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ACADEMIC HISTORY AND PROFESSIONAL APPOINTMENTS

Present Positions

Professor, Department of Plant Biology, University of Georgia
Senior Research Ecologist, Savannah River Ecology Laboratory, University of Georgia
Courtesy Professor, Odum School of Ecology, University of Georgia
Adjunct Professor, Department of Natural Resources, Clemson University

Education

Ph.D. University of North Carolina 1970, Department of Botany (Ecology major)
B.S. (honors) Roanoke College 1966 (Biology major)

Faculty Appointments

University of Georgia

Professor of Plant Biology (1989-present)
Senior Research Ecologist, Savannah River Ecology Laboratory (1986-present)
Adjunct Professor of Forestry and Natural Resources, Clemson University (2003-present)
Adjunct Associate Professor of Botany (1980-89)
Associate Research Ecologist, Savannah River Ecology Laboratory (1978-86)
Adjunct Assistant Professor of Botany (1972-77)
Research Associate, Savannah River Ecology Laboratory (1972-77)

Assistant Professor of Biology, Saginaw Valley State University, University Center, MI (1970-71)
Assistant Professor of Biology, St. Andrews Presbyterian College, Laurinburg, NC (1970 summer)

Administrative Appointments

Savannah River Ecology Laboratory

Leader, Ecological Stewardship Research Program (1997-99)
Head, Division of Wetlands Ecology (1983-96)
Acting Director, Savannah River Ecology Laboratory (1987-88)
Manager, Environmental Stress and Assessment Program (1980-83)
Assistant Director (1978-79)
Director of Education Program (1974-78)

Man and Biosphere Program, Staff member, U.S. Secretariat (1976)

U.S. Energy Research and Development Administration, Ecologist (Professional Term Appointee), Division of Biomedical and Environmental Research (1975-76)

Honors and Awards

National Wetlands Award in Science Research, Environmental Law Institute, May 2010
Fellow, Society of Wetland Scientists, Elected 2008
Friends of Congaree National Park, Order of the Cypress – in recognition of her selfless efforts to promote research at Congaree National Park. 2007
U.S. Forest Service, Regional Forester's Honor Award in Natural Resource Stewardship for the Carolina Bay Restoration and Banking Project. 2006
Meritorious Teaching Award, Association of Southeastern Biologists, 1997
U.S. Forest Service, Certificate of Appreciation, Symposium on Ecosystem Principles and Concepts, 1992

RESEARCH INTERESTS, SCIENTIFIC PUBLICATIONS AND PRESENTATIONS

Research Appointments

Savannah River Ecology Laboratory: Full-time research faculty position under contracts between the U.S. Department of Energy and the University of Georgia, and with funding through other agencies and organizations (1972-present). Research primarily in the following areas: (1) population dynamics of vascular plants, (2) community structure and ecological processes in swamp and bottomland forest systems, (3) responses of wetland communities to environmental disturbance, (4) wetland conservation and restoration, and (5) conservation of Fall Line sandhills communities and their rare plant species (see grants).
University of North Carolina. Postdoctoral Research Associate in Ecology (1971, summer). Research on barrier island plant communities

Peer-reviewed Articles and Book Chapters (underline indicates student, technician or postdoctoral fellow who participated under my supervision):

- Sharitz, R.R.** and D. P. Batzer. 2009. Wetland Communities. Encyclopedia of life Sciences. Published online by John Wiley & Sons, Ltd: Chichester [http://www.els.net/\[Doi: 10.1002/9780470015902.a0020461\]](http://www.els.net/[Doi: 10.1002/9780470015902.a0020461]) (invited).
- Mitchell, R., T. Engstrom, **R. R. Sharitz**, D. De Steven, K. Hiers, R. Cooper and L. K. Kirkman. 2009. Old forests and endangered woodpeckers: Old-growth in the southern Coastal Plain. *Natural Areas Journal* 29:301-310.
- King, S. L., **R. R. Sharitz**, J. W. Groninger and L. L. Battaglia. 2009. The ecology, restoration, and management of southeastern floodplain ecosystems: a synthesis. *Wetlands* 29:624-634.
- De Steven, D. and **R. R. Sharitz**. 2007. Transplanting native dominant plants to facilitate community development in restored Coastal Plain wetlands. *Wetlands* 27:972-978.
- Meadows, A., D. Batzer, M. Alber and **R. Sharitz**. 2007. Savannah River, Georgia: Science to support adaptive implementation of environmental flows to a large coastal river, floodplain and estuary. *Water Resources Impact* 9:21-24.
- Allen, B. P., **R. R. Sharitz** and P. C. Goebel. 2007. Are lianas increasing in importance in temperate floodplain forests in the southeastern United States? *Forest Ecology and Management* 242:17-23.
- Landman, G. B., R. K. Kolka and **R. R. Sharitz**. 2007. Soil seed bank analysis of planted and naturally revegetating thermally-disturbed riparian wetland forests. *Wetlands* 27:211-223.
- Young, A. S., S.-M. Chang and **R. R. Sharitz**. 2007. Reproductive ecology of a federally endangered legume, *Baptisia arachnifera*, and its more widespread congener, *B. lanceolata* (Fabaceae). *American Journal of Botany* 94:228-236.
- Zhao, D., B. Allen and **R. R. Sharitz**. 2006. Twelve-year response of old-growth southeastern bottomland hardwood forests to disturbance from Hurricane Hugo. *Canadian Journal of Forest Research* 36:3136-3147.
- Batzer, D. P. and **R. R. Sharitz**. 2006. An introduction to the ecology of freshwater and estuarine wetlands. Pages 1-6 in *Ecology of Freshwater and Estuarine Wetlands*. D. P. Batzer and R. R. Sharitz (eds.). University of California Press, Berkeley, CA.
- Sharitz, R. R.** and S. C. Pennings. 2006. Development of wetland plant communities. Pages 177-241 in *Ecology of Freshwater and Estuarine Wetlands*. D. P. Batzer and R. R. Sharitz (eds.). University of California Press, Berkeley, CA.
- Sharitz, R. R.**, C. D. Barton and D. De Steven. 2006. Tree plantings in depression wetland restorations show mixed success (South Carolina). *Ecological Restoration* 24:114-115.
- De Steven, D., **R. R. Sharitz**, J. H. Singer and C. D. Barton. 2006. Testing a passive revegetation approach for

- restoring Coastal Plain depression wetlands. *Restoration Ecology* 14:452-460.
- Collins, B., **R. R. Sharitz**, **K. Madden** and J. Dilustro. 2006. Comparison of sandhills and mixed pine hardwood communities at Fort Benning, Georgia. *Southeastern Naturalist* 5:93-102.
- Battaglia, L. L.** and **R. R. Sharitz**. 2006. Responses of floodplain forest species to spatially condensed gradients: a test of the flood-shade tolerance tradeoff hypothesis. *Oecologia* 147:108-118.
- LaJeunesse, S. D.**, J. J. Dilustro, **R. R. Sharitz** and B. S. Collins. 2006. Ground layer carbon and nitrogen cycling and legume nitrogen inputs following fire in mixed pine forests. *American Journal of Botany* 93:84-93.
- Mulhouse, J. M.**, D. De Steven, R. F. Lide and **R. R. Sharitz**. 2005. Effects of dominant species on vegetation change in Carolina bay wetlands following a multi-year drought. *Journal of the Torrey Botanical Society* 132:411-420.
- Allen, B. P.**, **R. R. Sharitz** and P. C. Goebel. 2005. Twelve years post-hurricane liana dynamics in an old-growth southeastern floodplain forest. *Forest Ecology and Management* 218:259-269.
- Mulhouse, J. M.**, **L. E. Burbage** and **R. R. Sharitz**. 2005. Seed bank-vegetation relationships in herbaceous Carolina bays: responses to climatic variability. *Wetlands* 25:738-747.
- Hinton, T. G., A. S. Knox, D. I. Kaplan and **R. Sharitz**. 2005. Phytoextraction of uranium and thorium by native trees in a contaminated wetland. *Journal of Radioanalytical and Nuclear Chemistry* 264:417-422.
- Tsyusko, O.V.**, M.H. Smith, **R.R. Sharitz** and T.C. Glenn. 2005. Genetic and clonal diversity of two cattail species, *Typha latifolia* and *T. angustifolia* (Typhaceae) from Ukraine. *American Journal of Botany* 92:1161-1169.
- Conner, W. H. and **R. R. Sharitz**. 2005. Forest communities of bottomlands. Pages 93-120 in *Ecology and Management of Bottomland Hardwood Systems*. L. H. Frederickson, S. L. King and R. M. Kaminski (eds.). University of Missouri. Gaylord Memorial Laboratory Special Publication No. 20. Puxico.
- Battaglia, L. L.** and **R. R. Sharitz**. 2005. Effects of natural disturbance on bottomland hardwood regeneration. Pages 121-136 in *Ecology and Management of Bottomland Hardwood Systems*. L. H. Frederickson, S. L. King and R. M. Kaminski (eds.). University of Missouri. Gaylord Memorial Laboratory Special Publication No. 20. Puxico.
- Collins, B. S., **R. R. Sharitz** and **D. P. Coughlin**. 2004. Elemental composition of native wetland plants in constructed mesocosm treatment wetlands. *Bioresource Technology* 96: 937-948.
- Collins, B., J. V. McArthur and **R. R. Sharitz**. 2004. Plant effects on microbial assemblages and remediation of acidic coal pile runoff in mesocosm treatment wetlands. *Ecological Engineering* 23: 107-115.
- Battaglia, L. L.**, B. S. Collins and **R. R. Sharitz**. 2004. Do published tolerance ratings and dispersal factors predict species distributions in bottomland hardwoods? *Forest Ecology and Management* 198: 15-30.
- Palta, M. M.**, **E. A. Richardson** and **R. R. Sharitz**. 2003. Effects of altered flow regimes on floodplain forests in the Savannah River basin. In *Proceedings of the 2003 Georgia Water Resources Conference*. K. Hatcher (ed.). University of Georgia, Athens, GA, 4 p. <http://ga.water.usgs.gov/pubs/other/gwrc2003>.
- Sharitz, R. R.** 2003. Carolina Bays: unique wetland habitats of the southeastern United States. *Wetlands* 23:550-562.
- Edwards, A. L.** and **R. R. Sharitz**. 2003. Clonal diversity in two rare perennial plants: *Sagittaria isoetiformis* and *Sagittaria teres* (Alismataceae). *International Journal of Plant Science* 164: 181-188.
- Dilustro, J.**, B. Collins, L. Duncan and **R. Sharitz**. 2002. Soil texture, land-use intensity, and vegetation of Fort Benning upland forest sites. *Journal of the Torrey Botanical Society* 129:289-297.
- Smith, M. H., E. P. Odum and **R. R. Sharitz**. 2001. Savannah River Ecology Laboratory: A model for a cooperative partnership between a university and the federal government. In *Holistic Ecology: The Evolution of the Georgia Institute of Ecology (1940-2000)*. G. W. Barrett and T. L. Barrett (eds.). Taylor & Francis Publishers . pp. 95-127.
- Knox, A. S., D. I. Kaplan, T. G. Hinton, **R. R. Sharitz** and S. Serkiz. 2000. Remediation of heavy metals and radionuclides by phytoimmobilization: Evaluation of sequestering agents. In *11th Annual International Conference on Heavy Metals in the Environment*. (J. Nriagu, ed., CD-ROM). University of Michigan School of Public Health, Ann Arbor, MI.
- Knox, A. S., D. I. Kaplan, T. G. Hinton, **R. R. Sharitz** and S. Serkiz. 2000. Soil remediation by combining phytoextraction and mineral immobilization. In *5th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe*. Prague, Czech Republic (CD-ROM).
- Miller, S. P.** and **R. R. Sharitz**. 2000. Manipulation of flooding and arbuscular mycorrhiza formation influences growth and nutrition of two semiaquatic grass species. *Functional Ecology* 14: 738-748.

