

VITA

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PERSONAL

Place and date of birth - Winchester, Virginia, August 20, 1953

EDUCATION AND PROFESSIONAL QUALIFICATION

B.S.	-	Forestry, Virginia Polytechnic Institute and State University	1975
M.S.	-	Forestry, Virginia Polytechnic Institute and State University	1977
M.S.	-	Statistics, Purdue University	1980
Ph.D.	-	Forestry, Purdue University	1982
CF	-	Society of American Foresters Certified Forester No. 1141	2002-present

Lynch, T.B. 1982. Diameter distribution growth and yield models for mixed species forest stands. Ph.D. thesis, Purdue Univ., West Lafayette, IN. 216p. Thesis advisor: Dr. John W. Moser, Jr.

Lynch, T.B. 1977. Prediction equations for centers of gravity and moments of inertia of loblolly pine stems and for loblolly pine stump diameter. M.S. thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA. 59p. Thesis advisor: Dr. Timothy A. Max.

EMPLOYMENT AND PROFESSIONAL EXPERIENCE

Forest inventory field work, ITT-Rayonier Corp., Waycross, Georgia	summer 1975
Graduate Research Assistant, Virginia Polytechnic Institute and State University	1975-1977
Graduate Instructor, Purdue University	1977-1979
Graduate Research Assistant, Purdue University	1979-1981
Assistant Professor, Oklahoma State University	1982-1987
Associate Professor, Oklahoma State University	1987-2001
Professor, Oklahoma State University	2001-present

PRESENT DUTIES

Teaching (30%):

NREM 2103 Forest Mensuration I
NREM 3102 Forest Measurements II (OSU Forestry Summer Camp)
NREM 3063 Natural Resource Biometrics
NREM 5030 Advanced Problems

PRESENT DUTIES (continued)

Research (70%):

Carbon Sequestration in Oklahoma Forests and Probable Response to Climate Change

Supervision of PhD level Senior Research Specialist

Recruit, train and supervise field crews for establishment and re-measurement of shortleaf pine growth plots (more than 10 two-person crews since 1985)

Research areas:

Modeling growth and development of natural, even-aged shortleaf pine forests

Modeling growth and development for southern pine under uneven-aged management

Modeling regeneration success for naturally regenerated shortleaf pine

Modeling needle litterfall for naturally occurring shortleaf pine forests

Modeling tree branch characteristics for southern pine

Polyareal plot sampling

Growth estimation from permanently established sample points

Distance sampling for forest inventory

Critical height sampling and Monte Carlo integration for log, tree and stand volume estimation

Estimation of volume, product yield, weight, center of gravity and moment of inertia for individual tree-length stems and logs

Modeling plywood veneer yield and veneer bolt grade

Evaluation of restoration of shortleaf pine – bluestem forest type (pre-settlement forest type) for the Ouachita highlands

Growth and development of intensively managed loblolly pine plantations

Sampling and monitoring great plains riparian ecosystems

GRANT SUPPORT

	year									
<u>source</u>	1985	1986	1987	1988	1989	1990	1991	1992	1993	
Forest Serv.	\$89,000	(dur. 3yr.)								
Forest Serv.		\$8,000								
Forest Serv.		\$8,164	(dur. 4yr.)							
Forest Serv.					\$21,000	\$22,000	\$22,000			
Forest Serv.								\$6,000		
Forest Serv.								\$22,000	\$22,000	
Forest Serv. ¹									\$18,000	
Georgia Pac. Co. ²					\$2,000					

¹with L.R. Gering

²with R.F. Wittwer

GRANT SUPPORT (continued)

source	year									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	
Forest Serv.	\$21,675	\$21,560	\$22,000	\$22,000	\$22,500	\$22,000				
Forest Serv. ²						\$8,960		\$15,000		
Forest Serv. ³						\$18,000				
Forest Serv.							\$16,229			
OSU (Berger Int.)			\$1,500							
OSU Regents					\$4,533					
OSU								\$1,200		
Temple-Inland ⁴										\$34,448

source	year							
	2004	2005	2006	2007	2009	2011	2012	
Forest Serv.	\$2,000		\$3,000	\$3,000				
Forest Serv.			\$30,000	\$30,000	\$30,000	\$50,000	\$50,000	
Total:	\$669,769							

RESEARCH PROJECTS AND GRANTS

Lynch, T.B. (PI) and Will, R. Rayonier loblolly pine individual tree volume and weight estimation project. Rayonier Corp. \$60,000, funded

Lynch, T.B. (PI) Individual tree growth equations and implied diameter distributions for uneven-aged forests. USDA Forest Service. \$35,000 funded

Will, R., Gregory, M., Lynch, T.B., Hallgren, S., and Zou, C. Quantifying redcedar invasion into Cross Timbers forests to prioritize land for fuel reduction treatment. Bureau of Indian Affairs. \$84,991, funded.

Hallgren, Steve, Rodney Will, Dr. Tom Lynch, Mark Gregory, Chris Zou, Brian Carter, Chip Leslie. Management and restoration of bottomland hardwoods in the Deep Fork National Wildlife Refuge: implications of hydrologic regime and edaphic factors, US Fish and Wildlife Service, \$103,000, 2013-2016, funded

25-year remeasurement of natural even-aged shortleaf pine growth study. \$120,000, Lynch (PI), T.B., Wilson, D. (Co-pi). 2011-2015.

A disturbance-based decision support model and hazard rating system for evaluating the effects of changing weather and climate on the upper West Gulf region. Hennessey, T (PI), Will, R., Lynch T. and Wilson, D. USDA Forest Service. \$110,376. 2010-2011.

³with M.M. Huebschman

⁴ with A.G. Holley

RESEARCH PROJECTS AND GRANTS (continued)

Forest assessment at Eufaula Wildlife Management Area. Will, R. (PI), Lynch, T. and Leslie, D. Oklahoma Department of Wildlife Conservation. 2009-2010. \$5,000.

Effect of ice-storm damage on loblolly pine tree productivity. Will, R. (PI), Hennessey, T., Lynch, T. Weyerhaeuser Company. Approximately \$25,000 in-kind funding. 2009-2014

Magnitude and geographic distribution of the threat of redcedar encroachment in Oklahoma Cross Timbers forests. \$57,520, 2008-2010. Hallgren, S. (PI), Bidwell, T., Boyer, Hoagland, Lynch, T., Palmer, M. Stahle, D. OAES and OCES Team Initiative Program. \$51,767. 2008-2010.

Analysis of Shortleaf Pine Growth and Yield Data. USDA Forest Service Southern Research Station. 2009-2012. \$30,000. D. Zhang (PI) and T.B. Lynch (Co-PI)

Efficiency Analysis of small-scale forestry in Oklahoma. USDA Forest Service Southern Research Station. 2009-2012. \$27,500. D. Zhang (PI) and T.B. Lynch (Co-PI)

Remeasurement of Natural, Even-aged Shortleaf Pine Growth Study. USDA Forest Service Southern Research Station, 2006-present. \$75,000.

Challenge Cost Share Agreement Cimarron and Comanche National Grasslands, 2006-2007. \$3,000

Challenge Cost Share Agreement Cimarron and Comanche National Grasslands, 2007-2008. \$3,000

Growth and Yield of Natural, Even-aged Shortleaf Pine Stands, USDA Forest Service Southern Research Station, 1985-circa 2002 (includes several specific cooperative agreements). \$327,735.

Development of Provisional Stand Volume Models and Interactive Computer Program, USDA Forest Service Southern Research Station, 1987-1989. \$8,000.

Methods for the Analysis of Individual Tree Radial Increment, USDA Forest Service Southern Forest Experiment Station, 1986-1989. \$8164.

Growth and Yield Models for Natural, Even-aged Shortleaf Pine Stands for the West Gulf Region. USDA Forest Service Southern Forest Experiment Station, 1992-1993. \$6,000.

Louis Berger International Inc., through OSU International Programs, for sponsorship of Indonesian forest scientist and university faculty. 1996. \$1,500.

Oklahoma State University Regents Matching Program FY98, 1998. \$4,533.

Challenge Cost-Share Agreement between USDA Forest Service Pike and San Isabel National Forests Comanche and Cimarron National Grasslands and Oklahoma State University, 1999-2006. (with Bob Wittwer) \$23,960.

Economic Evaluation of the Shortleaf Pine-Bluestem Community in Eastern Oklahoma and Western Arkansas. 1999-2001. (with Mike Huebschmann) \$18,000.

Cost Reimbursable Agreement (for regeneration sampling in western Arkansas) between the USDA Forest Service Southern Research Station and Oklahoma State University, 2000-2001. \$16,229.

