

CURRICULUM VITAE -- Chris Cieszewski

PRESENT RANK: Professor  
PROPORTION TIME ASSIGNMENT: 100% research  
TENURE STATUS: Tenured 2003  
GRADUATE FACULTY STATUS: Full member since 1999  
DATE OF UGA EMPLOYMENT Nov. 1997.  
ACADEMIC DEGREES: Ph.D., " & ", University of Alberta, 1994  
M.Sc., "F", U.B.C. Vancouver, 1989.  
For. Eng., M.F., " ", Warsaw Agriculture Academy, 1983

- Professor, Daniel B. Warnell School of Forest Resources, University of Georgia (2008 – Present).
- Associate Professor, D.B. Warnell School of Forest Resources, University of Georgia (2003–2008).
- Assistant Professor, D.B. Warnell School of Forest Resources, University of Georgia, (1997 – 2003).

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- Senior Consultant, Dr. Systems Inc., Nanaimo, B.C. (Feb. 1996 – Nov. 1997).
- Biometrician/Project Scientist, ManTech Environmental Inc., Corvallis, OR. (June 1995 – Jan. 1996).
- Mensurationist/Res. Scientist, NR-CFS, NoFC, Edmonton, Alberta (Sep. 1986 – May 1995).
- Research Assistant, UBC campus and UBC Research Forest, Maple Ridge, B.C. (1984 – Mar. 1986).
- Research Assistant, Agricultural University, Faculty of Forestry, Warsaw, Poland (1981 – 1983).
- Research Assistant, AFOCEL & ARMEF, Dijon, France (March 1981 – Sep. 1981).

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None

(Review period 2008-2012 written in blue font)

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*Roger Lowe III	M.S.		Thesis & Defense	2002
Fang Kunsheng	M.S.		Program of Study	2003
Xiaoyan Tang	Ph.D.		Program of Study	2003
Jonathan Day	Ph.D.		Program of Study	Exp. 2010, moved to USDA in OR
Ram Thapa	Ph.D.		Program of Study	Exp. 2011, moved to VPI
*Xiongfei Wang	M.S.	-	Thesis & Defense	2004
*Brock Steward	M.S.		Thesis & Defense	2004
*Shangbin Liu	Ph.D.		Thesis & Defense	2005
*Chengcai Ni	Ph.D.		Thesis & Defense	2005
*Qingmin Meng	Ph.D.		Thesis & Defense	2006
*Brock Timothy Steward	Ph.D.		Program of Study	2009
*Yang Shan	Ph.D.	-	Program of Study	2010
*Andrew Brannon	M.S.	-	Program of Study	2011
Hojung Kim	Ph.D.		Program of Study	2013
Fany Vadrevu	M.S.		Program of Study	Exp. 2013
Arun Kumar	M.S.		Program of Study	Exp. 2013
Pradeep Kumar	M.S.		Program of Study	Exp. 2014
Roger Lowe III	Ph.D.		Program of Study	2013
*Shangbin Liu	Ph.D.	Committee	Thesis & Defense	2009 (Stat.Dep.)
*Finto Antony	Ph.D.	Committee	Prelim. Exams & Defense	2010
*Sammy Yatich	Ph.D.	Committee	Program of Study	2010
*Travis Mount	B.Sc.		Thesis	2010
*Jeff Register	MFR	Committee	Defense	

(Review period written in blue font)