- Battaglia, L. L., S. A. Foré and R. R. Sharitz. 2000. Seedling emergence, survival, and size in relation to light and water availability in two bottomland hardwood species. *Journal of Ecology* 88:1041-1050.
- Edwards, A. L. and R. R. Sharitz. 2000. Population genetics of two rare perennials in isolated wetlands: *Sagittaria isoetiformis* and *S. teres* (Alismataceae). *American Journal of Botany* 87:1147-1158.
- Allen, B. P. and R. R. Sharitz. 1999. Post-hurricane vegetation dynamics in old-growth forests of the Congaree Swamp National Monument. In *On the Frontiers of Conservation*. George Wright Society Bulletin, Hancock MI. pp. 306-312.
- Sharitz, R. R., H. E. Shealy, Jr. and W. D. Marshall. 1999. Wetland resource evaluation in the Edisto River Basin, USA. In *Wetlands for the Future*. A. J. McComb and J. A. Davis (eds.). Gleneagles Publ., Adelaide, W. A. pp. 347-358.
- Battaglia, L. L., R. R. Sharitz and P.R. Minchin. 1999. Heterogeneity of hurricane disturbance and regeneration patterns in an old-growth bottomland hardwood community. *Canadian Journal of Forest Research* 29:144-156.
- Sharitz, R. R. and D. Batzer. 1998. An introduction to freshwater wetlands in North America and their invertebrates. In *Invertebrates in Freshwater Wetlands of North America: Ecology and Management*. D. Batzer, R. B. Rader and S. A. Wissinger (eds.). John Wiley Co. pp. 1-22.
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- Sharitz, R. R. and C. A. Gresham. 1997. Pocosins and Carolina bays. In *Southern Forested Wetlands: Ecology and Management*. M. G. Messina and W. H. Conner (eds.). CRC/Lewis Publishers. pp. 343-377.
- De Steven, D. and R. R. Sharitz. 1997. Differential recovery of deepwater swamp forest across a gradient of disturbance intensity. *Wetlands* 17:476-484.
- Jones, R. H., B. P. Allen and R. R. Sharitz. 1997. Why do early-emerging tree seedlings have survival advantages?: A test using *Acer rubrum* (Aceraceae). *American Journal of Botany* 84:1714-1718.
- Pederson, N. E., R. H. Jones and R. R. Sharitz. 1997. Age structure of old-growth loblolly pine stands in a floodplain forest. *Journal of the Torrey Botanical Society* 124:111-123.
- Allen, B. P., E. F. Pauley and R. R. Sharitz. 1997. Hurricane impacts on liana populations in an old-growth southeastern bottomland forest. *Journal of the Torrey Botanical Society* 124:34-42.
- Keeland, B. D., W. H. Conner and R. R. Sharitz. 1997. A comparison of wetland tree growth response to hydrologic regime in Louisiana and South Carolina. *Forest Ecology and Management* 90:237-250.
- Megonigal, J. P., W. H. Conner, S. Kroeger and R. R. Sharitz. 1997. Aboveground production in southeastern floodplain forests: A test of the subsidy-stress hypothesis. *Ecology* 78:370-384.
- Keeland, B. D. and R. R. Sharitz. 1997. The effects of water-level fluctuations on weekly tree growth in a southeastern USA swamp. *American Journal of Botany* 84:131-139.
- Kirkman, L. K., R. F. Lide, G. R. Wein and R. R. Sharitz. 1996. Vegetation changes and land-use legacies of depression wetlands of the western Coastal Plain of South Carolina: 1951-1992. *Wetlands* 16:564-576.
- Sharitz, R. R. 1996. Coarse woody debris and woody seedling recruitment in southeastern forests. In *Biodiversity and Coarse Woody Debris in Southern Forests*. J. W. McMinn and D. A. Crossley (eds.). U.S. Forest Service General Technical Report SE-94, Asheville, NC. pp. 29-34.
- Keeland, B. D. and R. R. Sharitz. 1995. Seasonal growth pattern of *Nyssa sylvatica* var. *biflora*, *N. aquatica*, and *Taxodium distichum* as affected by hydrologic regime. *Canadian Journal of Forest Research* 25:1084-1096.
- Young, P. J., B. D. Keeland and R. R. Sharitz. 1995. Growth response of baldcypress (*Taxodium distichum* [L.] Rich) to an altered hydrologic regime. *American Midland Naturalist* 133:206-212.
- Jones, R. H., R. R. Sharitz, S. M. James and P. M. Dixon. 1995. Tree population dynamics in seven South Carolina mixed-species forests. *Bulletin of the Torrey Botanical Club* 121:360-169.
- Edwards, A. L., R. Wyatt and R. R. Sharitz. 1994. Seed buoyancy and viability of the wetland milkweed *Asclepias perennis* and an upland milkweed *A. exaltata*. *Bulletin of the Torrey Botanical Club* 121:160-169.
- Schierenbeck, K. A., R. N. Mack and R. R. Sharitz. 1994. Effects of herbivory on growth and biomass allocation in native and introduced species of *Lonicera*. *Ecology* 75:1661-1672.
- Jones, R. H., D. S. Segal and R. R. Sharitz. 1994. Cation dynamics in bottomland hardwood forest litter. *American Midland Naturalist* 131:248-256.
- Kirkman, L. K. and R. R. Sharitz. 1994. Vegetation disturbance and maintenance of species diversity in

- intermittently flooded Carolina bays in South Carolina. *Ecological Applications* 4:177-188.
- Jones, R. H., R. R. Sharitz, P. M. Dixon, D. S. Segal and R. L. Schneider. 1994. Woody plant regeneration in four floodplain forests. *Ecological Monographs* 64:345-367.
- Young, P. J., J. P. Megonigal, R. R. Sharitz and F. P. Day. 1993. False ring formation of baldcypress (*Taxodium distichum*) saplings under two flooding regimes. *Wetlands* 13:293-298.
- Keeland, B. D. and R. R. Sharitz. 1993. Accuracy of tree growth measurements using dendrometer bands. *Canadian Journal of Forest Research* 23:2454-2457.
- Sharitz, R. R., M. R. Vaitkus and A. E. Cook. 1993. Hurricane damage to an old-growth floodplain forest in the Southeast. In *Proceedings of the Seventh Southern Silvicultural Research Conference*. J. C. Brissette (ed.). U.S. Forest Service General Technical Report 50-93. New Orleans, LA. pp. 203-210.
- Sharitz, R. R. and W. J. Mitsch. 1993. Southern floodplain forests. In *Biodiversity of the Southeastern United States*. W. H. Martin, S. G. Boyce and A. C. Echternacht (eds.). J. Wiley & Sons, Inc. pp. 311-372.
- Kirkman, L. K. and R. R. Sharitz. 1993. Growth in controlled water regimes of three grasses common in freshwater wetlands of the Southeastern USA. *Aquatic Botany* 44:345-359.
- Shea, M. M., P. M. Dixon and R. R. Sharitz. 1993. Size differences, sex ratio and spatial distribution of male and female *Nyssa aquatica* (water tupelo). *American Journal of Botany* 80:26-30.
- Sharitz, R. R., L. R. Boring, D. H. Van Lear and J. E. Pinder, III. 1992. Integrating ecological concepts with natural resource management of southern forests. *Ecological Applications* 2:226-237.
- Sharitz, R. R. 1992. Bottomland hardwood wetland restoration in the Mississippi drainage. In *Restoration of Aquatic Ecosystems: Science, Technology, and Public Policy*. National Academy Press, Washington, D.C. pp. 496-505.
- Jones, R. H. and R. R. Sharitz. 1991. Dynamics of advance regeneration in four South Carolina bottomland hardwood forests. In *Proceedings of the Sixth Biennial Southern Silvicultural Research Conference*. S. S. Coleman and D. G. Neary (eds.). U.S. Forest Service General Technical Report SE-70. Asheville, NC. pp. 567-578.
- Dunn, C. P. and R. R. Sharitz. 1991. Population structure, biomass allocation, and phenotypic plasticity in *Murdannia keisak* (Commelinaceae). *American Journal of Botany* 78:1712-1723.
- Putz, F. E. and R. R. Sharitz. 1991. Hurricane damage to old-growth forest in Congaree Swamp National Monument, South Carolina, U.S.A. *Canadian Journal of Forest Research* 21:1765-1770.
- Dunn, C. P. and R. R. Sharitz. 1990. The relationship of light and plant geometry to self-thinning of an aquatic annual herb, *Murdannia keisak* (Commelinaceae). *New Phytologist* 115: 559-565.
- Jones, R. H. and R. R. Sharitz. 1990. Effects of root competition and flooding on growth of Chinese tallow tree seedlings. *Canadian Journal of Forest Research* 20: 573-578.
- Liu, E. H., E. M. Iglich, R. R. Sharitz and M. H. Smith. 1990. Population genetic structure of baldcypress (*Taxodium distichum*) in a thermally affected swamp forest. *Silvae Genetica* 39: 129-133.
- Dunn, C. P. and R. R. Sharitz. 1990. The history of *Murdannia keisak* in the southeastern United States. *Castanea* 55:122-129.
- Sharitz, R. R., R. L. Schneider and L. C. Lee. 1990. Composition and regeneration of a disturbed river floodplain forest in South Carolina. In *Ecological Processes and Cumulative Impacts*. J. G. Gosselink, L. C. Lee and T. A. Muir (eds.). Lewis Publishers, Inc., Chelsea, MI. pp. 195-218.
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- Segal, D. S., R. H. Jones and R. R. Sharitz. 1990. Release of NH₄-N, NO₃-N and PO₄-P from litter in two bottomland hardwood forests. *American Midland Naturalist* 123:160-170.
- Jones, R. H. and R. R. Sharitz. 1989. Potential advantages and disadvantages of germinating early for trees in floodplain forests. *Oecologia* 81:443-449.
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- Schneider, R. L. and R. R. Sharitz. 1988. Hydrochory and regeneration in a bald cypress-water tupelo swamp forest. *Ecology* 69:1055-1063.

