

## Roger Earl Latham: Curriculum Vitae

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### PROFESSIONAL EXPERIENCE

#### Ecologist/Conservation Biologist

*Continental Conservation, Rose Valley, Pennsylvania (2000–ongoing):*

Developing ecosystem stewardship plans, supervising implementation of adaptive management programs, and conducting research in ecosystem restoration and endangered species recovery. Specialties include: desired conditions analysis; design of field experiments and adaptive management monitoring programs; and statistical analysis of monitoring data and application of the results to solving management problems. Clients include the National Park Service, several states' natural resource agencies, and numerous nongovernmental organizations involved in wildland restoration and management.

#### Assistant Professor

*Department of Biology, Swarthmore College (1996–2000):*

Conducted research in restoration ecology and alternative persistent states in plant communities; taught courses and seminars in ecology and related subjects; supervised student research.

#### Post-doctoral Researcher

*Department of Geology, University of Pennsylvania (1992–1996):*

Directed an experimental research program on the ecology, biogeochemistry and conservation biology of fire-maintained shrubland and grassland ecosystems marked by exceptional clusters of rare species.

#### Director, Science and Stewardship; Stewardship Ecologist

*Pennsylvania Field Office, The Nature Conservancy (1988–1992):*

Planned and implemented management of a regional nature preserve system. Supervised assistants, interns, preserve stewards and volunteers. Developed preserve design, biological monitoring, restoration, and protection strategies for globally rare species and exemplary occurrences of natural communities.

#### Botanist/Field Investigator

*Pennsylvania Flora Project, Morris Arboretum, University of Pennsylvania (1982–1983):*

Located and documented populations of approximately 200 species of rare plants across eastern Pennsylvania as part of the multi-agency Pennsylvania Natural Diversity Inventory.

#### Naturalist/Environmental Planner

*Fahringer McCarty Grey, Inc., Pittsburgh (1973–1980):*

Collaborated in developing conservation management plans for large landholdings of state and federal government agencies and conservation organizations in five states.

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### EDUCATION

<b>Ph.D. in Biology</b>	University of Pennsylvania (1990) Thesis: Co-Occurring Tree Species Change Rank in Seedling Performance with Small-Scale Resource Variation (Advisor: Dr. Brenda B. Casper)
<b>B.A. in Biology</b>	Swarthmore College (1983)

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### PROFESSIONAL CERTIFICATION

Certified as Senior Ecologist, Ecological Society of America (1995)

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**RESEARCH SUPPORT**

Experimental Investigation of an Alternative Stable States Model and Grassland Restoration Methods on an Eastern Serpentine Barren (1997–2000). **Sources:** The Nature Conservancy/Andrew W. Mellon Foundation (\$59,000), Beneficia Foundation (\$10,000)

A G.I.S. Model of Succession and Restoration at the Pocono Till Barrens (1995–1996); Successional Pathways and Grassland Restoration Methods at Eastern Serpentine Barrens (1994–1996). **Source:** The Nature Conservancy (\$165,000)

Landscape Ecology, Biogeochemistry and Conservation Biology of the Pocono Plateau Bioreserve (1992–1994). **Source:** Andrew W. Mellon Foundation (\$198,000)

Co-Occurring Tree Species Change Rank in Seedling Performance with Small-Scale Resource Variation (dissertation; 1984–1987). **Sources:** National Science Foundation graduate research fellowship (\$68,000), dissertation research grant (\$5,000); Shell Foundation (\$1,300); Morris Arboretum fellowship (\$1,000); Sigma Xi (\$650); Pennsylvania Department of Environmental Resources (\$500)

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**PROFESSIONAL AND CIVIC SERVICE ACTIVITIES**

President, Pennsylvania Biological Survey (2015–2016)

Steering Committee, Pennsylvania Biological Survey (2005–ongoing)

Ecological Communities Technical Committee, Pennsylvania Biological Survey (2008–ongoing)

Steering Committee, Private Lands Plant Sanctuary Program, Pennsylvania Department of Conservation and Natural Resources (2008–ongoing)

