

Keith L. Belli

Contact Information:

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Education:

Doctor of Philosophy (1986)	University of Minnesota	Forest Biometrics
Master of Science (1981)	Michigan State University	Silviculture
Bachelor of Science (1980)	The Pennsylvania State University	Forest Science

Current Position:

Professor and Head, Department of Forestry, Wildlife and Fisheries, University of Tennessee.

The department head's responsibilities include leadership of all departmental programs and administrative responsibility for planning, fiscal management, human resources, and facilities. The department head reports to and works with the deans of UT AgResearch, UT Extension, and the College of Agricultural Sciences and Natural Resources to accomplish departmental goals and objectives. The head guides the department in its mission to deliver nationally and internationally recognized programs in teaching, research, extension, and outreach. The head articulates and promotes the department's vision to provide high quality, relevant education and training for undergraduate and graduate students that emphasizes value creation, original ideas, and leadership.

Experience:

2007- present	Professor and Head, Department of Forestry, Wildlife and Fisheries, University of Tennessee
2006 - 2007	Interim Head, Department of Forest Products, Mississippi State University
2006 - 2007	Associate Director, Forest & Wildlife Research Center, Mississippi State University
2003 - 2007	Associate Dean, College of Forest Resources, Mississippi State University
1998 - 2007	Professor, Forest Biometrics, Mississippi State University
1993 - 1998	Associate Professor, Forest Biometrics, Mississippi State University
1989 - 1993	Assistant Professor, Forest Biometrics, Mississippi State University
1987 - 1989	Assistant Professor, Forest Management, University of Toronto
1983 - 1986	Graduate Research Assistant, University of Minnesota
1982 - 1983	Research Forester, Michigan Cooperative Tree Improvement Program.
1981	Graduate Research Assistant, Cooperative Extension Service, Michigan State University
1980	Graduate Research Assistant, Department of Forestry, Michigan State University

Administrative Service:

Professional

- 2016 Assessment Group Member, Blue Ribbon Commission on Forest and Forest Products Research and Development in the 21st Century
- 2016 Visiting Team Leader, SAF Accreditation Review of Louisiana State University
- 2015 Work Group Member, Workshop on Creating the Future Workforce in Food, Agriculture, and Natural Resources, National Academy of Sciences
- 2015 - present President-Elect, National Association of University Forest Resource Programs (NAUFRP)
- 2014 - present Member, Tennessee Forest Stewardship Coordinating Committee
- 2014 - 2019 Alternate US Representative, IUFRO International Council
- 2013 - present Advisory Committee Member, Shortleaf Pine Initiative
- 2013 - 2014 Member, Committee on a Review of the USDA Agriculture and Food Research Initiative, Board on Agriculture and Natural Resources, Division on Earth and Life Studies, National Research Council
- 2013 Visiting Team Leader, SAF Accreditation Review of Clemson University
- 2012 - 2013 External Reviewer, Piedmont - South Atlantic Coast CESU 5-yr Renewal Assessment
- 2011 Visiting Team Leader, SAF Accreditation Review of the University of Arkansas-Monticello
- 2011 External Reviewer, Gulf Coast CESU 5-yr Renewal Assessment
- 2010 - 2014 National Research Chair, NAUFRP
- 2010 - present Executive Board Member, National Bobwhite Conservation Initiative
- 2010 - 2011 Treasurer, Southern Forest Research Partnership
- 2010 Member, NAUFRP Undergraduate Education Strategic Plan Committee
- 2009 - 2010 Steering Committee Member, Tennessee Forest Resource Assessment and Strategy
- 2008 - 2010 Southern Region Chair, National Association of University Forest Resource Programs
- 2008 - 2011 Board Member, Southern Forest Research Partnership
- 2008 - present Representative to General Assembly, International Partnership for Forestry Education
- 2007 - present Director, Southern Appalachian Cooperative Ecosystem Study Unit
- 2007 - present Member, Board of Directors Tennessee Forestry Association

Academic

- 2015 - 2016 Chair, Department Head Search Committee, UT Entomology and Plant Pathology Department
- 2015 - present Member, Natural Resources Leadership Team, UT Extension
- 2014 - 2015 Member, Forested Systems Leadership Team, UT Extension

2012	Member, UT Department Head Focus Group on Diversity Hiring
2011 - 2012	Member, CASNR Strategic Planning Committee for CASNR 2020
2011 - 2012	Member, UT Extension Strategic Planning Implementation Team
2011 - present	Member, UT Academic Council
2000 - 2004	Chair, Mississippi State University Committee on Courses and Curricula (25% release-time appointment)
2001 - 2002	Coordinator, Society of American Foresters Accreditation Interim Report (MSU)
1996 - 2003	Coordinator, Undergraduate Programs, Department of Forestry (MSU)
1996 - 1997	Chair, Department of Forestry, SAF Accreditation Committee
1995 - 2003	Major Advisor, Department of Forestry
1992 - 2003	Chair, Department of Forestry Undergraduate Committee
1992 - 2003	Department of Forestry, Measurements Working Group Leader
1992 - 1998	Chair, College of Forest Resources Curriculum Committee

Administrative Accomplishments (UT):

- Added new academic concentration in *Restoration and Conservation Science* to forestry major, 2015
- Led effort to establish UT as the host organization for the national Shortleaf Pine Initiative
- Planned and coordinated the Department of Forestry, Wildlife and Fisheries 50th Anniversary Celebrations, 2014
- Initiated and led NAUFRP's semi-annual meetings with NIFA Administration and National Program Leaders
- Initiated and led a dialogue with USDA Forest Service Research and Development to address issues related to funding limitations for graduate tuition and indirect costs
- As Steering Committee Member, helped develop and finalize the Tennessee Forest Resource Assessment and Strategy, 2011
- Increased Forestry, Wildlife and Fisheries departmental tenure-track faculty positions by 7 since 2007 (3 new hires and 4 conversions of non tenure-track positions); added 2 new non-tenure track faculty positions
- Increased departmental faculty diversity through aggressive hires of qualified women and minority candidates
- Added new academic concentration in *Urban Forestry* to forestry major, 2012
- Awarded host site status for the National Bobwhite Conservation Initiative, 2008
- Assisted (as committee member) in development of the *NAUFRP Undergraduate Educational Enhancement Strategy* (ratified March 23, 2011)
- Maintained and expanded online panel reviewer database for use by NIFA National Program Leaders
- Led review and update of departmental bylaws (ratified, 2008; revised 2011, 2014)
- Led process to complete departmental strategic plan (ratified 2009, revised 2016)
- Collaborated on the development and implementation of southern region undergraduate recruiting survey, 2008-2009

