarthmore, PA, July 2007.

Forest biodiversity, Ecological Landscaping Association Annual Conference; Springfield, MA, March 2008.

Something will actually grow there? Central New York Nursery & Landscape Association Annual Education Day, Skaneateles, NY, February 2009.

Natural plant communities of upstate New York, Native Plants Conference, Cornell Lab of Ornithology, Ithaca, NY, February 2009

NY State-protected species: Why they are listed and how to use these species in the landscape, CNY Blooms, Keynote Speaker, Syracuse, NY, March 2009.

Pawpaws, shooting stars, and other terribly neglected native plants for the landscape, CNY Blooms, Keynote Speaker, March 2009.

Something will actually grow there? NYS DEC Region 8 Education Day, Owego, NY, March 2009.

From pawpaws to shooting stars and prickly pears: Excellent and often under utilized native plants for Northeastern gardens, Watnong Chapter North American Rock Garden Society, Frelinghuysen Arboretum, Morristown, NJ, March 2009.

**Additional Professional Presentations** (does not include presentations at annual SUNY-ESF poster symposium)

Leopold, D.J. and G.R. Parker. 1984. Tree growth and community stability after successive clearcuts in the southern Appalachians. Symposium for 50th Anniversary of Coweeta Hydrologic Laboratory, Institute of Ecology, University of Georgia, Athens, October (poster).

Leopold, D.J., G.R. Parker, and W.T. Swank. 1984. Forest dynamics after successive clearcuts in the southern Appalachians. Symposium for 50th Anniversary of Coweeta Hydrologic Laboratory, Institute of Ecology, University of Georgia, Athens, October (poster).

Leopold, D.J. and C. Reschke. 1988. Extent, composition, and structure of old-growth forests in the Adirondack Park, New York. Society of American Foresters National Convention, Rochester, NY, October (poster).

Knutson, M.G., D.J. Leopold, and R.S. Smardon. 1990. Conservation of small islands and emergent shoals in the Thousand Islands Region. Annual Conference of Society for Ecological Restoration, Chicago, May (poster).

Mackun, I.R., A.R. Brach, P.J. Smallidge, D.J. Leopold, and D.J. Raynal. 1990. Assessing the response of vegetation after liming an Adirondack watershed. Annual Conference of Society for Ecological Restoration, Chicago, May (poster).

Knutson, M.G., D.J. Leopold, and R.S. Smardon. 1990. Conservation of small islands and emergent shoals in the Thousand Islands Region. Conference on Natural Areas and Yosemite: Prospects for the Future (17th Annual Natural Areas Conference), Concord, CA, October (poster).

Mackun, I.R., A.R. Brach, P.J. Smallidge, D.J. Leopold, and D.J. Raynal. 1990. Assessing the response of vegetation after liming an Adirondack watershed. Conference on Natural Areas and Yosemite: Prospects for the Future (17th Annual Natural Areas Conference), Concord, CA, October (poster).

Falb, D.L. and D.J. Leopold. 1990. The effect of woody plant competition on *Cypripedium candidum* in a rich fen in western New York. Conference on Natural Areas and Yosemite: Prospects for the Future (17th Annual Natural Areas Conference), Concord, CA, October (poster).

Knutson, M.G., D.J. Leopold, and R.S. Smardon. 1991. Evaluation of small islands and shoals for conservation based on biological and aesthetic criteria. Great Lakes Research Consortium Student and Faculty Conference, SUNY-CESF, Syracuse, January 1991 (oral presentation).

Knutson, M.G., D.J. Leopold, and R.S. Smardon. 1991. Evaluation of small islands and shoals for conservation based on biological and aesthetic criteria. International Conference on Science and the Management of Protected Areas, Acadia University, Nova Scotia, May 1991 (oral presentation).

Bonanno, S.E. and D.J. Leopold. 1991. New York's coastal dunes: Unique treasure, irreplaceable resource. Coastweek '91, poster displayed at Beaver Lake Nature Center, Baldwinsville, NY, September.

Bonanno, S.E. and D.J. Leopold. 1992. A Great Lakes barrier dune system under recreation pressure. Great Lakes Research Consortium Student and Faculty Conference, SUNY-CESF, Syracuse, January (oral presentation).

Johnson, G. and D.J. Leopold. 1992. Habitat management for the eastern massasauga rattlesnake in a New York transition peatland. New York Natural History Conference II, New York State Museum, Albany, NY, May (oral presentation).

Johnson, G. and D.J. Leopold. 1992. Habitat management for eastern massasauga rattlesnakes in a New York peatland. INTECOL's IV International Wetlands Conference, Columbus, OH, September (oral presentation).