OSU RSC for training Turkish scientists in forest inventory for carbon storage, 2000 (received 2001). \$1,200.

RESEARCH PROJECTS AND GRANTS (continued)

Determination of Optimum Growing Stock Levels in Natural Shortleaf Pine Stands, Nekoosa Papers Inc. (later Georgia Pacific), 1989 (with R.F. Wittwer). \$2,000.

Development of Individual-tree Growth and Yield Models for Uneven-aged Shortleaf Pine Stands in the Interior Highlands of Oklahoma and Arkansas, USDA Forest Service Southern Research Station, 1993-1998 (with L.R. Gering). \$18,000.

The 8th Year Remeasurement of Temple Inland Forest Product Company Research Plots for evaluating Mid-Rotation Cultural Treatments. 2002 (with Gordon Holley, Principle Investigator). \$34,448.

PUBLICATIONS

Peer-Reviewed Journal Articles (60):

- Saud, P., Lynch, T.B., Anup, K.C., and Guldin, J.M. 2016. Using quadratic mean diameter and relative spacing index to enhance height –diameter and crown ratio models fitted to longitudinal data. *Forestry: An Intern. J. For. Res.* doi: 10.1093/forestry/cpw004
- Stevenson, D.J., Lynch, T.B., Saud, P., Heinemann, R., Holeman, R., Wilson, D., Anderson, K., Cerny, C. and Guldin, J.M., 2016. Winter in the Ouachitas - a Severe Winter Storm Signature in *Pinus echinata* in the Ouachita Mountains of Oklahoma and Arkansas, USA. *Dendrochronologia*. 37(2016):107-115.
- Lynch, T.B. 2015. Voronoi polygons quantify bias when sampling the nearest plant. *Can. Jour. For. Res.* 45:1853-1859.
- Lynch, T.B. 2015. Effects of measurement error on Monte Carlo integration estimators of tree volume: sample diameters measured at random upper-stem heights. *Can. Jour. For. Res.* 45:471-479.
- Lynch, T.B. 2015. Effects of measurement error on Monte Carlo integration estimators of tree volume: critical height sampling and vertical Monte Carlo methods. *Can. Jour. For. Res.* 45:463-470.
- Dipesh, K.C., Will, R.E., Hennessey, T.C., Lynch, T.B., Heinemann, R. and Holeman, R. 2015. Effects of simulated ice storm damage on mid-rotation loblolly pine stands. *For. Sci.* 61:774-749.
- Dipesh, KC, Will, R.E., Lynch, T.B. Heinemann, R. and Holeman, R. 2015. Comparison of loblolly, shortleaf, and pitch x loblolly pine plantations growing in Oklahoms. *Forest Sci.* 61:540-547.
- Lynch, T.B. and J.H. Gove. 2014. The unbiasedness of a generalized mirage boundary correction method for Monte Carlo integration estimators of volume. *Can. Jour. For. Res* 44:810-819.
- Lynch, T.B. 2014. Use of an antithetic variate for better location of upper-stem height measurements with critical height and importance sampling in horizontal line sampling. *For. Sci.* 60(1): 288-297. <http://dx.doi.org/10.5849/forsci.12-149>.
- Lynch, T.B. and J.H. Gove. 2013. An antithetic variate to facilitate upper-stem height measurements for critical height sampling with importance sampling. *Can. Jour. For. Res.* 43:1151-1161. dx.doi.org/10.1139/cjfr-2013-0279
- Lynch, T.B., Budhathoki, C. and R.F. Wittwer. 2012. Relationships between height, diameter and crown for eastern cottonwood (*Populus deloides*) in a Great Plains riparian ecosystem. *West. Jour Appl. For.* 27(4):176-186.
- Lynch, T.B. 2012. A mirage boundary correction method for distance sampling. *Can. Jour. For. Res.* 42(2): 272-278.
- Lynch, T.B. 2012. On moments of inertia for logs and tree segments. *For. Sci.* 58(4):399-404.
- Zhang, D., Huebschmann, M.M., Lynch, T.B., and J.M. Guldin. 2012. Growth projection and valuation of restoration of the shortleaf pine-bluestem grass ecosystem. *Forest Policy and Econ.* 20(2012):10-15.
- Lynch, T.B. and D. Zhang. 2011. On relative maxima of diameter growth, basal area growth, volume growth and mean annual increment for individual trees. *For. Sci.* 57(4):353-358.
- Will, R.E., Hennessey, T.C., Lynch, T.B., Heinemann, B. and R. Holeman. 2010. Effects of planting density and seed source on loblolly pine stands in southeastern Oklahoma. *For. Sci.* 56(5):437-443.

PUBLICATIONS (continued)

- Lynch, T.B., Will, R.E., Hennessey, T.C., Heinemann, R. A. and R.T. Holeman. 2010. Relationships among dbh and loblolly pine attributes from local and non-local seed-sources near the western edge of its natural range. *South. Jour Appl For.* 34 (4):149-153.
- DeSantis, R.D., Hallgren, S.W., Lynch, T.B., Burton, J.A., and M.W. Palmer. 2010. Long-term directional changes in upland *Quercus* forests throughout Oklahoma, USA. *J. Vegetation Sci.* 21:606-615.
- Sabatia, C.O., Will, R.E. and T.B. Lynch. 2009. Effect of thinning on aboveground biomass accumulation and distribution in naturally regenerated shortleaf pine. *South. Jour. Appl. For.* 33(4):188-192.
- Lynch, T.B. 2009. Note on the variance of radial sampling strategies with random versus purposively-located pivot-points. *For. Sci.* 55 (5):467-470.
- Sabatia, C.O., Lynch, T.B. and R.E. Will. 2008. Tree biomass equations for naturally regenerated shortleaf pine. *South. Jour. Appl. For.* 32(4):163-167.
- Lynch, T.B. 2008. Variance reduction for radial line sampling coverage estimators. *For. Sci.* 54(2):148-157
- Budhathoki, C., Lynch, T.B., and J.M. Guldin. 2008. Nonlinear mixed modeling of basal area growth for shortleaf pine. *For. Ecol. And Manage. For. Ecol. and Manage.* 255:3440-3446.
- Budhathoki, C., Lynch, T.B., and J.M. Guldin. 2008. A mixed-effects model for the dbh-height relationship of shortleaf pine (*Pinus echinata* Mill.). *South. Jour. Appl. For.* 32(1):5-11.
- Lynch, T.B., Wittwer, R.F., Stevenson, D.J. and M.M Huebschmann. 2007. A maximum size-density relationship between Lorey's mean height and trees per hectare. *For. Sci.* 53(4):478-485.
- Lynch, T.B. 2006. Variance reduction for sector sampling. *For. Sci.* 52(3):251-261.
- Lynch, T.B. 2006. Horizontal line sampling for riparian forests without land area estimation. *For. Sci.* 52(2): 119-126.
- Lynch, T.B., Holley, A.G., and D.J. Stevenson. 2005. A random parameter dbh-height model for cherrybark oak. *South. Jour. Appl. For.* 29(1):22-26.
- Clark, S.L., Hallgren, S.W., Stahle, D.W. and T.B. Lynch. 2005. Characteristics of the Keystone Ancient Forest Preserve, an old-growth forest in the Cross Timbers of Oklahoma, USA. *Natural Areas Jour.* 25(2):165-175.
- Huebschmann, M.M., Lynch, T.B., Lewis, D.K., Tilley, D.S., and J.M. Guldin. 2004. A bid price equation for national forest timber sales in western Arkansas and eastern Oklahoma. *South. Jour. Appl. For.* 28(2):100-108.
- Hennessey, T.C., Dougherty, P.M., Lynch, T.B., Wittwer, R.F., and E.M. Lorenzi. 2004. Long-term growth and ecophysiological responses of a southeastern Oklahoma loblolly pine plantation to early rotation thinning. *For. Ecol. and Manage.* 192(1):97-116.
- Blazier, M.A., Hennessey, T.C., Lynch, T.B., Wittwer, R.F. and M.E. Payton. 2004. Productivity, crown architecture, and gas exchange of North Carolina and Oklahoma/Arkansas loblolly pine families growing on a droughty site in southeastern Oklahoma. *For. Ecol. and Manage.* 194:83-94.
- Lynch, T.B., Nkouka, J., Huebschmann, M.M., and Guldin, J.M. 2003. Maximum likelihood estimation for predicting the probability of obtaining variable shortleaf pine regeneration densities. *For. Sci.* 49(4):577-584.
- Lynch, T.B., and Wittwer, R.F. 2003. *n*-Tree distance sampling for per-tree estimates with application to unequal-size cluster sampling of increment core data *Can. Jour. For. Res.* 33(7):1189-1195.
- Blazier, M. A., Hennessey, T. C., Lynch, T.B. and R.F. Wittwer. 2002. Comparison of branch biomass relationships for North Carolina and Oklahoma/Arkansas loblolly pine seed sources growing in southeastern Oklahoma. *For. Ecol. and Manage.* 159:241-248.
- Rose, C.E. and Lynch, T.B. 2001. Estimating parameters for tree basal area growth with a system of equations and seemingly unrelated regressions. *For. Ecol. and Manage.* 148(1-3):51-61.
- Lynch, T.B. 2001. Simultaneous estimation of volume, surface area, and forest product yield for tree stems with Monte Carlo integration. *Math. Modelling and Sci. Computing* 13(3-4):190-203.
- Valdez-Lazalde, J.R. and T.B. Lynch. 2000. Merchantable and total volume equations for thinned stands of *Patula* pine in Puebla, Mexico. *Agrociencia* 34(6):747-758.
- Huebschmann, M.M., Lynch, T.B. and R.F. Wittwer. 1999. Needle litterfall prediction models for even-aged natural shortleaf pine (*Pinus echinata* Mill.) stands. *For. Ecol. and Mange.* 117:179-186.