- Co-hosted, with the University of Kentucky, a one-day facilitated workshop in Knoxville (March 27, 2008) on recruiting efforts in the South

Administrative Accomplishments (MSU):

- Cooperative degree programs with HBCUs - Formalized joint B.S. degree program with Alcorn State University, and a 3+3 cooperative program with Tuskegee University.
- Initiated "Cluster Group" program for retention, 2005
- Initiated formal faculty advising evaluation, 2005
- Developed and coordinated annual residential Natural Resources Summer Camp for high school students in cooperation with the Mississippi Forestry Commission, 2004-2006
- Planned and coordinated the College of Forest Resources 50th Anniversary Celebrations, 2004
- Initiated College of Forest Resources Diversity Council, 2004
- Developed uniform criteria for the evaluation of Mississippi State University core courses (implemented university-wide in 2002)
- Authored Interim Report for SAF Accreditation, 2001
- Developed curriculum for new urban forestry option within the forestry major, 1999
- Coordinated departmental self-study for SAF Accreditation process, 1996-1997
- Developed "General Statement of Teaching Expectations for Instructors in the Mississippi State University Department of Forestry" 1994
- Developed departmental brochure "Professional Forestry Education at Mississippi State University" (with D. Hodges, S. Jordan, D. Richards, and University Relations personnel), 1994
- Developed and conducted a survey of graduating seniors to assess teaching performance of all courses taught by the Department of Forestry 1994, 1995
- Developed curriculum for new Environmental Conservation Option within the current Forestry Major, 1992

RESEARCH

Areas of research interest:

Diversity assessment
Undergraduate recruiting and retention
Growth and yield modeling
Natural Resources inventory and sampling
Hardwood management decision systems
Forest regeneration system models
Forest management and land use planning

Publications:

- Schlarbaum, SE., A.M. Saxton, S.L. Clark, and K. L. Belli. 2015. Form classification in bare-root, high-quality hardwood seedlings. Northern Forest Genetics Association Meeting. Martinsville, IN.
- Lechtenberg, V.L., S.S. Balling, K.L. Belli, P.J. Bruns, S.T. Buccola, J.C. Carrington, M.F. Dilworth, C. Garza, R.D. Green, R.R. Haggett, G. Hugoson, B.I. Osburn, P.G. Pardey, S.J. Rockey, J.M. Ruzante, and J.J. Zuiches. 2014. Spurring Innovation in Food and Agriculture: A Review of the USDA Agriculture and Food Research Initiative Program. National Academies Press. 244 p.
- Cunningham, K.K., S. Peairs, A.W. Ezell, K.L. Belli, and J.D. Hodges. 2011. Understory Light Conditions Associated with Partial Overstory Removal and Midstory/Understory Control Applications in a Bottomland Hardwood Forest. *Forests*, (2):984-992.
- Cunningham, K.K., A.W. Ezell, K.L. Belli, J.D. Hodges, and E.B. Schultz. 2011. A Decision-making Model for Managing or Regenerating Southern Upland Hardwood Forests. *Southern Journal of Applied Forestry*, Volume 35, Number 4, pp. 184-192.
- Collins, Curtis A., David L. Evans, Keith L. Belli, and Patrick A. Glass. 2010. Using Remotely Sensed Data and Elementary Analytical Techniques in Post-Katrina Mississippi to Examine Storm Damage Modeling. In: *Advances in Threat Assessment and Their Application to Forest and Rangeland Management (Vol 1)*. J.M. Pye, H.M. Rauscher, Y. Sands, D.C. Lee, and J.S. Beatty, Technical Editors. USDA Forest Service, Pacific Northwest Research Station, General Technical Report, PNW-GTR-802, pp. 225-236.
- Prevost, J.D., D.L. Grebner, J.C. Jones, S.C. Grado, K.L. Belli, J.D. Byrd. 2010. Influencing factors on vegetative cogongrass spread into pine forests on the Mississippi Gulf Coast. Pages 107-108 in John A. Stanturf, editor, *Proceedings of the 14th Biennial Southern Silvicultural Research Conference*. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 614 p.
- Sumerall, D.C., D.L. Grebner, J.C. Jones, S.C. Grado, R.P. Maiers, K.L. Belli. 2010. Determining the factors associated with seedling herbivory on afforested carbon sequestration sites in the Lower Mississippi Alluvial Valley: Preliminary results. Pages 171-174 in John A. Stanturf, editor, *Proceedings of the 14th Biennial Southern Silvicultural Research Conference*. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 614 p.
- Adams, Joshua P., Samuel B. Land Jr., Keith L. Belli, and Thomas G. Matney. 2008. Comparison of 17-year realized plot volume gains with selection for early traits for loblolly pine (*Pinus taeda* L.). *Forest Ecology and Management* 255 (5-6): 1781–1788.