Fisher, A.S., G.S. Podniesinski, and D.J. Leopold. 1992. Spatial patterns of vegetation and environment during succession in abandoned agricultural wetlands. INTECOL's IV International Wetlands Conference, Columbus, OH, September (poster).

St. Hilaire, L.R., A. Leimanis, and D.J. Leopold. 1992. Species richness and rarity in relation to ecological characteristics of central New York forested minerotrophic peatlands. INTECOL's IV International Wetlands Conference, Columbus, OH (poster).

Van Ord, A., D.J. Leopold, C.A. Nowak. 1992. Vascular plant species richness and rarity, and community stability in wetlands on electric power rights-of-way in New York. INTECOL's IV International Wetlands Conference, Columbus, OH, September (poster).

Smallidge, P.S. and D.J. Leopold. 1992. Effect of transmission line rights-of-way management activities on blue lupine (*Lupinus perennis* L.) in eastern New York. Natural Areas Association Annual Meeting, Bloomington, IN, October (poster).

Leimanis, A. and D.J. Leopold. 1993. Habitat characteristics of *Trollius laxus* ssp. *laxus* (spreading globeflower) in a central New York conifer swamp. Natural Areas Association Annual Meeting, Orono, ME, June (poster).

Leopold, D.J., A. Van Ord, and D.J. Raynal. 1993. Vascular plant species richness and rarity in wetlands on electric power rights-of-way in New York. Fifth International Symposium on Environmental Concerns in Rights-of-Way Management. Montreal, Quebec, September (oral presentation).

Maciorowski, M.J. and D.J. Leopold. 1994. Long-term studies of hart's-tongue fern in central New York. New York Natural Natural History Conference, Albany, New York, April (oral presentation; invited).

Fisher, A.S. and D.J. Leopold. 1994. Succession on abandoned agricultural mucklands in central New York. Natural Areas Association Annual Meeting, Palm Beach Gardens, Florida, October (oral presentation).

Podniesinski, G.S., A.S. Fisher, and D.J. Leopold. 1994. Vegetation and environmental characteristics of natural forested and abandoned agricultural peatllands in central New York. Natural Areas Association Annual Meeting, Palm Beach Gardens, Florida, October (oral presentation).

Smallidge, P.J., D.J. Leopold, and C.M. Allen. 1994. Rights-of-way management in Karner blue butterfly (*Lycaeides melissa samuelis*) habitats in east-central New York state. Natural Areas Association Annual Meeting, Palm Beach Gardens, Florida, October (oral presentation).

Leopold, D.J. 1995. Restoration of abandoned agricultural wetlands in the Great Lakes basin. Wetlands '95 (New York State Wetlands Forum), Syracuse, NY, April (oral presentation).

McGee, G.G. and D.J. Leopold. 1995. Structural characteristics of old-growth, 90-100 year old, and intensively managed northern hardwood stands in the Adirondack Mountains of New York. Natural Areas Association Annual Meeting, Fayetteville, Arkansas, October (poster).

McGee, G.G., D.J. Leopold, and R.D. Nyland. 1996. A comparison of structural heterogeneity in old-growth, uneven-aged, and maturing Adirondack northern hardwood stands, oral presentation at Ecosystem Approaches to Management: Interdisciplinary Applications, Joint meeting of the New York chapters of the American Fisheries Society, Society of American Foresters, and Wildlife Society, Liverpool, NY, February.

Cleveland, A., D.J. Leopold, J.R. Probst, and W.C. Zipperer. 1996. Predicting the occurrence of rare plants using an ecological classification system on the Huron-Manistee National Forest, Natural Areas Association Annual Meeting, Chicago, IL (oral presentation).

Raynal, D.J. and D.J. Leopold. 1997. Biogeochemical functions of old growth, Ancient Eastern U.S. Old-growth Forests Conference, Clarion University, Clarion, PA, June (oral presentation).

Gaus, N., P.J. Smallidge, D.J. Leopold, and J.D. Castello. 1997. Ash yellows in central New York: Detection, incidence, and rate of spread, oral presentation, IUFRO Working Party 7.02.04, Virus and Phytoplasma Diseases of Forest Trees, Syracuse, NY, June.

Yorks, T.E., D.J. Leopold, and D.J. Raynal. 1997. Spatial variability of soil water chemistry in eastern hemlock (*Tsuga canadensis*) stands of the Catskill Mountains, New York; Gordon Conference - Hydrobiogeochemistry of Forested Watersheds, August (poster).

