

Curriculum Vitae

CHRISTINE J. SMALL, Ph.D.

CONTACT INFORMATION

Department of Biology
Radford University
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PROFESSIONAL EXPERIENCE

Associate Professor of Biology. 2007 to present. Department of Biology, Radford University, Radford, Virginia

Assistant Professor of Biology. 2005-2007. Department of Biology, Radford University, Radford, Virginia

Assistant Professor of Botany. 2001-2005. Department of Botany, Connecticut College, New London, Connecticut

EDUCATION

Doctor of Philosophy, Environmental and Plant Biology, *Summa cum Laude.* 2001. Ohio University, Athens, Ohio. Dissertation: Herbaceous Layer Dynamics and Disturbance Response in Mixed Mesophytic Forests of Southeastern Ohio. Advisor: Dr. Brian McCarthy

Master of Science, Botany, *Summa cum Laude.* 1996. North Carolina State University, Raleigh, North Carolina. Thesis: Characterization of Montane Cedar-Hardwood Woodlands in the Piedmont and Southern Blue Ridge Provinces of North Carolina. Minor: Soil Science. Advisor: Dr. Thomas Wentworth

Bachelor of Science, Biology, *Summa cum Laude.* 1993. Christopher Newport College, Newport News, Virginia

TEACHING EXPERIENCE

Radford University, Radford, Virginia (2005-present)

Field Botany (Biology 476)
Plants & Society / General Botany (Biology 215)
General Biology I & II (Biology 121 & 122)
Human Biology (Biology 104)
Environmental Biology (Biology 103)
Introductory Seminar in Biology (Biology 160)

Connecticut College, New London, Connecticut (2001-2005)

Plant Community Response to Disturbance and Environmental Change Seminar (Botany 391)
Ecology of Terrestrial and Wetland Plant Communities (Botany 315)
Systematic Botany and the Local Flora (Botany 225)
General Ecology (Biology 207)
Introductory Botany (team-taught; Botany 112/Botany 200)

Ohio University, Athens, Ohio (1997-2001)

Quantitative Methods in Biology (teaching assistant, guest lecturer)
Plant Systematics (teaching assistant)
Trees and Shrubs (teaching assistant, guest lecturer)
Wildflowers (teaching assistant, guest lecturer)
Introduction to Plant Biology (laboratory instructor)
Introductory Biology (laboratory instructor)
World of Plants (laboratory instructor)

North Carolina State University, Raleigh, North Carolina (1994-1996)

Introductory Botany (laboratory instructor)
Introductory Ecology (laboratory instructor)

Duke University, Durham, North Carolina (1993)

Advanced Soil Science (teaching assistant, laboratory instructor, guest lecturer)

Christopher Newport University, Newport News, Virginia (1991-1993)

Introductory Biology (Supplemental Instruction Leader)
Introductory Soils (teaching assistant)
General Chemistry (teaching assistant)

PEER-REVIEWED PUBLICATIONS (*Undergraduate student researcher)

Small, C.J. (In prep.). Long-term Vegetation Changes in a Southern New England Forest.

Small, C.J. and Hargbol*, B. (In prep.). Allelopathic Effects of the Non-Native Invasive Tree of Heaven (*Ailanthus altissima*).

Small, C.J. and McCarthy, B.C. (In prep.). Seed Bank Composition in Mature and Aggrading Central Appalachian Mixed Oak Forests.

Francl, K.E., Faidley*, C.R., and **Small, C.J.** (In review). Salamander Use of Karst Sinkholes in Montgomery County, Virginia. *Southeastern Naturalist*.

Kelly*, A.B, **Small, C.J.**, and Dreyer, G.D. (In review). Vegetation and Distribution of Invasive Plant Species in Natural Areas of Southern New England. *Journal of the Torrey Botanical Society*.

Small, C.J. 2007. Plant & Algal Productivity in the Radford University Stormwater Treatment Wetland. Biology Laboratory Curriculum Module, RU Stormwater Remediation Wetland Project, National Science Foundation Curriculum Adaptation and Implementation Grant. <http://www.radford.edu/~biol-web/wetland%20website/modules.htm>.

Small, C.J. 2006. A Comprehensive Review of *Herbaceous Layer Ecology* [book review]. *Diversity and Distributions* 12: 222-223.

- Small, C.J.** and McCarthy, B.C. 2005. Relationship of Understory Diversity to Soil Nitrogen, Topographic Variation, and Stand Age in an Eastern Oak Forest, USA. *Forest Ecology and Management* 217: 229-243.
- Small*, M.J., **Small, C.J.**, and Dreyer, G.D. 2005. Changes in Hemlock-Dominated Forests Following Woolly Adelgid Infestation in Southern New England. *Journal of the Torrey Botanical Society* 132: 458-470.
- Lundgren*, M.R., **Small, C.J.**, and Dreyer, G.D. 2004. Influence of Land Use and Site Characteristics on Invasive Plant Abundance in the Quinebaug Highlands of Southern New England. *Northeastern Naturalist* 11: 313-332.
- Small, C.J.** and McCarthy, B.C. 2003. Spatial and Temporal Variability of Herbaceous Vegetation in an Eastern Deciduous Forest. *Plant Ecology* 164: 37-48.
- Small, C.J.** and McCarthy, B.C. 2002. Effects of Simulated Post-Harvest Light Availability and Soil Compaction on Deciduous Forest Herbs. *Canadian Journal of Forest Research* 32: 1753-1762.
- Small, C.J.** and McCarthy, B.C. 2002. Spatial and Temporal Variation in the Response of Understory Vegetation to Disturbance in a Central Appalachian Oak Forest. *Bulletin of the Torrey Botanical Society* 129: 136-153.
- Small, C.J.** and McCarthy, B.C. 2001. Vascular Flora of the Waterloo Wildlife Research Station, Athens County, Ohio. *Castanea* 66: 363-382.
- McCarthy, B.C., **Small, C.J.**, and Rubino, D.L. 2001. Composition, Structure, and Dynamics of Dysart Woods, an Old-Growth Mixed Mesophytic Forest of Southeastern Ohio. *Forest Ecology and Management* 140: 193-213.
- Small, C.J.** and Wentworth, T.R. 1998. Characterization of Montane Cedar-Hardwood Woodlands in the Piedmont and Southern Blue Ridge Provinces of North Carolina. *Castanea* 63: 241-261.

