

CURRICULUM VITAE

NAME: Bobby L. Lanford

TITLES: PhD; Associate Adjunct Professor, Auburn University; Adjunct Professor, Clemson University

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DATE AND PLACE OF BIRTH:
March 14, 1943
Woodruff, South Carolina

EDUCATION:

B.S., Forestry, Clemson University, 1965
M.S., Forestry, Clemson University, 1970
PhD, Operations Research, State University of New York, College of
Environmental Science and Forestry at Syracuse University, 1976

EXPERIENCE:

2002-present

Forest Operations Consultant assisting forestry equipment manufacturing, forest products, and logging companies with training and logging systems evaluations. Teaching of continuing education courses and providing expert witness help with court cases involving accidents, product liability, and contractual disputes. Developed a commercial weed spraying business. Developed business plans, cost benefit analyses and evaluated businesses for companies involved with engineering and manufacturing concepts. Natural resource inventory design and statistical analysis of natural resource data with specialized expertise in least squares regression analysis techniques.

2007-2013

Founded Big Sky Shavings, LLC along with two partners to make wood shavings for animal bedding from logs. Bought and assembled equipment and built entire

facility. Secured financial assistance and retail and wholesale markets. Purchased wood from logging contractors. Supervised 15 to 20 employees. Sold interest in company to a partner.

1998-2001

Associate Professor of Forest Harvesting in the School of Forestry and Wildlife Sciences at Auburn University. Job involves approximately 65% research and 35% teaching in logging and related activities. Research and teaching in timber harvesting methods with particular focus on cut-to-length harvesting methods including manual systems using horses and mules and fully mechanized systems using latest Scandinavian technology. Retired with title of Associate Professor Emeritus on December 31, 2001.

1989-1998

Associate Professor of Forest Harvesting and Extension Timber Harvesting Specialist in the School of Forestry at Auburn University. Job involved approximately 55% research, 20% extension, and 25% teaching in logging and related activities. Research and extension efforts concentrated on timber harvesting systems that are more environmentally acceptable.

1988-1989

Founder and Vice-President of Tenn-Tom Firewood, a large-scale commercial, packaged-firewood manufacturing and marketing company. Developed concept and facility from beginning up through manufacturing of product. Designed manufacturing facility and product packaging, located plant site, secured financial backing, created marketing network, and supervised the day-to-day operation of the plant. Was responsible for purchasing wood, hiring and firing employees (up to 50 employees at one time), purchasing packaging supplies, contracting with commercial haulers, selling firewood directly at yards, and operating a logging operation.

1978-1988

Associate Professor of Forest Harvesting in the School of Forestry at Auburn University. Job involved approximately 25% teaching and 75% research in logging and related operational activities. Taught courses in timber harvesting. Conducted research of logging equipment applications, particularly in regard to first pine plantation thinnings.

1977

As leader of Weyerhaeuser Company's Southern Harvesting Research and Development Group, was responsible for conducting investigations into new logging equipment and methods in five southern regions. Job required supervision of five professionals.

1976

Responsible for methods of timber inventory and scaling practices for all International Paper Company lands in the US. Job title was Manager - Timber Inventories and Mensuration.

1973-1975

Performed operational research in developing and implementing custom designed sampling scheme for timber inventory of International Paper Company's five million acres in their Southern Kraft Division. Job title was Senior Forest Mensurationist. Acted as in-house consultant on various other projects including major land purchases and statistical training.

1969-1971

Directed and conducted research project for American Pulpwood Association - Harvesting Research Project. Title was Production Tables Supervisor. Supervised time study teams in collecting productivity data from logging operations across the entire South. Performed statistical analysis of this data to develop logging production rates. Coordinated efforts of consultants and carried on liaison with sponsor forest products companies.

Military Service:

US Army Corps of Engineers. Received commission through ROTC. Spent one year teaching map reading and aerial photogrammetry at Fort Belvoir, Virginia. The other year of active duty was in Vietnam working with engineer construction units. Operated two rock quarries. Awarded Bronze Star for service. Completed reserve obligations after active duty.

Consultation:**Expert witness for court cases:****2014**

Family of mechanic vs. logging contractor

Independent mechanic was killed while haul tractor trailer was being loaded. As expert for the Plaintiff, Lanford supplied lawyers with understanding of common logging safety practices. Case was settled in favor of Plaintiff.