- 2013 Teaching FORS 7980 Forestry Problems directed studies (Pradeep Kumar).
- 2012 Taught FORS 7980 Forestry Problems directed studies (Arun Kumar).
- 2012. Taught invited workshop (one week) to the Mensuration faculty (approx. 7 people) at the Warsaw Agriculture University, Poland. Jun., 2012.
- 2011 Taught FORS 8980 Forestry Problems directed studies (Hojung Kim).
- 2011 Taught FORS 7980 Forestry Problems directed studies (Andrew Branon, and Phani Vadrevu).
- 2010 Taught FANR 4600 and FORS 7980 (Travis Mount).
- 2009 Developed a course FORS 8470 in “Self-referencing Modeling” (100%), and taught it to Ph.D. students.
- 2009 Taught FORS 8980 Forestry Problems directed studies (Finto Antony, Ram Thapa, and Roberto Volfovicz-Leon).
- 2009. Guest lectured in FORS 3000 class of Pete Bettinger.
- 2008. Taught invited workshop (one week) to the Mensuration graduate students of Prof. Michal Zasada (approx. 10 people) at the Warsaw Agriculture University, Poland. Jun 23-27, 2008.
- 2008. Taught invited seminar (one hour) to the spatial analysis group of Prof. Jarek Zawadzki (approx. 40 people) at the Technological University of Warsaw, Poland. Jun 9, 2008.
  
- 2007 - Participated in teaching FORS 8480: Quantitative Modeling of Forest Stands. (15% of lectures).
- 2005 Participated in teaching FORS 7210: Advanced GIS. (15% of lectures).
- 2004 Conducted a short course in development of self-referencing models at the 2<sup>nd</sup> International Conference on Forest Measurements and Quantitative Methods and Management & the 2004 Southern Mensurationists Conference.
- 2003 Participated in teaching FORS 8480: Quantitative Modeling of Forest Stands. (30%)
- 2000/2001 Guided a 3 semester-hours directed study graduate course (FORS8982) on stochastic parameter estimation in inventory projection models with a Ph.D. student.
- 2001/2002 Guided a 3 semester-hours directed study graduate course (FORS8982) on derivation and testing of inventory projection models with two Ph.D. students. The course resulted in a production of a journal article manuscript that is currently under review by the Forestry Chronicle.
- 2001/2002 Guided a 6 semester-hours directed study graduate course (FORS7982) on the Generalized Algebraic Difference Approach and stochastic parameter estimation in inventory projection models with M.S. student.
- 2002 Guided a 3 semester-hours directed study course in comparison of various dendrometers in inventory measurements with two Ph.D. (FORS8982) and one M.S. (FORS7982) students.
- Taught invited lectures to graduate students in graduate courses of other faculty members.
- Presented School seminar on Fiber Supply: Long-term sustainability analysis of forest resources in Georgia. WSFR, UGA. Dec. 6, 2001. [School Seminar].
- Presented a lecture on “Inventory Projection Models: Forms and Parameters” at Georgia Forestry Symposium: Forest Inventory and Monitoring, Dec. 6-7, 1999, at the Georgia

Center for Continuing Education, The University of Georgia, Georgia Center for Continuing Education, Daniel B. Warnell School of Forest Resources.

- Participated in a discussion on opportunities for improving timeliness and accuracy of the Annual Inventory based on use of growth and yield models for updating inventories of predictable changes in forestry plantations, to the SAFIS Technical Advisory Committee, May 20, 1999, New Orleans, LU.
- Every year participated in meetings and discussions on various modeling issues at the CAPPs and PMRC Meetings at Daniel B. Warnell School of Forest Resources, The University of Georgia.
- Every year held and participated in various meetings with graduate students discussing with them technical aspects of forest measurements and stand inventory projections.

(REVIEW PERIOD 2008--2012 WRITTEN IN BLUE FONT)

(32 : 23 - , \*)