OTHER PUBLICATIONS

- Small, C.J.** 2004. The Passion-Flower and *Heliconius* Butterfly. *Newsletter of the Connecticut Botanical Society* 32 (2): 6-8.
- Small, C.J.** 2003. What Has Become of Scrophulariaceae (the Figwort family)? *Newsletter of the Connecticut Botanical Society* 31 (2): 8-9.
- Small, C.J.** 2002. A New Link to the Origins of Angiosperms. *Newsletter of the Connecticut Botanical Society* 30 (3): 11.
- Small, C.J.** 2002. A New Link to the Origins of Angiosperms. *Chinquapin, The Newsletter of the Southern Appalachian Botanical Society* 10 (4): 29.
- Small, C.J.** 2002. An Editorial Review of the *Flora of the Northeast: A Manual of the Vascular Flora of New England and Adjacent New York* by Magee and Ahles. *Newsletter of the Connecticut Botanical Society* 30 (1-2): 9.
- Small, C.J.** 2002. Dynamic Fields and Forests: Reflections on Summer Research. *Environmental Connections, Newsletter of the Goodwin-Niering Center for Conservation Biology and Environmental Studies at Connecticut College*. Fall: 1,3.
- Small, C.J.** 2002. Giant Hogweed (*Heracleum mantegazzianum*) in Connecticut. *Newsletter of the Connecticut Botanical Society* 30 (3): 10.
- Small, C.J.** 2002. Giant Hogweed in Connecticut. *Chinquapin, The Newsletter of the Southern Appalachian Botanical Society* 10(4): 28.

GRANTS (*Undergraduate student researcher)

2009. National Science Foundation Research in Undergraduate Institutions Grant. Karst sinkholes: historical and contemporary refugia for biodiversity? (co-authored by K. Francl and R. Sheehy). \$346,899 (proposal in review).
2009. USDA Forest Service, Southern Research Station. Sustainable harvesting of black cohosh (*Actaea racemosa*). \$1,100.
- 2008-2009. Virginia Academy of Science Small Project Research Grant. Classification of the ecological communities of the Selu Conservancy, Montgomery County, Virginia. \$1,240.
- 2008-2009. Faculty-Student Collaborative Grant, Radford University. Classification of the ecological communities of the Selu Conservancy (co-authored by D. Mathews* and B. Meyer*). \$750.
2008. Seed Grant, Radford University. Learning Beyond the Classroom: Integrating multidisciplinary natural history investigations of southwestern Virginia into the undergraduate curriculum (co-authored by K.E. Francl). \$27,946.
2008. Faculty Summer Scholarship Grant, Radford University. Classification of the ecological communities of the Selu Conservancy, Montgomery County, Virginia. \$5,000.
- 2007-2008. Faculty-Student Collaborative Grant, Radford University. Habitat use by small mammals in natural areas of southwestern Virginia (co-authored by K. Francl, M. Baisey*, A. Helton, W. Munsey*). \$750.
2007. Faculty Summer Scholarship Grant, Radford University. Vegetation and small mammal communities of the Selu Conservancy, Montgomery County, Virginia. \$14,399.
- 2006-2007. Faculty-Student Collaborative Grant, Radford University. Relationship of site conditions and land-use history to the distribution of non-native invasive plant species in southwestern Virginia (co-authored by L. Clement*, B. Hargbol*, E. McIntyre*, and R. Conner*). \$750.
2006. Faculty Summer Scholarship Grant, Radford University. Distribution of non-native invasive plant species in natural areas of the Selu Conservancy. \$5,190.
2006. Grant Supporting Faculty Reassigned Time, Radford University. Geographic Information Systems (GIS) mapping of invasive plant species at the Selu Conservancy. (1 course release).
- 2005-2006. American Association for University Women (AAUW) Educational Foundation Short-Term Research Publication Grant. \$6,000 (not funded).
2004. Andrew W. Mellon Foundation, Student Faculty Research Partnership Grant. Vascular flora of the West Farms Land Trust Avery Tract, Waterford, Connecticut. \$3,000.
2004. Center for Teaching and Learning, Connecticut College. Workshop Development grant, Teaching Scientific Writing (co-authored by L. Cornick). \$2,000.
2004. Connecticut Department of Environmental Protection. The use of prescribed burning in the restoration and maintenance of a regionally rare Pitch Pine Sand Plain ecosystem, Hopeville Pond State Park, Griswold, Connecticut. \$1,000.
2004. Hodgkins Faculty Support Fund, Connecticut College. Geographic Information Systems Across the Curriculum, Middlebury College, Vermont (Workshop attendance / travel grant). \$301.
2004. National Oceanic and Atmospheric Administration (NOAA) Restoration Center. Ecological and physical effects of the removal of two low head dams (co-authored by M. Carabetta (lead), J. Turek, and L. Wildman). \$80,260.