Family of lady killed vs. tree removal company

Owner of residential property was killed by a tree being felled. Lanford assisted Plaintiff lawyers by explaining common felling safety procedures and techniques and providing a written report of findings of a visit to the accident site. Case settled in favor of the Plaintiff.

2001

Wood supplier vs. forest products company and others

Plaintiff claimed losses from Defendant not adhering to terms of a

verbal contract to supply wood to a mill that was a long distance from the wood source. As expert for the Defense, Lanford reviewed the facts for the case and made recommendations to Defense on best course of action. Outcome is unknown.

Logging contractor vs. forest products company and others

Plaintiff claimed forest products company did not adhere to terms of chipping contract and forced him out of business. Lanford served as an expert for the Defendant on logging operations and assisted in documenting contractor's costs. Analysis proved that the Defendant was not responsible for the alleged Plaintiff losses. Case was settled out of court with favor to the Defendant.

Forest Service employee vs. US Forest Service

US Forest Service claimed criminal intent on the part of the Defendant in that he allowed timber to be taken from a US National Forest without proper payment. Lanford served as an expert for the Defendant concerning forest thinning practices and procedures and their application on the tracts in question. Case was tried in a Federal Court and dismissed by the Judge after Prosecution failed to prove criminal intent.

Truck driver vs. forest products company and others

Plaintiff was injured after a chip trailer fell from a chip-dumping device and hit him. Lanford served as an expert for the Plaintiff in proper safety procedures on wood handling facilities at mills. Case was settled for the Plaintiff prior to trial.

Log truck driver vs. wood products supplier and logging contractor

Plaintiff was hit by a tree being chainsaw felled. Lanford served as an expert for the Plaintiff in the safe techniques and procedures required during chainsaw felling. Case was settled for the Plaintiff out of court.

1999

Log truck driver vs. log purchasing company

Plaintiff was hit by a log that rolled off his truck during off loading. Defendant had improper off loading facilities and procedures that allowed accident. Lanford served as expert for the Plaintiff on woodyard safety practices and procedures. Case was settled for the Plaintiff before trial was completed.

1998

Log truck driver vs. log purchasing company

Plaintiff was hit by log that rolled off his truck during off loading. Defendant had improper off loading facilities and procedures that allowed accident. Lanford served as expert for the Plaintiff on woodyard safety

practices and procedures. Case was settled for the Plaintiff before trial was completed.

1997

Log truck driver vs. log purchasing company

Plaintiff was hit by log that rolled off his truck during off loading. Defendant had improper off loading facilities and procedures that allowed accident. Lanford served as expert for the Plaintiff on woodyard safety practices and procedures. Case was settled for the Plaintiff before trial was completed.

Forest products company vs. United States

US Government claimed that company had improperly taken tax deductions for hurricane damages. Lanford assisted Government as an expert on timber inventory and mensuration. Case has been settled as far as known.

Forest products equipment manufacturer vs. US Government

Assisted manufacturer in case involving import duties on logging machines being brought into the US. Government claimed that machines were highway vehicles and subject to import taxes not normally charged to woods equipment. Lanford served as expert for the Plaintiff defining the attributes of the machines in question. Case is still in litigation as far as known.

Wife of log truck driver vs. forest products company

Plaintiff sued for damages resulting from the death of her husband, who was hit by log that rolled off his truck during off loading and was killed. Defendant had improper off loading facilities and procedures that allowed accident. Lanford served as expert for the Plaintiff on woodyard safety practices and procedures. Case was settled for the Plaintiff before trial was completed.

1996

Hunter vs. forest products company and logging contractor

Individual was injured while visiting a logging operation. Logger failed to give proper safety instructions to Plaintiff. Required understanding of safety issues associate with logging operations. Witness for the plaintiff. Case settled for the Plaintiff out of court.

1995

Log truck driver vs. log purchasing company

Plaintiff was hit by log that rolled off his truck during off-loading. Defendant had improper off loading facilities and procedures that allowed accident. Lanford served as expert for the Plaintiff on woodyard safety

practices and procedures. Case was settled for the Plaintiff before trial was completed.

1980's

Equipment manufacturer vs. logging contractor

Contractor claimed faulty design on skidder winch causing injury during use. Required examination of winch design and methods of use. Witness for the Defendant.