None

None

None

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- \*Bettinger, P, J Siry, C Cieszewski, KL Merry, H Zengin, A Yeşil. 2013. Forest management issues of the southern United States and comparisons with Turkey. Turkish Journal of Agriculture and Forestry 37. (Peer-reviewed journal)
- \*Kim, H, P Bettinger, C Cieszewski. 2012. Reflections on the estimation of stand-level forest characteristics using Landsat satellite imagery. Applied Remote Sensing Journal 2(2):45-56. (Peer-reviewed journal)
- \*Shan, Y, P Bettinger, CJ Cieszewski, W Wang. 2012. Pitfalls and potential of particle swarm optimization for contemporary spatial forest planning. Forest Systems 21(3): 468-480. (Peer-reviewed journal)
- \*Strub M, CJ Cieszewski. 2012. Generalization of the Coefficient of Determination or R-square and its application to Self-Referencing Models. Math. Comput. For. Nat.-Res. Sci. 4(2): 73-76. (Peer-reviewed journal)
- \*Bettinger, P., C.J. Cieszewski, and A. Falcao. 2011. Perspectives on new developments of decision support systems for sustainable forest management. Math. Comput. For. Nat.-Res. Sci.. 3(1):15-17. (Peer-reviewed journal)
- \*Cieszewski CJ, Liu SB, Lowe RC, Zasada M. 2011. Spatially Explicit Biomass Sustainability Analysis for Bioenergy Mill Siting in Georgia, USA. The Open Forest Science Journal 4(1): 2-41 special issue titled: "Sustainable utilization of forests". (Peer-reviewed journal)
- \*Cieszewski, C.J., P. Bettinger, and A. Falcao. 2011. The conclusion of perspectives on new developments of decision support systems for sustainable forest management. Math. Comput. For. Nat.-Res. Sci.. 3(2):73-74. (Peer-reviewed journal)



- \*[Cieszewski](#), CJ, R. McRoberts. 2011. Selected Examples of Advanced FIA Data Analysis. *Math. Comput. For. Nat.-Res. Sci.* 3(2):96-97. (Peer-reviewed journal)
- \*[Liu S.](#), [Bitterlich W.](#), [Cieszewski C.J.](#), [Zasada M.](#) 2011. Comparing the Use of Three Dendrometers for Measuring Diameters at Breast Height. *Southern Journal of Applied Forestry.* 35(3): 136-141. (Peer-reviewed journal)
- \*[Cieszewski](#) CJ, [Strub M.](#) 2009. The Foundation of Mathematical and Computational Forestry and Natural-Resource Sciences. . *Math. Comput. For. Nat.-Res. Sci.* 1(1). Pages: 41-46. (Peer-reviewed journal)
- \*[Danskin, S.D.](#), [P. Bettinger](#), [T.R. Jordan](#), and [C. Cieszewski](#)