Chair/Vice Chair, Environmental Advisory Council, Borough of Rose Valley, Pennsylvania (2008–ongoing)

Board of Trustees, Natural Lands Trust, Media, Pennsylvania (2008–2014)

Advisory Committee, Wild Resource Conservation Program, Pennsylvania Department of Conservation and Natural Resources (2007–2013)

Deer Management Forum, Audubon Pennsylvania and Pennsylvania Habitat Alliance (2001–2005)

Natural Areas Committee, Tyler Arboretum, Media, Pennsylvania (2000–ongoing)

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**TEACHING, MENTORING**

**Courses taught or co-taught** (1996–1999, Swarthmore College)

Biodiversity Seminar; Ecology; Organismal and Population Biology; Paleobiology Seminar; Senior Evolution Seminar; Senior Honors Study

**Graduate thesis advisor/collaborator/examiner (with dates of completion)**

Toby Liss, Ph.D., Conservation Biology. Ongoing. Can novel assemblages of stress-adapted plant species enhance green roof function? State University of New York College of Environmental Science and Forestry.

William Ryan, Ph.D., Wildlife Ecology. 2018. Serpentine barrens biodiversity metrics: initiating an adaptive management approach for the restoration of a globally rare ecosystem. University of Delaware.

Laura Siegwart, M.S., Biology. 2008. Does fire severity difference create divergent plant communities in black spruce – *Kalmia* forests of eastern Newfoundland? Lakehead University.

Dennis Gray, Ph.D., Biology. 2006. Low intensity prescribed fire and the fate of fire mobilized nutrients. Rutgers University.

Betsy Rich, Ph.D., Biology. 2004. Investigation of allelopathy in an invasive introduced tree species. Drexel University.

Jeffrey A. Klemens, Ph.D., Biology. 2003. Biomass allocation and growth of tropical dry forest tree seedlings across light and soil gradients. University of Pennsylvania.

- Anne W. Wibiralske, Ph.D., Geology. 2002. Comparison of nutrient capital between shrubland and forest and between Illinoian and Wisconsinan tills on the Pocono Plateau, Pennsylvania. University of Pennsylvania.
- Jeffrey P. Castelli, Ph.D., Biology. 2001. Negative mycorrhizal feedback and plant species coexistence in a serpentine grassland. University of Pennsylvania.
- Hazel Lafleur-Vetter, Ph.D., Ecopsychology. 2000. Re-membering who I am: the interactive process of untangling a consumer identity and developing an ecological identity. Union Institute.
- Keith R. Maurice, M.S., Geography. 2000. Landscape factors influencing vegetation persistence and transition rates in mesic till barrens, Pocono Plateau. West Chester University.
- Jon Sullivan, Ph.D., Biology. 2000. How the sapling specialist shoot-borer, *Cromarcha stroudagnesia* (Lepidoptera, Pyralidae, Chrysauginae), alters the population dynamics of the Costa Rican dry forest tree *Tabebuia ochracea* (Bignoniaceae). University of Pennsylvania.
- James F. Cahill Jr., Ph.D., Biology. 1997. Symmetry, intensity, and additivity: belowground interactions in an early successional field. University of Pennsylvania.
- Catherine Rees, M.S., Environmental Studies. 1997. Fire and *Pinus rigida* rock outcrop communities of the northern Shawangunk Mountains (New York). Bard College.
- Karen Borza Arabas, Ph.D., Geography. 1996. Fire and vegetation dynamics in the eastern serpentine barrens. Pennsylvania State University.
- Laura Hyatt, Ph.D., Biology. 1996. Seed bank dynamics in a temperate zone deciduous forest. University of Pennsylvania.
- John E. Thompson, M.S., Geology. 1995. Interrelationships among vegetation dynamics, fire, surficial geology, and topography of the southern Pocono Plateau, Pennsylvania. University of Pennsylvania.
- Colin A. Maclachlan, M.L.A. 1994. Nottingham County Park: the restoration and management of a temperate eastern serpentine barrens. University of Georgia.