- Prevost, J.D., D.L. Grebner, J.C. Jones, S.C. Grado, K.L. Belli, J.D. Byrd. 2008. Evaluation of cogongrass control techniques for nonindustrial private landowners in Mississippi. Pages 188-193 in Proceedings of the Southern Forest Economics Workshop 2007: Global Change and Forestry: Economic and Policy Implications. San Antonio, TX, March 5-6, 2007.
- Sumerall, D.C., D.L. Grebner, J.C. Jones, K.L. Belli, S.C. Grado, R.P. Maiers. 2008. Measuring the biological and economic effects of wildlife herbivory on afforested carbon sequestration sites in the Lower Mississippi Alluvial Valley. Page 207 in Proceedings of the Southern Forest Economics Workshop 2007: Global Change and Forestry: Economic and Policy Implications.
- Hodges, Donald G. and Keith L. Belli. 2007. Assessing quality in professional forestry education: a survey of U.S. forestry undergraduate programs. In: Proceedings, Education Group (6.15.00) IUFRO Division VI Symposium: Integrative Science for Integrative Management. Saariselkä, Finland. August 14-20, Siegfried Lewark, editor. Arbeitswissenschaftlicher Forschungsbericht No. 8, IUFRO Education Group Publications No. 3, Institut für Forstbenutzung und Forstliche Arbeitswissenschaft, Albert-Ludwigs-Universität Freiburg im Breisgau. pp. 23-28.
- Prevost, J.D., D.L. Grebner, J.C. Jones, S.C. Grado, K.L. Belli, J. Byrd. 2007. Cogongrass in southern forests: factors influencing spread; biological and economic effects of varying levels of herbicides and surfactant. Society of American Foresters National Convention. Portland, OR.
- Adams, J.P., T.G. Matney, S.B. Land, Jr., K.L. Belli, and H.W. Duzan, Jr. 2006. Incorporating genetic parameters into a loblolly pine growth-and-yield model. Canadian Journal of Forest Research, 36:1959-1967.
- Sumerall, D.C., Grebner, D.L., Jones, J.C., Belli, K.L., Grado, S.C., and R.P. Maiers. 2006. Measuring the biological and economic effects of wildlife herbivory on afforestation carbon sequestration sites in the lower Mississippi Alluvial Valley. In: Proceedings, Society of American Foresters National Convention, Pittsburgh, PA, October 25-29, 2006.
- Measells, M.K., S.C. Grado, C. Sun, and K.L. Belli. 2006. Evaluating Mississippi's hunting and fishing licenses and fees. In: Proceedings of the 2005 Annual Southern Forest Workers Economics Workshop. "2005 SOFEW." Chang, J. ed. Baton Rouge, Louisiana on April 18-20, 2005.
- Prevost, J.D., Grebner, D.L., Jones, J.C., Grado, S.C., Belli, K.L., and J.D. Byrd. 2006. Variables influencing the rate of vegetative spread of Cogongrass into pine forests on the Mississippi Gulf Coast. In: Proceedings, Society of American Foresters National Convention, Pittsburgh, PA, October 25-29, 2006.

- Measells, M.K., S.C. Grado, C. Sun, K.L. Belli. 2005. Evaluating hunting and fishing licenses for the Mississippi Department of Wildlife, Fisheries and Parks. *Proceedings Southeastern Association of Fish and Wildlife Agencies* 59:164-172.
- Belli, K.L. 2005. How much timber is on your land? *Independent Sawmill & Woodlot Management*, 53:14-17.
- Anderson, C.D, Grebner, D.L., Evans, D.L., Munn, I.A., and K.L. Belli. 2005. Preliminary study on the impact of stand identification through an object-oriented approach on a linear forest planning model. In: *Proceedings of the Joint CIF/SAF Annual Meeting*, Edmonton, Alberta, October 1-6, 2004.
- Parker, R.C., P.A. Glass, H.A. Londo, D.L. Evans, K.L. Belli, T.G. Matney, and E.B. Schultz. 2005. Mississippi's Forest Inventory Pilot Program: Use of Computer and Spatial Technologies in Large Area Inventories. *FWRC Research Bulletin FO 274*, Mississippi State University. 43 pp.
- Anderson, C.D., D.L. Grebner, D.L. Evans, I.A. Munn, K.L. Belli. 2005. The impact of stand identification through an object-oriented approach for forest management planning. Pages 35-43 in *Proceedings of the 2004 SOFEW meeting*.
- Cunningham, K.K., A.W. Ezell, K.L. Belli, J.D. Hodges. 2004. Decision-making model for management and regenerating southern upland hardwoods. Pages 249-253 in K.F. Connor, editor, *Proceedings of the 12th biennial southern silvicultural research conference*. Gen. Tech. Rep. SRS?71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 594 p
- Peairs, S.E., A.W. Ezell, K.L. Belli, J.D. Hodges. 2004. A comparison of oak regeneration conditions following midstory injection and partial overstory removal in a Tombigbee river terrace. Pages 499-501 in K.F. Connor, editor, *Proceedings of the 12th biennial southern silvicultural research conference*. Gen. Tech. Rep. SRS?71. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 594 p.
- Douglas, E., D.L. Evans, K.L. Belli, and S.D. Roberts. 2004. Classification of pine and hardwood by the distribution and intensity of LIDAR returns. In: *Proceedings, Workshop on Three Dimensional Mapping from InSAR and LIDAR*. International Society for Photogrammetry and Remote Sensing, Working Groups I/3 and II/2, Portland, Oregon, June 17-19, 2003. CDROM.
- Renick, N.J., D.L. Grebner, D.L. Evans, I.A. Munn, S.C. Grado, and K.L. Belli. 2004. Impacts of inaccurate area estimation on harvest scheduling using different image resolutions. In: *Proceedings, Southern Forest Economics Workshop*, New Orleans, LA, March 17-18, 2003. pp. 350-358.