Equipment manufacturer vs. logging contractor

Contractor sued equipment manufacturer for failure of equipment to operate up to expectations. Required expert opinion concerning potential production and profits of logging contractor. Witness for the Defendant.

Forest products company vs. logging contractor

Contractor sued company for breach of a chipping contract. Required testimony of levels of production and costs of harvesting with in woods chipping equipment. Witness for the Defendant. Case settled for the Defendant.

Lumber company vs. US Army Corps of Engineers

Required testimony as to changes in logging costs when a peninsular of land was made into an island by a cross canal dug by the Corps of Engineers for barge navigation. Logging costs dating back to the time of the canal installation (1960's) were researched and estimated. Witness for the Plaintiff. Case was awarded to US.

Equipment design:

Chainsaw safety device - Retained by National Bureau of Standards to review safety device for chainsaws for potential government funding. Performed First and Second Stage Evaluations.

Chainsaw operator's manual for bow guides - Reviewed manual for improvements to reduce the safety hazards associated with chainsaw use.

Environmental impact studies:

Clearcutting effects along the Tombigbee and Warrior River basins - Participated with a team of scientists studying environmental effects of clearcutting. Identified logging methods, costs and economic ramifications as a part of an overall study initiated by the U.S. Army Corps of Engineers.

Training and continuing education for foresters and loggers:

Logging Cost Analysis Workshops have been presented approximately

once or twice a year since the early 1980's. Hundreds of foresters, loggers, and other persons interested in logging costs have attended. Since the mid-1980's the course has spotlighted a spreadsheet approach to logging cost analysis that was developed by Lanford along with others at Auburn University. This approach is the most widely accepted method of logging cost analysis in the forestry and logging professions.

Thinning Analysis and Methods Workshops have been offered since the mid-1980's and have trained hundreds of landowners, foresters, and loggers in the many aspects of commercial thinning of timber both from a silvicultural as well as an operational perspective. Concepts presented in the course embody the latest research findings including biological responses to cultural treatments and the operational methodology and equipment required to achieve ecological goals.

Harvest Planning and Layout Workshops have been offered during the late 1990's until present and have been presented in response to an interest by land managers and loggers to prepare timber harvesting sites in a way that efficiently removes wood while meeting guidelines and regulations required to protect environmental interests. Considerable attention has been given to the latest computer tools for documenting planning procedures.

Chainsaw Safety and Operation Methods is hands-on training of proper procedures for chainsaw felling and processing. This training has been customized to diverse groups ranging from casual firewood cutters to professional loggers. The training embraces the open-faced techniques developed by renowned Swedish logging trainer Soren Eriksson.

GPS and Land Navigation Workshop for professionals and nonprofessionals introduced students to the latest GPS equipment and how they relate to maps and land navigation.

Other:

Timber cruises, forest management advice and equipment and logging system selection consultation with various companies. Advisory status with several forestry equipment manufacturers including Caterpillar, Timberjack, Valmet, Melroe, and Ponsse.

Served on Ad Hoc Committee on Alabama BMP's.

Helped logging contractors successfully develop cut-to-length operations working on NIPF lands.

Assisted a Korean pulp firm in selecting appropriate harvesting systems

for their new chip mill operation in north Alabama.

Served as a member of Tri County RAC (Resource Advisory Committee) for 8 years allocating Title II funds to the USDA Forest Service Beaverhead Deerlodge National Forest in Montana for resource improvement projects.

PROFESSIONAL AND HONORARY MEMBERSHIPS AND OFFICES:

Registered Forester, State of Alabama, Number 937, retired
Alabama Forestry Association, retired
Council on Forest Engineering, charter member
Xi Sigma Pi
Alpha Zeta
Eagle Boy Scout with God and Country Award

REFEREED JOURNAL ARTICLES:

- Greene, W.D. 1986. Operational problems associated with second thinning of pine plantations. Ph. D. Dissertation, Auburn University, AL, 159 pp. ¹
- Greene, W.D. and B.L. Lanford. 1985. A grapple processor for plantation thinning. Forest Prod. J. 35(3):60-64. ²
- Greene, W.D., B.L. Lanford and J.N. Hool. 1987. Potential product volumes from second thinnings of southern pine plantations. Forest Prod. J. 37(5):8-12. ²
- Greene, W.D., B.L. Lanford and E.F. Mykytka. 1987. Stand and operating effects on feller-buncher productivity in second thinnings of southern pine. Forest Prod. J. 37(3):27-34. ²
- Greene, W.D., B.L. Lanford and R.A. Tufts. 1987. Evaluation of harvesting systems for the second thinning of southern pine plantations. Forest Prod. J. 37(6):9-14. ²
- Greene, W.D., J.L. Fridley and B.L. Lanford. 1987. Operator variability in interactive simulations of feller-bunchers. Transactions ASAE 30(4):918-921, 931. ²
- Holtzsch, M.A. 1995. Cut-to-length logging: A comparison of thinning systems. M.S. Thesis, School of Forestry, Auburn University, AL, 155 pp. ¹
- Holtzsch, M.A. and B.L. Lanford. 1997. Tree diameter effects on cost and productivity of cut-to-length systems. Forest Prod. J. 47(3):25-30. ²
- Lanford, B.L. 1970. Cost analysis of shortwood and tree length harvesting systems. M.S. Thesis, Department of Forestry, Clemson University, Clemson, SC, 70 pp.
- Lanford, B.L. 1975. Projection of forest stand tables based on successive measurements

¹ Major professor.

² Major professor during graduate studies of first author.

of permanent plots. Ph.D. Dissertation, State University of New York, College of Environmental Science and Forestry, Syracuse, NY, 438 pp.

Lanford, B.L. 1982. Application of a small forwarder in plantation thinning. *South. J. Appl. Forestry* 6(4):184-188.

Lanford, B.L. 1983. Productivity and costs of the Timberjack 30 feller buncher. *Forest Prod. J.* 33(1):62-66.

Lanford B.L. and R. B. Rummer. 2001. Special silvicultural treatments using cut-to-length harvesting methods. *South. J. Appl. Forest.* In review.

Lanford, B.L., H. Sobhany and B.J. Stokes. 1990. Tree-length loading production rates for southern pine. *Forest Prod. J.* 40(10):43-46.

Lanford, B. L. and B. J. Stokes. 1995. Comparison of two thinning systems. Part 1. Stand and site impacts. *Forest Prod. J.* 45(5):74-79.

Lanford, B. L. and B. J. Stokes. 1996. Comparison of two thinning systems. Part 2. Productivity and costs. *Forest Prod. J.* 46(11/12):47-53.

Lanford, B.L., C. deHoop and C.G. Vidrine. 2001. Performance of a Ponsse CTL system working in Louisiana during winter months. *Forest Prod. J.* In review.

Lanford, B.L., R.E. Hoffman and R.H. Iff. 1983. A small skidder for thinning: The Holder A55F tractor. *South. J. Appl. Forestry* 7(3):161-165.

Schroering, J.D., B.L. Lanford, and B.J. Stokes. 1985. Franklin 105 Feller Buncher: Fifth row thinning application. *South. J. Appl. Forestry* 9(2):110-113. ²

Stokes, B.J. and B.L. Lanford. 1983. The Albright felling saw in saw timber stands. *Transactions ASAE* 26(1) : 44-46, 53.

Stokes, B.J. 1987. Harvesting systems for first commercial thinning of southern pine plantations. Ph. D. Dissertation, Auburn University, AL, 193 pp. ¹

Stokes, B.J. and B.L. Lanford. 1985. Evaluation of the Timbco Hydro Buncher in southern plantation thinning. *Transactions ASAE* 28(2):378-381. ²

Stokes, B.J. and B.L. Lanford. 1987. Manual delimbing and bucking of bunched wood in thinnings. *Forest Prod. J.* 37(3):23-26. ²

Sommerville, M.C., B.L. Lanford and B.J. Stokes. 1984. Mechanized piling during pine plantation thinning. *Forest Prod. J.* 34(4):45-49. ²

Shrestha, Suraj P., Bobby L. Lanford, Robert B. Rummer and Mark Dubois. 2005. Intl. J. of Forest Engr., p. 167-180.

Shrestha, S.P., B.L. Lanford, B. Rummer and M. Dubois. 2008. Soil Disturbances from Horse/Mule Logging Operations Coupled with Machines in the Southern US. International Journal of Forest Engineering. 19(1):16-22.