#### **Undergraduate research thesis advising/supervision (with dates of completion)**

- Abby Fullem, B.S., Geology. 2016. A soil survey and analysis of “serpentinicity” at Unionville Serpentine Barrens, Chester County, Pennsylvania, or, Why is my serpentine barren? Haverford College.
- Amanda Schneider, B.A., Biology (Honors). 2002. Inhibition of forest trees in the Pocono barrens: the role of organic chemicals. Swarthmore College.
- Anna Sugden-Newbery, B.A., Biology (Honors, Swarthmore College). 1999. Landscape-scale influences on the Pocono till barrens’ persistence. Swarthmore College.
- Georgine Yorgey, B.A., Biology (Honors). 1999. Nitrogen availability and native plants’ nutrient responses in the heath barrens and surrounding forests of the Pocono Plateau, Pennsylvania. Swarthmore College.
- Andrew Caffrey, B.A., Biology (Honors). 1999. Predicting the outcome of two-species competition in bacteria using a modification of Gause’s model. Swarthmore College.
- Ethan Friedman, B.A., Biology (Honors). 1999. Beetle biodiversity in northern Piedmont serpentine barrens. Swarthmore College.
- Wendy Lawrence, B.A., Biology (Honors). 1999. the role of ericoid mycorrhizae in the ecosystem dynamics of the Pocono till barrens and surrounding forest. Swarthmore College.
- Robert Eberhardt, B.A., Biology (Honors). 1998. mesic pine barrens: plant community-soil water relations on the southern Pocono Plateau, northeastern Pennsylvania. Swarthmore College.
- Susannah McCandless, B.A., Biology (Honors). 1998. Invasive *Smilax rotundifolia* associated with changes in serpentine soil syndrome. Swarthmore College.
- Eric Dubinsky, B.S., Biology. 1995. The interdependence of soil depth and vegetation type in eastern temperate serpentine barrens. University of Pennsylvania.
- Sarah A. Riley, B.S., Geology. 1994. Ordinal analysis of the vegetation of the Pocono barrens. University of Pennsylvania.

**INVITED SYMPOSIUM PRESENTATIONS**

- “World-class ecosystem with a heart of stone: what the Piedmont serpentine barrens reveal about continental collision, extinct megafauna, ancient cultures, and the origin of life!” Annual Joint Field Meeting, Botanical Society of America, Philadelphia Botanical Club, and Torrey Botanical Club, Millersville University (2018).
- “Land Stewardship from a Water Resource Perspective.” Delaware River Watershed Forum (2017).
- “Pink Hill: restoring and sustaining the Tyler Arboretum’s ancient grassland.” Land Ethics Symposium (2016).
- “World-class ecosystem with a heart of stone: what the Piedmont serpentine barrens reveal about continental collision, extinct megafauna, ancient customs, and more.” Irvine Nature Center Native Plant Seminar (2015); Maryland Native Plant Society annual meeting (2014).
- “Forests Too Deer: How Today's Record High Deer Population Affects Ecosystems, Biodiversity and Quality of Life.” Gordon Natural Area Seminar, West Chester University (2009)
- “Paleo- and Present-Day Ecology of Fire-Maintained Ecosystems in Pennsylvania.” Fire in Pennsylvania Conference, State College (2008).
- “All Meadows Aren’t Created Equal: a Diversity of Meadow Communities.” New Directions in the American Landscape Symposia, Connecticut College, Villanova University (2008).
- “Native grasslands and meadows in Pennsylvania: their history and current condition.” Land Ethics Symposium (2007); plenary address, Eastern Native Grass Symposium (2006); Pennsylvania Grasslands Workshop (2005).
- “Shrubland Longevity and Rare Plant Species in the Northeast.” Early-Successional Forests and Shrubland Habitats in the Northeastern United States: Critical Habitats Dependent on Disturbance, University of New Hampshire, Durham (2002).
- “Using G.I.S. as a Bridge from ‘Pure’ Science to Designing, Protecting, Restoring and Managing the Southern Pocono Bioserve.” Plenary address, Society for Conservation Biology Delaware Valley Chapter Annual Meeting (1998).
- “Fire Ecology and the Art and Science of Biological Restoration.” Ecology and Conservation in the Philadelphia Region, Villanova University and Natural Lands (1995).
- “G.I.S. Applications in Biological Hypothesis Testing and Biodiversity Conservation Planning.” An Open Seminar on Geographic Information Systems, University of Pennsylvania (1995).
- “A Case Study in Conservation Biology: Understanding Process and Function in a High-Priority Ecosystem.” Training seminar presented to scientists and engineers from Tyumen Oblast, Russia, Institute for Environmental Studies, University of Pennsylvania (1994).
- “Research in Ecology and Conservation Biology in Pennsylvania’s Serpentine Barrens and Glacial Till Barrens.” Annual Joint Field Meeting, Botanical Society of America, Philadelphia Botanical Club, and Torrey Botanical Club, Millersville University (1993).
- “The Serpentine Barrens of Temperate Eastern North America: Critical Issues in the Management of Rare Species and Communities.” Rare Plants of Pennsylvania and Adjacent States, Morris Arboretum, (1991).