Killilea, M., J. Williams, T. Webb, C. Hall, and D.J. Leopold. 1998. Community reconstruction and gradient analysis at varying spatial, temporal, and taxonomic resolutions: pollen and tree inventory data from New York State. Geological Society of America Penrose Conference, Baltimore, MD, May.

Fuller, S., F. Hudson, D. Leopold, P. Smallidge, and N. Gifford. 2000. Management, fire, and disturbance on Karner blue butterfly larval hostplant and adult nectar plants. Poster presentation at Society of Conservation Biologists Annual Meeting, Missoula, Montana, June.

Godwin, K.S., B.L. Bedford, J.P. Shallenberger, D.J. Leopold, K. Bailey, C. Chapin, and P. Weishampel. 2000. Local and regional controls of plant species composition and diversity in New York fens. Poster presentation at Society of Wetland Scientists/INTECOL Quebec 2000 Millenium Wetland Event, Quebec City, Quebec, August.

Shallenberger, J.P., K.S. Godwin, D.J. Leopold, and B.L. Bedford. 2000. Preliminary hydrogeologic classification of New York fens. Poster presentation at Society of Wetland Scientists/INTECOL Quebec 2000 Millenium Wetland Event, Quebec City, Quebec, August.

Yorks, T.E., D.J. Leopold, and D.J. Raynal. 2001. Potential biogeochemical and vegetative consequences of an invasive insect herbivore in Tsuga canadensis stands, August, Annual Meeting of the Ecological Society of America, Madison, WI (oral presentation).

Murdoch P.S., D.A. Burns, T.E. Yorks, D.J. Leopold, and D.J. Raynal. 2001. Biogeochemical response of northern hardwood forests in the Catskill Mountains to several harvesting intensities. August, Annual Meeting of the Ecological Society of America, Madison, WI (poster).

Fuller, S.G., D.J. Leopold, P.J. Smallidge, and N.A. Gifford. 2001. Effects of management, fire, and disturbance on the habitat of the Karner blue butterfly, August, Annual Meeting of the Ecological Society of America, Madison, WI (oral presentation).

Cloyd, E.T., J.M. Farrell, and D.J. Leopold. 2002. Predicting the effects of changes in wetland vegetation and water level fluctuations on northern pike spawning and growth. June, Annual Meeting of the Society of Wetland Scientists, Lake Placid, NY (poster).

Farrell, J.M., J. Toner, A. Halpern, B. Murry, M. Beland, and D. Leopold. 2002. Coastal wetlands of the St. Lawrence River: Cascading effects of interrupting the natural flow regime. June, Annual Meeting of the Society of Wetland Scientists, Lake Placid, NY (oral presentation).

Godwin, Kevin, M. Buff, D.J. Leopold, and B.L. Bedford. 2002. A GIS-based landscape approach to predicting and evaluating vulnerable wetland ecosystems: A hydrogeologic setting (HGS) model for fens. June, Annual Meeting of the Society of Wetland Scientists, Lake Placid, NY (poster).

Toner, J., A. Halpern, G.W. Hoag, J.M. Farrell, and D.J. Leopold. 2002. Effects of water level manipulation on muskrat populations within St. Lawrence River coastal wetlands. June, Annual Meeting of the Society of Wetland Scientists, Lake Placid, NY (oral presentation).

Forrester, J.A., D.J. Leopold, H. Art, and M. Foley. 2002. Disturbance effects on forest succession in the Sunken Forest, Fire Island National Seashore, 29th Annual Natural Areas Conference, Asheville, NC (poster).

DeKoskie, D., T. Endreny, M. Higgins, J. Black, and D.J. Leopold. 2002. Restoration feasibility study for Onondaga Creek, Syracuse, NY. Association of State Wetland Managers Conference, Bear Mountain, NY (poster).

Forrester, J.A., D.J. Leopold, H.B. Underwood, and M.K. Foley. 2003. The persistence of a remnant maritime holly forest: short- and long-term dynamics of a critically imperiled plant community. Fire Island National Seashore Fourth Biennial Science Conference, Upton, NY (oral presentation).

Scanga, S.E. and D.J. Leopold. 2003. The role of canopy gaps in the conservation of the rare wetland wildflower, *Trollius laxus*. New England Wild Flower Society, Framingham, MA (oral presentation + poster).

Forrester, J.A., D.J. Leopold, and H.W. Art. 2004. Mortality and replacement patterns in two maritime holly forests. Northeast Natural History Conference, NYS Museum, Albany, NY (oral presentation).

Scanga, S.E. and D.J. Leopold. 2004. Management at the crossroads: A four-way aproach to conserving a wetland wildflower. Northeast Natural History Conference, NYS Museum, Albany, NY (poster).