PUBLICATIONS (continued)

- Huebschmann, M.M., Gering, L.G., Lynch, T.B., Bitoki, O., and P.A. Murphy. 2000. An individual-tree growth and yield prediction system for uneven-aged shortleaf pine stands. *South. Jour. Appl. For.* 24(2):112-120.
- Lynch, T.B., Hitch, K.L., Huebschmann, M.M., and P.A. Murphy. 1999. An individual-tree growth and yield prediction system for even-aged natural shortleaf pine forests. *South. Jour. Appl. For.* 23(4) 203-211.
- Lynch, T.B., and R. Rusydi. 1999. Distance sampling for forest inventory in Indonesian teak plantations. *For. Ecol. and Manage.* 113:215-221.
- Lynch, T.B. and M.L. Clutter. 1999. Predicting loblolly pine plywood bolt grade with a multinomial logit model. *For. Prod. Jour.* 49(5):56-61.
- Lynch, T.B., and M.L. Clutter. 1998. A system of equations for prediction of plywood veneer total yield and yield by grade for loblolly pine plywood bolts. *For. Prod. Jour.* 48(5):80-88.
- Wittwer, R.F., Lynch, T.B. and M.M. Huebschmann. 1996. Thinning improved growth of crop trees in natural shortleaf pine stands. *South. Jour. Appl. For.* 20(4):182-187.
- Lynch, T.B. and P.A. Murphy. 1995. A compatible height prediction and projection system for individual trees in natural, even-aged shortleaf pine stands. *For. Sci.* 41(1):194-209.
- Lynch, T.B. 1995. Variance reduction in Ueno's method and cylinder sampling for forest volume estimation. *Can. Jour. For. Res.* 25:1783-1794.
- Lynch, T.B. 1995. Use of a tree volume equation based on two lower-stem diameters to estimate forest volume from sample tree counts. *Can. Jour. For. Res.* 25:871-877.
- Lynch, T.B. 1995. Compatible estimation of components of forest growth from remeasured point samples with restricted generalized least squares. *For. Sci.* 41(3):611-628.
- Lynch, T.B., H.V. Wiant, Jr. and D.W. Patterson. 1994. Comparison of log volume estimates using formulae for log center of gravity and center of volume. *Can. Jour. For. Res.* 24:133-138.
- Lynch, T.B., T.A. Max, H.E. Burkhart and J. Liu. 1993. Prediction equations for centers of gravity and moments of inertia of loblolly pine stems. *For. Sci.* 39(2):260-274.
- Murphy, P.A., Lawson, E.R. and T.B. Lynch. 1992. Basal area and volume development of natural even-aged shortleaf pine stands in the Ouachita Mountains. *South. Jour. Appl. For.* 16(1):30-34.
- Lynch, T.B., S. Chang and J.P. Chandler. 1992. Estimation of individual tree volume by importance sampling and antithetic variates from the cylindrical shells integral. *Can. Jour. For. Res.* 22:326-335.
- Lynch, T.B. and M.M. Huebschmann. 1992. Estimating diameter increment by dbh class with horizontal point sampling. *For. Ecol. and Manage.* 51:285-299.
- Lynch, T.B. 1990. Stand volume estimation from tree counts in the context of vertical line sampling. *Can. Jour. For. Res.* 20:274-279.
- Lynch, T.B. 1988. Volume estimation from sample tree counts with certain individual tree volume equations. *For. Sci.* 34(3):677-697.
- Van Deusen, P.C. and T.B. Lynch. 1987. Efficient unbiased tree-volume estimation. *For. Sci.* 33(2):583-590.
- Lynch, T.B. and J.W. Moser, Jr. 1986. A growth model for mixed species stands. *For. Sci.* 32(3):697-706.
- Lynch, T.B. 1986. Total cubic volume equations implied by diameter-based merchantable to total volume ratio models. *For. Sci.* 32(1):262-267.
- Lynch, T.B. 1986. Critical height sampling and volumes by cylindrical shells. *For. Sci.* 32(3):829-834.

Oklahoma Agricultural Experiment Station Research Reports (2):

- Huebschmann, M.M., Lynch, T.B. and P.A. Murphy. 1998. Shortleaf pine stand simulator, an even-aged natural shortleaf pine growth and yield model: user's manual. Res. Rep. P-967, Okla. State Univ. Ag. Exp. Stn. 25 p.
- Lynch, T.B., P.A. Murphy and E.R. Lawson. 1991. Stand volume equations for managed natural even-aged shortleaf pine in eastern Oklahoma and western Arkansas. Res. Rep. P-921, Okla. State Univ. Ag. Exp. Stn. 12 p.

PUBLICATIONS (Continued)

Proceedings and Abstracts (63):

- Lynch, T.B., Hamlin, D., and Ducey, M.J. 2016. Simulation of design-unbiased point-to-particle sampling compared to alternatives on plantation rows. P. 543-543 in: Proceedings of the 18th Biennial Southern Silviculture Conference. Knoxville, TN, March 2-5, 2015. E-Gen. Tech. Rep. SRS 212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614p.
- Stevenson, D, Hennessey, T., Lynch, T. Caterina, G., Mota, R. Heineman, H., Holeman, R., Wilson, D. and Anderson, K. 2016. Detection of severe storm signatures in loblolly pine using seven-year periodic standardized averages and standard deviations. 2016. P. 544-545 in: Proceedings of the 18th Biennial Southern Silviculture Conference. Knoxville, TN, March 2-5, 2015. E-Gen. Tech. Rep. SRS 212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614p.
- Anup, K.C., Lynch, T.B., and J.M Guldin. 2016. Shortleaf pine (*Pinus echinata* Mill.) and hardwood regeneration after thinning natural shortleaf pine forests in the Southern United States. P. 553-554 in: Proceedings of the 18th Biennial Southern Silviculture Conference. Knoxville, TN, March 2-5, 2015. E-Gen. Tech. Rep. SRS 212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614p.
- Saud, P, Lynch, T.B., and J.M . Guldin. 2016. Twentyfive year s long survival analysis of an individual shortleaf pine tree. P 555-557 in: Proceedings of the 18th Biennial Southern Silviculture Conference. Knoxville, TN, March 2-5, 2015. E-Gen. Tech. Rep. SRS 212. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 614p.
- Lynch, T.B., Roesch, F.A., McTague, J.P., Gove, J.H., Reams, G.A., Weiskittel, A.R. 2015. The research contributions of Dr. Paul Van Deusen. P. 2-11 in: Pushing Boundaries: New Directions in Inventory Techniques & Applications; Forest Inventory and Analysis (FIA) Symposium 2015. Gen. Tech. Rep. PNW-931 USDA Forest Service Pacific Northwest Research Station. 384p.
- Lynch, T.B., and J.H. Gove. 2015. More practical critical height sampling. P. 545-546 in: Proceedings of the 17th Biennial Southern Silvicultural Research Conference. Shreveport, LA, March 5-7, 2013. E-Gen. Tech Rep. SRS-203 Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 551p.
- K.C., Anup, Lynch, T.B., Stevenson, D., Wilson, D., Guldin, J.M., Heinemann, B., Holeman, R., Wilson, D., and K. Anderson. 2015. Development of understory tree vegetation after thinning naturally occurring shortleaf pine (*Pinus echinata* Mill.) forests. P. 99 in: Proceedings of the 17th Biennial Southern Silvicultural Research Conference. Shreveport, LA, March 5-7, 2013. E-Gen. Tech Rep. SRS-203 Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 551p.
- Saud, P., Lynch, T.B., Wilson, D.S., Stewart, J. Guldin, J.M., Heinemann, B., Holeman, R., Wilson, D., and Anderson, K. 2015. Influence of weather and climate variables on the basal area growth of individual shortleaf pine trees. P. 406-408 in: Proceedings of the 17th Biennial Southern Silvicultural Research Conference. Shreveport, LA, March 5-7, 2013. SRS-203 Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 551p.
- Stevenson, D.J. Lynch, T.B. and J.M. Guldin. 2015. Tree ring record of droughts and severe storms in the Ouachita Mountains since 1785. P. 301 in: Proceedings of the 17th Biennial Southern Silvicultural Research Conference. Shreveport, LA, March 5-7, 2013. E-Gen. Tech Rep. SRS-203 Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 551p.
- Dipesh, K.C., Will, R.E., Hennessey, T.C., Lynch, T.B., Heinemann, R., and R. Holeman. 2015. Growth performance of loblolly, shortleaf, and pitch x loblolly hybrid pines growing along the western margin of commercial pine range. P. 100 in: Proceedings of the 17th Biennial Southern Silvicultural Research Conference. Shreveport, LA, March 5-7, 2013. E-Gen. Tech Rep SRS-203 Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 551p.