**OTHER INVITED LECTURES, SEMINARS, FIELD COURSE SESSIONS**

- 2007–2018: Torrey Botanical Society; Pennsylvania Botany Symposium (twice); University of Pennsylvania Restoration Ecology course; Muhlenberg Botanical Club; Lakehead University, Department of Biology seminar; Delaware County Institute of Science (twice); Rotary Club; Willistown Conservation Trust annual members’ banquet
- 2000–2006: Brandywine Conservancy; Philadelphia Botanical Club; Swarthmore College, Department of Religion; Tyler Arboretum annual members’ banquet; Millersville University, Department of Biology; University of Pennsylvania, Institute for Environmental Studies; Native Plants in the Landscape Conference; Swarthmore College, Department of English

1996–1999: Henry Foundation for Botanical Research; Philadelphia Botanical Club; Allegheny Society of American Foresters; Lehigh University, Research Experience for Undergraduates Program; Native Plants in the Landscape Conference; McLean Series Symposium, “Our Dynamic Environment”; Society for Ecological Restoration Annual Meeting; Villanova University, Department of Biology; University of Pennsylvania, Department of Biology; University of Pennsylvania, Department of Geology; Philadelphia Botanical Club

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## PROFESSIONAL SOCIETIES

American Institute of Biological Sciences	Natural Areas Association	Society for Ecological Restoration
Ecological Society of America	Sigma Xi	Union of Concerned Scientists
	Society for Conservation Biology	

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## AWARDS

Environmental Leadership Award, Chester-Ridley-Crum Watersheds Association (2014)  
 Science Award, The Nature Conservancy, Pennsylvania Chapter (1999)

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## EDITORIAL WORK

### Journal Editor

Guest Editor of special issue of *Natural Areas Journal*: Land Stewardship from a Water Resource Perspective (2017-2019)

Editor of *Bartonia: Journal of the Philadelphia Botanical Club* (1999–2007)

### Peer reviewer for professional journals, organizations and agencies

<i>American Journal of Botany</i>	<i>Journal of Applied Ecology</i>	<i>Northeastern Naturalist</i>
<i>American Midland Naturalist</i>	<i>Journal of Ecology</i>	<i>Oecologia</i>
<i>American Naturalist</i>	<i>Journal of the Torrey Botanical Society</i>	Pennsylvania Wild Resource Conservation Program
<i>Annals of Botany</i>	<i>Journal of Vegetation Science</i>	<i>Plant Ecology</i>
<i>Australian Journal of Ecology</i>	<i>Mitteilungen der Eidgenössischen Forschungsanstalt für Wald, Schnee und Landschaft</i>	<i>Restoration Ecology</i>
<i>Bartonia</i>	National Science Foundation	U.S. E.P.A., National Health and Environmental Effects Laboratory
<i>Diversity and Distributions</i>	Natural Sciences and Engineering Research Council of Canada	U.S. Department of Defense, Strategic Environmental Research and Development Program (SERDP)
<i>Ecography</i>	<i>Natural Areas Journal</i>	<i>Sustainability</i>
<i>Ecology</i>	New Hampshire Agricultural Experiment Station	
<i>Ecology Letters</i>		
<i>Environmental Practice</i>		
<i>Forest Ecology and Management</i>		
<i>Forestry</i>		