2004. R.F. Johnson Faculty Development Fund, Connecticut College. Fifty years of vegetation change in the Connecticut College Arboretum (presentation grant, Ecological Society of America). \$1,200.
2003. Connecticut Chapter of the Nature Conservancy. Impacts of white-tailed deer and invasive non-native plant species on the natural vegetation of the Burnham Brook Preserve, East Haddam, Connecticut. \$1,000.
2003. Connecticut Department of Environmental Protection. The use of prescribed burning in the restoration and maintenance of a regionally rare Pitch Pine Sand Plain ecosystem, Hopeville Pond State Park, Griswold, Connecticut. \$1,000.
2003. Hodgkins Faculty Support Fund, Connecticut College. Conservation and Research Foundation Annual Meeting, Shelburne, Vermont (Domestic travel grant). \$300.
2003. R.F. Johnson Faculty Development Fund, Connecticut College. Publication grant: Influence of land use and site characteristics on invasive plant abundance in the Quinebaug Highlands of southern New England, *The Northeastern Naturalist*. \$750.
2003. Rhode Island Chapter of The Nature Conservancy / Connecticut Chapter of The Nature Conservancy. Impacts of invasive exotic plants in the Pawcatuck Borderlands Natural Management Area. \$5,000.
2002. Connecticut Chapter of the Nature Conservancy. Impacts of white-tailed deer and invasive non-native plant species on the natural vegetation of the Burnham Brook Preserve, East Haddam, Connecticut. \$1,000.
2002. Connecticut Department of Environmental Protection. The use of prescribed burning in the restoration and maintenance of a regionally rare Pitch Pine Sand Plain ecosystem, Hopeville Pond State Park, Griswold, Connecticut. \$1,000.
2002. Hodgkins Faculty Support Fund, Connecticut College. Publication grant: Effects of simulated post-harvest light availability and soil compaction on deciduous forest herbs, *Canadian Journal of Forest Research*. \$550.
2002. Hodgkins Faculty Support Fund, Connecticut College. Advanced GIS and Remote Sensing: Measuring landcover change and its impact on endangered species, Training workshop conducted by the Conservation and Research Center, Smithsonian National Zoological Park, Front Royal, VA. \$485.
2002. Hodgkins Faculty Support Fund, Connecticut College. Shrublands and Early-Successional Forests in the Northeastern United States: Critical Habitats Dependent on Disturbance, A Regional Conference, University of New Hampshire, Durham (Domestic travel grant). \$375.
2002. R.F. Johnson Faculty Development Fund, Connecticut College. The relationship of soil nitrogen to herb layer dynamics and diversity in an eastern oak forest, USA (presentation grant, Ecological Society of America). \$850.
2002. Undergraduate Student Research Support, Connecticut College Arboretum. Resampling long-term vegetation transects (1952-2002) in the Bolleswood Natural Area of the Connecticut College Arboretum, New London, CT. \$12,000.
2001. Hodgkins Faculty Support Fund, Connecticut College. The impact of white-tailed deer and invasive non-native plant species on the natural vegetation of the Burnham Brook Preserve, East Haddam, Connecticut. \$400.
2001. R.F. Johnson Faculty Development Fund, Connecticut College. The impact of white-tailed deer and invasive non-native plant species on the natural vegetation of the Burnham Brook Preserve, East Haddam, Connecticut. \$325.

2000. John Houk Memorial Research Grant, Ohio University. Influence of site quality and disturbance on central Appalachian deciduous forests (presentation grant). \$355.
2000. Ohio Biological Survey. The influence of soil nitrogen on plant species composition and diversity in an oak-hickory forest of southeastern Ohio. \$500.
1999. Ohio Biological Survey. Survey of seed bank and aboveground vegetation in mature and reorganizing forest stands of southeastern Ohio. \$250.
1998. Grant in Aid of Research, *Sigma Xi* Scientific Research Society. The effects of post-harvest light availability and soil compaction on the growth and survival of understory plant species in a central Appalachian deciduous forest. \$595.
1998. John Houk Memorial Research Grant, Ohio University. Recovery of herbaceous understory vegetation following clearcut harvesting in an eastern deciduous forest. \$541.
1998. Ohio Biological Survey. Survey of the vascular flora of Waterloo Wildlife Experimental Station, Athens County, Ohio. \$500.
1995. Charles W. Ash Memorial Scholarship. Characterization of Montane Cedar-Hardwood Woodlands in Piedmont and southern Blue Ridge Provinces of North Carolina. \$300.
1995. Grant in Aid, Highlands Biological Station. Characterization of Montane Cedar-Hardwood Woodlands in the southern Blue Ridge Provinces of North Carolina. \$2,200.
1995. Student Research Assistance, North Carolina State University, Department of Botany. Characterization of Montane Cedar-Hardwood Woodlands in the Piedmont and southern Blue Ridge Provinces of North Carolina. \$1,200.

PUBLISHED ABSTRACTS / PRESENTATIONS (*Undergraduate student researcher)

- Francl, K.E., Faidley*, C.R., and **Small, C.J.** 2009. Salamander-habitat relationships in karst sinkholes at the Selu Conservancy, Montgomery County, Virginia. Winter Meeting of the Virginia Wildlife Society. American Frontier Culture Museum, Staunton, Virginia.
- Mathews*, D., **Small, C.J.**, Chamberlain, J. and Hiebert, E. 2009. Sustainable harvesting of black cohosh (*Actaea racemosa*), a Southern Appalachian medicinal plant. 2nd Big South Undergraduate Research Symposium (BigSURS). University of North Carolina, Asheville.
- Mathews*, D., **Small, C.J.**, Chamberlain, J., and Francl, K. 2009. Sustainable harvesting of black cohosh (*Actaea racemosa*), a Southern Appalachian medicinal plant. 17th Annual Undergraduate / Graduate Student Engagement Forum, Radford University, Radford, Virginia.
- Meikle*, D., Francl, K.E., and **Small, C.J.** 2009. Effects of prescribed fire on small mammal communities at Caldwell Fields, Jefferson National Forest. 2nd Big South Undergraduate Research Symposium (BigSURS). University of North Carolina, Asheville.
- Meikle*, D., Francl, K.E., and **Small, C.J.** 2009. Effects of prescribed fire on small mammal communities at Caldwell Fields, Jefferson National Forest. Winter Meeting of the Virginia Wildlife Society. American Frontier Culture Museum, Staunton, Virginia.
- Meikle*, D., Francl, K.E., and **Small, C.J.** 2009. Effects of prescribed fire on small mammal communities at Caldwell Fields, Jefferson National Forest. 17th Annual Undergraduate / Graduate Student Engagement Forum, Radford University, Radford, Virginia.
- Meyer*, B., **Small, C.J.**, and Francl, K.E. 2009. Biotic diversity of karst sinkholes at the Selu Conservancy, southwestern Virginia. 2nd Big South Undergraduate Research Symposium (BigSURS). University of North Carolina, Asheville.