PUBLICATIONS (Continued)

- Zhang, D., Huebschmann, M.M., Lynch, T.B. and J.M. Guldin. 2012. Use of Forest Growth Simulator to Evaluate Economic Impacts of Conversion to the Shortleaf Pine-Bluestem Grass Ecosystem. P. 43 In: Proceedings of the Shortleaf Pine Conference East Meets West: bridging the gap with research and education across the range. Sept. 20-22, 2011, Monte Sano State Park, Huntsville, Alabama. <http://www.aaes.auburn.edu/comm/pubs/specialreports/sr11.pdf> (Poster Abstract)
- Lynch, T.B. and D. Zhang. 2012. Relative maxima of diameter and basal area. (Extended poster abstract) P. 195 In: Butnor, John R. ed. Proceedings of the 16th Biennial Southern Silvicultural Research Conference, Charleston, SC, Feb. 15-17, 2011. E-Gen. Tech. Rep. SRS-156. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station 391p.
- Stevenson, D.J., T.B. Lynch and J.M. Guldin. 2012. Blue storms depress growth of shortleaf pine in western Arkansas and eastern Oklahoma. (Extended poster abstract) P. 318-319 In: Butnor, John R. ed. Proceedings of the 16th Biennial Southern Silvicultural Research Conference, Charleston, SC, Feb. 15-17, 2011. E-Gen. Tech. Rep. SRS-156. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station 391p.
- Will, R.E., Hennessey, T., Lynch, T., Heinemann, R., Holemann, R. and D. Wilson. 2012. Effect of simulated ice storm damage on loblolly pine tree and stand growth. (Extended poster abstract) P. 381-382 In: Butnor, John R. ed. Proceedings of the 16th Biennial Southern Silvicultural Research Conference, Charleston, SC, Feb. 15-17, 2011. E-Gen. Tech. Rep. SRS-156. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station 391p.
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Lynch, T.B., Hamlin, D., and M.J. Ducey. Simulation of design-unbiased point-to-particle sampling and alternatives on plantation rows. Joint Southern Mensurationists and Northeastern Mensurationists Meeting, Nov. 2-4, 2014, Raleigh, NC.

Lynch, T.B. and M.J. Ducey. Plantation row sampling with design-unbiased point-to-particle sampling on lines. Western Mensurationists Meeting June 22-24, 2014, Casa Munras, Monterey, CA.

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- Economic analysis of shortleaf pine-bluestem restoration. Poster presentation with Zhang, D., Huebschmann, M.M., Lynch, T.B. and J.M. Shortleaf Pine Conference East Meets West: bridging the gap with research and education across the range. Monte Sano State Park, Huntsville, Alabama, Sept. 20-22, 2011,
- Relative maxima of diameter and basal area. Poster presentation with D. Zhang. 16th Biennial Southern Silviculture Conference, Charleston, SC, Feb. 15-17, 2010.
- Blue storms depress growth of shortleaf pine in western Arkansas and eastern Oklahoma. Poster presentation with D.J. Stevenson and J.M. Guldin. 16th Biennial Southern Silviculture Conference, Charleston, SC, Feb. 15-17, 2010.
- Effect of simulated ice storm damage on loblolly pine tree and stand growth. Poster presentation with R.E., Will, R.E., T. Hennessey, R. Heinemann, R.Holemann, and D. Wilson. 16th Biennial Southern Silviculture Conference, Charleston, SC, Feb. 15-17, 2010.
- Estimating the probability of survival of individual shortleaf pine (*Pinus echinata* Mill.) trees. Poster presentation with S. Shrestha and J.M. Guldin. 16th Biennial Southern Silviculture Conference, Charleston, SC, Feb. 15-17, 2010.
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- Economic impact assessment of restoring the shortleaf pine-bluestem grass ecosystem. Presentation with Difei Zhang, M.M. Huebschmann and J.M. Guldin, Northeast Mensurationist Organization Annual Meeting, Durham NH, Nov. 2-3, 2009.
- Development of volume equations using data obtained by upper-stem dendrometry with Monte Carlo integration: preliminary results from eastern redcedar. Poster presentation with T.B. Lynch, R.E. Will and R. Reynolds. 15th Biennial Southern Silviculture Conference, Hot Springs, AR, Nov. 18-20, 2008.
- Diameter-height and crown relationships for loblolly pine from North Carolina and Oklahoma-Arkansas seed sources near the western edge of the natural range. Poster presentation with T.B. Lynch, R.E. Will, T.C. Hennessey, R. Heinemann, R. Holemann, D. Wilson, K. Anderson, and G. Campbell. 15th Biennial Southern Silviculture Conference, Hot Springs, AR, Nov. 18-20, 2008.
- Developing equations for estimating tree component biomass for naturally regenerated shortleaf pine in southeast Oklahoma with application to biomass partitioning in thinned and unthinned stands. Poster presentation with N. Gyawali (M.S. student), T.B. Lynch and R.E. Will. 15th Biennial Southern Silviculture Conference, Hot Springs, AR, Nov. 18-20, 2008.

PROFESSIONAL PRESENTATIONS (continued)