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- Schneider, R. L. and **R. R. Sharitz**. 1986. Seed bank dynamics in a southeastern riverine swamp. *American Journal of Botany* 73:1022-1030.
- Hueneke, L. F. and **R. R. Sharitz**. 1986. Microsite abundance and distribution of woody seedlings in a South Carolina cypress-tupelo swamp. *American Midland Naturalist* 115:328-335.
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- Sharitz, R. R.** and L. C. Lee. 1985. Recovery processes in southeastern riverine wetlands. In *Riparian Ecosystems and Their Management: Reconciling Conflicting Uses*. R. R. Johnson, C. D. Ziebell, D. R. Patton, P. F. Ffolliott and R. H. Hamre (eds.). USDA Forest Service General Technical Report Rm-120. pp. 499-501.
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- Murphy, P. G. and **R. R. Sharitz**. 1974. Properties of the tree flora in the forest transition from aspen to maple-birch type. In *The Enterprise, Wisconsin, Radiation Forest*, Vol. 1. *Pre-irradiation Ecological Studies*. (ed.) by T. D. Rudolph, AEC-TIC (TID26113). pp. 97-104.
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- Sharitz, R. R.** and J. F. McCormick. 1973. Population dynamics of two competing annual plant species. *Ecology* 54:723-740.

Other Articles, Book Reviews, and Printed Reports

- Sharitz, R. R.**, D. W. Imm, K. R. Madden and B. S. Collins. 2009. Impacts of military training and land management on threatened and endangered species in the southeastern Fall Line sandhills communities. Strategic Environmental Research and Development Program. Final Technical Report (SI-1302). 100 p.
- Sharitz, R. R.** and B. P. Allen. 2009. Quantify change in the old-growth forests of Congaree National Park USDO National Park Service. Final Report. (J5240 07 0008). 33 p.
- Imm, D. W., H. Westbury, L. Mulkey, **R. R. Sharitz**, and others. 2009. Ecosystem Management: synthesis and findings. Construction Engineering Research Laboratory, ERDC SR-09-2. 520 p.
- Barton, C., D. De Steven, **R. Sharitz**, J. Kilgo and others. 2007. The Carolina bay restoration project. Final Report 2000-2006. U.S. Department of Energy. DE-A109-00SR22188. 71p.

- Balbach, H., **R. Sharitz**, D. Imm, T. Tuberville and G. Wein. 2007. Strategy for in situ conservation of at-risk and declining sandhills species. *Proceedings 3rd Global Botanic Gardens Congress*, Botanic Gardens Conservation International, Surrey, UK.
- Wrona, A., D. Wear, J. Ward, **R. Sharitz**, J. Rosenzweig, J. P. Richardson, D. Peterson, S. Leach, L. Lee, C. R. Jackson, J. Gordon, M. Freeman, O. Flite, G. Eidson, M. Davis and D. Batzer. 2007. Restoring ecological flows to the lower Savannah River: A collaborative scientific approach to adaptive management. *Proceedings of the 2007 Georgia Water Resources Conference*. March 27-29, 2007. University of Georgia.
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- Harper, S. J. and **R. R. Sharitz**. 2005. Delineating sandhill communities: The use of advanced techniques to extract features from satellite imagery. Pages 123-136 in *Proceedings of the 4th Southern Forestry and Natural Resources GIS Conference*. P. Bettinger et al. (eds.). UGA Warnell School of Forest Resources. Athens, GA.
- Meyer, J. L., M. Alber, W. Duncan, M. Freeman, C. Hale, R. Jackson, C. Jennings, M. Palta, E. Richardson, **R. Sharitz**, J. Sheldon and R. Weyers. 2003. Summary report supporting the development of ecosystem flow recommendations for the Savannah River below Thurmond Dam. U.S. Army Corps of Engineers and The Nature Conservancy. 150 p. <http://www.rivercenter.uga.edu/pdfs/summaryreport.pdf>.
- Sharitz, R. R.** and B. S. Collins. 2001. Ecosystem management and restoration on the Savannah River Site: Contributions from 50 years of ecological research. In *Partners Across the Fall Line*. R. Lozar and W. Goran (eds.). USACERL Technical Report 01.
- Abrams, M. D., A. W. H. Damman, D. Faber-Langendoen, D. M. Graber, M. Hemstrom and **R. R. Sharitz**. 2000. Minimum standards for vegetation plot records. Chapter V. In *An Initiative for a Standardized Classification of Vegetation in the United States*. Ecological Society of America.
- Sharitz, R. R.**, M. R. Vaitkus and A. E. Cook. 1996. Hurricane damage to an old-growth floodplain forest in the Southeast. In *Hurricane Hugo: South Carolina Forest Land Research and Management Related to the Storm*. J. A. Haymond, D. D. Hook and W. R. Harms (eds.). U.S. Forest Service General Technical Report, Asheville, NC. pp. 83-91.
- Shealy, H. E., Jr., **R. R. Sharitz** and W. D. Marshall. 1996. GIS evaluation of wetlands of the Edisto River Basin. In *Proceedings of the Southern Forested Wetlands Ecology and Management Conference*. K. M. Flynn (ed.). Clemson University, Clemson, SC. pp. 115-126.
- McLeod, K. W., G. R. Wein and **R. R. Sharitz**. 1994. Wetland restoration for habitat reconstruction and stabilization. In *Meeting the Challenge* (ER'93 Environmental Restoration Conference). U.S. Department of Energy. pp. 1043-1047.
- Clark, R. A., E. F. Pauley and **R. R. Sharitz**. 1994. Forest dynamics research studies of post-hurricane ecosystem recovery. Highlights of Natural Resources Management. NPS/NPRO/NRR-94/13. pp 8-9.
- Golley, F. B., R. J. Berry, R. Bornkamm, K. Dahlberg, A. M. Jansson, J. King, J. Lee, R. Lenz, **R. R. Sharitz** and U. Svedin. 1992. What is the road to sustainability? *Ecology International* 20:15-20.
- Bedford, B. L., M. Brinson, **R. Sharitz**, A. van der Valk and J. Zedler. 1991. Evaluation of Proposed Revisions to the 1989 Federal Manual for Identifying and Delineating Jurisdictional Wetlands. *ESA Bulletin* 73:14-23.
- Sharitz, R. R.** and F. Putz. 1990. Damage from Hurricane Hugo to the Congaree Swamp National Monument. *Park Science* 10:23.
- Knox, J. N. and **R. R. Sharitz**. 1990. *Endangered, Threatened, and Rare Vascular Flora of the Savannah River Site*. SRO-NERP-20. 147 p.
- Sharitz, R. R.** 1989. On issues and responsibilities. *ASB Bulletin* 36:165-169.
- Schalles, J. F., **R. R. Sharitz**, J. W. Gibbons, G. J. Leverage and J. N. Knox. 1989. *Carolina Bays of the Savannah River Plant*. SRO-NERP-18. 70 p.
- Gibbons, J. W., **R. R. Sharitz** and L. Renshaw. 1989. Savannah River Ecology Laboratory: Environmental paradise and paradox. *South Carolina Wildlife* 36:44-49.
- Sharitz, R. R.** 1987. Moving On: A Way of Life. Catherine Keever. *Ecology* 68:760-761. (Book Review).
- Sharitz, R. R.** 1987. President's Corner: A view from here. *ASB Bulletin* 34:165-167.
- Wolf, R. B., L. C. Lee and **R. R. Sharitz**. 1986. Wetlands creation and restoration in the United States from 1970 to 1985: An annotated bibliography. *Wetlands* 6:1-88.
- Ford, J. P., D. E. Wickland, A. Ocampo and **R. R. Sharitz**. 1985. Mapping diverse vegetation with multichannel

- radar images. In *Remote Sensing for Exploration Geology*. Proceedings of the 4th ERIM Thematic Conference. San Francisco, CA. pp. 693-699.
- Christensen, E. J., J. R. Jensen and **R. R. Sharitz**. 1985. Remote sensing of wetlands at the Savannah River Plant. In *Proceedings of the Fifth DOE Environmental Protection Information Meeting*, Vol. 2. (CONF-841187). pp. 607-619.
- Sharitz, R. R.** 1982. *Structure and Functioning of Plant Populations*. A. H. S. Freijisen and J. W. Woldendorp (eds.). *Vegetatio* 49:60-61. (Book Review).
- Fernald, E. A., W. P. Gregg, Jr., T. W. Armentano, A. Radford, **R. R. Sharitz** and C. Wharton. 1981. *Guidelines for Identification, Evaluation and Selection of Biosphere Reserves in the United States*. MAB 8. 58 p.
- Sharitz, R. R.** 1975. Forest communities of Kiawah Island. In *Environmental Inventory of Kiawah Island*, Environmental Research Center, Columbia, SC. 42 p.