- Meyer*, B., **Small, C.J.**, and Francl, K.E. 2009. Biotic communities associated with karst sinkholes at Selu Conservancy, Montgomery County, Virginia. Winter Meeting of the Virginia Wildlife Society. American Frontier Culture Museum, Staunton, Virginia.
- Meyer*, B., **Small, C.J.**, and Francl, K.E. 2009. Biotic diversity of karst sinkholes at the Selu Conservancy, southwestern Virginia. 17th Annual Undergraduate / Graduate Student Engagement Forum, Radford University, Radford, Virginia.
- Patton*, M., Francl, K.E., and **Small, C.J.** 2009. Summer and winter avian-habitat relationships at Selu Conservancy, Montgomery County, Virginia. 2nd Big South Undergraduate Research Symposium (BigSURS). University of North Carolina, Asheville.
- Patton*, M., Francl, K.E., and **Small, C.J.** 2009. Summer and winter avian-habitat relationships at Selu Conservancy, Montgomery County, Virginia. Winter Meeting of the Virginia Wildlife Society. American Frontier Culture Museum, Staunton, Virginia.
- Patton*, M., Francl, K.E., and **Small, C.J.** 2009. Summer and winter avian-habitat relationships at Selu Conservancy, Montgomery County, Virginia. 17th Annual Undergraduate / Graduate Student Engagement Forum, Radford University, Radford, Virginia.
- Small, C.J.**, Meyer*, B., and Mathews*, D. 2009. Forest Resources and Diversity in the Southern Appalachians of Virginia. 4th Annual Faculty-Undergraduate Student Collaborative Grant Symposium, Radford University, Radford, Virginia.
- Faidley*, C.R., Francl, K.E. and **Small, C.J.** 2008. Salamander use of karst sinkholes at Selu Conservancy, Montgomery County, Virginia. Annual meeting of the Virginia Herpetological Society, Richmond, Virginia.
- Baisey*, M., Helton*, A., and Munsey*, W., **Small, C.J.**, and Francl, K.E. 2008. Habitat use by small mammals in natural areas of southwestern Virginia. 16th Annual Undergraduate / Graduate Student Engagement Forum / 3rd Annual Faculty-Undergraduate Student Collaborative Grant Symposium, Radford University, Radford, Virginia.
- Baisey*, M.T., **Small, C.J.**, and Francl, K.E. 2008. Classification of the ecological communities of the Selu Conservancy in southwestern Virginia. 16th Annual Undergraduate / Graduate Student Engagement Forum / 3rd Annual *Sigma Rho Beta Beta Beta* Biological Sciences Research Forum, Radford University, Radford, Virginia.
- Baisey*, M.T., **Small, C.J.**, and Francl, K.E. 2008. Classification of the ecological communities of the Selu Conservancy in southwestern Virginia. 86th Annual Meeting of the Virginia Academy of Science, Hampton University, Hampton, Virginia.
- Hargbol*, B. and **Small, C.J.** 2008. Allelopathic effects of *Ailanthus altissima* on germination and growth of native and invasive plants in southwestern Virginia. 16th Annual Undergraduate / Graduate Student Engagement Forum / 3rd Annual *Sigma Rho Beta Beta Beta* Biological Sciences Research Forum, Radford University, Radford, Virginia.
- Hargbol*, B. and **Small, C.J.** 2008. Allelopathic effects of *Ailanthus altissima* on germination and growth of native and invasive plants in southwestern Virginia. 86th Annual Meeting of the Virginia Academy of Science, Hampton University, Hampton, Virginia.
- Helton*, A., Francl, K.E., and **Small, C.J.** 2008. Examining the relationship of small mammal communities and habitat variables at Selu Conservancy, Montgomery County, Virginia. 16th Annual Undergraduate / Graduate Student Engagement Forum / 3rd Annual *Sigma Rho Beta Beta Beta* Biological Sciences Research Forum, Radford University, Radford, Virginia.