- Effects of planting density and genotype on loblolly pine stands growing in the mountains of southeastern Oklahoma. Poster presentation with R.E. Will, T.C. Hennessey, T.B. Lynch, R. Heinemann, R. Holeman, D. Wilson, K. Anderson, and G. Campbell. 15th Biennial Southern Silviculture Conference, Hot Springs, AR, Nov. 18-20, 2008.
- Effects of planting density and genotype on canopy size, canopy structure, and growth of 25-year-old loblolly pine stands in southeastern Oklahoma. Poster presentation with T.C. Hennessey, R.E. Will, T.B. Lynch, R. Heinemann, R. Holeman, D. Wilson, K. Anderson, and G. Campbell. 15th Biennial Southern Silviculture Conference, Hot Springs, AR, Nov. 18-20, 2008.
- An ice storm signature in growth rings of shortleaf pine in western Arkansas and eastern Oklahoma. Poster presentation with D.J. Stevenson, T.B. Lynch and J.M. Guldin. 15th Biennial Southern Silviculture Conference, Hot Springs, AR, Nov. 18-20, 2008.
- Stereology and radial line sampling. Northeast Mensurationist Organization Annual Meeting, Bar Harbor, Maine, Oct. 8,9 2008.
- A Christian View of the Natural World in Dostoevsky's novel *The Brothers Karamazov*, Agriculture and Environment Track, National Faculty Leadership Conference, Arlington, VA, June 27-29, 2008
- Development of a shortleaf pine individual-tree growth equation using non-linear mixed modeling techniques. 14th Biennial Southern Silvicultural Research Conference. Feb. 26-Mar. 1, 2007. Athens, GA. (poster with C.B. Budhathoki and J.M. Guldin)
- Segmented polynomial taper equation incorporating years since thinning for loblolly pine plantations. 14th Biennial Southern Silvicultural Research Conference. Feb. 26-Mar. 1, 2007. Athens, GA. (poster with A.G. Holley, C.T. Stiff, and W. Stansfield).
- Effect of thinning on partitioning of aboveground biomass in naturally regenerated shortleaf pine (*Pinus echinata* Mill.). 14th Biennial Southern Silvicultural Research Conference. Feb. 26-Mar. 1, 2007. Athens, GA (poster with C.O. Sabatia and R.E. Will)
- Hardwood regeneration related to overstory shortleaf pine (*Pinus echinata* Mill.) basal area, site index and time since cutting in Arkansas and Eastern Oklahoma. 14th Biennial Southern Silvicultural Research Conference. Feb. 26-Mar. 1, 2007. Athens, GA (poster with D.J. Stevenson and J.M. Guldin)
- Growth and development of natural stands of shortleaf pine. Feb. 16, 2007. Dept. Natural Resources Ecology and Management Seminar Series, Oklahoma State University, Stillwater, OK.
- An individual-tree dbh-total height model with random plot effects for shortleaf pine. Nov. 8, 2006. Shortleaf Pine Symposium. Springfield, Missouri. November 6-9, 2006. (with C.B. Budhathoki and J.M. Guldin)
- Branch and foliage biomass relations for shortleaf pine in southeastern Oklahoma. Nov. 8, 2006. Shortleaf Pine Symposium. Springfield, Missouri. November 6-9, 2006. (with C.O. Sabatia and R.E. Will)
- Hardwood regeneration related to overstory shortleaf pine basal area and site index in Arkansas and Eastern Oklahoma. Nov. 7, 2006. Shortleaf Pine Symposium. Springfield, Missouri, November 6-9, 2006. (poster with D.J. Stevenson and J.M. Guldin)
- Reducing variance for radial line sampling coverage estimates. Nov. 1, 2006. 10th Annual New England Mensurationists Organization Meeting. Grey Towers, Milford, Pennsylvania, October 31-November 1, 2006.
- Eschatology and Environmental Stewardship. June 23, 2006. Two Tasks National Faculty Leadership Conference, Alexandria Hilton, Alexandria, Virginia, June 21-23, 2006.
- Sampling to monitor tamarisk (salt cedar) control on the Cimarron National Grassland. Society of American Foresters 2005 National Convention, Ft. Worth, Texas; October 20-23, 2005. (poster with R.F. Wittwer and D.J. Stevenson)
- Techniques for variance reduction in sector sampling. July 12, 2005. 2005 Southern Mensurationists Conference. Wilmington, North Carolina, July 10-13, 2005. Power point presentation available on CD to conference participants
- Individual tree growth models for natural even-aged shortleaf pine. March 1-4, 2005. 13th Biennial Southern Silvicultural Research Conference, March 1-4, 2005, Memphis, Tennessee. (poster with C. Budhathoki and J.M. Guldin)

PROFESSIONAL PRESENTATIONS (continued)

- Calibration of Dbh-Height Equations for Southern Hardwoods. (Summary) In: Proc. 13th Biennial Southern Silvicultural Research Conference, March 1-4, 2005, Memphis, Tennessee. (poster with A.G. Holley and D.J. Stevenson)
- A Forester Comments on Deep Ecology. June 25, 2004. National Faculty Leadership Conference, Alexandria, Virginia, June 24-27, 2004. Powerpoint and audio on CD available to conference participants.
- A Proposal for Sampling Trees in Riparian Areas with Horizontal Line Sampling. June 16, 2004. 2nd International Conference on Forest Measurements and Quantitative Methods and Management & the 2004 Southern Mensurationists Conference. Hot Springs, Arkansas, June 15-18, 2004.
- Height-Dbh Equations for Cherrybark Oak and Eastern Cottonwood. June 17, 2004. 2nd International Conference on Forest Measurements and Quantitative Methods and Management & the 2004 Southern Mensurationists Conference. Hot Springs, Arkansas, June 15-18, 2004. (with R.F. Wittwer, D.J. Stevenson, C. Budhathoki).
- A Forester Comments on Deep Ecology. April 14, 2004. Fellowship of Christian Faculty and Staff, Oklahoma State University, Stillwater, Oklahoma.
- Modeling Height and Crown Dimensions for Trees of the Cimarron National Grassland. October 22-25, 2003, Society of American Foresters 2003 National Convention, Buffalo, New York. (poster with Chakra Budhathoki and R. F. Wittwer)
- Maximum Size-Density Relationships for Shortleaf Pine. October 20, 2003. Forestry Department Seminar Series. Oklahoma State University, Stillwater, Oklahoma. (with R.F. Wittwer and Douglas J. Stevenson)
- Maximum Size-Density Relationships for Shortleaf Pine. October 5-7, 2003. Northern Mensurationist Organization and Southern Mensurationists 2003 Joint Conference, Hotel Roanoke, Roanoke, Virginia. (with R.F. Wittwer and Douglas J. Stevenson)
- Review of "Renovation of the Heart" by Dallas Willard. September 17, 2003. Fellowship of Christian Faculty and Staff, Oklahoma State University, Stillwater, Oklahoma.
- Estimation of Reineke and volume-based maximum size-density lines for shortleaf pine (*Pinus echinata* Mill.). 12th Biennial Southern Silvicultural Research Conference, February 25-27, 2003, Biloxi, Mississippi. (poster with R.F. Wittwer and Douglas J. Stevenson)
- A Bid Price Equation for Timber Sales on the Ouachita and Ozark National Forests. 12th Biennial Southern Silvicultural Research Conference, February 25-27, 2003, Biloxi, Mississippi. (Poster with Michael M. Huebschmann, David K. Lewis, Daniel S. Tilley, and James M. Guldin)
- Sampling the Tree Resources of the Cimarron National Grassland: the Main Channel and the North Fork. Society of American Foresters 2002 National Convention, October 4-9, 2002, Winston-Salem, North Carolina. (poster with R.F. Wittwer).
- Estimation of salt cedar coverage using radial transects. September 12, 2002. IUFRO Symposium on Statistics and Information Technology in Forestry, September 8-12, 2002, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.
- Review of "A Christian Critique of the University" by Charles Malik. August 28, 2002. Fellowship of Christian Faculty and Staff, Oklahoma State University, Stillwater, Oklahoma.
- Rousseau and Resource Management: Does Rousseau Influence Current Attitudes Toward Management of Natural Resources? June 28, 2002. National Faculty Leadership Conference, June 27-30, 2002, Chicago, Illinois. Audio available on cassette to conference participants.
- The tree resources of the Cimarron National Grassland. March 20, 2002. Presented to the staff of the USDA Forest Service Cimarron National Grassland, Elkhart, Kansas. (with R.F. Wittwer)
- Review of "The Divine Conspiracy" by Dallas Willard. February 20, 2002. Fellowship of Christian Faculty and Staff, Oklahoma State University, Stillwater, Oklahoma.
- The tree resources of the Cimarron National Grassland. November 5, 2001. Forestry Department Seminar Series. Oklahoma State University, Stillwater, Oklahoma. (with R.F. Wittwer)
- Per-tree estimates with n-tree distance sampling. October 24, 2001. A Focus on Annual Forest Inventory: Thirty-fifth Midwest Forest Mensurationists' Meeting and the Third Annual Forest Inventory & Analysis Symposium, Grand Traverse Resort, Traverse City, Michigan.

PROFESSIONAL PRESENTATIONS (continued)