- Glass, P.A. K.L. Belli. D.L. Evans. 2004. Effects of sampling frame implementation upon estimates of plantation and tree characteristics from LiDAR derived data. In: Proceedings, Workshop on Three Dimensional Mapping from InSAR and LIDAR. International Society for Photogrammetry and Remote Sensing, Working Groups I/3 and II/2, Portland, Oregon, June 17-19, 2003. CDROM.
- Glass, P.A., K.L. Belli, and D.L. Evans. 2003. Sampling frame impacts on estimates of plantation and tree characteristics from LiDAR derived data. In: Proceedings, ASPRS National Conference. Anchorage, AK. May 5-9, 2003.
- Douglas, T.E., D.L. Evans, K.L. Belli, S.D. Roberts. 2003. Classification of pine and hardwood by the distribution and intensity of LIDAR returns. Proc., Joint Workshop of ISPRS WG I/3 and WG II/2 - 3-dimensional mapping from InSAR and LIDAR.
- Bullard, S.H., D.L. Grebner, and K.L. Belli. 2002. Financial maturity concepts with application to three hardwood timber stands. FWRC Research Bulletin FO 202. Mississippi State University, 21 p.
- Glass, P.A., K.L. Belli and R.C. Parker. 2002. Utilization of satellite technology to enhance forest inventory efficiency: An operational demonstration. In: Proceedings of ForestSat 2002. Edinburgh, Scotland. August 5-9, 2002.
- Londo, H.A., P.A. Glass, D.L. Evans, R.C. Parker, K.L. Belli, T.G. Matney, and E.B. Schultz. 2001. Mississippi's forest inventory pilot program. Poster: Third International Conference on Geospatial Information in Agriculture and Forestry, Denver. CO. November 5-7, 2001.
- Londo, H.A., P.A. Glass, D.L. Evans, R.C. Parker, K.L. Belli, T.G. Matney, E.B. Schultz and N. Roller. 2001. Enhancing inventory efficacy in Southern forests by stratification of Landsat data. Third International Conference on Geospatial Information in Agriculture and Forestry, Denver. CO. November 5-7, 2001.
- Leduc, D.J., T.G. Matney, K.L. Belli, and V.C. Baldwin. 2001. Predicting diameter distributions of longleaf pine plantations: a comparison between artificial neural networks and other accepted methodologies. USDA Forest Service, Southern Research Station, Research Paper SRS-25, 18 p.
- Londo, H.A., P.A. Glass, D.L. Evans, K.L. Belli, R.C. Parker, T.G. Matney, E.B. Schultz, and N. Roller. 2000. Integration of remote sensing and GPS with traditional forest inventory procedures. In: Proceedings, Third Southern Forestry GIS Conference, 10/10-12, 2000, Athens, GA. On CD-ROM.
- Glass, P.A., K.L. Belli and R.C. Parker. 2000. Electronic forest inventory equipment: prospects and problems. In Proceedings: Southern Mensurationists' Conference - Jekyll Island, GA. 11/28-29, 2000.

- Belli, K.L., C.P. Hart, J.D. Hodges, and J.A. Stanturf. 1999. Assessment of the regeneration potential of red oaks and ash on minor-bottoms of Mississippi. *Southern Journal of Applied Forestry* 23(3): 133-138.
- Belli, Keith L., J.D. Hodges and J.C.G. Goelz. 1998 . Site Productivity Assessment for Cherrybark Oak on Minor Stream Bottoms in Mississippi: A Comparison of Methods. *Southern Journal of Applied Forestry* 22(1):7-10.
- Day, C. P., J.D. Hodges, S.H. Schoenholtz, and K.L. Belli. 1997. Influence of hydrology on artificial regeneration of oaks in the Mississippi Delta. In: Proc. Ninth Biennial South. Silv. Res. Conf., Feb. 25-27, 1997, Clemson, SC. USDA Forest Service, Southern Forest Experiment Station, General Technical Report.
- Day, C. P., J.D. Hodges, S.H. Schoenholtz, and K.L. Belli. 1997. Wetland reserve program. Mississippi State University, Forest and Wildlife Research Center, Center Paper FWRC-FO-34, Volume 2, No. 4. 4 pp.
- Belli, K.L., S.B. Land, Jr. and H.W. Duzan, Jr. 1997. A tree quality scoring system for immature loblolly pine. *Southern Journal of Applied Forestry* 21(1):24-27.
- Hodges, J.D., L.A. Couch, S.H. Schoenholtz, K.L. Belli, and J. Stanturf. 1996. Long-term influence of harvesting practices on diversity and stratification in bottomland hardwood stands. Presented by J.D. Hodges at: Wetlands for the Future, INTECOL's Fifth International Wetlands Conference, 22-28 Sept. 1996, Perth, Western Australia.
- Hart, Christopher P., J.D. Hodges, K.L. Belli and J.A. Stanturf. 1995. Evaluating potential oak and ash regeneration on minor bottoms in the Southeast. *In: Proc. Eighth Biennial South. Silv. Res. Conf., Nov. 1-2, 1994, Auburn, AL. USDA For. Serv. Gen. Tech. Rep. SRS-1. p. 434-442.*
- Matney, T.G. and K.L. Belli. 1995. Constrained least squares diameter distribution recovery. *In: Proc. Eighth Biennial South. Silv. Res. Conf., Nov. 1-2, 1994, Auburn, AL. USDA For. Serv. Gen. Tech. Rep. SRS-1. p. 182-191.*
- Perkins, S.A., K.L. Belli, J.D. Hodges, and J.C.G. Goelz. 1995. Growth and survival prediction for hardwoods in the minor stream bottoms of Mississippi. *In: Proc. Eighth Biennial South. Silv. Res. Conf., Nov. 1-2, 1994, Auburn, AL. USDA For. Serv. Gen. Tech. Rep. SRS-1. p. 163-166.*
- Hodges, D.G., J.L. Regens, K.L. Belli, and W.F. Watson. 1994. Forest policy implications of climate change: economic impacts and potential mitigation strategies. *Global Climate Change: Science, Policy, and Mitigation Strategies. Proceedings of the Air and Waste Management Association, International Specialty Conference. (C.V. Mathai and G. Stensland, eds.) April 5-8, 1994, Phoenix, AZ. pp. 913-922.*

- Belli, K.L., Manuel, T.M., Hodges, J.D., and G.J. Wilms. 1993. HARDWOOD: A decision-making tool for bottomland hardwood stands in the Gulf South. *The Compiler* 11(2):4-7.
- Manuel, T.M., K.L. Belli, J.D. Hodges, and R.L. Johnson. 1993. A decision-making model to manage or regenerate southern bottomland hardwood stands. *Southern Journal of Applied Forestry* 17(2):75-79.
- Belli, K.L., T.G. Matney, J.D. Hodges, R.T. Deen, and J.C.G. Goelz. 1993. Tree grade prediction for Mississippi bottomland hardwoods using discriminant analysis. *Southern Journal of Applied Forestry* 17(3):120-123.
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- Land, S.B., K.L. Belli and H.W. Duzan, Jr. 1991. Family, spacing, and family-by-spacing effects on loblolly pine during 5 years after planting. In: *Proceedings, Sixth Biennial Southern Silvicultural Conference*, October 30 - November 1, 1990. Memphis, TN.
- Dubois, M.R., W.F. Watson, T.J. Straka and K.L. Belli. 1991. Costs and cost trends for forestry practices in the South. *The Forest Farmer Manual - 28th Edition*. p. 26-32.
- Matney, T.G., K.L. Belli and R.M. Farrar Jr. 1990. Parameter free diameter distribution recovery. *Proceedings from Sessions of 4.01, Mensuration, Growth and Yield*, at the IUFRO, XIX World Congress, Harold E. Burkhardt, ed. August 5-11, 1990, Montreal, Canada. Publication FWS-2-90, School of Forestry and Wildlife Resources, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0324. p. 95-107.
- Belli, K.L. 1990. A jack pine survival model for spring-lifting and planting delays in Ontario. *New Forests* 4:193-205.
- Belli, K.L. 1989. An integrated management system for jack pine production in Ontario. In: *Proceedings, Interdisciplinary Conference on Natural Resource Modeling and Analysis*, A.T. Charles and G.N. White III (eds.). September 29 - October 1, 1988. Halifax and Dartmouth, Nova Scotia.
- Belli, K.L. and J.C. Nautiyal. 1989. Production functions: A useful tool for forest management. *Forest Ecology and Management* 29(4):267-275.