Books and Monographs

- National Research Council. 2009. *Toward a Sustainable and Secure Water Future: A Leadership Role for the U.S. Geological Survey*. National Academy Press, Washington, DC. 114 p. [Member of NAS Committee that wrote this monograph.]
- Batzer, D. P. and **R. R. Sharitz** (eds). 2006. *Ecology of Freshwater and Estuarine Wetlands*. University of California Press, Berkeley, CA. 568 p.
- National Research Council. 2003. *Adaptive Monitoring and Assessment for the Comprehensive Everglades Restoration Plan*. National Academy Press, Washington, DC. [Member of NAS Committee that wrote this monograph.]
- National Research Council. 2002. *Regional issues in aquifer storage and recovery for Everglades restoration: A review of the ASR regional study project management plan of the Comprehensive Everglades Restoration Plan*. National Academy Press, Washington, DC. [Member of NAS Committee that wrote this monograph.]
- National Research Council. 2002. *Florida Bay research programs and their relation to the Comprehensive Everglades Restoration Plan*. National Academy Press, Washington, DC. [Member of NAS Committee that wrote this monograph.]
- National Research Council. 2001. *Aquifer storage and recovery in the Comprehensive Everglades Restoration Plan*. National Academy Press, Washington, DC. [Member of NAS Committee that wrote this monograph.]
- National Research Council. 1990. *Restoration of Aquatic Ecosystems: Science, Technology and Public Policy*. National Academy Press, Washington, DC. [Member of NAS Committee that wrote this book.]
- Sharitz, R. R.** and J. W. Gibbons (eds.). 1989. *Freshwater Wetlands and Wildlife*. DOE Symposium Series (CONF-8603101). Office of Scientific and Technical Information, U. S. Department of Energy, Oak Ridge, TN. 1247 p.
- Sharitz, R. R.** and J. W. Gibbons. 1982. *The Ecology of Southeastern Shrub Bogs (Pocosins) and Carolina Bays: A Community Profile*. U. S. Fish and Wildlife Service, Office of Biological Services. FWS/OBS-82/04. 103 p.
- Cushing, C. E., N. H. Cutshall, L. Fraley, N. R. French, P. G. Murphy, **R. R. Sharitz**, J. R. Trabalka, F. B. Turner, F. W. Whicker and D. A. Wolfe (eds.). 1976. *Radioecology and Energy Resources*. Dowden, Hutchinson and Ross, Inc. 401 pp.
- Gibbons, J. W. and **R. R. Sharitz** (eds.). 1974. *Thermal Ecology*. AEC Symposium Series (CONF-730505). Technical Information Center, U.S. Atomic Energy Commission, Oak Ridge, TN. 670 p.

Symposia Organized

- The Savannah River Ecology Laboratory: 50 Years of Environmental Research. Aiken, SC. October 2001. (Organized and chaired full-day program of invited speakers).
- Freshwater Wetlands and Wildlife, ninth Savannah River Ecology Laboratory Symposium. March 1986. (Organized 4-day program; 700 participants).
- Phenotypic and Genotypic Variation Within and Between Plant Populations, North American Section of the Second International Symposium on The Structure and Functioning of Plant Populations. Wageningen, The Netherlands. May 1984. (Organized and chaired half-day program of invited speakers).
- Ecological Genetics of Plant Populations, an invited symposium at the Botany 80 meetings (joint meeting of the Botanical Society of America and Canadian Botanical Society). Vancouver, B. C. July 1980. (Organized full-day program with B. A. Schaal).

Plant Life History Strategies, an invited symposium at the Ecological Society of America meetings. August 1977.
(Organized half-day program with P. A. Werner and R. N. Mack).

Thermal Ecology, first Savannah River Ecology Laboratory Symposium. May 1973. (Organized 3-day program, with J. W. Gibbons; 300 participants).

Presentations at professional meetings and invited seminars (recent years)

2010: University of South Carolina, Aiken, SC. Conservation of rare sandhills plants: effects of land management and

military training activities (invited).

2008: Congaree National Park Research Symposium, Columbia, SC. Factors maintaining species richness in old-growth floodplain forests of the Congaree National Park (invited keynote address).

Southeast Floodplain Ecosystem Symposium, Little Rock, AR. Integrating science into the restoration and management of floodplain ecosystems of the Southeast (invited synthesis speaker).

Association of Southeastern Biologists, Greenville, SC. The future of freshwater wetlands in the southeastern United States (invited speaker in symposium on The Southeast Regional Knowledge Partnership: From Regional Relevance to Global Significance).

Department of Biology, University of North Carolina, Chapel Hill, NC. Disturbance and species richness in old-growth bottomland forests (Charles Jenner Lecture, invited).

SERDP and ESTCP Annual Technical Symposium, Washington, DC. Conservation of threatened, endangered and sensitive plant species on federal lands in the southeastern Fall Line sandhills.

2007: Ecological Society of America, San Jose, CA. A strategy for conservation of rare plants in the southeastern Fall

Line sandhills.

SERDP and ESTCP Annual Technical Symposium, Washington, DC. A strategy for conservation of rare plants in the southeastern Fall Line sandhills.

2006: Ecological Society of America, Memphis, TN. Forested floodplains and ecological services of large rivers: a biological perspective (invited symposium presentation).

Third Loxahatchee River Watershed Science Symposium, Jupiter, FL. Ecological assessment and restoration efforts in southeastern Coastal Plain rivers (invited keynote address).

Southeastern Old Growth Forest Workshop, Thomasville, GA. Old-growth bottomland hardwood forests (invited speaker).

SERDP and ESTCP Annual Technical Symposium, Washington, DC. Land management and military use effects on Fall Line sandhills communities and associated TES species.

2005: Society of Wetlands Scientists, Charleston, SC. Coastal Plain wetlands: What is their future (invited keynote address).

SERDP and ESTCP Annual Technical Symposium, Washington, DC. Land management and military use effects on Fall Line sandhills communities and associated TES species.

2004: Department of Defense Conservation Conference 2004, Savannah, GA. Effects of military training and land management on threatened and endangered species in the southeastern fall line/sandhills community (invited).

Ecological Society of America, Portland, OR. Description of southeastern fall-line sandhills communities and of habitat characteristics of TES plant species.

SERDP and ESTCP Annual Technical Symposium, Washington, DC. Effects of military training and land management on threatened and endangered species in the southeastern fall line/sandhills community.

2003: Ecological Society of America, Savannah, GA. Managing ecosystems for multiple species of concern. (invited presentation in special session on "Ecosystem management challenges for defense installations").

Ecological Society of America, Savannah, GA. Impacts of military training and land management on rare species in southeastern fall-line sandhills communities.

Society of Wetland Scientists, South Atlantic Chapter, Savannah, GA. Carolina bays and pocosins: hydrologically isolated or integrated wetlands? (invited presentation in symposium on "Isolated waters in the southeastern United States: the reality versus the regulatory").

SERDP and ESTCP Annual Technical Symposium, Washington, DC. Effects of military training and land management on threatened and endangered species in the southeastern fall line/sandhills community.

- 2002: International Congress of Ecology, Seoul, Korea. Hurricane effects on composition and succession in an old-growth floodplain forest of the southeastern USA.
Association of Southeastern Biologists, Boone, NC. Public lands and challenges for regional ecosystem management (invited).
Congaree Swamp National Monument, Columbia, SC, Science Symposium. Vegetation mapping and classification in the Congaree Swamp National Monument (invited).
Everglades Coalition, 17th Annual Conference. Fort Lauderdale, FL. The value of independent scientific oversight. (invited presentation in symposium on “A strategic plan to enroll Congress and the public”).
Society of Wetlands Scientists, Lake Placid, NY. Carolina bays: Hydrologically variable depression wetlands of the southeastern Atlantic Coastal Plain (invited).
SERDP and ESTCP Annual Technical Symposium, Washington, DC. Effects of military training and land management on threatened and endangered species in the southeastern fall line/sandhills community.
- 2001: International Association for Vegetation Science, Freising-Weihenstephan, Germany. River floodplain vegetation: Effects on nutrient dynamics and water quality (invited, plenary address).
University of South Carolina, Aiken, SC. The role of disturbance in southeastern floodplain forests. (invited).
- 2000: American Association for the Advancement of Science, Washington, DC. Riparian wetlands: Flood control and other services (invited).
International Association for Vegetation Science, Nagano, Japan. River floodplain forests: Vegetation dynamics and ecosystem services (invited, plenary address).
Millennium Wetlands Conference, Quebec City, Canada. Improving the odds of restoration success: Examples from southeastern freshwater marshes (invited).
- 1999: Fifth Eastern Old Growth Forest Conference, Duluth, MN. Ecological attributes of an old-growth southeastern bottomland hardwood forest (invited).
Savannah River Ecology Laboratory, Aiken, SC. The Savannah River Ecology Laboratory: Succeeding into the future (invited).
- 1998: INTECOL and SitE Conference, Venice, IT. Wetland restoration (invited).
Emory University, Environmental Studies Program. Wetland resource evaluation: Examples from the Southeast (invited).
VII International Congress of Ecology, Florence, IT. Wetland resource evaluation (invited); Randomization tests for temporal trends in species composition.
DOE National Research Centers Symposium, Aiken, SC. An experimental approach to constructed treatment wetland design.
VII Latin American Botanical Congress, Mexico City. Wetland plant communities: effects of disturbance and potential for restoration (invited).
Old-growth Forest Definitions Conference, Harvard Forest, MA. Congaree Swamp National Monument: Ecological attributes of an old-growth southeastern bottomland forest (invited)
- 1997: Eastern Old-growth Forest Conference, Clarion, PA. Ecological attributes and response to disturbance in an old-growth southeastern bottomland forest (invited).
Ecological Society of America and The Nature Conservancy. National Park Service vegetation classification and mapping: Challenges in an old-growth bottomland forest (invited symposium paper).
Utah State University, Ecology Center. Woody plant seedling survival patterns in floodplain forest understories; The Edisto River Basin: A citizens-based experiment in ecosystem management (invited).
Virginia Tech, Department of Biology, Founders Day Seminar. □Resource evaluation and conservation of the Edisto River Basin (invited).
- Ecological Society of America/Environmental Protection Agency Workshop on Ecosystem Management, Atlanta, GA. The Edisto River Basin Project: Ecosystem management (invited).
- 1996: Ecological Society of America and Society for Conservation Biology. An experiment in community involvement: Conservation and management in the Edisto River Basin.
Southern Forested Wetlands Symposium, Clemson, SC. Pocosins and Carolina bays (invited).
International Relay Symposium on Preservation and Regeneration of the Natural Environment, Shikoku, Japan. Restoration of riparian wetlands (keynote address).
Yaminishi Environmental Forum, Japan. Preserving wetland values (keynote address).

- International Symposium on Coexistence of Man and Nature, Nagano, Japan. Environmental restoration with native tree species (welcoming address).
- Japanese Center for International Studies in Ecology, Yokohama, Japan. Evaluation and conservation of the river environment (invited).
- University of Georgia Graduate Student Research Symposium. An experiment in community involvement: Conservation and management in the Edisto River Basin (plenary address).
- V International Wetlands Conference (INTECOL), Perth, Australia. Basin-wide evaluation of wetlands: Citizens-based resource planning (invited).