- Helton*, A., Francl, K.E., and **Small, C.J.** 2008. Examining the relationship of small mammal communities and habitat variables at Selu Conservancy, Montgomery County, Virginia. 18th Annual Colloquium on the Conservation of Mammals in the Southeastern United States. Virginia Polytechnic Institute and State University, Blacksburg, Virginia.
- Helton*, A. and **Small, C.J.** 2008. Plant and algal productivity in the Radford University Stormwater Treatment Wetland: a biology laboratory module. 3rd Annual Wetland Symposium, Radford University, Radford, Virginia.
- Munsey*, W.T., Francl, K.E., and **Small, C.J.** 2008. Preliminary analysis of prescribed fire impacts on Burris Tract, Jefferson National Forest (Bland County, Virginia). 16th Annual Undergraduate / Graduate Student Engagement Forum / 3rd Annual *Sigma Rho Beta Beta Beta* Biological Sciences Research Forum, Radford University, Radford, Virginia.
- Munsey*, W.T., Francl, K.E., and **Small, C.J.** 2008. Preliminary analysis of prescribed fire impacts on Burris Tract, Jefferson National Forest (Bland County, Virginia). 18th Annual Colloquium on the Conservation of Mammals in the Southeastern United States. Virginia Polytechnic Institute and State University, Blacksburg, Virginia.
- Munsey*, W.T., Francl, K.E., and **Small, C.J.** 2008. Preliminary analysis of prescribed fire impacts on Burris Tract, Jefferson National Forest (Bland County, Virginia). Winter Meeting of the Virginia Wildlife Society. American Frontier Culture Museum, Staunton, Virginia.
- Wirgau, J., Guinan, J., Bodo, B., Wojdak, J., Manyara, C., Hammond, G., **Small, C.**, Singer, F., Watts, C. and Baldwin, A. 2008. Radford University Stormwater Wetland as a Real-World Teaching Laboratory. 236th Meeting of the American Chemical Society, Philadelphia, Pennsylvania
- Baisey*, M., Urban*, G., **Small, C.J.** and Francl, K. 2007. The Selu Conservancy: an Undergraduate Research and Teaching Resource at Radford University. Friends of Selu Annual Picnic, Selu Conservancy, Montgomery County, Virginia.
- Clement*, L.J. and **Small, C.J.** 2007. Spatial analysis of invasive plant distribution relative to land use and site conditions at the Selu Conservancy in Southwestern Virginia. 15th Annual Undergraduate / Graduate Student Engagement Forum / 2nd Annual *Sigma Rho Beta Beta Beta* Biological Sciences Research Forum, Radford University, Radford, Virginia.
- Clement*, L.J. and **Small, C.J.** 2007. Map analysis of invasive plant distribution relative to land use and site conditions in Southwestern Virginia. 85th Annual Meeting of the Virginia Academy of Science, James Madison University, Harrisonburg, Virginia.
- Hargbol*, B. and **Small, C.J.** 2007. Factors influencing the invasion of *Rosa multiflora* into natural areas of the Selu Conservancy, Southwestern Virginia. 15th Annual Undergraduate / Graduate Student Engagement Forum / 2nd Annual *Sigma Rho Beta Beta Beta* Biological Sciences Research Forum, Radford University, Radford, Virginia.
- Hargbol*, B. and **Small, C.J.** 2007. Factors influencing the invasion of *Rosa multiflora* into natural areas of the Selu Conservancy, Southwestern Virginia. 85th Annual Meeting of the Virginia Academy of Science, James Madison University, Harrisonburg, Virginia.
- Lavery*, G, Francl, K. and **Small, C.J.** 2007. Environmental Research at the Selu Conservancy. Clean Valley Council Earth Summit, Roanoke, Virginia.
- McIntyre*, E.M., **Small, C.J.**, and Clement*, L.J. 2007. Influence of site conditions on the distribution of multiflora rose and Japanese honeysuckle in southwestern Virginia. 9th Annual Mid-Atlantic Regional Conference of Undergraduate Scholarship (MARCUS), Sweet Briar College, Sweet Briar, Virginia.

- McIntyre*, E.M., Clement*, L.J., and **Small, C.J.** 2007. The distribution of invasive plants relative to site characteristics in Southwestern Virginia. 15th Annual Undergraduate / Graduate Student Engagement Forum / 2nd Annual *Sigma Rho Beta Beta Beta* Biological Sciences Research Forum, Radford University, Radford, Virginia.
- Small, C.J.** 2007. Influence of land use and disturbance history on long-term vegetation changes in an eastern forest. 85th Annual Meeting of the Virginia Academy of Science, James Madison University, Harrisonburg, Virginia.
- Small, C.J.**, Clement*, L.J., Hargbol*, B., McIntyre*, E., and Conner*, R. 2007. Influence of site conditions on the spread of invasive plants in eastern forests. 15th Annual Undergraduate / Graduate Student Engagement Forum / 2nd Annual Faculty-Undergraduate Student Collaborative Grant Symposium, Radford University, Radford, Virginia.
- Wojdak, J., Guinan, J., Wirgau, J., Kugler, J. **Small, C.**, Singer, F., Manyara, C., Hammond, G., Hagen, J., Bodo, B., and Baldwin, A. 2007. A real environmental issue as the context for teaching college science. 92nd Annual Meeting of the Ecological Society of America, San Jose, California (poster presentation).
- Wojdak, J., Guinan, J., Wirgau, J., Kugler, J. **Small, C.**, Singer, F., Manyara, C., Hammond, G., Hagen, J., Bodo, B., and Baldwin, A. 2007. Using a real-world environmental issue as the context for teaching college science. Annual Meeting of the Society of Wetland Scientists, Sacramento, California.
- Small, C.J.** 2004. Fifty years of vegetation change in the Connecticut College Arboretum. 89th Annual Meeting of the Ecological Society of America, Portland, Oregon.
- Small, C.J.** 2004. Using Geographic Information Systems (GIS) across the curriculum in the liberal arts. National Institute for Technology and Liberal Education Workshop, Connecticut College.
- Small, C.J.** 2003. GIS analysis of invasive plant distributions in southern New England. Using Geographic Information Systems (GIS) Across the Curriculum in the Liberal Arts, National Institute for Technology and Liberal Education (NITLE) Conference, Connecticut College, New London (invited presenter and panelist).
- Small, C.J.** and McCarthy, B.C. 2002. The relationship of soil nitrogen to herb layer dynamics and diversity in an eastern oak forest, USA. 87th Annual Meeting of the Ecological Society of America, Tucson, Arizona.
- Small, C.J.**, Lucas*, B., Lundgren*, M., Munger*, S., Small*, M., Weidner*, E. 2002. Vegetation dynamics in southeastern Connecticut natural areas. Connecticut College Student Research Symposium (poster presentation).
- Small, C.J.** and McCarthy, B.C. 2001. Herb layer response to seasonal soil nitrogen dynamics in managed and mature oak forests of southeastern Ohio. 86th Annual Meeting of the Ecological Society of America, Madison, Wisconsin.
- Small, C.J.** and McCarthy, B.C. 2001. Herb layer response to seasonal soil nitrogen dynamics in managed and mature oak forests of southeastern Ohio. *Ohio Journal of Science* 101: 42. 110th Annual Meeting of the Ohio Academy of Science, Mount Union College, Alliance, Ohio.
- Small, C.J.** and McCarthy, B.C. 2000. Influence of site quality and disturbance on central Appalachian deciduous forests. 85th Annual Meeting of the Ecological Society of America, Snowbird, Utah.
- Small, C.J.** and McCarthy, B.C. 2000. Seed bank and aboveground composition in clearcut and mature oak-hickory forests of southeastern Ohio. Annual Meeting of the Midwest Ecology and Evolution Conference, Ohio University, Athens, Ohio.