- Naturally occurring shortleaf pine forests: their growth and development. April 20, 2001. Presentation at the Division of Forestry, West Virginia University, Morgantown, West Virginia.
- Point sampling. April 19, 2001. Presentation at the Division of Forestry, West Virginia University, Morgantown, West Virginia.
- Estimating the probability of achieving shortleaf pine regeneration at variable specified levels. March 19-22, 2001. Eleventh Biennial Southern Silvicultural Res. Conf., Knoxville, Tennessee. (poster with J. Nkouka, M.M. Huebschmann, and J.M. Guldin)
- Long-term trends in loblolly pine stand productivity and stand characterizations in Oklahoma. March 21, 2001. Eleventh Biennial Southern Silvicultural Res. Conf., Knoxville, Tennessee. (with T.C. Hennessey, P. M. Dougherty, R.F. Wittwer, R.A. Heinemann, R.T. Holeman, and E.M. Lorenzi)
- Economic evaluation of restoring the shortleaf pine – bluestem grass ecosystem on the Ouacita National Forest. Eleventh Biennial Southern Silvicultural Res. Conf. March 19-22, 2001, Knoxville, Tennessee. (poster with M.M. Huebschmann, D.S. Tilley, and D.K. Lewis)
- A forester reads Rousseau. March 7, 2001. Fellowship of Christian Faculty and Staff, Oklahoma State University, Stillwater, Oklahoma.
- Estimating regeneration probability for shortleaf pine with maximum likelihood. February 5, 2001. Forestry Department Seminar Series. Oklahoma State University, Stillwater, Oklahoma.
- Maximum likelihood estimation in a model for probability of successful regeneration in naturally occurring shortleaf pine stands. October 17, 2000. Oklahoma State University Statistics Department Seminar, Stillwater, Oklahoma.
- Maximum likelihood estimation of parameters in a model for probability of achieving variable desired levels of regeneration in naturally occurring shortleaf pine stands. October 5, 2000. Fourth Northeastern Mensurationist Organization Meeting in Cooperation with the Midwest Mensurationists. October 4-6, 2000 Spruce Point Inn, Boothbay Harbor, Maine.
- Forest inventory and carbon storage. July 24-25, 2000. Presented to Forest Scientists visiting from Turkey at the Department of Forestry, Oklahoma State University, Stillwater, Oklahoma.
- Estimating board-foot volume with Monte Carlo integration. November 17-18, 1999. International Conference on Measurements and Quantitative Methods and Management & the 1999 Southern Mensurationists Meeting., Jekyll Island, Georgia.
- Restoring the shortleaf pine-bluestem grass ecosystem on the Ouachita National Forest: an economic evaluation. 1999 Society of American Foresters National Convention, September 11-15, 1999, Portland, Oregon. (poster with M.M. Huebschmann, D.K. Lewis, J.M. Guldin).
- A survival model for uneven-aged shortleaf pine trees. February 15-17, 1999. Tenth Biennial Southern Silvicultural Res. Conf., Shreveport, Louisiana. (with L.R. Gering, M.M. Huebschmann, and P.A. Murphy)
- Evaluation of the effect of thinning levels, age, and site index on pine regeneration and hardwood understory. February 15-17, 1999. Tenth Biennial Southern Silvicultural Res. Conf., Shreveport, Louisiana. (poster with J. Nkouka and P.A. Murphy).
- Productivity and carbon allocation of North Carolina and Oklahoma/Arkansas loblolly pine on a droughty site. February 15-17, 1999. Tenth Biennial Southern Silvicultural Res. Conf., Shreveport, Louisiana. (with M. Blazier (presenter), T.C. Hennessey, and R.F. Wittwer).
- A survival model for individual shortleaf pine trees in even-aged natural stands. August 16-20, 1998, Second International Symposium, Integrated Tools for Natural Resources Inventories in the 21st Century, Boise, Idaho.
- Growth and development of naturally occurring shortleaf pine forests. September 4, 1997. Presentation at the Warnell School of Forest Resources, University of Georgia, Athens, Georgia.
- An equation for prediction of total veneer yield from loblolly pine (*Pinus taeda* L.) plywood bolts. May 12-13, 1997. Symposium of Forest Biometricians Honoring Lewis R. Grosebaugh, Austin Cary Memorial Forest, University of Florida, Gainesville, Florida. (with M.L. Clutter)
- Environmental stewardship. April 9, 1997. Fellowship of Christian Faculty and Staff, Oklahoma State University, Stillwater, Oklahoma.

PROFESSIONAL PRESENTATIONS (continued)

- A distance-independent individual tree basal area growth model for natural uneven-aged stands of shortleaf pine (*Pinus echinata* Mill.) in the Ouachita Mountains of Oklahoma and Arkansas. February 25-27, 1997. Ninth Southern Silvicultural Res. Conf., Clemson, South Carolina. (with Onesphore, B. (first author) and L.R. Gering).
- Stand density index for shortleaf pine (*Pinus echinata* Mill.) natural stands. February 25-27, 1997. Ninth Southern Silvicultural Res. Conf., Clemson, South Carolina. (poster with R.F. Wittwer and M.M. Huebschmann).
- Distance sampling for forest inventory in Indonesian teak plantations. September 9-12, 1996. Midwest Forest Mensurationists 30th Annual Meeting, Lutsen Minnesota. (with Rusydi Rusydi).
- Forestry resources on the internet. October 8, 1996. Fall meeting of the Oklahoma Division of the Ouachita Society of American Foresters, Stillwater, Oklahoma.
- Generalized least squares for compatible estimation for forest growth components from remeasured point samples with two growth periods. March 11, 1996. Forestry Department Seminar, Oklahoma State University, Stillwater, Oklahoma.
- Generalized least squares for compatible estimation of forest growth components from remeasured point samples with two growth periods. September 12-14, 1995. A focus on forest inventory analysis, Midwest Forest Mensurationists' twenty-eighth annual meeting. Traverse City, Michigan.
- A tree height prediction system for shortleaf pine. November 1, 1993. Forestry Department Seminar, Oklahoma State University, Stillwater, Oklahoma.
- A tree height prediction system for shortleaf pine. September 13-15, 1993. Meeting of the Association of Southern University Biometricians, Williamsburg, Virginia.
- Estimating components of growth from horizontal point sampling data using generalized least squares. September 15-17, 1992. Meeting of the Midwest Forest Mensurationists, Mackinac Island, Michigan.
- Formulas for log center of gravity. September 4-6, 1991. Meeting of the Association of Southern University Biometricians, Knoxville Tennessee.
- Forestry at Oklahoma State University. April 18, 1991. Research Institute of Forest Information Technique, The Chinese Academy of Forestry, Beijing, China.
- The growth and yield of natural even-aged shortleaf pine. April 17, 1991. Beijing Forestry University, Beijing, China.
- Influence of residual shortleaf pine seed trees on height of regeneration. October 30 - November 1, 1990. Sixth Biennial Southern Silvicultural Research Conference, Memphis, Tennessee (with T.A. Martin (first author), R.F. Wittwer, and M.M. Huebschmann).
- Variance reduction in Ueno's method of stand volume estimation. August 5-11, 1990. International Union of Forest Research Organizations XIX World Congress, Montreal, Canada.
- Towards practical implementation of Monte Carlo integration in forest inventory. September 6-8, 1989. Meeting of the Association of Southern University Biometricians., Mountain Lake, Virginia.
- Application of Monte Carlo integration to determine individual tree volume. January 26, 1989. Statistics Department Seminar, Oklahoma State University, Stillwater, Oklahoma.
- On the estimation of radial increment by diameter class using horizontal point sampling data. August 23-27, 1987. IUFRO Forest Growth Modeling and Prediction Conference, Minneapolis, Minnesota.
- Distribution of crown biomass components in loblolly pine. June 15-18, 1986. Physiologic and Genetic Basis of Forest Decline: Ninth North American Forest Biology Workshop, Department of Forestry, Oklahoma State University, Stillwater, Oklahoma. (with J.M. Rachal (presenter), R.F. Wittwer, P.M. Dougherty and T.C. Hennessey).
- Some aspects of critical height sampling. September 30-October 2, 1986. 11th Annual Association of Southern University Biometricians Meeting, St. Augustine, Florida.
- On compatible total volume, taper and merchantable to total volume ratio equations. November 6-7, 1985. Mid-South Growth and Yield Conference. Alexandria, Louisiana.
- Some forest volume estimators that are not functions of individual tree dimensions. October 17, 1985. Oklahoma State University Statistics Department Seminar, Stillwater, Oklahoma.

PROFESSIONAL PRESENTATIONS (continued)

- Extensions of point sampling with diameter obviation. August 27-29, 1985. Midwest Mensurationists Meeting, Lutsen Resort, Lutsen, Minnesota.
- Sampling with probability proportional to certain individual tree volume equations. July 31-August 2, 1985. Meeting of Southern Agricultural Experiment Station Statisticians, Ramada Inn, Stillwater, Oklahoma.
- Standard error of estimated number of trees in a diameter class obtained from a recovered Weibull distribution. September 18-20, 1984. Meeting of the Midwest Forest Mensurationists, Grand Hotel, Mackinac Island, Michigan.
- Modeling mixed species forest stands. August 15-19, 1983. Renewable resource inventories for monitoring changes and trends: an international conference, College of Forestry, Oregon State University, Corvallis, Oregon. (with J.M. Moser, Jr.)
- Diameter distribution yield models for multiple species stands. April 23, 1981. Forestry and Natural Resources Seminar, Department of Forestry and Natural Resources, Purdue University, West Lafayette, Indiana.
- Extensions of point sampling with diameter obviation. December 6, 1979. Forest Resources Seminar, Department of Forestry and Natural Resources, Purdue University, West Lafayette, Indiana.
- Prediction equations for centers of gravity and moments of inertia for loblolly pine stems. May 10-13, 1977. Fifty-fifth Annual Meeting of the Virginia Academy of Science, Virginia State College, Petersburg. (with T.A. Max)