- Nautiyal, J.C. and K.L. Belli. 1989. Study of production functions for Modeling forest biomass: an area for research. *Forest Science* 35(3):843-849.
- Belli, Keith L. and Alan R. Ek. 1988. Growth and survival modeling for planted conifers in the Great Lakes region. *Forest Science* 34(2):458-473.
- Belli, Keith L. 1988. FPES: a framework for Modeling the artificial regeneration process. In: Proceedings, International Union of Forestry Research Organization, Forest Growth Modeling and Prediction Conference, August 24-28, 1987. St. Paul, MN. USDA For. Serv., North Central For. Exp. Sta., Gen. Tech. Rep. NC-120, p. 361-368.
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- Rose, D.W., Ek, Alan R. and Keith L. Belli. 1986. A conceptual framework for assessing impacts of CO₂ change on forest industries. In: CO₂ Buildup and Global Climate Changes Proceedings. Conservation Foundation.
- Belli, Keith L. and Donald I. Dickmann. 1985. Effect of preplant spraying or soaking on growth and water relations of jack pine seedlings. *Tree Planters' Notes* 36(4):24-27.

Grants and contracts:

- Building Capacity for the Recruitment and Retention of Students in Forestry Multicultural Scholars Program, USDA - National Institute of Food and Agriculture, \$162,000. 2016-2021 (PI - S. Jean-Philippe; CoPIs - K. Belli, C. Pickett, J. Richards).
- Welcome Wagon, Tennessee Department of Agriculture, \$23,000. 2016-2019 (PI - D. Mercker; CoPI - K. Belli).
- Southern Research Station/UT Cooperative Research, USDA Forest Service, \$236,923. 2014-2017.

- Strengthening Research Partnerships with the University of Tennessee, USDA Forest Service, \$58,432. 2014-2017.
- Administrative Support for the Southern Appalachian Field Branch, USGS Cooperative Agreement, \$135,300. 2014 - 2016.
- Management and Stand Dynamics of Upland Hardwood Ecosystems, USDA Forest Service, \$62,874. 2010 - 2014.
- Recognition of the Impacts of the McIntire-Stennis Cooperative Forestry Research Program, National Institute of Food and Agriculture, \$10,000. 2012.
- CESU Sponsored Workshops and Meetings, US Dept. of Interior - National Park Service, \$11,985. 2011.
- Internship Program Partnership, Commonwealth of Kentucky Department of Fish and Wildlife Resources Contract, \$41,000. 2011.
- Internship Program Partnership, Commonwealth of Kentucky Tourism Development Cabinet Contract, \$15,600. 2010.
- University of Tennessee Internship Program, State of Tennessee, \$2,600. 2010.
- Administrative Support for the Southern Appalachian Field Branch, USGS Cooperative Agreement, \$417,020. 2009 - 2014.
- Internship Program Placement Agreement, Montana Fisheries, Wildlife and Parks, \$5,298. 2009.
- Southern Appalachian CESU Amendment, US DOD Department of the Army, \$10,000. 2008.
- University of Tennessee/Forest Inventory & Analysis Programming Support, USDA Forest Service Contract, \$444,768. 2007 - 2014.
- Deer Check, US Department of Energy/UT-Battelle/Oak Ridge National Laboratory Contract, \$24,000. 2007-2010.
- Natural Resources Summer Camp, 2006 Georgia Pacific Foundation Grant, \$3,000.
- Improvement of Sampling Protocols and Forest Condition Predictions for Large Areas Through Integration of Advanced Spatial Technologies, USDA, CSREES 2005 Wood Utilization Research Program, \$462,993. 2005-07 (D. Evans, R. Parker, T. Matney, and E. Schultz, Co-Investigators).

Natural Resources Summer Camp, Weyerhaeuser Company Foundation Grant, \$4,000. 2005.

Natural Resources Summer Camp, International Paper Foundation Grant, \$2,000. 2005.

Development of Predictive Tools for Determination of the Future Condition of Mississippi's Forest Resources, USDA, CSREES 2004 Wood Utilization Research Program, \$417,884. 2004-06 (D. Evans (PI), R. Parker, T. Matney, and E. Schultz, Co-Investigators).

Evaluating Hunting, Fishing, Recreation, & Miscellaneous Licenses and Fees for the Mississippi Department of Wildlife, Fisheries, & Parks, MDWFP, \$29,581. 2004 (S. Grado (PI), C. Sun Co-Investigator)

Analysis of Timber Production Information and Engineered Wood Products, 2003 Wood Utilization Research, USDA/CSREES, \$69,160. 2003-2005 (D. Grebner, Co-investigator).

Use of Geospatial Technologies in Large-Area Forest Inventories, 2003 Wood Utilization Research, USDA/CSREES, \$464,359. 2003-2005 (D. Evans, T. Matney, R. Parker, and E. Schultz, Co-investigators).

Assessing the Status, Needs, and Knowledge Levels of Mississippi's Governmental Entities Relative to Urban Forestry, Mississippi Forestry Commission, 2002 Urban & Community Forestry Challenge Grant Program, \$21,560. 2002-04 (S. Grado (PI), and D. Grebner, Co-Investigators)

Consultation and Assistance on Implementation of a Regional Forest Inventory System, Stephen F. Austin State University, \$10,000. 2002 (D. Evans (PI), T. Matney, R. Parker, and E. Schultz, Co-Investigators).