- Small, C.J.** and McCarthy, B.C. 2000. Soil seed bank and aboveground vegetation in clearcut and mature oak-hickory forests of southeastern Ohio. *Ohio Journal of Science* 100: 40. 109th Annual Meeting of the Ohio Academy of Science, Ada, Ohio.
- Small, C.J.** and McCarthy, B.C. 1999. Composition, structure, and diversity of woody vegetation in mature and reorganizing forest stands of southeastern Ohio. *Ohio Journal of Science* 99: 23. 108th Annual Meeting of the Ohio Academy of Science, Cleveland, Ohio.
- Small, C.J.** and McCarthy, B.C. 1999. Vegetation in managed and mature central Appalachian deciduous forests. *XVI International Botanical Congress Abstract Bulletin* 536. XVI International Botanical Congress, St. Louis, Missouri (poster presentation).
- Brown*, J.E., McCarthy, B.C. and **Small, C.J.** 1999. Soil seed banks and aboveground vegetation of an old-growth mixed mesophytic forest, Ohio, USA. *XVI International Botanical Congress Abstract Bulletin* 718. XVI International Botanical Congress, St. Louis, Missouri (poster presentation).
- Brown*, J.E., McCarthy, B.C. and **Small, C.J.** 1999. The relationship between the soil seed bank and aboveground vegetation in Dysart Woods, an old-growth mixed mesophytic forest. *Ohio Journal of Science* 99: 21. 108th Annual Meeting of the Ohio Academy of Science, Cleveland, Ohio.
- Small, C.J.** and McCarthy, B.C. 1998. Interpreting patterns of understory diversity in an old-growth forest: A test of the SHE analysis. 83rd Annual Meeting of the Ecological Society of America, Baltimore, Maryland.
- Small, C.J.** and McCarthy, B.C. 1998. Composition and diversity of forest herbs at Dysart Woods, an eastern mixed-mesophytic old-growth forest. *The Ohio Journal of Science* 98: 12. 107th Annual Meeting of the Ohio Academy of Science, Middletown, Ohio.
- McCarthy, B.C. and **Small, C.J.** 1998. Composition, structure, and health of Dysart Woods, an old-growth mixed mesophytic forest of southeastern Ohio. *The Ohio Journal of Science* 98: 12. 107th Annual Meeting of the Ohio Academy of Science, Middletown, Ohio.
- Small, C.J.** and Wentworth, T.R. 1997. Characterization of Montane Cedar-Hardwood Woodlands in the southern Blue Ridge Province: regional classification. Vegetation of the Southern Blue Ridge Province, Invited symposium presentation. *Association of Southeastern Biologists Bulletin* 44: 102. 58th Annual Meeting of the Association of Southeastern Biologists, Greenville, South Carolina.
- Small, C.J.** and Wentworth, T.R. 1996. Characterization of Montane Cedar-Hardwood Woodlands in the southern Blue Ridge Province. *Association of Southeastern Biologists Bulletin* 43: 126. 57th Annual Meeting of the Association of Southeastern Biologists, Statesboro, Georgia.

DIRECTION OF STUDENT RESEARCH

- Mathews, D. (co-mentored with J. Chamberlain). Undergraduate Environmental Internship, Radford University. 2008-2009. Sustainable harvesting of the southern Appalachian medicinal plant, black cohosh (*Actaea racemosa*).
- Meyer, B. (co-mentored with K. Franci). Undergraduate Environmental Internship, Radford University. 2008-2009. Biotic diversity of karst sinkholes of southwestern Virginia.