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## SELECTED PUBLICATIONS

### Peer-reviewed volume

Latham, R. E. (ed.), J. Beyea, M. Benner, C. A. Dunn, M. A. Fajvan, R. R. Freed, M. Grund, S. B. Horsley A. F. Rhoads and B. P. Shissler. 2005. *Managing White-tailed Deer in Forest Habitat from an Ecosystem Perspective: Pennsylvania Case Study*. Audubon Pennsylvania and the Pennsylvania Habitat Alliance, Harrisburg. 340 pp. ([pa.audubon.org/managing-white-tailed-deer-forest-habitat-ecosystem-perspective](http://pa.audubon.org/managing-white-tailed-deer-forest-habitat-ecosystem-perspective))

### Peer-reviewed journal articles and book chapters

deCalesta, D., R. Latham and K. Adams. 2016. Managing deer impacts on oak forests. Pages 261-277 in P. D. Keyser, T. Fearer and C. A. Harper (eds.), *Managing Oak Forests in the Eastern United States*, CRC Press, Boca Raton, Florida.

Latham, R. E., D. Zercher, P. McElhenny, P. Mooreside and B. Ferster. 2007. Habitat restoration and management for the eastern regal fritillary, *Speyeria idalia idalia* (Drury), at a military installation in Pennsylvania. *Ecological Restoration* **25**: 103-111.

- Gustafson, D. J. and R. E. Latham. 2005. Is the serpentine aster, *Symphotrichum depauperatum* (Fern.) Neesom, a valid species and actually endemic to eastern serpentine barrens? *Biodiversity and Conservation* **14**: 1445-1452.
- Wibiralske, A. W., R. E. Latham and A. Johnson. 2004. A biogeochemical analysis of the Pocono till barrens and adjacent hardwood forest underlain by Wisconsinan and Illinoian till in northeastern Pennsylvania. *Canadian Journal of Forest Research* **34**: 1819-1832.
- Maurice, K. R., J. M. Welch, C. P. Brown and R. E. Latham. 2004. Mesic till barrens in retreat: topography, fire and forest contagion effects. *Landscape Ecology* **19**: 603-620.
- Latham, R. E. 2003. Shrubland longevity and rare plant species in the northeastern USA. *Forest Ecology and Management* **185**: 21-39.
- Gustafson, D. J., G. Romano, R. E. Latham and J. Morton. 2003. Amplified fragment length polymorphism analysis of genetic relationships among the serpentine barrens endemic *Cerastium velutinum* Rafinesque var. *villosissimum* Pennell (Caryophyllaceae) and closely related *Cerastium* species. *Journal of the Torrey Botanical Society* **130**: 218-223.
- Eberhardt, R. W. and R. E. Latham. 2000. Relationships among vegetation, surficial geology and soil water content at the Pocono mesic till barrens. *Journal of the Torrey Botanical Society* **127**: 115-124.
- Castelli, J. P., J. Sullivan, B. B. Casper and R. E. Latham. 1999. Early understory succession following catastrophic wind damage in a deciduous forest. *Canadian Journal of Forest Research* **29**: 1-6.
- Petraitis, P. S. and R. E. Latham. 1999. The importance of scale in testing the origins of alternative community states in ecosystems. *Ecology* **80**: 429-442.
- Ricklefs, R. E., R. E. Latham and H. Qian. 1999. Global patterns of tree species richness in moist forests: distinguishing ecological influences and historical contingency. *Oikos* **86**: 369-373.
- Latham, R. E., J. E. Thompson, S. A. Riley and A. W. Wibiralske. 1996. The Pocono till barrens: shrub savanna persisting on soils favoring forest. *Bulletin of the Torrey Botanical Club* **123**: 330-349.
- Ricklefs, R. E., M. T. Kalin-Arroyo, R. E. Latham, T. M. Lewinsohn, D. J. Lodge, N. I. Platnick and D. Wright. 1995. The distribution of biodiversity. Pages 139-173 in V. H. Heywood (ed.), *Global Biodiversity Assessment*, Cambridge University Press for United Nations Environmental Programme.
- Latham, R. E. and R. E. Ricklefs. 1993. Continental comparisons of temperate-zone tree species diversity. Pages 294-314 in R. E. Ricklefs and D. Schluter (eds.), *Species Diversity in Ecological Communities: Historical and Geographical Perspectives*, University of Chicago Press.
- Latham, R. E. and R. E. Ricklefs. 1993. Global patterns of tree species richness in moist forests: energy-diversity theory does not account for variation in species richness. *Oikos* **67**: 325-333.
- Ricklefs, R. E. and R. E. Latham. 1993. Global patterns of diversity in mangrove floras. Pages 215-229 in R. E. Ricklefs and D. Schluter (eds.), *Species Diversity in Ecological Communities: Historical and Geographical Perspectives*, University of Chicago Press.
- Latham, R. E. 1992. Co-occurring tree species change rank in seedling performance with resources varied experimentally. *Ecology* **73**: 2129-2144.
- Ricklefs, R. E. and R. E. Latham. 1992. Intercontinental correlation of geographical ranges suggests stasis in ecological traits of relict genera of temperate perennial herbs. *American Naturalist* **139**: 1305-1321.
- Petraitis, P. S., R. E. Latham and R. A. Niesenbaum. 1989. The maintenance of species diversity by disturbance. *Quarterly Review of Biology* **64**: 393-418.

