

## SUMMARY CURRICULUM VITAE 2007

### Steven B Jack, PhD

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)

- Addington RN, LA Donovan, R.J. Mitchell, JM Vose, SD Pecot, SB Jack, UG Hacke, JS 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.
- Jack SB, RJ Mitchell and SD 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 SB, WL Neel and RJ Mitchell. 2006. The Stoddard-Neel approach: A conservation-oriented approach. pp. 242-245 in S. Jose, E. Jokela and D. Miller (eds.), *The Longleaf Pine Ecosystem: Ecology, Silviculture, and Restoration*. Springer, New York, NY. 438 pp.
- Mitchell RJ, JK Hiers, JJ O'Brien, SB Jack and RT 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.
- Sheffield MCP, JL Gagnon, SB Jack and DJ McConville. 2003. Phenological patterns of mature longleaf pine (*Pinus palustris* Miller) under two different soil moisture regimes. *Forest Ecology and Management* 179:157-167.
- Almquist BE, SB Jack and MG Messina. 2002. Variation of the treefall gap regime in a bottomland hardwood forest: relationships with microtopography. *Forest Ecology and Management* 157:155-163.

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

- Jack SB, CG Parkes, JM Stober and RT Engstrom. 2005. [Inoculating red heart fungus \(\*Phellinus pini\*\) to create nesting habitat for the red-cockaded woodpecker.](#) In Costa, R. and S.J. Daniels, compilers and editors, Proceedings of the Red-Cockaded Woodpecker Symposium IV, Red-Cockaded Woodpecker: Road to Recovery, Savannah, GA, 27-31 January 2003. Hancock House Publishers, Blaine, WA. pp. 447-452.
- Stober JM and SB Jack. 2005. [Down for the count? Red-cockaded woodpecker restoration on Ichauway.](#) In Costa, R and SJ Daniels, compilers and editors, Proceedings of the Red-Cockaded Woodpecker Symposium IV, Red-Cockaded Woodpecker: Road to Recovery, Savannah, GA, 27-31 January 2003. Hancock House Publishers, Blaine, WA. pp. 347-354.
- Jack SB. 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 RK, RJ Mitchell and SB Jack. 2002. 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:

Jack SB and RJ Mitchell. 2004. Using Natural Regeneration Processes to Guide Managed Regeneration of Longleaf Pine.

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

Recent Student Advisement:

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

Alex V Tyson. 2006-present. 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.