- Baisey, M., Combos, V., Faidley, C., Matthews, D., Meikle, D., Meyer, B., Noble, A., Patton, A. (co-mentored with K. Francl). Undergraduate Environmental Internships / Directed Study and Research, Radford University. 2008. Natural History Investigations in Southwestern Virginia: Classification of ecological communities of Selu Conservancy / Sustainable harvesting of black cohosh (*Actaea racemosa*), a southern Appalachian medicinal herb / Salamander use of karst resources at the Selu Conservancy.
- Baisey, M. Undergraduate Environmental Internship, Radford University. 2007-2008. Classification of the ecological communities of Selu Conservancy in southwestern Virginia.
- Hargbol, B. Undergraduate Directed Study and Research, Radford University. 2006-2008. Effects of *Ailanthus altissima* allelopathy on native plant communities of southwestern Virginia.
- Baisey, M., Helton, A., Munsey, W., Lavery, G., Urban, G., Matthews, D., Verbeck, J. Adkins, M., Meyer, B. Fischer, M., Elimbi, F., Lyerly, M., Urban, K., Franciose, N. Undergraduate Directed Study and Research, Radford University. 2007. Vegetation and small mammal communities of the Selu Conservancy, Montgomery County, Virginia. (co-mentored with K. Francl)
- Clement, L. Undergraduate Directed Study and Research, Radford University. 2006-2007. Geographic Information Systems (GIS) mapping of invasive plant species at the Radford University Selu Conservancy in southwestern Virginia.
- Hargbol, B. and Conner, R. Undergraduate Directed Study and Research, Radford University. 2006-2007. Distribution and dendrochronological assessment of the invasive plant *Rosa multiflora* in natural areas of the Radford University Selu Conservancy, Montgomery County, Virginia.
- McIntyre, E. and Clement, L. Undergraduate Directed Study and Research, Radford University. 2006-2007. Distribution of native and invasive plant species at the Radford University Selu Conservancy, Montgomery County, Virginia.
- Howard, B. Undergraduate Directed Study and Research, Radford University. 2006. Relationship of natural vegetation, site conditions, and land use history to invasive plant distribution in southwestern Virginia.
- Phelan, A. Undergraduate Honors Thesis, Connecticut College. 2004-2005. The use of prescribed burning in the restoration and maintenance of regionally rare Pitch Pine Sand Plain communities in southern New England (co-mentored with G. Dreyer).
- Munger, S. Undergraduate Thesis, Connecticut College. 2004-2005. Vascular flora of the West Farms Land Trust Avery Tract, Waterford, Connecticut.
- Munger, S. and Mohammed, A., Summer Student Research Interns, Connecticut College. 2004. Vascular flora of the West Farms Land Trust Avery Tract, Waterford, Connecticut.
- Munger, S., Mohammed, A., and Phelan, A., Summer Student Research Interns, Connecticut College. 2004. The use of prescribed burning in the restoration and maintenance of a regionally rare pitch pine sand plain ecosystem, Hopeville Pond Natural Area Preserve, Griswold, CT.
- Kelly, A.B. Undergraduate Honors Thesis, Connecticut College. 2003-2004. Vegetation classification and environmental correlation of invasive non-native plant species in the Pawcatuck Borderlands of Connecticut and Rhode Island (co-mentored with G. Dreyer).
- Kelly, A. and Mygatt, E., Summer Student Research Interns, Connecticut College. 2003. (1) Effects of invasive non-native plant species on the natural vegetation of the Pawcatuck Borderlands in southern New England; (2) The use of prescribed burning in the restoration and maintenance of a regionally rare pitch pine sand plain ecosystem, Hopeville Pond Natural Area Preserve, Griswold, CT; (3) Impacts of intensive white-tailed deer herbivory on the natural vegetation of the Burnham Brook Preserve, East Haddam, CT.

- Miller, E. Graduate Independent Study, Connecticut College. Fall 2003. Modern and historical systems of classification for vascular plant species.
- Weidner, E.F. Undergraduate Independent Study, Connecticut College. Fall 2003. Plant community dynamics and diversity in response to disturbance and environmental change.
- Small, M.J. Undergraduate Honors Thesis, Connecticut College. 2002-2003. Effects of the hemlock woolly adelgid on the vegetation of the Bolleswood Natural Area, Connecticut College Arboretum (co-mentored with G. Dreyer).
- Lucas, B., Lundgren, M., Munger, S., Small, M., Weidner, E., Summer Student Research Interns, Connecticut College. 2002. (1) Resampling long-term vegetation transects (1952-2002) in the Bolleswood Natural Area, Connecticut College Arboretum, New London, CT; (2) Use of prescribed burning in the restoration and maintenance of regionally rare Pitch Pine-Sand Plain ecosystems, Hopeville Pond Natural Area Preserve, Griswold, CT; (3) Impacts of white-tailed deer herbivory on the natural vegetation of the Burnham Brook Preserve, East Haddam, CT.
- Glaza, T. Masters Thesis, Connecticut College. 2001-2003. Ethnobotany of Pequot Indian gardens in southeastern Connecticut (co-mentored with M. Lizarralde (PI), R. Warren and C. Benoit).
- Lundgren, M. Undergraduate Honors Thesis, Connecticut College. 2001-2002. Historical and environmental factors influencing invasion of exotic plant species in southern New England (co-mentored with G. Dreyer).
- Schwartz, J. Undergraduate Honors Thesis, Connecticut College. 2001-2002. An analysis of compositional ecosystem changes in the Bolleswood Natural Area of Connecticut College over a 50 year period (co-mentored with R.S. Warren).
- Brown, J. Undergraduate Research Student, Ohio University. 1998-2000. Soil seedbank dynamics in an old-growth mixed-mesophytic forest of unglaciated Ohio (co-mentored with B. McCarthy).
- Wendelburger, K. Undergraduate Research Student, Ohio University. 1998-1999. A preliminary flora of the Waterloo Wildlife Experimental Station, Athens County, Ohio.

PROFESSIONAL AWARDS AND DEVELOPMENT

2008. Keenan Fellow, National Tropical Botanical Garden, The Kampong, Coconut Grove. Fellowship for College Biology Professors
2007. Donald N. Dedmon Distinguished Teaching Award Nominee, Radford University
2005. Introduction to ArcGIS 9.1 (Geographic Information Systems), ESRI-certified course, Radford University. Workshop participant
2004. Geographic Information Systems (GIS) Across the Curriculum, National Institute for Technology and Liberal Education, Middlebury College, VT. Workshop participant
2004. Teaching Scientific Writing, Faculty workshop, Connecticut College. Workshop developer, organizer, and participant (with Leslie Cornick)
2004. Teaching Critical Thinking Across the Disciplines, Faculty workshop, Connecticut College. Workshop participant
- 2003-2004. Using Geographic Information Systems (GIS) Across the Curriculum in the Liberal Arts. National Institute for Technology and Liberal Education, Invited panelist
2003. Tempel Summer Institute: Using Web-based Technology to Enhance Student Learning (two-week course in internet technologies), Connecticut College. Workshop participant