### Other publications

- Latham, R. E. and W. J. Ryan III. 2016. *Unionville Serpentine Barrens Restoration and Management Plan: 2016–2020 Update*. 59 pp. Continental Conservation, Rose Valley, Pennsylvania and Natural Lands, Media, Pennsylvania. 59 pp.
- Latham, R. E. 2015. *Survey of Wetland Plant Species of Conservation Concern at the Hopewell Furnace National Historic Site*. Continental Conservation, Rose Valley, Pennsylvania for the National Park Service, Elverson, Pennsylvania. 27 pp.

- Latham, R. E. and M. McGeehin. 2012. *Unionville Serpentine Barrens Restoration and Management Plan*. Continental Conservation, Rose Valley, Pennsylvania and Natural Lands, Media, Pennsylvania. 157 pp. + 10 maps.
- Latham, R. E. 2011. *Desired Condition of Grasslands and Meadows in Valley Forge National Historical Park*. Natural Resource Report NPS/NER/VAFO/NRTR—2011. National Park Service, Philadelphia, Pennsylvania. 270 pp.
- Latham, R. E. (ed.), M. D. Grund, S. B. Horsley, B. C. Jones, W. H. McWilliams, C. K. Nielsen, C. S. Rosenberry, R. S. Seymour, B. P. Shissler and D. M. Waller. 2009. *Monitoring Deer Effects on Forest Ecosystems in Pennsylvania State Forests*. Pennsylvania Department of Conservation and Natural Resources, Bureau of Forestry, Harrisburg. 49 pp.
- Latham, R. E. 2008. *Pink Hill Serpentine Barrens Restoration and Management Plan*. John J. Tyler Arboretum, Media, Pennsylvania, and Mt. Cuba Center, Greenville, Delaware. 87 pp.
- Steckel, D. B., H. M. Harper, R. Latham, S. Charkes and A. F. Rhoads. 2008. *Stewardship Handbook for Natural Lands in Southeastern Pennsylvania*. Natural Lands, Media, Pennsylvania. 222 pp.
- Furedi, M. A., R. Latham, T. Davis and G. Podniesinski. 2008. *Management Plan for Goat Hill Wild Plant Sanctuary*. Pennsylvania Department of Conservation and Natural Resources, Harrisburg. 49 pp.
- Latham, R. and J. F. Thorne. 2007. *Keystone Grasslands: Restoration and Reclamation of Native Grasslands, Meadows, and Savannas in Pennsylvania State Parks and State Game Lands*. For the Wild Resource Conservation Program, Pennsylvania Department of Conservation and Natural Resources, Harrisburg. 100 pp.
- Latham, R. E., D. B. Steckel, H. M. Harper, C. Steckel and M. Boatright. 2007. *Lehigh Gap Wildlife Refuge Ecological Assessment*. For the Lehigh Gap Nature Center, Slatington, Pennsylvania, by Natural Lands Trust, Media, Pennsylvania, Continental Conservation, Rose Valley, Pennsylvania, and Botanical Inventory, Allentown, Pennsylvania. 62 pp. + 8 maps, 5 appendices.
- Latham, R. and A. F. Rhoads. 2006. The historical flora of Wykers Island in the Delaware River, Bucks County, Pennsylvania, from the 1884 to 1887 botanical notes of John and Harvey Ruth. *Bartonia* **63**: 29-47.
- Latham, R. 2006. Smart Conservation's™ plant community module: a tool for rapid quality-assessment of natural communities by non-experts. Pages 139-146 in R. B. McKinstry, Jr., C. M. Ripp and E. Lisy (eds.), *Biodiversity Conservation Handbook: State, Local and Private Protection of Biological Diversity*, Environmental Law Institute, Washington, D.C.