Forrester, J.A. and D.J. Leopold. 2004. Utility right-of-way management in Karner blue butterfly habitat areas: Eight year response of blue lupine and associated plant communities. 8th International Symposium, Environmental Concerns in Rights-of-way Management, Saratoga Springs, NY, September (poster).

Endreny, T.A. and D.J. Leopold. 2004. Balancing urban river restoration for ecologic and flood control functions. Syracuse Symposium on Environmental and Energy Systems, Syracuse, NY (oral presentation and poster).

**Theses and Dissertations Directed** (all SUNY-ESF, Syracuse)

DeScisciolo B. 1988. The seasonal patterns of juglone in soil beneath *Juglans nigra* (black walnut) and the influence of *J.nigra* on understory vegetation. M.S. Thesis, 93 p. (co-major prof. w/ D.C. Walton).

LeBlanc, C. 1988. Vegetation dynamics in a central New York shrub-carr 94 years after fire. M.S. Thesis, 93 p.

Kuehn, D.M. 1989. Demographic and habitat studies of *Phyllitis scolopendrium* var. *americana* in central New York State. M.S. Thesis, 83 p.

Smallidge, P.J. 1989. Characteristics of northeastern forest stands affected by ash yellows. M.S. Thesis, 57 p.

Han, Y. 1990. Investigation of the relationships among ash yellows, radial growth decline, and drought. M.S. Thesis, 85 p. (co-major prof. w/ J.D. Castello).

Falb, D. 1991. Demography and microsite characteristics of *Cypripedium candidum* in a rich fen in western New York. M.S. Thesis, 56 p.

Knutson, M.G. 1991. Evaluation of small islands and shoals for conservation based on biological and aesthetic criteria. M.S. Thesis, 69 p.

Johnson, A.M. 1992. Vascular plant species richness across a minerotrophic gradient in St. Lawrence County, New York wetlands. M.S. Thesis, 72 p.

Bonanno, S.E. 1992. Vegetation of a Lake Ontario dune barrier, Oswego and Jefferson Counties, NY, under high and low recreation pressure. M.S. Thesis, 80 p.

Smallidge, P.J. 1993. Effects of watershed liming on upland plant communities in a western Adirondack forest. Ph.D. Dissertation, 143 p.

Mackun, I.R. 1993. Wetland vegetation responses to liming an Adirondack watershed. Ph.D. Dissertation, 153 p. (co-major prof. with D.J. Raynal).

McGee, G.G. 1993. Some effects of frequency and intensity of springtime prescribed fire on two New York oak-northern hardwood forest understories. M.S. Thesis, 133 p.

Cameron, D.S. 1994. Effect of landscape position on diversity, richness, and contribution of non-native species on electric transmission rights-of-way. M.S. Thesis, 77 p. (co-major prof. with D.J. Raynal).

Leimanis, A.A. 1994. Habitat characteristics of *Trollius laxus* ssp. *laxus* (spreading globeflower) in a minerotrophic forested peatland in central New York. M.S. Thesis, 91 p.

St. Hilaire, L.R. 1994. Conifer seedling distribution in relation to microsite and bryophyte cover in a central New York forested minerotrophic peatland. M.S. Thesis, 82 p.

Johnson, G. 1995. Spatial ecology, habitat preferences and habitat management of the eastern massasauga in a New York transitional peatland. Ph.D. Dissertation, 222 p.

Thomson, D.L. 1995. Plant species richness and cover at edges and interiors of midsuccessional forests in central New York. M.S. Thesis, 82 p.

Podniesinski, G.S. 1996. Plant community organization in central New York forested peatlands in response to water chemistry and hydrologic gradients. Ph.D. Dissertation, 214 p.

Cleveland, A.V. 1997. Predicting the occurrence of rare plants in the Huron-Manistee National Forests using an ecological classification system. M.S. Thesis, 66 p.

Deitz, K. 1997. Seed germination and seedling growth of woody plant species under saturated and well-drained conditions in the field and greenhouse. M.S. Thesis, 84 p.

O'Reilly, J.A. 1997. The use of soil seed banks to restore abandoned agricultural sapric peatlands in central New York. M.S. Thesis, 134 p.

McGee, G.G. 1998. Structural characteristics of Adirondack hardwood forests: Implications for ecosystems management. Ph.D. Dissertation, 206 p.

Anderson, K.L. 1999. The role of natural gaps in maintaining vascular plant diversity in a central New York forested wetland. M.S. Thesis, 60 p.

Puishys, W.B. 1999. Herbaceous layer vegetation response to single-tree harvest of a minerotrophic mixed-conifer swamp in central New York. M.S. Thesis, 139 p.