RESEARCH AND STUDENT TRAINING GRANTS

- Department of Energy, Environmental Management. 2009, 2010. Co-Investigator. Environmental Protection of DOE lands: studies in long-term stewardship. \$168,000, \$150,000.
- American Recovery and Reinvestment Act. 2009-2011. Co-Investigator. Alternative waste cap covers. \$395,000.
- National Nuclear Security Administration (NNSA). 2009, 2010. Co-Investigator. Baseline studies of water and soil quality, aquatic macroinvertebrate communities and vegetation in an area adjacent to the MOX Fuel Fabrication Facility construction site. \$220,000, \$200,000.
- NNSA 2009. Co-Investigator. H-02 constructed wetland studies – amphibians and plants. \$235,000.
- NNSA 2008. Co-Investigator. H-02 constructed wetland studies – amphibians and plants. \$101,000.
- Department of Defense and SERDP. 2006-07; 2007-08. Principal Investigator. On-site field studies and long-term monitoring required for BRAC. at Fort Benning, Georgia. \$303,909, \$234,171.
- Strategic Environmental Research and Development Program (SERDP). 2006-08. Principal Investigator. Impacts of military training and land management on threatened and endangered species of the southeastern Fall Line/Sandhills community. \$124,213.
- National Park Service. 2007-08. Principal Investigator. Long-term effects of wind disturbance on the old-growth forests of the Congaree National Park. \$25,000.
- National Park Service. 2005-07. Long-term effects of wind disturbance on the old-growth forests and lianas of the Congaree National Park. \$49,500.
- The Nature Conservancy. 2005-07. Principal Investigator. Proposed plant and invertebrate studies for the Savannah River Flows Project (2005-2007). \$75,000.
- National Park Service. 2003-05. Principal Investigator. Effects of altered flows in the Congaree River on the floodplain forests of the Congaree National Park. \$50,000
- Strategic Environmental Research and Development Program (SERDP). 2002-05. Principal Investigator. Impacts of military training and land management on threatened and endangered species of the southeastern Fall Line/Sandhills community. \$941,000.
- Department of Energy, Savannah River Site Environmental Restoration Division. 2002-05. Co-Investigator. Trace element distribution and impact on plant and invertebrate communities in the D-Area swamp ash plume. \$385,000.
- USDA Forest Service, Savannah River Institute. 2001-04, 2003-04, 2004-06. Principal Investigator. Vegetation establishment success in restored Carolina bay depressions on the Savannah River Site, South Carolina. \$43,750, \$35,500, \$35,500.
- National Science Foundation Dissertation Improvement Grant. 2001. Co-investigator. Plant organic nitrogen uptake in temperate terrestrial ecosystems. \$7,231.
- USDA Forest Service, Savannah River Institute. 2001. Principal Investigator. Vegetation monitoring of restored depression-wetlands on the Savannah River Site, South Carolina. \$17,000.
- National Park Service. 2000-02. Principal Investigator. Creation of a geographic information systems metadata program for the national parks in the southeast coast. \$31,956; Creation of a geographic information systems program plan for the Congaree Swamp National Monument. \$29,257.
- Strategic Environmental Research and Development Program (SERDP). 2000-04. Co-investigator. Thresholds of disturbance: Land management effects on vegetation and nitrogen dynamics. \$1,331,765
- ERDA/WSRC. 2000. Co-investigator. Phyto-immobilization study at the TNX outfall delta. \$71,684.
- Department of Energy. Responsible as SREL Division Head (and Acting Director, 1987) for handling more than \$36

- million in DOE Contracts with the University of Georgia's Savannah River Ecology Laboratory, 1983-99.
- WSRC. 1999. Co-investigator. Potential enhancement of radiocesium mobility in the Lower Three Runs Creek Operable Unit, Savannah River Site. \$10,000.
- National Park Service. 1999. Principal Investigator. Creation of a digital one-foot contour map of the Congaree Swamp National Monument. \$12,799; Review and verification of the Congaree Swamp National Monument topographic data base. \$1,800.
- ERDA/WSRC. 1998-99. Principal Investigator. Seed bank characterization of Pen Branch corridor and delta in relation to restoration. \$70,000
- Department of Energy (National Water Research Center). 1997-00. Principal Investigator. An experimental approach to constructed treatment wetland design. \$684,600
- University of Georgia Research Foundation. 1996. Travel to V International Wetlands Congress, Perth, Australia
- National Park Service. 1996-97. Principal Investigator. Wetland database-guided field verification of vegetative communities in the Congaree Swamp National Monument. \$40,000
- U.S. Fish and Wildlife Service. 1995. Co-investigator. Hydrologic restoration of Tate's Hell Swamp: A comparative watershed analysis of ecosystem response and recovery. \$65,000
- Mellon Foundation. 1994. Co-investigator. Monitoring the recovery of Coastal Plain forests from Hurricane Hugo. \$150,000.
- Mellon Foundation. 1994. Co-investigator. The role of hurricanes in structuring forest vegetation. \$130,000.
- National Park Service. 1991. Principal Investigator. Vegetation sampling for inventory of recovery patterns and effects of hydrology on forest recruitment and long-term community structure in the Congaree Swamp National Monument. \$21,047
- National Science Foundation. 1989-90. Co-investigator. CSRA Summer Science Research Program for High School Students. \$63,934
- National Science Foundation. 1989-90. Co-investigator. SREL Undergraduate Research Participation Program. \$34,110
- Department of Energy (National Environmental Research Park Program). 1986-87. Co-investigator. Rare, threatened and endangered plants of the SRP. \$6,000
- National Science Foundation. 1981. Principal Investigator. SREL Industrial Research Participation Program. \$25,000
- University of Georgia Research Foundation. 1981. Travel support to XIII International Botanical Congress, Sydney, Australia
- National Science Foundation. 1978. Principal Investigator. Support for U.S. Scientists to Travel to II International Congress of Ecology (on behalf of Ecological Society of America). \$10,000
- National Science Foundation. 1974-76, 1977-79, 1981-82. Principal Investigator. SREL Undergraduate Research Participation Program. \$6,350-14,250/year
- Department of Energy (University Programs Office). 1974-76, 1977-79. Principal Investigator. SREL-DOE Cooperative Laboratory Programs. \$45,000-55,000/year
- Atomic Energy Commission (Division of Production). 1972-74. Co-investigator. Distribution and cycling of radioactive isotopes released into the Savannah River swamp forest-Environmental implications. \$77,000-80,000/year
- Atomic Energy Commission/Department of Energy (Office of Environmental Research). 1972-85. Co-investigator. Response of a forest ecotone to ionizing radiation. \$2,600-2,200/year
- Department of Health, Education and Welfare Environmental Science Traineeship. 1969-70
- National Defense Education Act Title IV Fellowship. 1966-69

TEACHING AND STUDENT SUPERVISION

Classroom Teaching

- University of Georgia, Department of Plant Biology: PBIO 8150/ECOL 8150/ENTO 8150 (1999-present), Wetlands Ecology (3 semester-hour graduate class co-taught with one other faculty).
- BOT 884 (1988-1998), (graduate seminar topics: wetlands ecology, conservation and management of rare species, readings in plant community ecology, giving effective scientific presentations).
- Institute of Ecology and Department of Botany: BOT/ZOO 855 (1977), Population Ecology (5 qtr-hr graduate class co-taught with one other faculty).

Saginaw Valley State University, Department of Biology: Undergraduate classes in general biology, general ecology, plant taxonomy, plant morphology, man and environment (1970-71).

St. Andrews Presbyterian College, Department of Biology: Undergraduate class in general biology (1970).

Graduate Students

- Jaclin A. DuRant, University of Georgia, Odum School of Ecology, M.S. 2009. Major Professor. Conservation of four at-risk plant species in sandhill ecosystems of the southeastern Coastal Plain.
- William J. Duval, University of Georgia, Department of Plant Biology, Ph.D. 2008. Major Professor. Integration in a clonal woody shrub, *Vaccinium stamineum*. Currently: Presidential Management Fellow, National Institutes of Health, Washington, DC.
- Linda S. Lee. University of Georgia, Department of Plant Biology, M.S. 2008. Major Professor. Potential effects of altered hydrology on floodplain forests of the Savannah River. Currently: Research Professional II, Savannah River Ecology Laboratory, Aiken, SC.
- Amy S. Young, University of Georgia, Department of Plant Biology, M.S. 2005. Major Professor. Reproductive ecology of two Coastal Plain legumes: *Baptisia arachnifera* and *Baptisia lanceolata*. Currently: Research Technician, Institute of Applied Ecology, Oregon State University, Portland, OR.
- Laura E. Burbage, University of Georgia, Institute of Ecology, M.S. 2004. Major Professor. Environmental gradients and plant distributions in Carolina bays. Environmental Consultant.
- Susan A. Turner, University of Georgia, Institute of Ecology, Ph.D. 2004. Major Professor. Facilitation and competition between a nitrogen-fixing perennial legume, *Lespedeza cuneata*, and an annual, *Heterotheca subaxillaris*, in a South Carolina old field. Currently: Instructor, Greenville Technical College, Greenville, SC.
- Sara D. LaJeunesse, University of Georgia, Department of Plant Biology, M.S. 2004. Major Professor. Groundcover carbon and nitrogen cycling and legume nitrogen inputs in a frequently burned mixed pine forest. Currently: Science writer, College of Science, Penn State University, State College, PA.
- Virginia L. Jin, University of Georgia, Department of Plant Biology, Ph.D. 2004. Co-major Professor. Soluble organic nitrogen: plant and soil processes in the Upper Coastal Plain. Currently: Soil Scientist, USDA-Agricultural Research Service, Lincoln, NE.
- John M. Mulhouse, University of Georgia, Department of Plant Biology, M.S. 2004. Major Professor. Vegetation change in herbaceous Carolina bays of the Upper Coastal Plain: dynamics during drought. Currently: Research Associate, Sevilleta LTER, University of New Mexico, Albuquerque, NM
- Julian H. Singer, University of Georgia, Botany Department, M.S. 2001. Major Professor. Effects of overstory removal and fire on wetland vegetation and recruitment from the seed bank in a hydrologically restored Carolina bay wetland. Currently: Research Professional I, Savannah River Ecology Laboratory, Aiken, SC.
- Andrea D. Lowrance, University of Georgia, Department of Botany, M.S. 2001. Major Professor. Vegetation development in a created reservoir shoreline wetland.
- George B. Landman, University of Georgia, Botany Department, M.S. 2000. Major Professor. Seed bank characterization of Pen Branch corridor and delta in relation to restoration. Currently: Environmental Consultant, ESS Group, East Providence, RI.
- Amy E. Bergstedt, University of Georgia, Institute of Ecology, M.S. 1999. Major Professor. The effects of nitrogen fertilization on phytoremediation of TNT by *Eleocharis canadensis* and *Egeria densa*. Currently: Environmental Scientist, EPA Region 8, Boulder, CO
- Adrienne L. Edwards, University of Georgia, Botany Department, Ph.D. 1999. Major Professor. Population genetics of the rare *Sagittaria isoetiformis* and *S. teres* (Alismataceae) and the pollination ecology of *S. isoetiformis*. Currently: Environmental Consultant, Chico, CA.
- Palmer E. Hough, University of Georgia, Botany Department, M.S. 1998. Major Professor. Plant root penetration into compacted sand-bentonite soil mixtures: Engineering a bioinvasion barrier. Currently: Wetland Scientist, EPA, Washington, DC.
- Loretta L. Battaglia, University of Georgia, Institute of Ecology, Ph.D. 1998. Major Professor. Microsite heterogeneity and regeneration patterns along a post-hurricane disturbance gradient in an old-growth bottomland hardwood forest. Currently: Associate Professor, Department of Biology, Southern Illinois University, Carbondale, IL.
- Andrew J. Thompson, University of Georgia, School of Forest Resources, M.S. 1998. Co-Major Professor.