Tufts, R.A., B.J. Stokes and B.L. Lanford. 1988. Productivity of grapple skidders in southern pine. Forest Prod. J. 38(9):24-30.

NON-REFEREED ARTICLES:

Ashmore, C., B.J. Stokes and B.L. Lanford. 1983. Thinning performance of the Hydro-Ax 411 in fifth row removal. Am. Soc. Agric. Engr., Pap. 83-1604, 16 pp.

Ashmore, C., B.J. Stokes and B.L. Lanford. 1987. Performance and cost of the Boreal 20-inch circular saw. USDA Forest Serv. South. For. Expt. Sta., Res. Paper SO-238, 6 pp.

Bolding, M. C. and B. L. Lanford. 2001. Forest fuel reduction through energy wood production using a small chipper/CTL harvesting system. In proc. 2001 annual COFE meeting in Snowshoe, WV. ²

Bolding, M.C., B.L. Lanford, and L.D. Kellogg. 2003. Forest fuel reduction: current methods and future possibilities. In proc. 26th Annual Council on Forest Engineering Meeting; Bar Harbor, ME. ²

Bottenfield, T.R., M.S. Golden, R.S. Meldahl, J.P. Caulfield, B.L. Lanford and D.N. Terry. 1986. Early results of silvicultural and ecological impacts of harvesting systems in thinning loblolly pine plantations. P. 433-438 in proc. Southern Silvicultural Res. Conf., Atlanta, GA.

Brinker, R.W., D. Miller, B.J. Stokes and B.L. Lanford. 1989. Machine rates for selected forest harvesting machines. AL Agric. Expt. Sta., Cir. 296, 24 pp.

Burrows, J.A., W.D. Greene, B.L. Lanford and R.A. Tufts. 1985. Planning cost control part II: Logging layout. Timber Harvesting 33(7):26-30.

Conway, J.S., B.L. Lanford, B.J. Stokes and W.D. Greene. 1985. A generalized plotting program to produce stand maps. AL Agric. Expt. Sta., Bull. 574, 15 pp. ²

Cunia, T. and B.L. Lanford. 1972. Production Tables Study Volume I: A sampling method for production studies in logging operations. Am Pulpwood Assoc. - Harv. Res. Proj., Atlanta, GA.

Greene, W.D. and B.L. Lanford. 1984. Geometric simulation of feller-bunchers in southern pine plantation thinning. Am. Soc. Agric. Engr. 1984 Winter Meeting, Pap.

84-1612, New Orleans, LA, 18 pp. ²

Greene, W.D. and B.L. Lanford. 1984. Potential for second thinnings in southern pine plantations. P. 212-215 in proc., Third Biennial South. Silvi. Res. Conf., Atlanta, GA. ²

Greene, W.D. and B.L. Lanford. 1986. An interactive simulation program to model feller-bunchers. AL Agric. Expt. Sta., Bull. 576, 24 pp. ²

Greene, W.D., B.L. Lanford and B.J. Stokes. 1984. Productivity of the Valmet 940 Grapple Processor in southern pine plantation thinning. 1984 COFE/IUFRO Conf., Orono, ME, p. 105-108. ²

Greene, W.D., J.L. Fridley and B.L. Lanford. 1985. Variability between operators in interactive simulations of feller-buncher operations. Am. Soc. Agric. Engr., 1985 Winter Meeting, Pap. 85-1608, Chicago, IL, 17 pp. ²

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Hartsough, B.R. and B.L. Lanford. 1985. An aid for the selection of forest harvesting systems. P. 337-347 in proc., Systems Analysis in Forest Resources, Athens, GA.

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- Lanford, B.L. and D. Burdette. 1991. Stream crossings. AL Treasured Forests 10(4):20-22.
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- Lanford, B.L. and T. Cunia. 1971. Tree volume tables for seven pulpwood species in the South. Am. Pulpwood Assoc. - Harv. Res. Proj., Atlanta, GA.
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- Schroering, J.D. and B.L. Lanford. 1985. Timber cruising with the Hewlett-Packard 41CV hand-held programmable calculator. *AL Agric. Expt. Sta., Bull.* 564, 38 pp. ²
- Shrestha, S. P. and B. L. Lanford. 1999. Ground disturbance and residual stand impacts from horse/mule logging. Paper 1999 annual COFE meeting in Natchez, MS. ²
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