- Moyer, B., B. Shissler and R. Latham. 2006. Deer, communities and quality of life. Ecosystem Management Project, Fort Hill, Pennsylvania. 8 pp.
- Latham, R. 2005. Protecting the Unionville Barrens: biological, historical and value considerations. Brandywine Conservancy, Environmental Management Center, Chadds Ford, Pennsylvania. 30 pp.
- Latham, R. E. 2004. [Book review of] *Measuring Biological Diversity*, by Anne E. Magurran. *Journal of Vegetation Science* **15**: 854-856.
- Latham, R. E., D. B. Steckel, H. M. Harper and D. C. Rosencrance. 2003. *Conservation and Stewardship Plan for the Crum Woods of Swarthmore College*. For Swarthmore College, Swarthmore, Pennsylvania by Natural Lands, Media, Pennsylvania and Continental Conservation, Rose Valley, Pennsylvania. 138 pp. + 19 maps, 12 appendices.
- Latham, R. E. 2002. Inventory of the current state of scientific knowledge on biodiversity in Pennsylvania. Pennsylvania Biodiversity Partnership, Pittsburgh. 70 pp.
- Latham, R. 2000. Friendly fire: foresters learn from natural burn [editorial]. *Patriot-News*, Harrisburg, Pennsylvania.
- Latham, R. 2000. Fighting fire with fire saves forest: good management techniques can help to prevent the kind of blazes now charring the West [editorial]. *Sunday News*, Lancaster, Pennsylvania.
- Latham, R. 2000. Good forest management will curb catastrophic fires [editorial]. *Pocono Record*, Stroudsburg, Pennsylvania.

- Latham, R. E. 2000. The Crum Woods in peril: toward reversing the decline of an irreplaceable resource for learning, research, recreation and reflection [white paper]. 18 pp. + map. Swarthmore College, Pennsylvania.
- Latham, R. 1999. [Book review of] Ed Ayres '63, *God's Last Offer: Negotiating for a Sustainable Future*. *Swarthmore College Bulletin* **97**(2): 48.
- Latham, R. E. 1993. The serpentine barrens of temperate eastern North America: critical issues in the management of rare species and communities. *Bartonia* **57** Suppl.: 61-74 (*Proceedings of the Symposium on Rare Plants of Pennsylvania and Adjacent States*, 28 March 1991, Philadelphia).

### **Journal manuscripts in preparation/review**

- Fullem, A. K., W. J. Ryan III, A. F. Plante and R. E. Latham. Effect of small-scale variation in soils and topography on serpentine grassland succession after tree canopy removal.
- Hahn, G., T. A. Coates, R. E. Latham and A. T. Chow. Prescribed fire effects on water quality and freshwater ecosystems in moist-temperate eastern North America. *Natural Areas Journal* (in review).
- Latham, R. E., L. S. Craig, D. J. Van Abs et al. Freshwater outcomes of stewarding land: challenges of sustaining high water quality and sufficient quantity for viable, native aquatic ecosystems and human use. *Natural Areas Journal* (in review).
- Latham, R. E. and W. J. Ryan III. Decline and restoration of eastern serpentine grasslands: a review.
- Latham, R. E., J. F. Thorne and J. A. Frischle. Understanding successional pathways after experimental treatments to restore and conserve eastern North American serpentine grassland.
- Ryan, W. J. III and R. E. Latham. Serpentine barrens desired condition metrics: an adaptive management approach to the restoration and maintenance of a globally rare ecosystem.