GRADUATE THESES SUPERVISED

- Saud, P. 2015. Modelling individual tree growth of naturally occurring even-aged shortleaf pine. Ph.D. thesis, Oklahoma State University, Stillwater, OK.
- Stevenson, D.J. 2013. Winter in the Ouachitas: three manuscripts on shortleaf pine (*Pinus echinata* Mill.) and severe storms. Ph.D. thesis, Oklahoma State University, Stillwater, OK.
- Shrestha, S. 2010. Estimating the probability of survival of individual shortleaf pine (*Pinus echinata* Mill.) trees. M.S. thesis, Oklahoma State Univ., Stillwater, OK. 59p.
- Gywali, N. 2008. Aboveground biomass partitioning due to thinning in naturally regenerated even-aged shortleaf pine (*Pinus echinata* Mill.) stands in southeast Oklahoma. M.S. thesis, Oklahoma State Univ., Stillwater, OK.
- Sabatia, C.O. 2007. Effect of thinning on partitioning of aboveground biomass in naturally regenerated shortleaf pine (*Pinus echinata* Mill.). M.S. thesis, Oklahoma State Univ., Stillwater, OK. 75p.
- Budhathoki, C.B. 2006. Mixed-effects modeling of shortleaf pine (*Pinus echinata* Mill.) growth data. Ph.D. thesis, Oklahoma State Univ., Stillwater, OK. 168p.
- Nkouka, J. 1999. Evaluation of the effect of thinning levels, site index, and age on shortleaf pine (*Pinus echinata* Mill.) regeneration and hardwood understory. M.S. thesis, Oklahoma State Univ., Stillwater, OK. 76p.
- Rose, C.E. 1998. Parameter estimation for a shortleaf pine (*Pinus echinata* Mill.) basal area growth model. M.S. thesis, Oklahoma State Univ., Stillwater, OK. 100p.
- Rusydi, R. 1996. Comparison of inventory methods for teak plantations at three forest management areas in East Java, Indonesia. M.S. thesis, Oklahoma State Univ., Stillwater, OK. 77p.
- Hitch, K.L. 1994. A distance-independent individual tree basal area growth model for natural, even-aged stands of shortleaf pine in eastern Oklahoma and western Arkansas. M.S. thesis, Oklahoma State Univ., Stillwater, OK. 78p.
- Johnson, A.L. 1988. Computer simulation of critical height sampling. M.S. thesis, Oklahoma State Univ., Stillwater, OK. 89p.
- McCormick, R.G. 1986. A lumped, deterministic rainfall-runoff model for small, forested watersheds in southeastern Oklahoma. M.S. thesis, Oklahoma State Univ., Stillwater OK. 69p.

GRADUATE STUDENTS

Chair of Student Graduate Committee:

	<u>Total</u>	<u>Past 5 Years</u>
M.S.	10	2
Ph.D.	4	3

Membership on other graduate committees: 4 Ph.D., 16 M.S. students majoring in forestry, environmental sciences, plant sciences, statistics and computer science.

UNDERGRADUATE TEACHING AND COURSES TAUGHT

Virginia Polytechnic Institute and State University:

FW 211 Forest Mensuration I instructor for one laboratory section, 1976. Teaching assistant duties for FW 309 Forest Inventory I and FW 315 Forest Mensuration II, 1976-1977.

Purdue University:

FOR 353 Forest Measurements, 1978-1979, also participated in the forest measurements portion of Purdue forestry summer camp, 1978, 1979.

Oklahoma State University:

FOR 2003 Forest Mensuration I, 1999, 2004-2008

FOR 3002 Forest Mensuration II, 2008, (at OSU Forestry Summer Camp)

FOR 3003 Forest Mensuration II, 1999 (at OSU Forestry Summer Camp)

FOR 3003 Forest Measurements I, 1984

FOR 3004 Forest Measurements II, 1983 (co-taught with D.W. Robinson)-1984, 1988-1989 (co-taught with D.W. Robinson), 1991, 1992 (co-taught with L.R. Gering) (at OSU Forestry Summer Camp)

FOR 3663 Forest Biometrics, 1986-2007

FOR 3883 Aerial Photogrammetry and Information Systems 1991-2007

FOR 3883 Aerial Photogrammetry and Information Systems 1991-2007 (1992-2007 co-taught with Mark Gregory, OSU Dept. of Plant and Soil Science)

FOR 4223 Timber Management, 2005 (instructor of record and coordinator for distance learning presentations from the University of Georgia)

NREM 3363 Forest Biometrics, 2008

NREM 2103 Forest Measurements I. 2009-present

NREM 3102 Forest Measurements II. 2009-

FOR 4613 Forest Biometry, 1983-1985, 1987

GRADUATE COURSES TAUGHT (Oklahoma State University)

FOR 5030 Advanced Forestry Problems – as “Forest Biometry Topics” (a three credit, semester long graduate course, most recently spring semester 2003, 2006, 2007); as “Forest Sampling” most recently 1998; as “Air Photo GIS Topics” fall 2002.

NREM 5133 Advanced Topics in Forest Biometrics, 2009, 2012

FOR 5010 Graduate Seminar, Spring 2001 – Fall 2001 - seminar in which forestry graduate students present research plans and results.

PROFESSIONAL SERVICE

Associate Editor for Biometrics, *Forest Science*, 2004-2007; 2007-2012

Associate Editor for Forest Measurements, *Southern Journal of Applied Forestry*, 1996-2002

Guest Associate Editor, *Forest Science*: June 1998; *New Forests*: June 1997, September 2001

Secretary, Group I Biological Sciences, Graduate Faculty, Oklahoma State University 1999-2001

Moderator, Quantitative Silviculture and Economics, afternoon session, 15th Biennial Southern Silviculture Conference, Hot Springs, Arkansas, Nov. 18, 2008.

Moderator, Growth and Yield Session 1, 14th Biennial Southern Silviculture Conference, Athens, Georgia, February 28, 2007.

Moderator, Small Area Sampling and Inventory Issues, 2005 Southern Mensurationists Conference, Wilmington, North Carolina, July 10-13, 2005.

Moderator, Growth and yield, concurrent session 1, 13th Biennial Southern Silvicultural Research Conference, Memphis Tennessee, March 2, 2005.

Moderator, Modeling and forecasting session B Mon. Oct. 6, 2003 Joint Conference of the Southern Mensurationists and Northeastern Mensurationists Organizations, Hotel Roanoke, Roanoke, Virginia Oct. 5-7, 2003.

Moderator, Sampling and Forest Inventory, Thursday Session, IUFRO Symposium for Statistics and Information Technology in Forestry, September 12, 2002, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, September 8-12, 2002.

Moderator, Session for Environmental Sciences and Forestry, God and the Academy Conference, Georgia Institute of Technology, Atlanta GA, June 21-25, 2000.

Program Committee Agriculture and Environment Track, National Faculty Leadership Conference, Arlington, VA, June 27-29, 2008

Outside Reviewer for Faculty Promotion/USDA Forest Service Peer Review Panel:

Outside Reviewer for promotion Associate Professor with tenure from Assistant Professor, College of Forest Resources, University of Washington, October, 2000 and October, 2001

Outside Reviewer for promotion Professor from Associate Professor, Department of Forestry, College of Forest Resources, Virginia Polytechnic Institute and State University, November 2001

Outside Reviewer for promotion Professor with tenure from Associate Professor, untenured, Division of Forestry, West Virginia University, November 2006

Outside Reviewer for promotion Associate Professor with tenure from Assistant Professor, Department of Forestry and Environmental Resources, North Carolina State University, November 2007

Outside Reviewer for promotion Professor with tenure from Associate Professor with tenure, Department of Forest Engineering, Resources and Management, Oregon State University, October 2013

Outside Reviewer for peer review panel, USDA Forest Service Research Scientist, August 2007.

Outside Reviewer for peer review panel, USDA Forest Service Research Scientist, August 2011.

Outside Reviewer for peer review panel, USDA Forest Service Research Scientist, December 2011.

Outside Reviewer for peer review panel, USDA Forest Service Research Scientist, 2012.

Division of Agriculture:

Computer Committee 1985-1991 (approx.)