Kitchie, D. 1999. Wild rice for use as an agricultural commodity and for use in restored wetlands. M.P.S. Project Report.

Killilea, M.E. 1999. Variation in abundance and tree growth in New York State as a function of environmental gradients. M.S. Thesis, 115 p. (co-major professor with C. Hall).

Boesse, C.A. 2000. The naturalization of the non-indigenous *Epipactis helleborine* (L.) Crantz (Orchidaceae) in North America: Links to habitat, nutrient uptake and mycorrhizal associations. M.S. Thesis, 102 p. (co-major professor with D.J. Raynal).

Yorks, T.E. 2001. Effects of forest harvest, deer herbivory, and tree mortality on nutrient cycling in the Catskill Mountains of New York. Ph.D. Dissertation, 265 p.

Quinlan, K.M. 2001. Herbaceous species composition and diversity in old-growth and managed northern hardwood forests in the Adirondacks. M.S. Thesis, 76 p.

Shallenberger, J.P. 2001. Comparison of minerotrophic peatlands in central New York State: Refinement of a fen hydrogeologic setting (HGS) classification system. M.S. Thesis, 123 p.

Keirnan, K.E. 2002. Dendroecological analysis of hardwood species in the Catskill Mountains of New York. M.S. Thesis, 58 p. (co-major professor with D. Raynal).

Woods, S.S. 2002. Response of ferns to overstory disturbance: Effects of ice storm and timber harvest on four common fern species in hardwood forests of New York. M.S. Thesis, 65 p.

Kraus, N. 2003. Relationships between forest health and plant diversity in western New York State forest lands. M.S. Thesis, 80 p.

Hafner, S.D. 2003. Coarse woody debris and nutrient cycling: Leaching and soil properties in a temperate forest. M.S. Thesis, 129 p.

Benjamins, M. 2003. Oviposition preferences of the endangered *Lycaeides melissa samuelis* in relation to canopy cover. M.S. Thesis, 68 p.

Kelsall, N.D. 2004. Effects of lake level regulation on coastal wetlands of eastern Lake Ontario: A simulation study. M.S. Thesis, 116 p.

Cloyd, E.T. 2004. Master of Professional Studies (co-advised with J. Farrell).

Eiser, L. 2004. Master of Professional Studies.

Hotaling, N.E.M. 2004. Master of Professional Studies.

Forrester, J. 2004. Ecological dynamics of a rare maritime *Ilex opaca* forest. Ph.D. Dissertation, 160 p.

Godwin, K.S. 2004. A GIS-based landscape approach to predicting and evaluating vulnerable wetland ecosystems: Applying a hydrogeologic setting (HGS) model to NYS fens. Ph.D. Dissertation, 182 p.

Goodell, L.A. 2004. Understory plant species diversity patterns in forest stands of upstate New York. M.S. Thesis, 115 p.

Eallonardo, A.S., Jr. 2006. An empirical test of nitrogen saturation in the understory of the Catskill Mountains of New York, M.S. Thesis, 110 p.

Heath, L.A. 2007. Understory plant community response to nitrogen and dolomite additions in a northern hardwood forest of the Catskill Mountains, New York. M.S. Thesis.

Slattery, Michael. 2007. Master of Professional Studies.

Diggory, Ariel A. 2008. Using enduring landscape features and a geographic information system to map potential wetlands. M.S. Thesis, SUNY-ESF, Syracuse, xx p. (with W. Porter)

Ramirez, Pablo de Arellano. 2007. Systematic conservation planning in Chile: Sensitivity of reserve selection procedures to target choices, cost surface, and spatial scale. Ph.D. Dissertation, SUNY-ESF, Syracuse, 134 p.

Fuller, Steven G. 2008. Population dynamics of the endangered Karner blue butterfly (*Lycaeides melissa samuelis* Nabokov). Ph. D. Dissertation, SUNY-ESF, Syracuse, 173 p.

**Teaching Experience**

Instructor for laboratory in ornamental horticulture, University of Kentucky, August 1977 to May 1978.

Instructor for laboratory in dendrology, University of Kentucky, August to December 1978.

Developed and taught course in winter botany, University of Kentucky, January to May 1979.

Instructor for dendrology (laboratories and lectures), Purdue University, August 1980 to December 1983 (fall semesters).

Instructor for field program in forestry, Purdue University, mid-May to mid-June in 1981 (in southern Indiana), and 1982 and 1983 (in northern Wisconsin).

Taught Systematic Botany (senior-graduate level course) at SUNY-ESF, Fall 1989.