Costs and Benefits of the Urban Forest for Small Cities: Developing a Prediction Model, Mississippi Forestry Commission, \$55,000. 2002-04 (S. Grado (PI), D. Grebner, E. Schultz, and D. Evans, Co-Investigators)

Evaluating Hunting and Fishing Fees for Mississippi, Mississippi Department of Wildlife, Fisheries and Parks, \$8000. 2001 (S.G. Grado, Co-Investigator).

Forest Resources Assessment and Management Plan at Stennis Space Center, RSTC (NASA), \$124,410. 2000-2003 (D.L. Evans, S. Grado, D. Grebner (PI), J. Jones, T.G. Matney, I.A. Munn, and R.C. Parker, Co-investigators).

Pilot Program for a Statewide Forest Monitoring and Inventory System, Mississippi Remote Sensing Technology Center, \$893,039. 1999-2000 (D.L. Evans, and T.G. Matney, R.C. Parker, E.B. Schultz, Co-investigators).

Evaluation of Current and Future Forest Resources Within the Red Hills Power Project Area, Tennessee Valley Authority, \$43,998. 1997 (D.L. Evans, T.G. Matney, R.C. Parker, Co-Investigators)

NCASI and USDA Forest Service, Long-term effects of harvesting practices on floristic and structural diversity of bottomland hardwood stands. \$49,000. 1994-1996. Co-Investigator with J.D. Hodges, S.H. Schoenholtz, and John A. Stanturf (Forest Service).

USDA Forest Service Cooperative Agreement, Assessing the physical risks of forest plantations to offset global climate change in the United States. \$20,000. 1993-1994 (Co-PIs, D. Hodges, W. Watson).

USDA Forest Service Cooperative Agreement, Modeling the productivity of southern bottomland hardwood forests. \$10,000. 1993-1995 (J.D. Hodges, Co-Investigator).

USDA Forest Service Cooperative Agreement, Assist in the initiation of a regional field study of the growth and yield of natural even-aged stands of loblolly pine. \$26,500. 1992-1994.

USDA Forest Service Cooperative Agreement, Modeling the development and tree grade of even-aged southern bottomland hardwood forests. \$61,454. 1992-1994.

USDA Forest Service Cooperative Agreement, Rendering certain tree and plot volume, growth, and yield measurements from natural southern pine stands into machine readable form. \$9,000. 1990-1993.

Ontario Renewable Resource Research Grant, Development of interspecific competition index for conifer regeneration in Ontario. \$15,175 1988-89; \$19,625, 1989-90.*

Natural Science and Engineering Research Council (Canada), Forestry Transitional Support Program (part II), Integrated management system for jack pine production. \$52,000, 1988-90. (Dr. S.M. Smith, Univ. Toronto, Co-investigator)*

Natural Science and Engineering Research Council (Canada), Operating Grant, Height distribution growth model for black spruce in Ontario. \$11,500. 1989-1990.*

Ontario Renewable Resource Research Grant, Impact of tip weevil on jack pine regeneration. \$16,170, 1989-90; \$8,735, 1990-91. (Dr. S.M. Smith, Univ. Toronto, Co-investigator)*

Canadian Forest Service Block Grant, Refinement of artificial regeneration system model. \$25,000. 1987-88.

Natural Science and Engineering Research Council (Canada), Equipment Grant, Image analysis system. \$37,550. 1987-88. (Dr. J. Vlcek, Univ. Toronto, Co-investigator)

Natural Science and Engineering Research Council (Canada), Forestry Transitional Support Program (part I), Integration of pest control and timber supply. \$ 9,000. 1987-88. (Dr. J.C. Nautiyal, Univ. Toronto, Co-investigator)

*Access to grants terminated upon resignation from University of Toronto, 1989

Presentations and Outreach:

“Assessing Diversity of Thought Among Undergraduate Natural Resource Students.” Presented at The Future of Diversity in Our Disciplines and Careers: Natural Resources and the Environment. Blacksburg, VA, June 19-21, 2013.

“FWF Departmental Update.” Presentation at the Tennessee Forestry Association Annual Meeting, Gatlinburg, TN. Oct. 13-15, 2010.

“Collaborative Efforts in Southern Forestry Recruiting: A Preliminary Analysis of Forestry Majors.” 2010. Presented to the joint meeting of the Southern Group of State Foresters, and Southern NAUFRP, June 8-11, 2010. Biloxi, MS (L. Lhotka, M. Fly, K. Belli, S. Bullard)

“Natural Resources Issues and Challenges.” Presentation at the Partners of the Cherokee National Forest Board of Directors’ Meeting, Unicoi, TN. Nov. 6, 2009.

“NAUFRP Update.” Presentation at the Summer Meeting of the Association of Research Directors, Asheville, NC. August 12, 2009.

“Issues of Joint Interest: NAUFRP and SGSF.” Presentation at the Annual Meeting of the Southern Group of State Foresters, Wilmington, NC. June 12-18, 2009.

“FWF Update.” Presentation at the Partners of the Cherokee National Forest Board of Directors’ Meeting, Delano, TN. Nov. 14, 2008.

“Assessing Quality in Professional Forestry Education: a Survey of U.S. Forestry Undergraduate Programs.” Presented (with D. Hodges) at IUFRO Division VI Symposium: Integrative Science for Integrative Management. Saariselkä, Finland. August 14-20, 2007.

“Issues and Challenges for TN Natural resources.” Presentation at the Partners of the Cherokee National Forest Board of Directors’ Meeting, Johnson City, TN. Nov. 2, 2007.

“Tree and Forest Measurement.” *Capital Ideas Live!* A monthly broadcast news conference for forest landowners, sponsored by the Alabama Forest Landowners’ Association (invited speaker). September 21, 2005.

“Existing Knowledge Levels of Silvicultural Impacts on Wood Properties for Developing Engineered Wood. Society of American Foresters 2005 Annual Convention, Ft. Worth, TX. October 19-23, 2005. (D. Snow, K.L. Belli, D.L. Grebner, T.P. Schultz). Poster presentation.