- Vegetation analysis and classification of an old-growth bottomland hardwood forest. Currently: Forest Technician, Savannah River Research Institute (USFS), Aiken, SC.
- Susan P. Miller, University of Georgia, Institute of Ecology, Ph.D. 1998. Major Professor. The dynamics of the grass-mycorrhizal fungi association in nutrient-poor wetlands.
- Bob D. Keeland, University of Georgia, Institute of Ecology, Ph.D. 1994. Major Professor. The effects of variations in hydrologic regime on diameter growth in *Nyssa aquatica*, *Nyssa sylvatica* var. *biflora*, and *Taxodium distichum*. Currently: Forest Ecologist, USGS Biological Resources Division, National Wetlands Research Center, Lafayette, LA (retired)
- Neil A. Pederson, Auburn University, Forestry School, M.S. 1994. Co-Advisor. Stand and spatial age distribution in an old-growth loblolly pine floodplain forest. Currently: Assistant Professor, Eastern Kentucky University, Richmond, KY.
- L. Katherine Kirkman, University of Georgia, Botany Department, Ph.D. 1992. Major Professor. Cyclical patterns of vegetation change in Carolina bay wetlands. Currently: Associate Ecologist, Joseph W. Jones Ecological Research Center, Newton, GA
- Kristina A. Schierenbeck, Washington State University, Botany Department, Ph.D. 1992. Co-Advisor. Comparative ecological and genetic studies between a native (*Lonicera sempervirens* L.) and an introduced congener (*L. japonica* Thumb.). Currently: Research Leader, USDA-Agricultural Research Service. Reno, NV.
- Rebecca W. Dolan, University of Georgia, Botany Department, Ph.D. 1983. Major Professor. The causes and implications of size hierarchies in *Ludwigia leptocarpa* (Onagraceae). Currently: Director, Friesner Herbarium, Department of Biological Sciences, Butler University, Indianapolis, IN
- Diane E. Wickland, University of North Carolina, Botany Department, Ph.D. 1983. SREL research supervisor. Vegetation patterns on derelict heavy metal mine sites in the North Carolina Piedmont. Currently: Manager, NASA Terrestrial Ecology Program, Washington, DC
- Howard S. Neufeld, University of Georgia, Botany Department, Ph.D. 1983. SREL research supervisor. Effects of light on growth, morphology, and photosynthesis in baldcypress (*Taxodium distichum* (L.) Rich) and pondcypress (*T. ascendens* Brongn.) seedlings. Currently: Professor, Department of Biology, Appalachian State University, Boone, NC
- Cheryl A. McCaffrey, University of Georgia, Botany Department, M. S. 1982. Major Professor. Effects of flooding and sedimentation on germination and survival of *Ludwigia leptocarpa* (Nutt.) Hara. Currently: Plant Ecologist, Bureau of Land Management, Portland, OR (retired)
- William A. Repaske, University of Georgia, Botany Department, M. S. 1981. Major Professor. Effects of heated water effluents on the swamp forest at the Savannah River Plant, South Carolina. Currently: Environmental Lawyer, Landry, Watkins, Repaske & Breaux, New Iberia, LA
- E. Jennifer Christy, University of Georgia, Botany Department, M. S. 1976. Major Professor. Population dynamics of two semi-aquatic macrophytes growing under different temperature regimes. Currently: Adjunct Faculty, Wilmington College, Claymont, DE.
- Janet S. Ivett, University of Georgia, Botany Department, M. S. 1976. Major Professor. Phenotypic and genotypic variation in *Typha latifolia* of the northeastern and southeastern United States. Currently: Gaithersburg, MD (retired).
- Julie E. Irwin, University of North Carolina, Botany Department, M. S. 1975. SREL research supervisor. Structure of stump communities in a stream affected by thermal effluent. Currently: Ecological Consultant, Seattle, WA

Recent graduate student funding awards and honors

Linda S. Lee:

University of Georgia Graduate School Assistantship (University-Wide Fellowship), 2005-07.

William L. Duval:

University of Georgia Department of Plant Biology Jaworski Travel Award, 2006.

Presidential Management Fellow Finalist, 2008

Virginia L. Jin:

National Science Foundation Summer Program in Korea for U.S. Graduate Students in Science and Engineering, 2002

National Science Foundation Dissertation Improvement Grant. Plant organic nitrogen uptake in temperate terrestrial Ecosystems, 2001

University of Georgia Graduate School Assistantship (University-Wide Fellowship), 1997-98, 1998-99
 Department of Energy Predoctoral Fellowship at SREL, 2000-03

Graduate Student Committees:

L. Snyder, UGA Dept. of Plant Biology, Ph.D. Student
 L. Carter, UGA Dept. of Genetics, Ph.D. Student
 B. Metts, UGA School of Ecology, Ph.D. Student
 S. Hovick, UGA Dept. of Plant Biology, Ph.D. 2009
 B. Nuse, UGA School of Forestry, Ph.D. Student
 C. Gormally, UGA Dept. of Plant Biology, Ph.D. 2010
 J. Schmidt, UGA Institute of Ecology, Ph.D. 2006.
 L. Krueger, UGA Dept. of Plant Biology, Ph.D. 2008
 S. Tate, UGA Dept. of Horticulture, M.S. 2005
 Y-Y. Chen, UGA Dept. of Plant Biology, Ph.D. 2007
 D. Marshall, UGA School of Forestry, Ph.D. Student
 L. Wayo, UGA Department of Geology, Ph.D.2006
 K. Francl, UGA School of Forestry, Ph.D. 2003
 L. Kruse, UGA Department of Botany, M.S. 2003
 J. Cohen, UGA Department of Botany, M.S. 2004
 C. McCormick, UGA Inst. of Ecology, Ph.D.2007
 S. Franks, UGA Department of Botany, Ph.D. 2002
 J. Johnston, UGA Department of Botany, Ph.D. 2002
 S. Panfil, UGA Department of Botany, Ph.D. 2001
 A. Dondero, UGA Department of Geology, M.S. 2001
 C. Ivey, UGA Department of Botany, Ph.D.1998
 R. Pappert, UGA Department of Botany, M.S.1998
 V. Apsit, UGA Department of Botany, Ph.D.1998
 J. Cruse, UGA Department of Botany, M.S.1997
 P. Young, University of Arkansas, M.S.1996
 A. Feldman, UGA Institute of Ecology, M.S.1995
 A. Meier, UGA Institute of Ecology, Ph.D. 1995
 C. McLachlan, UGA Landscape Design, M.S.1994
 E. Berg, UGA Department of Botany, Ph.D.1993
 A. Edwards, UGA Department of Botany, M.S. 1992
 R. Laushman, UGA Department of Botany, Ph.D.1989
 R. Semlitsch, UGA Department of Zoology, Ph.D.1984
 D. Hamilton, UGA Institute of Ecology, Ph.D. 1981
 E. Iglich, UGA Department of Botany, Ph.D. 1979
 R. Parmenter, UGA Department of Zoology, Ph.D. 1978
 P. Windle, UGA Department of Botany, Ph.D. 1977
 M. Zokan, UGA School of Ecology, Ph.D. Student
 G. Horner, Monash University, Australia, Ph.D. Student
 P. Lynch, UGA Dept. of Plant Biology, M.S. Student
 J. White, University of North Carolina, Ph.D. Student
 S. Gevaret, UGA Dept. of Plant Biology, Ph.D. Student
 T. Luhring, UGA School of Ecology, M.S. 2008
 L. Echols, UGA Dept. of Plant Biology, M.S.2007
 M. Caspary, UGA School of Ecology, Ph.D. Student
 M. Palta, UGA Institute of Ecology, M.S. 2005
 M. Reilly, UGA School of Forestry, M.S. 2004
 E. Reese, UGA Dept of Entomology, M.S. 2004
 S. Schaff, UGA School of Forestry, Ph.D. Student
 S. Zengel, Clemson University, Ph.D. 2008
 A. Leach, UGA Department of Botany, M.S. 2003
 O. Tsyusko, UGA Institute of Ecology, Ph.D.2004
 H. Luber, UGA Department of Botany, M.S. 2002
 M. Mills, UGA Institute of Ecology, Ph.D. 2002
 J. Gavin, UGA Institute of Ecology, M.S. 2001
 S. Dietz, UGA Department of Entomology, M.S. 2001
 R. Klaper, UGA Institute of Ecology, Ph.D. 1999
 M. Marcinko Kuehn, McMaster University, Ph.D. 1998
 R. Mejeur, UGA Department of Botany, M.S. 1998
 H. Oskarsson, UGA Institute of Ecology, Ph.D.1998
 E. Gaiser, UGA Institute of Ecology, Ph.D. 1997
 D. Milstead, UGA Department of Botany, M.S.1997
 B. Johnson, UGA Institute of Ecology, Ph.D.1995
 S. Cammack, UGA Department of Botany, M.S.1994
 J. Seward, UGA Department of Botany, M.S.1993
 C. Fuqueron, UGA Landscape Design, M.S.1993
 J. Lovich, UGA Institute of Ecology, Ph.D.1990
 T. Lamb, UGA Department of Zoology, Ph.D.1986
 K. Brown, UGA Institute of Ecology, Ph.D.1982
 E. Weiss, UGA Department of Botany, Ph.D.1980
 A. Antlfinger, UGA Department of Botany, Ph.D.1979
 L. Wallace, UGA Department of Botany, Ph.D.1978
 M. McDonald, Univ. of Western Ontario, Ph.D. 1977