2002. Advanced Geographic Information Systems (GIS) and Remote Sensing: Measuring Landcover Change and its Impact on Endangered Species, Smithsonian National Park Conservation and Research Center. Workshop participant
- 2001-2004. C.F. Johnson Faculty Teaching Seminar, Connecticut College
- 1998-pres. *Sigma Xi* International Research Society, invited member
- 1996-pres. *Phi Kappa Phi* National Honor Society, invited member
- 1998-1999. Donald Clippenger Graduate Research Fellowship, Ohio University
1997. Eugene P. Odum Outstanding Presentation Award, Honorable Mention. Ecological Society of America, Southeastern Chapter. Association of Southeastern Biologists, 58th Annual Meeting, Greenville, South Carolina
1996. National Science Foundation, Graduate Research Trainee, University of Kentucky
1996. Excellence in Teaching, Graduate Student Workshop, University of Kentucky
1995. Charles Ash Memorial Scholarship, Highlands Biological Foundation, North Carolina
- 1994-1995. North Carolina Vegetation Survey. Buck Creek Serpentine Barren, Grandfather Mountain, Roan Mountain, and Uwharrie National Forest, North Carolina.
1994. Vegetation Monitoring, National Park Service. Smoky Mountain National Park.
1993. Departmental Honors in Biology, Chemistry, and Environmental Science, Christopher Newport University
1993. Dean's Award, College of Science and Technology, Christopher Newport University
1992. Tropical Ecology and Conservation Foreign Study Program, Council for International Educational Exchange (CIEE), Monteverde Institute, Monteverde, Costa Rica
1991. Supplemental Instruction Leader, Department of Biology, Chemistry, and Environmental Science, Christopher Newport University
1991. Vegetation and Eutrophication Surveying Participant. Lake Maury, Mariner's Museum Park, Newport News, Virginia.

RESEARCH AND INVITED SEMINARS

2009. *Vegetation Dynamics and Disturbance History in Eastern Forests*. Invited Speaker, Harold Cones Seminar Series, Department of Biology, Chemistry, and Environmental Science, Christopher Newport University.
2006. *Pollination of Southwestern Virginia Wildflowers*. Invited Speaker, New River Chapter, Virginia Native Plant Society.
2005. *Fifty Years of Vegetation Change in Southern New England*. Invited Seminar Speaker, Radford University.
2003. *Vegetation Dynamics and Disturbance Response in Eastern Deciduous Forests*. Invited Biology Seminar Speaker, Eastern Connecticut State University.
2003. *Floral Attraction: Plants and their Pollinators*. Annual Meeting of the Connecticut College Arboretum Members and Friends, Connecticut College.
2003. *Long-Term Vegetation Studies in the Bolleswood Natural Area, Connecticut College Arboretum*. Connecticut College Arboretum Docent Training, Connecticut College.
2002. *Long-Term Vegetation Studies in the Bolleswood Natural Area, Connecticut College Arboretum*. Annual Meeting of the Connecticut Forest and Park Association.

2001. *Herb Layer Dynamics and Disturbance Response in Central Appalachian Deciduous Forests*. Department of Botany, Connecticut College.
2001. *Herb Layer Diversity and Disturbance Response in Deciduous Forests of Southeastern Ohio*. Department of Environmental and Plant Biology, Ohio University.
1997. *Characterization of Montane Cedar Hardwood Woodlands of the Southern Blue Ridge Province*. Department of Environmental and Plant Biology, Ohio University.
1996. *Characterization of Montane Cedar Hardwood Woodlands of the Southern Blue Ridge Province*. Department of Botany, North Carolina State University.
1993. *An Ecological Approach to Sustainable Agriculture*. Department of Biology, Chemistry, and Environmental Science, Christopher Newport College.
1992. *Biodiversity and Seed Dispersal in Three Neotropical Plant Communities*. Council for International Educational Exchange, Monteverde, Costa Rica.

ACADEMIC AND PROFESSIONAL SERVICE

- 2008-present. Grounds and Habitat Sustainability Subcommittee, Campus Sustainability Committee, Radford University
- 2008-present. College of Science and Technology Library Committee, Radford University
- 2006-present. Editorial Board Member and Guest Editor: *Southeastern Naturalist*
- 2001-present. Manuscript Reviewer: *BioScience*, *Castanea*, *Forest Ecology and Management*, *Journal of Ecology*, *Journal of the Torrey Botanical Society*, *Northeastern Naturalist*, *Southeastern Naturalist*
- 2007-2008. Radford University Core Curriculum Committee (General Education program revision)
- 2006-2007. Animal Physiologist Faculty Search Committee, Committee Chair, Radford University
2006. Commission for the Future of Radford University, Task Force for Academic Centers of Distinctiveness, Radford University
- 2005-2006. Vertebrate Field Biologist Faculty Search Committee, Radford University
- 2002-2006. Board of Trustees: National Conservation and Research Foundation
- 2001-2005. Editorial Board Member and Guest Editor: *Northeastern Naturalist*
- 2001-2005. Newsletter Editor, Designer, and Production Manager: *Newsletter of the Connecticut Botanical Society*
- 2001-2005. Burnham Brook Preserve Stewardship Committee: The Nature Conservancy, Connecticut Chapter
- 2001-2005. Curator: Charles B. Graves Herbarium, Connecticut College
- 2002-2005. Facilities and Land Management Committee, Connecticut College
- 2001-2005. Steering Committee: Goodwin-Niering Center for Conservation Biology and Environmental Studies, Connecticut College
- 2002-2004. C.F. Johnson Teaching Seminar: Organizing Committee, Connecticut College
- 2002-2003. Watson Fellowship Committee, Connecticut College
- 1999-2001. Assistant Webmaster: Plant Biology departmental webpage, Ohio University
1998. District Science Fair: Project Judge, Ohio University

1997-1999. Women in Science and Engineering: Exhibit Coordinator, Volunteer, Ohio University

PROFESSIONAL AFFILIATIONS

Association of Southeastern Biologists, Ecological Society of America, Southern Appalachian Botanical Society, Torrey Botanical Society, Virginia Native Plant Society, *Phi Kappa Phi* National Honor Society, *Sigma Xi* Scientific Research Society