

## SUMMARY CURRICULUM VITAE

[Steven B. Jack, Ph.D.](#)

Conservation Ecologist and Applied Forest Scientist



Dr. Jack's research interests include forest stand dynamics and silvicultural manipulations to achieve multiple objectives. Recent research has focused on interactions between forest canopy characteristics and regeneration dynamics and developing better understanding for the ecological basis of uneven-aged silvicultural practices. In addition to research activities he also is responsible for providing technical support, monitoring, and forest management skills within the Conservation (resource management) group at the Center. Dr. Jack is involved in many terrestrially-oriented outreach activities at the Center, including serving as

one of the primary instructors for the Ecological Forestry Training Workshop, and has served as an advisor to several agencies and landowners in Georgia, Florida and South Carolina.

### Education:

PhD, Forest Ecology and Silviculture, Utah State University, Logan, UT -1990

MS, Forest Resources and Conservation, University of Florida, Gainesville, FL -1986

AB (*summa cum laude*), Physics and Mathematics, Erskine College, Due West, SC - 1982

### Professional Experience:

2000 to present: Conservation Ecologist, J.W. Jones Ecological Research Center

1997 to 1999: Assistant Scientist, J.W. Jones Ecological Research Center

1991 to 1997: Assistant Professor, Department of Forest Science, Texas A&M University.

1990 to 1991: Postdoctoral Fellow, The Ecology Center and Department of Forest Resources, Utah State University.

### Professional Affiliations:

Society of American Foresters  
Society for Conservation Biology  
The Longleaf Alliance

### Recent Research Publications: (Past 5 years)

McIntyre, R. K., S. B. Jack, and R. J. Mitchell. 2008. Ecological forestry training: linking research and education to impact conservation in the longleaf ecosystem. Proceedings of the Ecological Society of America 93<sup>rd</sup> Annual Meeting.

O'Brien, J. J., J. K. Hiers, M. A. Callaham, Jr., R. J. Mitchell, and S. B. Jack. 2008. Interactions among overstory structure, seedling life-history traits, and fire in frequently burned neotropical pine forests. *Ambio* 37:542-547.

Addington, R. N., L. A. Donovan, R. J. Mitchell, J. M. Vose, S. D. Pecot, S. B. Jack, U. G. Hacke, J. S. Sperry, and R. Oren. 2006. Adjustments in hydraulic architecture of *Pinus palustris* maintain similar stomatal conductance in xeric and mesic habitats. *Plant, Cell & Environment* 29:535-545.

Brooks, J. R., and S. B. Jack. 2006. [A whole stand growth and yield system for young longleaf pine plantations in southwest Georgia.](#) Pages 317-318 in K. F. Connor (ed.). *A Longleaf Pine/Wiregrass Woodland in Southwest Georgia: Understory Hardwood Response to Harvest-Created Gaps.* Proceedings of the 13<sup>th</sup> Biennial Southern Silviculture Research Conference. General Technical Report SRS-92. USDA, Forest Service, Southern Research Station, Asheville, North Carolina.

Jack, S.B., R. J. Mitchell, and S. D. Pecot. 2006. [Silvicultural alternatives in a longleaf pine/wiregrass woodland in southwest Georgia: understory hardwood response to harvest-created gaps.](#) pp. 85-89 in Connor, K.F. (ed). Proceedings of the 13<sup>th</sup> Biennial Southern Silviculture Research Conference. Gen. Tech. Rep. SRS-92. Asheville, NC; U.S. Department of Agriculture, Forest Service, Southern Research Station. 640 pp.

Jack, S.B., W. L. Neel, and R. J. Mitchell. 2006. The Stoddard-Neel approach: A conservation-oriented approach. Pages 242-245 in S. Jose, E. Jokela, and D. Miller (eds.). *The Longleaf Pine Ecosystem: Ecology, Silviculture, and Restoration.* Springer, New York, New York. 438 pp.

Mitchell, R. J., J. K. Hiers, J. J. O'Brien, S. B. Jack, and R. T. Engstrom. 2006. [Silviculture that sustains: the nexus between silviculture, frequent prescribed fire, and conservation of biodiversity in longleaf pine forests of the southeastern United States](#). Canadian Journal of Forest Research 36:2724-2736. Reproduced with permission of the National Research Council Press © 2006.

#### Outreach Publications and Reports to Natural Resource Agencies: (Past 5 years)

Jack, S. B., C. G. Parkes, J. M. Stober, and R. T. Engstrom. 2005. [Inoculating red heart fungus \(\*Phellinus pini\*\) to create nesting habitat for the red-cockaded woodpecker](#). Pages 447-452 in R. Costa, and S. J. Daniels, compilers and editors. Proceedings of the Red-Cockaded Woodpecker Symposium IV, Red-Cockaded Woodpecker: Road to Recovery, Savannah, Georgia, 27-31 January, 2003. Hancock House Publishers, Blaine, Washington.

Stober, J. M., and S. B. Jack. 2005. [Down for the count? Red-cockaded woodpecker restoration on Ichauway](#). Pages 347-354 in R. Costa, and S. J. Daniels, compilers and editors. Proceedings of the Red-Cockaded Woodpecker Symposium IV. Red-Cockaded Woodpecker: Road to Recovery, Savannah, Georgia, 27-31 January, 2003. Hancock House Publishers, Blaine, Washington.

Jack, S. B. Uneven-aged forest management and forest restoration at the Fort Benning Army Installation. 2002. Final report submitted to The Nature Conservancy of Georgia.

#### Grants and Contracts: (Past 5 years)

McIntyre, R. K., and S. B. Jack. Collaborative management and restoration of longleaf pine in lowcountry South Carolina. The Nature Conservancy. \$53,423 (2009 – 2011).

McIntyre, R. K., R. J. Mitchell, and S. B. Jack. Doris Duke Foundation "Lowcountry Forest Conservation Partnership." \$4 million over 3 years in cooperation with South Carolina TNC, Clemson University and various conservation organizations; Jones Center received \$117,657 over 3 years (2003-2006).

#### Current Jones Center Research:

Mitchell, R. J., S. B. Jack, R. K. McIntyre, L. K. Kirkman, L. L. Smith, and L. M. Conner. Ecological forestry project: Silviculture that sustains and restores native biodiversity of pinelands in the Southeastern Coastal Plain: Legacies, fire and recovery periods.

Various adaptive management projects as lead investigator and co-investigator (12 total projects)

Recent Student Advisement:

David Dyson. Current. The effect of light and moisture on longleaf pine seedling growth under varying canopy densities. MS Thesis. Auburn University, Auburn, Alabama.

Corrie Pieteron. Current. Distribution, dynamics and control strategies for Japanese Climbing Fern. MS Thesis. University of Florida, Gainesville, Florida. (Co-advisor with Dr. Shibu Jose)

Cathryn E. "Cat" Eddins. 2007-2009. Conservation Management Apprentice.

Bryant R. Williamson. 2007-2009. Conservation Management Apprentice.

David S. Dyson. 2006-2007. Conservation Management Apprentice.

Alex V. Tyson. 2006-2007. Conservation Management Apprentice.

Rebecca C. Thomas. 2005-2006. Conservation Management Apprentice.

Cory D. Drennan. 2003-2004. Conservation Management Apprentice.

Lynne T. Boyd. 2003-2004. Conservation Management Apprentice.

Brandon T Rutledge. 2001-2003. Conservation Management Apprentice.