“Tree and Forest Measurement.” *Capital Ideas Live!* A monthly broadcast news conference for forest landowners, sponsored by the Alabama Forest Landowners’ Association (invited speaker). August 18, 2004.

“Valuation of Timber Trespass.” A short course conducted (with R.C. Parker) through MSU Continuing Education. October 10-11, 2002.

“Getting the Most Out of Your Forest Inventory.” A shortcourse conducted (with R.C. Parker) through MSU Continuing Education. February 10-11, 2000.

“Forest Growth and Yield.” A shortcourse conducted (with R.C. Parker) through MSU Continuing Education. February 22-24, 1994.

“A Scalable Forest Inventory System: Results of the Pilot Study for Mississippi.” Presented to the Task Force for the Strategic Initiative for Forest Based Economic Development, 2001, Jackson, MS.

“Prediction of Grade and Yield for Southern Bottomland Hardwoods.” Hardwood Cooperative Contact Meeting, October 13, 1993. Stoneville Mississippi. Invited.

“Conducting long term research in forestry: what can we do to insure continuity?” Presented at the Association of Southern University Biometricians' Annual Meeting. September 4-6, 1991. Townsend, TN.

“Prediction of yield by log grade for red oak-sweetgum stands in Mississippi.” Presented at the Sixth Biennial Southern Silvicultural Conference, Oct. 30 - Nov. 1, 1990. Memphis, TN.

“Multivariate classification procedures applied to hardwood grade distribution data.” Presented at the IUFRO, XIX World Congress, August 5-11, 1990, Montreal, Canada (poster session).

“An integrated management system for jack pine production in Ontario.” Presented at the Interdisciplinary Conference on Natural Resource Modeling and Analysis, September 29 - October 1, 1988. Halifax, N.S.

“FPES: Forest Plantation Establishment Simulator.” Presented at the International Union of Forestry Research Organization, Forest Growth Modeling and Prediction Conference, August 24-28, 1987. St. Paul, MN.

“An overview of artificial regeneration modeling research.” Presented on August 29, 1985 at the Midwest Forest Mensurationists' Meeting, Lutsen, Minnesota.

TEACHING

Teaching Responsibilities:

FORS 100 Forests and Forestry in American Society (Fall 2015; University of Tennessee)
FWF 313 Measurements and Sampling (Spring, 2013 - 2014; University of Tennessee)
FORS 329 Forest Resource Inventory (Fall, 2012 - 2013; University of Tennessee)
FO 3015 Forest Description and Analysis (Summer 1992 - 2006; Mississippi State University)
FO 4213/6213 Forest Biometrics (Spring 1990 - 2006; Mississippi State University)
FOR114S Forest Measurement Techniques (Spring 1989; University of Toronto)
FOR303Y Forest Regulation and Management Techniques (Fall 1988, 1989; University of Toronto)
FOR404Y Land Management Plan (Fall and Spring 1988, 1989; University of Toronto)
FOR471S Planning Forest Use (Spring 1988, 1989; University of Toronto)

AWARDS AND RECOGNITION

Nomination, U.S. Professor of the Year Award, Council for Advancement and Support of Education, 2004

Outstanding Forestry Faculty Member, 2003-04 (SAF Student Chapter, MSU) CFR/FWRC

Dean/Director's Award for Excellence, 2002 (Forest Inventory Research)

CFR/FWRC Dean/Director's Award for Excellence, 2002 (SAF Accreditation Report)

Outstanding Forestry Faculty Member, 2001-02 (SAF Student Chapter, MSU)

Grisham Master Teacher, Mississippi State University, awarded for 1999-2000

College of Forest Resources Teaching Award for 1998

SAF Award for Superior Member Recruitment, 1991

Best Paper Award at the 6th Biennial Southern Silvicultural Research Conference, 1990
Faculty of Forestry "Teacher of the Year" Award (University of Toronto), 1989
Awarded Boise Cascade Fellowship, 1985
Awarded Graduate Tuition Scholarship, 1985
Awarded Category II Graduate Office Master's Scholarship for exceptional scholastic achievement, 1981
Awarded Graduate Office Scholarship for exceptional scholastic achievement, 1980
Graduated with *High Distinction* (The Pennsylvania State University), 1980

PROFESSIONAL DEVELOPMENT

Completed Responsible Conduct of Research Training, CITI Program, April 19, 2016.

Completed IRB Training, CITI Program, October 6, 2015.

Met with Administration of the University of Ljubljana to sign MOU between UL and UTIA, Ljubljana, Slovenia. May 19, 2015.

Participated in collaborative visits with scientists and administrators of Salzburg University of Applied Sciences, Kuchl, Austria. May 13-15, 2015.

Met with Administration of Nanjing Forestry University to sign MOU between NFU and UTIA, Nanjing, China. Nov. 15-22, 2014.

Completed Institutional Animal Care and Use Committee training module "Working with Hazardous Agents in Animals." January, 2012.

Completed Institutional Animal Care and Use Committee training module "Common Compliance Issues." January, 2012.

Participated in collaborative visits with scientists and administrators of Chinese Academy of Forestry, Beijing, China. Nov. 4-5, 2010.

Met with Administration of Southwest Forestry University to sign MOU between SWFU and UTIA, Kunming, China. Nov. 1-3, 2010.

Attended Central Region Annual Meeting of Association of University Technology Managers, Memphis, TN. July 12-14, 2010.

Participated in Catalyst Team Workshop, Tennessee Change Agent States, Smithville, TN. Aug. 17-20, 2009.

Participated in 2009 Dean's Tour, "Emerging Issues and Forestry Research." Amelia Island plantation, FL. January 14-16, 2009.

Participated in International Study Tour for faculty and administrators, hosted by Kasetsart University, Bangkok, Thailand. Jan. 19 - Feb. 4, 2008.

Attended Peer Observation for Teaching Assessment, College of Agriculture and Life Sciences Excellence in Teaching Seminar, March 7, 2005.

Attended NCSU College of Natural Resources Diversity Summit, "Enriching the Professional Harvest." Sept. 22-23, 2005. Raleigh, NC.