### **Research presentations at professional meetings**

- Latham, R. E. 2006. Native grasslands and meadows in Pennsylvania: their history and current condition. Society for Ecological Restoration International, Mid-Atlantic Chapter Conference, Philadelphia.
- Latham, R. E. 2005. Indicators of forest ecosystem responses to varied density of white-tailed deer. Society for Conservation Biology, Delaware Valley Chapter Annual Meeting, Glassboro, New Jersey.
- Zercher, D., J. Thorne, A. Davis and R. Latham. 2001. Research on the last viable population of *Speyeria idalia* butterfly in its eastern range. Society for Conservation Biology Annual Meeting, Hilo, Hawaii.
- Maurice, K. R., J. M. Welch, C. P. Brown and R. E. Latham. 1999. Till barrens to forest: topography, fire, and forest contagion effects. Association of American Geographers, Middle States Division Annual Meeting, West Chester, Pennsylvania.
- Sugden-Newbery, A. and R. E. Latham. 1999. Landscape-scale influences on the Pocono till barrens' persistence. Society for Conservation Biology, Delaware Valley Chapter Annual Meeting, Glassboro, New Jersey.
- Yorgey, G. and R. E. Latham. 1999. Nitrogen availability and native plants' nutrient responses in the heath barrens and surrounding forests of the Pocono Plateau, Pennsylvania. Society for Conservation Biology, Delaware Valley Chapter Annual Meeting, Glassboro, New Jersey.
- Eberhardt, R. W. and R. E. Latham. 1998. Mesic barrens: community moisture relations on the southern Pocono Plateau, Monroe County, PA. Society for Conservation Biology, Delaware Valley Chapter Annual Meeting, West Chester, Pennsylvania.
- McCandless, S. R. and R. E. Latham. 1998. Invasion of the Nottingham serpentine barrens by the liana *Smilax rotundifolia*, I: soil nitrogen modification. Society for Conservation Biology, Delaware Valley Chapter Annual Meeting, West Chester, Pennsylvania.
- Latham, R. E., J. E. Thompson and P. Stoll. 1997. Interactive effects of geology, topography and fire history on vegetation change in an endangered-species-rich landscape. Ecological Society of America and the Nature Conservancy Joint Annual Meeting, Albuquerque, New Mexico.



- Latham, R. E. and J. F. Thorne. 1997. Understanding successional trajectories to conserve serpentine grasslands. Ecological Society of America and the Nature Conservancy Joint Annual Meeting, Albuquerque, New Mexico.
- Wibiralske, A. W., A. Johnson and R. E. Latham. 1997. Exchangeable Ca, Mg, K do not differ in soils forming in Wisconsinan and Illinoian tills on the Pocono Plateau in northeastern Pennsylvania. Ecological Society of America and the Nature Conservancy Joint Annual Meeting, Albuquerque, New Mexico.
- Wibiralske, A. W., A. Johnson and R. E. Latham. 1997. Soils forming on Wisconsinan and pre-Wisconsinan tills on the Pocono Plateau in northeastern Pennsylvania do not differ in plant-available macronutrients. Geological Society of America Annual Meeting, Salt Lake City, Utah.
- Wibiralske, A. W., A. Johnson and R. E. Latham. 1996. Pocono till barrens soils do not differ in labile nutrient capital from adjacent hardwood forest soil. Ecological Society of America Annual Meeting, Providence, Rhode Island.
- Wibiralske, A. W., A. Johnson and R. E. Latham. 1996. An interdisciplinary approach to biodiversity conservation on the Pocono Plateau in northeastern Pennsylvania. Geological Society of America Annual Meeting, Denver, Colorado.