Taught Wetland Plant Identification short-course (with D. Raynal) through SUNY-CESF Continuing Education Office, June 1991, June 1992, June 1993, June 1995.

Taught Wetland Plant Identification short course to 60 NYS-DEC staff members (with D. Raynal) through SUNY-ESF Continuing Education Office, June 1993.

Gave six hours of lecture on biodiversity, conservation biology, and landscape ecology in U.S. Forest Service Advance Studies in Silviculture short-course held at SUNY-ESF, Fall 1991.

Offer courses at SUNY-ESF each year in Dendrology (3 different courses), Woody Plants (required course for SUNY-ESF Landscape Architecture Students) and Freshwater Wetland Ecosystems; also classes in Forest Communities of the Adirondacks, and Functional Diversity of the Adirondacks; and, seminars on Restoration Ecology, Wetland Ecology, and Community Organization.

Instructor (w/ J. Farrell, ESF; R. Johnson, Cornell) in all day Aquatic Macrophyte Identification and Ecology Workshop, hosted by the NY Chapter of the American Fisheries Society, Tunison Lab of Aquatic Sciences, Cortland, September 1999; repeated August 2000 at Cornell Biological Field Station, Shackelton Point, NY.

**Invited Participation Related to Improving Instruction** (all presentations at ESF/SU)

Presenter, SUNY-ESF Graduate Teaching Assistant Colloquim, August every year from 1995 through 2007.

Presenter, Using Undergraduate TA's at ESF, Brown Bag Lunch, October 1995.

Co-Facilitator for discussion of Integrating Research, Teaching, and Learning at ESF; Session at Integrating Scholarship at a College with a Specialized Mission, February 1997.

Presenter, Energizing students through problem-based learning and Socratic dialogue, Focus on Teaching Luncheon Series, Office of Undergraduate Studies and Center for Instructional Development, Syracuse University, November 1997.

**Other Presentations Related to Improving Instruction**

Functional diversity of Adirondack Communities: A problem-based course at Cranberry Lake Biological Station, poster presented at Symposium on Teaching, Learning, and Technology. Integrating Problem-based Learning at a College with a Specialized Mission, SUNY-ESF, February 1998.

**Instructional Software Developed**

Leopold, D.J. and N. Gaus, 1996, Dendro-on-Disk (college dendrology course made available on CD-ROM), SUNY-ESF, Syracuse.

**Recognition for Conservation Efforts**

SUNY-ESF's first nomination for Pew Scholars Program in Conservation and the Environment, November 1992.

Friend of the Land Award, The Nature Conservancy, Central and Western New York Chapter, October 1995.

# College and University Service

Co-advisor to the Botany Club, SUNY-ESF, September 1985 to present.

Co-advisor to the Student Chapter of SAF, SUNY-ESF, January 1986 to January 1990.

Member, Subcommittee on Curriculum, SUNY-ESF Faculty Governance, January 1986 to May 1987.

Executive Secretary, SUNY-ESF Faculty Governance, June 1987 to June 1989 (elected).

Middle States Association Self-study Steering Committee; Co-chair, Instruction Working Group; Member, Research Working Group; April 1990 to May 1992.

Plant Science and Biotechnology Concentration Coordinator, Faculty of Environmental and Forest Biology, June 1990 to October 1992.

Chair, various departmental committees including Seminar (1989-1993), Cranberry Lake Biological Station (1993 to 1997).

Member, SUNY-ESF Quality of Worklife Committee, August 1990 to August 1992.

Member, Subcommittee on Instructional Quality, Committee on Instruction, SUNY-ESF Faculty Governance, September 1991 to May 1992.

Chair, Committee on Public Service, SUNY-ESF Faculty Governance, July 1992 to June 1994 (elected).

Attendee, 11th and 12th Annual Meetings of the National Council of Botany/Plant Science Program Chairs, October 1992 (St. Paul, MN) and October 1993 (Tempe, AZ), respectively.

Member, Pre-selection Committee for Feinstone Environmental Awards, January 1993 to present.

Member, College Service Mission Discussion Group, September 1994 to May 1995.

Chair, Committee on Research, SUNY-CESF Faculty Governance, July 1995 - June 1997 (elected).

Supervisor, for Greenhouse Manager, Faculty of Environmental and Forest Biology, September 1995 to present.

SUNY-ESF Representative to Sponsored Programs Advisory Council (SPAC), The Research Foundation of the State University of New York, September 1995 to June 1997.

Presenter, Publishing Your Book, Brown Bag Lunch, February 1996.

Co-organizer, Spotlight on Undergraduate and Graduate Research at SUNY-ESF, Poster Session, April 1996 and 1997 (nearly 100 posters each year).