Undergraduate Students Supervised (including college and research topic)

2001: Allison Garrett, S.C. Governor's School for Science and Mathematics (high school student). The effects of water variability, size, and percent canopy cover on species richness in Carolina bay wetlands.
 1999: John Beisheim, Massachusetts Bay Community College. Use of constructed wetlands in contaminant remediation.
 1998: Matthew J. Reilly, University of Vermont. Post-hurricane gap colonization and patterns of recruitment of pawpaw (*Asimina triloba*) in an old-growth bottomland forest.
 1995: Ronnie J. Devine, South Carolina State. Variation in seed weight and timing of germination among half-sib families of sweetgum (*Liquidambar styraciflua* L.).
 1995: Joshua D. Ford, St. Lawrence University. The role of a complex polysaccharide secreted by the aquatic plant *Brasenia schereberi*.
 1994: Michelle Safter, Colby College. Establishing a chronology of pondcypress (*Taxodium ascendens*) in a Carolina

- bay.
- 1992: Ashley S. Wyatt, Furman University. Seed production in rare and common species of *Baptisia*.
- 1991: John P. Caspersen, Oberlin College. Seedbanks of old-growth bottomland hardwood forests.
- 1990: Shandrea McCant, North Augusta High School. Vegetation classification of a Carolina bay from remotely sensed data (high school student, NSF Young Scholar Program).
- 1989: Reshma Patel, Evans High School. Mycorrhizal infection of roots of woody seedlings in the SRP swamp (high school student, NSF Young Scholar Program).
- 1988: Deborah J. Awl, Boston University. Responses of bottomland hardwood tree seedlings to shade and microsite.
- 1986: Sarah J. Lein, Iowa State University. Characteristics of wetland soils in a disturbed swamp.
- 1985: Diane E. Mahoney, Creighton University. Size-class distributions of baldcypress in the SRP swamp.
- 1983: Robert W. Sims, Lenoir-Rhyne College. Size-age relations in baldcypress.
- 1982: Alston E. Hodge, Clemson University. Vegetation of a thermally affected swamp forest.
David M. Potter, University of Maine. Biomass estimations of baldcypress and water tupelo.
- 1981: Karl W. Kleiner, Antioch College. Vegetation recovery in a post-thermal swamp.
- 1979: Katheryn van den Bosch, Kalamazoo College. Periphyton production in a disturbed stream.
- 1978: Diane Heim, University of Virginia. Reproductive strategies in *Typha*.
- 1977: Cornelia Cho, University of Georgia. Growth of *Ludwigia leptocarpa* under elevated temperatures.
- 1975: Susan J. Mashburn, Eckerd College. Genetic variation among *Typha* populations of the southeastern U.S.
Steve R. Bostick, Birmingham-Southern College. Allelopathy in *Typha*.
Claudette B. Tinney, Adrian College. Establishment and growth of Spanish moss.
- 1974: Melissa S. Stewart, University of Texas. Submerged macrophyte distribution along a temperature gradient.
Janet R. Suda, State University of New York at Oswego. Morphological aberrations in *Typha* in thermally-contaminated sites.
William M. Rizzo, University of Maryland. Periphyton production in a thermal stream.
Arlene G. Johnston, University of California-Davis. Soils and plant communities of the SRP.
- 1973: Susan C. Gause, Queens College. Mapping of forest communities in a swamp forest receiving thermal effluents.
Joyce Mims, Paine College. Distribution of aquatic macrophytes around a thermal cooling reservoir.
Mamie Stallings, Paine College. Growth of *Typha* species along a thermal gradient.
- 1972: Stephen K. Woods, Birmingham-Southern College. Radiocesium levels in contaminated sediments.
Stephani L. Scott, Wesleyan College. Uptake of radiocesium from contaminated sediments by herbaceous plants.
Julie E. Irwin, Agnes Scott College. Plant communities of thermally disturbed wetlands.
E. Jennifer Christy, University of New Hampshire. Vegetation of swamps receiving reactor effluents.
Robert I. McNeil, University of Tennessee. Plant species along a thermal gradient in a cooling reservoir.

Postdoctoral Associates

- Bruce P. Allen, 2007-08, Ph.D. Ohio State University. Wind damage and forest recovery in old-growth bottomland forests. Currently: Ecologist, Cold Region Research and Engineering Laboratory, U.S. Army Corps of Engineers, Hanover, NH.
- Susan A. Turner, 2004-05, Ph.D. University of Georgia. Population models for sandhills TES plant species. Currently: Instructor, Greenville Technical College, Greenville, SC
- Dehai Zhao, 2004-05, Ph.D. University of Georgia. Spatial patterns in tree distributions in a hurricane-damaged old growth bottomland forest. Currently: Research Associate, School of Forest Resources, University of Georgia, Athens, GA
- Stephanie Foré, 1994-96, Ph.D. Miami University. Variation in genetic markers, germination and seedling growth among half-sib families of *Liquidambar styraciflua*. Currently: Assistant Professor, Division of Science, Truman State University, Kirksville, MO
- Eric F. Pauley, 1993-96, Ph.D. University of Tennessee. Disturbance and recruitment in bottomland hardwood forests. Currently: Distance Learning Department, North Carolina State University, Raleigh, NC
- Andrew F. Schnabel, 1991-93, Ph.D. University of Kansas. Gene flow and dispersal in forested wetland species. Currently: Associate Professor, Department of Biological Sciences, Indiana University, South Bend, IN
- Eugene W. Schupp, 1989-92, Ph.D. University of Iowa (DOE Hollander Fellow). Seed dispersal and predation in

- swamp and bottomland hardwood forests. Currently: Associate Professor, Department of Rangeland Resources, Utah State University
- Susanne J. Daniell, 1988-90, Ph.D. University of California at Riverside. Seedling dynamics in bald cypress-water tupelo forests. Currently: Administrator, Western Washington University, Bellingham, WA
- Robert H. Jones, 1986-89, Ph.D. State University of New York at Syracuse. Regeneration processes in bottomland hardwood forests. Currently: Professor and Chair, Department of Biology, Virginia Tech, Blacksburg, VA.
- Gary R. Wein, 1986, Ph.D. Rutgers University. Wetland restoration and creation. Currently: Executive Director, Highlands Open Land Trust, Highlands, NC
- Christopher P. Dunn, 1985-88, Ph.D. University of Wisconsin. Successional processes in wetlands systems. Currently: Director, Harold L. Lyon Arboretum, Honolulu, HI
- Michael L. Scott, 1984-86, Ph.D. Michigan State University. Biomass and productivity of natural and disturbed swamp forests. Currently: Ecologist, USGS Biological Resources Division, Ft. Collins, CO
- Laura F. Huenneke, 1983-84, Ph.D. Cornell University. Regeneration processes in natural and disturbed swamp forests. Currently: Dean, College of Arts and Sciences, Northern Arizona University, Flagstaff, AZ

ADMINISTRATION

Acting Director, Savannah River Ecology Laboratory

Director of SREL during 1987-88, supervising activities of a research staff of 17 Ph.D. senior faculty and 11 postdoctoral faculty. This entailed responsibility for development and coordination of the laboratory's research, negotiation with Department of Energy and University of Georgia administration regarding program direction and budgetary considerations, SREL personnel management, and oversight of a \$7.3 million per year program. During this time I negotiated a change in the SREL administration relative to UGA that resulted in direct reporting through the Office of the Vice President for Research and also established the first tenure-track positions for SREL within UGA departments. I also hired one faculty member.

Division Head, SREL

Head of the Division of Wetlands Ecology (1983-86; 1988-96), directing the activities of a research staff of 9 Ph.D. faculty, additional postdoctoral and technical staff, and a budget of approximately \$2.8 million per year in a variety of studies related to structure and functioning of southeastern wetland ecosystems. I was responsible for program direction, resource allocation and faculty performance evaluation. I established Ph.D.-level Research Manager (administrative) positions for SREL within the University of Georgia system and hired three such personnel over a 12-year period. I also negotiated hiring arrangements for two faculty members in the Division.

Completed American Management Association four-week Management Course, two-week Executive Effectiveness Training Course, Strategic Planning Course, and Time Management Course.

Program Manager at SREL

Manager of the Environmental Stress and Assessment Program and the Wetlands Program at SREL (1980-1983). I had responsibility for scientific development and budget and personnel management of a research program funded by DOE, which grew from less than \$500,000 to approximately \$1.5 million during this time period.

Assistant Director of SREL

Assistant Director of SREL (1978-1979). I assumed responsibility for all aspects of SREL budget and personnel management and directed research programs in the absence of the Director. In addition, I handled visitor control and security, coordinated site use activities, and was responsible for numerous other aspects of laboratory operation.

Ecologist, U.S. Energy Research and Development Administration

In 1975-76, I served as a Professional Term Appointee with the ERDA Division of Biomedical and Environmental Research in Washington, DC. Major responsibilities of this position included reviewing research

proposals and contracts, coordinating and promoting the DBER program on environmental effects of fossil fuel combustion, reviewing various aspects of the DBER environmental research program, and representing ERDA on several inter-agency committees.

Director of Education Program at SREL

Director of the Education Program at SREL (1974-1978), which supported research activities of undergraduate and graduate students and visiting faculty scientists. Funds were procured from DOE (University Programs Office) and from the National Science Foundation. As Director of this program, I assumed responsibility for all phases of its operation, including procurement of funds, advertisement, processing of applications and selection of participants and supervisors, and preparation of reports.