Re-certification, Human Subjects Education, MSU Institutional Review Board, March 22, 2005.

Member of Class 12, National ESCOP/ACOP Leadership Development Program, 2002

Certification, Human Subjects Education, MSU Institutional Review Board, May 22, 2002.

Attended the following workshops directed by the Center for Educational Development and Assessment:

- Successful Use of Teaching Portfolios (3/9/97)
- Developing a Comprehensive Faculty Evaluation System (3/10/97-3/11/97)
- Assessing Student Learning Outcomes (3/12/97)

UNIVERSITY SERVICE

University of Tennessee - Institute of Agriculture Committees

Member, UT Extension Natural Resources Leadership Team, 2015 - present.

Chair, Department Head Search Committee, Entomology and Plant Pathology Department, 2015 - 2016.

Member, UT Extension Forested Systems Leadership Team, 2014.

Member, CASNR Strategic Planning Committee for CASNR 2020, 2011 - 2012

Member, UT Extension Strategic Planning Implementation Team, 2011 - 2012

Member, Search Committee, UTIA Distinguished Professor - Water and the Environment, 2011 - present

Chair, Department Head Search Committee, Biosystems Engineering & Soil Sciences Department, 2007 - 2008

Member, Department Head Search Committee, Agricultural and Resource Economics Department, 2007 - 2008

Mississippi State University - University-Level Committees

- Chair**, University Committee on Courses and Curricula, 2000 - 2004
- Chair**, Charter and Bylaws Committee, Division of Agriculture, Forestry, and Veterinary Medicine, Faculty Senate, 1999, 2000
- Member**, *Ad hoc* Task Force to Review Current Courses in the Core Curriculum, 2003
- Member**, Athletic Council, 2002 - present
- Representative** for the College of Forest Resources, University Assessment Committee, 1997-present
- Representative** for the College of Forest, Resources, University Committee on Courses and Curricula, 1992 - 2004
- Representative** for the College of Forest Resources, University Committee on Registration and Scheduling, 1992 - present
- Representative** for the College of Forest Resources, Decennial Self-study for Reaffirmation of Accreditation, Southern Association of Colleges and Schools Subcommittee on Organization, Administration and Corporate Entities, 2001
- Representative** for the College of Forest Resources, Course Management Task Force, 2000, 2001
- Representative** for Department of Forestry, Research Selection Committee, 2000
Alumni Association Faculty Awards, 2000
- Representative** for Department of Forestry, Faculty Senate of the Division of Agriculture, Forestry and Veterinary Medicine 1997 - 2000
- Representative** for the College of Forest Resources, Provost and Vice President of Academic Affairs Search Committee, 1998, 1999
- Representative** for Department of Forestry, Environmental Studies Committee, 1998, 1999
- Member**, Charter and Bylaws Committee, Division of Agriculture, Forestry and Veterinary Medicine Faculty Senate, 1997 - 2000
- Representative** for the College of Forest Resources, University College Committee, 1996
- Representative** for the College of Forest Resources, Ad Hoc Core Curriculum Committee, 1993
- Representative** for Department of Forestry, Teaching Selection Committee, 2000
Alumni Association Faculty Awards, 1993, 1995

Mississippi State University - College For. Res./For. & Wildlife Res. Center Committees

- Chair**, Strategic Planning Committee, 2000 - 2004, 2006
- Chair**, Forest and Wildlife Research Center Annual Report Committee 1998 - 2000
- Chair**, Curriculum Committee, 1992 - 1998
- Chair**, Outstanding Students Awards Committee, 1992
- Representative** for Department of Forestry, Dean/Director Search Committee 1999, 2000
- Member**, Scholarship Committee, 2004 - 2007

Member, Diversity Council, 2004 - 2007
Member, Curriculum Committee, 2004 - 2007
Member, Enrollment Management Committee, 1996
Member, Strategic Planning Committee, 1995, 1996, 2005
Member, Search Committee, Administrative Assistant position, 1996
Member, Ad Hoc Undergraduate Teaching Programs Committee, 1993 - 1995
Member, Recruitment Committee, 1989 - 1994
Member, Outstanding Students Awards Committee, 1993

Mississippi State University - Departmental Committees

Chair, Undergraduate Committee, 1992- 2003
Chair, Proposal Review Committee (R.C. Parker FWRC Research Proposal), 2000
Chair, Committee for SAF Accreditation, 1996, 1997
Chair, Search Committee, Remote Sensing faculty position, 1994, 1995
Member, Search Committee, Forest Biometrics faculty position, 2006
Member, *ad hoc* Graduate Assistant Allocation Committee, 1998
Member, Search Committee, Operations & Harvesting faculty position, 1997, 1998
Member, Search Committee, Tree Physiology faculty position, 1996
Member, Research Committee, 1992-1996
Member, Ad hoc Committee on Advisory Committee Terms of Reference, 1995, 1996
Member, CFR Faculty Awards Nomination Committee, 1992, 1995
Member, Search Committee, Biometrics faculty position, 1992, 1993
Member, Storage Space Committee, 1992
Member, Undergraduate Committee, 1989 - 1991
Member, Graduate Committee, 1989 - 1991, 2002

University of Toronto, Faculty of Forestry Committees

Representative to Council, UT Faculty Association, 1988 - 1989
Member, Library Committee, 1988 - 1989
Member, Forestry Computer Users Standing Committee, 1987 - 1989
Member, Undergraduate Curriculum Review Task Force, 1987
Member, Public Relations Committee, 1987
Member, Research Task Force, 1987

PROFESSIONAL AND HONOR SOCIETIES

2007 - present Tennessee Forestry Association
1994 - 2007 Mississippi Forestry Association
1988 - 1989 Ontario Forestry Association
 Councillor, Executive Council, 1989

1988 - 1989 Canadian Institute of Forestry
Member of Executive Council, Southern Ontario Section, 1988-1989

1980 - present Society of American Foresters
Registration Chair, MS SAF Annual Meeting, 1993
Faculty Advisor to Student Chapter, 1990-1995
Education Chair, State Chapter, 1990-1995

1980 Honor Society of Agriculture, Gamma Sigma Delta.

1979 Honor Society of Phi Kappa Phi.