Chair, Search Committee for Chairperson, Faculty of Environmental and Forest Biology, SUNY-ESF, September 1996 to March 1997.

Chair, Curriculum and Course Assessment Committee, Faculty of Environmental and Forest Biology, SUNY-ESF, September 1997 to June 1999.

Member, Positions Committee, Faculty of Environmental and Forest Biology, SUNY-ESF, September 1997 to June 1999.

Member, Jahn Lab Landscape Design/ESF Site Planning Committees, January 1997 to Dec. 2000.

Reviewer, McIntire-Stennis Proposals, for SUNY-ESF Review Panel, January 1997; Dec. 1998.

Member, Excelsior Task Force, SUNY-ESF, December 1997 to December 1998.

Member, President's Diversity Task Force, SUNY-ESF, March to June 1998; and, facilitator at Diversity Workshop, March 1998.

Member, Search Committee for Conservation Mycologist, Faculty of EFB, January to July 1998.

Member, Search Committee for College Graphics Design Artist, September 1998 to April 1999.

Member, Search Committee for Restoration Mycologist, Faculty of EFB, January to May 2000.

Member, Search Committee for position in Faculty of Landscape Architecture, March to August 2000.

Member, Search Committee for Vertebrate Conservation Biologist, Faculty of EFB, August 2000 to March 2001.

Chair, SUNY-ESF's Chancellor's Awards Committee, January to April 1999.

SUNY-ESF Middle States Association Self-study Steering Committee Member; June 2000 to May 2002; Chair, Subcomittee on Students and Educational Program.

Member, SUNY-ESF Urban Environmental Science Advisory Committee, September 2001 to present.

Coordinator, Faculty of Environmental and Forest Biology Field Programs, January 2000 to May 2005.

Chair, Promotion and Tenure Committee, Faculty of Environmental and Forest Biology, March 2002 to May 2005; member, January 2000 to February 2002.

Member, Search Committee for SUNY-ESF Provost, January 2004 to April 2005.

Member, SUNY-ESF Applied Ecology and Conservation Biology Leadership Integrative Group, January 2004 to present.

Member, SUNY-ESF Faculty Governance Committee on Public Service and Outreach, September 2004 to May 2006.

**Professional Service**

Co-chair, 15th Natural Areas Association Annual Meeting, Syracuse, New York, June 1988.

Co-chair, Student Activities Subcommittee, Society of American Foresters National Meeting in Rochester, New York, October 1988.

Chair, NYS-SAF membership committee, January 1993 to December 1994; member, January 1989 - December 1992.

Editor, *Natural Areas Journal*, January 1993 to May 1999; Associate Editor, April 1990 to December 1992; member, Editorial Board, January 1989 to March 1990.

Member, Natural Areas Association Board of Directors, January 1993 to May 1999.

Member, Editorial Board, *Northeastern Naturalist,* December 1996 to present.

Member, Advisory Committee to Society of American Foresters Endangered Species Act Task Force, February 1992 to December 1993.

Organizer and moderator, "Eastern U.S. old-growth issues, problems, and solutions", session for Natural Areas Conference, Bloomington, Indiana, October 1992.

Member, NYS-DEC Blowdown Assessment Subcommittee on Ecological Effects, August 1995 to December 1995.

Wetlands Program Coordinator, Program Committee, American Water Resources Association 1996 Summer Symposium (Syracuse, NY), August 1995 to July 1996.

Co-organizer, "Eastern U.S. Old-growth forests: Pattern, Process, Value, and Management", Conference at Clarion University, Clarion, PA, June 1997.

Member, Advisory Board, Eastern Old-growth Clearinghouse (project of Appalachia Science in the Public Interest, *Wild Earth*, and Yggdrasil Institute, May 1997 to December 2001.

Member, Editorial Board (Forest Ecology), *Journal of Forestry*, April 1999 to May 2002.

Member, Special Advisory Board, The 500 Year Forest Foundation, Lynchburg, Virginia, May 1998 to December 1999.

Member, Northeast Scientific Peer Review Team for the National Wetlands Inventory's Wetland Characterization Studies, March 2000 to December 2006 (R.Tiner, Regional Wetland Coordinator).

Member, Fulbright Senior Specialists Program Discipline Peer Review Committee, April 2002 to present.

Member, Forestry/Wildlife Project Technical Working Group, Audubon New York, May 2002 to June 2003

Panel Member, USDA CSREES Managed Ecosystems Competitive Grants Program, May to August 2004.

Panel Member, USDA CSREES Managed Ecosystems Competitive Grants Program, April to June 2005.