PROFESSIONAL SERVICE

Professional Societies

Ecological Society of America: Vice President, 1990-91; Treasurer, 1987-90; Council Member, 1975-77, 1978-80, 1983-85; Awards Chair 2000-2003; Co-Program Chair 2005
Southeastern Chapter: Chair, 1978-80; Vice Chair, 1976-78; By-Laws Committee, 1983; Nominating Committee, 1983
Applied Section: Vice Chair, 1985-87; Nominating Committee, 1993
Vegetation Section: Chair, 1995-96; Vice Chair, 1994-95
International Affairs Section: Secretary, 1995-96
Board of Professional Certification, 1981-85, 1992-95; 2005-07 (Chair 1984-85)
Certification Appeals Board, 1986-87
Panel on Standards for Vegetation Sampling and Classification, 1996-97
Editorial Board, *Ecological Applications*, 1989-94
Certified Senior Ecologist, 1983-present
Committees: Radioecology Committee for 4th National Radioecology Symposium, 1973-75; Committee for Travel to II International Congress of Ecology (Chair), 1976-78; Committee for Travel to V International Congress of Ecology, 1989-90; Public Affairs Committee, 1980-84; Nominating Committee, 1981, 1998, 1999; Mercer Award Committee, 1987-88; Finance Committee (Chair), 1987-90; International Relations Committee, 1990-91 (Chair), 1993-96; Visions Committee, 1990-91; Committee on Wetlands Delineation, 1991; Professional Certification Review Committee, 1998; Cooper Award Committee, 1997-00; Education and Human Resources Committee, 1999-01; Committee for selection of National Park Foundation Postdoctoral Fellows, 2000-present; Committee on North American Vegetation Classification, 2002-03; Meetings Committee, 2004-06; Ecological Applications Editor Review Committee, 2007.
International Association for Ecology (INTECOL): Vice President, 2003-05; Secretary-general, 1990-94, 1994-98; Newsletter Editor, 1990-98; Executive Board (1998-2013)

Committees: Organizing Committee for VI International Congress of Ecology (1991-94); Organizing Committee for VII International Congress of Ecology (1995-98), Promoting Committee for VIII International Congress of Ecology (1998-02), Chair of Organizing Committee for IX International Congress of Ecology (2002-05)
Association of Southeastern Biologists: Secretary, 1982-85; Vice President, 1985-86; President-elect, 1986-87; President, 1987-88; Past President (Executive Council), 1988-89
Committees: Finance Committee (Chair), 1988-89; Publications Committee, 1996-97, 2001
Botanical Society of America: Conservation Committee, 1983-85
Ecological Section: Secretary, 1979-82
Society of Wetland Scientists: Elected Fellow, 2008
Society of Conservation Biologists: Editorial Board, *Conservation Biology*, 1997-01
International Man and Biosphere Program: U.S. Secretariat, Staff Officer, 1976
Torrey Botanical Club: Editorial Board, *Bulletin*, 1984-86
International Society of Plant Population Biologists: Secretary-Treasurer, 1984-1990; Newsletter Editor, 1977-84
American Institute of Biological Sciences: Council Member, 1987-90; Publications Committee, 1987-98
The Society of Sigma XI: Full Member

The British Ecological Society
International Association of Aquatic Vascular Plant Biologists
American Association for the Advancement of Science

Editorial Boards and Reviews

Editorial Board, *Conservation Biology*, 1997-01
Editor-in-Chief, *Wetlands Ecology and Management*, 1989-92; Editorial Board 1993-04
Editorial Board, *Ecological Applications*, 1991-94
Editorial Board, Population Ecology, *Bulletin of the Torrey Botanical Club*, 1984-86

Reviewer for scientific journals including *American Journal of Botany*, *American Midland Naturalist*, *American Naturalist*, *Aquatic Botany*, *Australian Journal of Ecology*, *Biological Reviews*, *Biotropica*, *Canadian Journal of Botany*, *Castanea*, *Conservation Biology*, *Conservation Ecology*, *Ecology and Ecological Monographs*, *Ecological Applications*, *Evolution*, *Forest Science*, *Forest Ecology and Management*, *Freshwater Biology*, *New Zealand Journal of Botany*, *Journal of Ecology*, *Journal of the Torrey Botanical Society*, *Journal of Vegetation Science*, *Journal of Mediterranean Ecology*, *Journal of the Torrey Botanical Society*, *Journal of Vegetation Science*, *Journal of Wildlife Management*, *Landscape Ecology*, *Limnology and Oceanography*, *Oecologia*, *Oikos*, *Plant Ecology*, *Quarterly Review of Biology*, *Science*, *Vegetatio*, *Wetlands*, *Wetlands Ecology and Management* and *Wildlife Society Bulletin*.

Reviewer of grant proposals for agencies including the National Science Foundation, Department of Energy, National Oceanographic and Atmospheric Administration, U. S. Forest Service, U. S. Fish and Wildlife Service, U. S. Park Service and the Environmental Protection Agency, Wisconsin Sea Grant Institute.

National and International Panels and Boards

National Research Council (National Academy of Sciences), Committee on Water Resources Activities at the U.S. Geological Survey, 2006-09
Association of Ecosystem Research Centers. Representative for SREL, 2006-08
American Institute of Biological Sciences. Member of National Ecological Observatory Network (NEON Inc.) Consortium Development Committee, 2005
National Research Council (National Academy of Sciences), Committee on Restoration of the Greater Everglades Aquatic Ecosystem, 1999-02
National Park Foundation, Review Panel for the National Parks Ecological Research Fellowship Program funded by the Mellon Foundation, 2000-08
Department of Defense, Eglin Air Force Base Ecosystem Management Working Group, 2001-08
National Science Foundation, Committee of Visitors. Review of the Division of Biological Infrastructure for FY 1997, 1998 and 1999
South Florida Water Management District, Peer Review Panel for Everglades Consolidated Report, 1999-02
International Symposium on Forested Wetlands, Nanjing, China. Program Coordinating Committee 1999-02
National Research Council (National Academy of Sciences), Committee on Noneconomic and Economic Valuation of Biodiversity: Applications for Ecosystem Management, 1995-98
National Science Foundation, Committee of Visitors. Review of NSF management of Division of Biological Sciences Infrastructure Instrument Related Activities, including Biological Field Stations and Marine Laboratories, 1998
National Science Foundation, Long Term Ecological Research (LTER) National Advisory Board, 1998-99
Ohio Board of Regents, reviewer for Hayes Investment Fund Program research instrumentation grants, 1999
Biological Program Division, U.S. Geological Survey. External Review Panel for Global Change and Wetlands Ecology, 1998
Tall Timbers Research Station, Tallahassee, FL., Science Advisory Board 1991-99; Science and Land Management Review Panel Member, 1993; Chair, 1998-99
North Carolina State University. Review Panel for Department of Botany Curriculum; Review Panel for Graduate Education Program (Chair), 1997
Mount Holyoke College. Review Panel for Interdisciplinary Environmental Sciences Program, 1997

National Science Foundation, Committee of Visitors. Review of NSF Special Projects Cluster of programs, including the Research Training Groups and the Research Opportunities for Undergraduates, 1995
U.S. Agency for International Development. Review Panel for University Development Linkages Project, 1995
National Science Foundation, Site Review Team for BBS Research Training Groups Program, 1994
U. S. Forest Service Consortium for Research on Southern Forested Wetlands, Steering Committee, 1990-94
National Research Council, BOSTID Review Panel on University Development Linkages, 1993
National Science Foundation, Review Panel for BBS Research Training Groups Program, 1993
U.S. Forest Service, External Review Panel for *Forest Ecosystem Management: An Ecological, Economic, and Social Assessment*, prepared for the White House to provide management and preservation options for old-growth forests in the Pacific Northwest, 1993
NSF, NOAA, NASA and TVA Sponsored Workshop. The Freshwater Imperative: A Research Agenda for Limnology, Invited workshop participant, 1993
International Union of Biological Sciences 24th General Assembly, Amsterdam. Representative of the International Association for Ecology (INTECOL), 1991
International Union of Biological Sciences and INTECOL, Sustainable Environmental Systems, Invited workshop participant, Paris, 1991
National Research Council (National Academy of Sciences) Committee on Restoration of Aquatic Ecosystems: Science, Technology and Public Policy, 1990-92
National Science Foundation, Review Panel for Research Training Grants Program, 1989
National Oceanographic and Atmospheric Administration, Review Panel for competitive grants for Earth Observing System multidisciplinary studies, 1988
Man and Biosphere Program. Member of committee to develop guidelines for establishing Biosphere Reserves in the southeastern U.S. 1981-82
The Institute of Ecology (TIE). NSF-supported panel to develop guidelines for Long Term Ecological Research (LTER) Program. 1980
National Research Council (National Academy of Sciences). Consultant to the Committee on Federal Research on Biological and Health Effects of Ionizing Radiation. 1980
Office of Technology Assessment, U. S. Congress. Toxic Substances in Food: Advisory Panel for assessing alternative monitoring systems. 1978-1979
Environmental Protection Agency, Review Panel for Environmental Biology Competitive Grants, 1979, 1981
National Science Foundation, Review Panel for Student Originated Studies Program, 1977, 1979
National Science Foundation, Review Panel for NATO Postdoctoral Fellowship Program, 1978, 1981
National Science Foundation, Review Panel for Undergraduate Research Participation Program, 1977

University of Georgia and SREL (partial list)

University of Georgia, Executive Committee, Plant Biology Department, 2005-2010
SREL Strategic Planning Committee, 2006
University of Georgia Press, Editorial Board, 2000-03
University of Georgia, Post Tenure Review Committees, Botany Department, 1998-99
Savannah River Site Comprehensive Planning Task Team, 1995-96
University of Georgia, Review Committee for Life Sciences (promotion and tenure), 1994-96, 2003-05, 2008-10
University of Georgia Program Planning Advisory Committee (strategic planning), 1994-95
Institute of Ecology, Appointment, Promotion and Tenure Committee, 1994
SREL Faculty Promotions Committee, Chair 1990-93

Other Regional and Local (partial list)

Audubon South Carolina, Executive Board Member, 2005-present
The Nature Conservancy and U.S. Army Corps of Engineers, Panel to review altered flows in the Savannah River, 2002-2005
University of South Carolina at Aiken, Plant Ecologist search committee, 1999
Friends of the Congaree Swamp National Monument, Board of Directors, 1997-99; Research Committee, 1998-present
Friends of the Edisto River, Board of Directors, 1998-2000

The Nature Conservancy, Panel to review proposed forest alliances for the southeastern US, 1996
Clemson University, Review Panel to compare impacts of even-aged and uneven-aged management on southern bottomland forest ecosystems, 1995-96
South Carolina Department of Natural Resources, Edisto River Basin Task Force. Wetlands Expert Committee Chair, 1993-97
Ruth Patrick Science Education Center, University of South Carolina at Aiken, Coordinating Committee Member, 1987-01
U. S. Fish and Wildlife Service. Consultant to review wetlands vegetation mapping and community descriptions along Santee and Cooper Rivers. 1980-81
South Carolina Wildlife and Marine Resources Department. Member of review panel for ecological characterization of the sea islands and coastal plain of South Carolina and Georgia. 1977-1978
Environmental Research Center, Inc., Columbia, S. C. Ecological consultant for environmental inventory and assessment for Kiawah Island, S. C. 1974-1975.
Lecturer on plant ecology, conservation biology, wetlands ecology, and poisonous plants of the southeastern US, to local civic organization and school groups
Author of ecological and botanical articles for popular magazines, including EnviroSouth, BioScience, Skylite, The Weekend Gardener, The Kiawah Sun Times, Park Science, Highlights of Natural Resource's Management.