Scholarship and Awards Committee, 1983-1987, 1989-1991

College Relations Committee 1982-1983

Committee on Small Farm Technology and Farming Systems Research 1984-1987

Distinguished Agricultural Alumnus selection committee, 2002-2003

PROFESSIONAL SERVICE (continued)

Department of Forestry:

Forest Management Faculty Position Search Committee 1999
Forest Regeneration-Ecology Faculty Position Search Committee 1985
Department of Forestry Scholarship and Awards Committee, 1997-present
Awards and Memorials Committee 1982-1987, Chair 1983-1985
Committee on Undergraduate Education
Graduate Committee 1982-1986
Research Committee 1982-1984
Computer Committee 1982-1986, Chair 1985-1986
Publicity Committee 1982-1984, 1986-1987
Forest Resources Inventory Committee (for SAF accreditation visit), Leader 1986
Committee to develop standards for tenure and promotion, Department of Forestry, 1990
Tenure and Promotion Committee
Committee to evaluate a promotion from Assistant to Associate Researcher, January 1999
Recruitment Committee 1999-present
Recruitment Sub-committee: Follow-up on Student Inquiries, 1999-present
Recruitment Sub-committee: Forestry Graduate Profiles and Database, 1999-present
Unit Planning (support Division Strategic Plan) Research Committee, Chair 2001
Quantitative Curriculum Review, Department of Forestry, Chair 2001
Committee to evaluate a reappointment as Assistant Professor, Chair, February 2002

CSRS Review, OSU Department of Forestry, November 5-8, 1989, presentation: "Forest Biometrics Research Program"

OSU Department of Forestry SAF Reaccreditation Review February 23-26, 1986, presentation: "Forest Resources Inventory"

OSU Forestry Curriculum Review May, 1995, Measurements Focus Group, presentation: Science and Mathematics (non-forestry courses)

SAF Reaccreditation Review for OSU Department of Forestry, March 31-April 3, 1996:

Wrote "Research," co-wrote "Curriculum Changes" (with R.F. Wittwer) portions of the "Self-Evaluation Report for the Committee on Accreditation, Society of American Foresters"

Presentation: "Measurements of Forest Resources" (with L.R. Gering)

CSREES Review for OSU Department of Forestry, November 2-5, 1997:

Presentation: "Forest Biometrics Research at Oklahoma State University"

Society of American Foresters:

Chair, Oklahoma Div., Ouachita Society, 1995

Auditing Committee, Oklahoma Div., Ouachita Society, 1997, 2007

Nominated for Chair-elect, 1999 election, Ouachita Society

Xi Sigma Pi – Ranger (national organization), 1998-2000

Planning Committee, North American Forest Biology Conference, 1986

Program Committee, National Faculty Leadership Conference, Agriculture and Environment Track, 2008

Faculty Advisor:

Faculty Advisor: OSU Forestry Club, 1985-1986, 1988-1992

Faculty Co-advisor: OSU Forestry Club, 1986-1987, 2003-2004

Faculty Advisor: OSU Student Chapter, Society of American Foresters, 1995-1997

PROFESSIONAL SERVICE (continued)

Special Assignments:

Design and produce plaques for graduates of 50th class, OSU Forestry Department 1999
Department of Forestry student database 1998-present (with Larry Gering, Gordon Holley)
Developed brochure "Graduate Study in Forestry at Oklahoma State University" mid-1980's
Revised poster "Graduate Study in Forestry, Division of Agriculture, Oklahoma State University" mid-1980's

Manuscript reviews:

Forest Science (Associate Editor, Biometrics, 2004-2011)
Environmental and Ecological Statistics
Canadian Journal of Forest Research
Southern Journal of Applied Forestry (Associate Editor, Measurements, 1996-2002)
Northern Journal of Applied Forestry
Journal of Forestry
Forestry: An International Journal of Forest Research
Journal of Range Management
New Forests
Proceedings of the Oklahoma Academy of Science
Acta Forestalia Fennica Monographs
Journal of Mathematical Modelling and Scientific Computations
Journal of Tropical Forest Science
Bioresource Technology
Scandinavian Journal of Forest Research
Sylva Fennica
European Journal of Forest Research
Forests
Canadian Journal of Remote Sensing

PROFESSIONAL ORGANIZATIONS

Society of American Foresters, Chair Oklahoma Division, Ouachita Society 1995
Sigma Xi, The Scientific Research Society, Associate Member 1985, Member 1987-present, Treasurer 2002-2004, Vice President 2004-2005, President 2005-2006
American Statistical Association
Gamma Sigma Delta
Phi Sigma Society
Xi Sigma Pi, Ranger (National Organization) 1998-2000
Oklahoma State University Graduate Faculty, Member, Secretary, Group I Biological Sciences 1999-2001
Midwest Mensurationists
Southern Mensurationists

PROFESSIONAL DEVELOPMENT AND CONSULTING

Duck Creek Associates, Stillwater, Oklahoma, consulting (forest growth modeling), 1983
Geographic Information Systems Workshop funded by a National Science Foundation Grant for Undergraduate Faculty Enhancement, Michigan Technological University, Houghton, Michigan, July 11-22, 1988
Book review for McGraw-Hill, 1990 (book manuscript related to natural resource sampling)
Sabbatical leave with USDA Forest Service Southern Experiment Station at Monticello, Arkansas, January 1993 - July 1993
Georgia Pacific Corp., consulting (modeling veneer yields), 1995-1996

PROFESSIONAL DEVELOPMENT AND CONSULTING

Society of American Foresters Leadership Academy, Traverse Resort, Traverse City, Michigan, September 12-14, 1995
First Things First Time Management seminar developed by the Covey Leadership Center, participated in seminar at Carrollton Texas, Feb. 10, 1996.
Ouachita Society SAF Leadership Training, Forest Heritage Center, Beavers Bend State Park, Broken Bow Oklahoma, February 21, 1997
Professional Development Grant \$1,500, from Louis Berger International Inc. through OSU International Programs for sponsorship of Ir. Emmy Winarni, Forestry Faculty, Lambung Mangkurnas University, Indonesia, visiting in Department of Forestry at OSU, November 1996

COMMUNITY, SERVICE ORGANIZATIONS AND SPECIAL INTERESTS

OSU Project InterMath Workshop, Doubletree Hotel at Warren Place, Tulsa, Oklahoma, May 2-3, 1997
Certificate of Achievement, Lotus Notes End User training, January 6, 1999
Model Selection and Inference, Workshop by Dr. David R. Anderson (Colorado State University) sponsored by the OSU Forestry Dept., Zoology Dept., and Bollenbach Chair, Wildl. Ecology, Stillwater, Oklahoma, May 4, 2001.
Development of tree taper equations with Gordon Holley for Temple Inland Corp. 2004-2005.
Fellowship of Christian Faculty and Staff (at Oklahoma State Univ.)
Sunnybrook Christian Church, Stillwater, Oklahoma
Trip to Beijing, China, April 1991. American Professional Resources for China. Lectured at Beijing Forestry University and the Chinese Academy of Forestry.
Mission trip to Oaxaca, Mexico, December 29, 1996-January 5, 1997. Assisted with church building construction in a rural village.
Kairos Prison Ministry, 1997-present. Dick Conners Correctional Facility, Hominy, Oklahoma (musician), team member on all but one of DCC #1-12, observing rector DCC #12, 2-day retreat leader Jan. 2003 (Choices); Davis Correctional Facility, Holdenville, Oklahoma, DCF #1, 2002, DCC#2, 2003; DCC#5, 2006 Cimarron Correctional Facility, Cushing, Oklahoma coordinator, rector Cimarron CF #1 2003, 2-day retreat leader July 2003 (Friendship with God), executive committee chair 2003; team member CCF #2-7. James Crabtree Correctional Facility, Helena, Oklahoma, JCC #1, #2, 2000-2001, JCC #12, 2006
United Way Captain, OSU Dept. Forestry 1996
Cimarron Valley Bluegrass, mandolin player, musical programs for:
Forestry Department Banquet, annually mid 1990's-2001, 2003, 2004
A Ouachita SAF Fall Meeting during mid 1990's
OSU Extension Annual Conference, January 1996
GEOG 4223 Geography of Music class performance/presentation mid 1990's-1998; July, Oct. 2003, July 2004
SAF Tradition bluegrass band: SAF National Conventions 1997, 1999, 2003, CD *Chordwood: In Tall Timber* 2000, mandolin

AWARDS AND RECOGNITION

Forestry Science Research Award, Ouachita Society of American Foresters, 2008
USDA Certificate of Appreciation for contributions to the peer review process for *Forest Science*, awarded August 8, 2003
Certificate of Appreciation for service to the Society of American Foresters as Associate Editor for Forest Measurements of the *Southern Journal of Applied Forestry* 1996-2002, awarded July 30, 2002
United Way Silver Award, 1996
USDA Certificate of Appreciation for contributions to shortleaf pine growth and yield research, awarded July 28, 1993
Certified Toastmaster (CTM), Toastmasters International, 1991

AWARDS AND RECOGNITION (continued)

Certified Forester No. 1141 (CF), Society of American Foresters, 2002, recertified 2005, 2008, 2015
Tulsa World Route 66 Half-Marathon Finisher, Nov. 18, 2007
Eagle Scout

REFERENCES

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