Panel Manager (GS-15), USDA CSREES Managed Ecosystems Competitive Grants Program, November 2005 to present.

Member, National Technical Committee for Hydrophytic Vegetation (advisory committee to USACE), January 2007 to present.

Reviewer, proposals for USDA Competitive Grants Program, National Science Foundation, and McIntire-Stennis Forestry Grants (through SUNY-CESF).

Reviewer, manuscripts for *American Journal of Botany, American Midland Naturalist, Australian Journal of Botany, BioScience, Journal of the Torrey Botanical Society, Canadian Journal of Forest Research, Castanea, Conservation Biology, Ecology, Journal of Forestry, Journal of Soil and Water Conservation, Journal of Vegetation Science, Natural Areas Journal, Northern Journal of Applied Forestry, Plant Ecology,Wetlands*

**Community Service**

Invited to make about 20 presentations each year to a large variety of environmental and gardening groups throughout central New York.

Member, The Ontario Dune Coalition Technical Committee, January 1987 to December 1990.

Member, NYS-DEC Region 7 Land Acquisition Bond Act Advisory Committee, October 1987 to December 1989.

Member, NYS-DEC State Land Acquisition Bond Act Advisory Committee, January 1988 to December 1989.

Board of Trustees, Central and Western New York Chapter, The Nature Conservancy; member, October 1996 to present; Chair of Stewardship Committee, January 1997 to present; member, November 1991 to October 1992; Chair of Board, October 1989 to October 1991; Representative to State Board, May 1990 to October 1991; Vice-Chair of Board, October 1988 to September 1989; Chair of Stewardship Committee, October 1986 to 1989.

Board of Trustees, Council of Park Friends, Onondaga County, NY, January 1988 to present.

Member, Big Tree Committe, Big Tree Search in Onondaga County, March 1993 to present.

Member, NYS-DEC Labrador Hollow Unique Area and Nelson Swamp Unique Area Advisory Councils, June 1994 to present.

Member, NYS-DEC Split Rock Unit Management Team, March 1995 to present.

Event Judge for Tree-mendous, Regional Science Olympiad, LeMoyne College, March 1996 and 1997.

**Consulting**

Past contracts with: The Chazen Companies (Newburgh, NY); Blasland, Bouck & Lee, Inc. (Syracuse office); Environmental Design & Research, P.C. (Syracuse); Fisher, Porter, Masi, & Thomas (Englewood Cliffs, NJ); McMahon, Kublick, McGinty & Smith, P.C. (Syracuse); Niagara Mohawk Power Corporation (Syracuse); U.S. Army Corps of Engineers (Buffalo); O' Brien & Gere Engineers Inc. (Syracuse); NYS Attorney General's Office (Syracuse); Parsons (Liverpool, NY).

Technical reviewer for Franklin Watts Publishing Company, for various children's books (including *The Changing Forests*, *Why Water Plants Don't Drown*).

**Miscellaneous**

Contributor to "The Green Thumb", University of Kentucky College of Agriculture, Cooperative Extension Service, 1978 to 1980 (five articles related to ornamental trees).

Contributor to "News in a Nutshell", The Nature Conservancy - Central NY Chapter, 1989 to 1990 (two articles).

Contributed color photographs to *The Audubon Society Field Guide to North American Trees*, Eastern and Western Regions, Chanticleer Press, Inc., New York (some photographs also used for Audubon Society Habitat Series).

Photographer for: *Picture Guide to Tree Leaves. A First Book*, Franklin Watts/Children's Press, N.Y., 1990, 63 p.; *Picture Guide to State Trees. A First Book*, Franklin Watts/Children's Press, N.Y., 1992, 63 p.; *Picture Guide to State Flowers. A First Book*, Franklin Watts/Children's Press, N.Y., 1992, 64 p.; *A Forest's Life. From Meadow to Mature Woodland*, Franklin Watts/Children's Press, N.Y., 1997, 63 p.; *Our Living Forests*, Franklin Watts/Children's Press, N.Y., 1999.

Contributed color photographs to *Picture Guide to State Flowers. A First Book*, and *Picture Guide to Rare and Endangered Species. A First Book*; Franklin-Watts, Inc., N.Y., 1992.

Contributed color photographs to numerous other publications, e.g., *BioScience* (January 1995) cover; *Forested Wetlands. Functions, Benefits and the Use of Best Management Practices* (NA-PR-01-95); *The Adirondack Park in the Twenty First Century*.

Contributed all photographs (but two) to *Exploitably Vulnerable Plants of New York*, Sixth District Judges Council of the Federated Garden Clubs of New York, 1998, 27 p.