- \*Cieszewski, C.J., and M. Strub. 2006. Inventory updates and related topics – from special sampling techniques to stochastic analyses. *Forest Science* 52(2): 117-118.
- \*Meng, Q., C.J. Cieszewski. 2006. Spatial clusters and variability analysis of tree mortality. *Physical Geography* 27(6): 534-553.
- \*Strub, M., and C.J. Cieszewski. 2006. Base-age invariance properties of two techniques for estimating the parameters of site index models. *Forest Science* 52(2): 182-186.
- \*Zasada, M.J. and C.J. Cieszewski. 2005. A finite mixture distribution approach for characterizing tree diameter distributions by natural social class in pure even-aged Scots pine stands in Poland. *Forest Ecology and Management* 204(2-3): 145-158.
- \*Zawadzki, J., C.J. Cieszewski, M.J. Zasada and R.C. Lowe. 2005. Applying geostatistics for investigations of forest ecosystems using remote sensing imagery. *Silva Fennica* 39(4): 599-618. <http://www.metla.fi/silvafennica/>
- \*Zawadzki, J., C.J. Cieszewski, and M.J. Zasada. 2005. Semivariogram analysis of Landsat 5 TM textural data for loblolly pine forests. *Journal of Forest Science* 51(2): 47-59.
- \*Cieszewski, C.J., M.J. Zasada, B.E. Borders, R.C. Lowe, J. Zawadzki, and M.L. Clutter. 2004. Spatially explicit sustainability analysis of long-term fiber supply in Georgia, USA. *Forest Ecology and Management* 187(2-3): 345-359.
- \*Zasada, M.J., J.P. Siry, and C.J. Cieszewski. 2004. Intensive forest management in the U.S. South (in Polish). *Sylvan* 2: 61-72 (refereed Polish forestry journal)
- \*Zawadzki, J., C.J. Cieszewski, and M.J. Zasada. 2004. The use of geostatistical methods for remote-sensing based determination of inventory measures and biophysical parameters of forests. In Polish. *Sylvan* 3: 51-62. (refereed Polish forestry journal).
- \*Zawadzki, J., C.J. Cieszewski, and M.J. Zasada. 2004. Use of geostatistical methods for classification of forest ecosystems using satellite imagery. In Polish. *Sylvan* 2: 26-41. (refereed Polish forestry journal).
- \*Cieszewski, C.J. 2003. Development of a well-behaved dynamic-site-equation based on a modified Hossfeld IV function  $Y_3 = ax^m / (c + xm - 1)$ , simplified mixed model, and scant subalpine fir data. *The Journal of Forest Science* 49 (4): 539-554.
- \*Cieszewski, C.J. 2003. A simple method for derivation of biologically based implicit growth and yield equations. In Avula, X.J.R., and R.R. Goldberg (Editors). Special Issue of Mathematical Modelling and Scientific Computing in Science and Technology on the 12th International Conference on Mathematical Modelling and Scientific Computing. August 2-4, 1999, Chicago, IL. Volume 10, 2000, ISSN 1067-0688.
- \*Cieszewski C.J., and M.J. Zasada. 2003. Derivation of generic dynamic site equations using Generalized Algebraic Difference Approach. *Sylvan* 3:40-46. [Journal Article, in Polish] [http://sylvan.ibles.waw.pl/pdf\\_ang/2003\\_03\\_040a.pdf](http://sylvan.ibles.waw.pl/pdf_ang/2003_03_040a.pdf) .
- \*Cieszewski C.J., and M.J. Zasada. 2003. Site index model for Scots pine based on Szymkiewicz yield tables. *Sylvan* 1: 51-62. [Journal Article, in Polish] [http://sylvan.ibles.waw.pl/pdf\\_ang/2003\\_01\\_051a.pdf](http://sylvan.ibles.waw.pl/pdf_ang/2003_01_051a.pdf).
- \*Rose, C., C.J. Cieszewski, and W. Carmean. 2003. Three methods for avoiding the impacts of incompatible site index and height prediction models demonstrated on jack pine curves for Ontario. *The Forestry Chronicle* 79(5): 928-935.
- \*Zawadzki J., C.J. Cieszewski, and M.J. Zasada. 2003. Semivariances of Landsat TM satellite imagery texture of forested areas. *Sylvan* 7: 40-52. [Journal Article, in Polish] [http://sylvan.ibles.waw.pl/pdf\\_ang/2003\\_07\\_040a.pdf](http://sylvan.ibles.waw.pl/pdf_ang/2003_07_040a.pdf)
- \*Cieszewski, C.J. 2002. Comparing fixed- and variable-base-age polymorphic site equations having single versus multiple asymptotes. *Forest Science* 48(1): 7–23.

- \*Cieszewski, C.J., and G. Nigh. 2002 A dynamic equation for a Sitka Spruce height-age model. The Forestry Chronicle 78(5): 690-694.
- \*Cieszewski, C.J., and M.J. Zasada. 2002. A dynamic form of anamorphic site index model for Scots pine. Sylwan 7: 17-24.
- \*Cieszewski C.J., and M.J. Zasada. 2002 Generalized method of Algebraic Differences: deriving dynamic site index equations based on biological theories (In Polish: Uniwersalna Metoda Różnic Algebraicznych: uogólnione wyprowadzanie dynamiczne Sylwan 11: 41-52.
- \*Cieszewski, C.J. 2001. Three methods of deriving advanced dynamic site equations demonstrated on Inland Douglas-fir site curves. Canadian Journal of Forest Research 31(1): 165-173.
- \*Cieszewski, C.J. 2001. Inventory updates and related topics - from imputations to mixed models. Forest Science 47 (3): 285-286.
- \*Cieszewski, C.J., and H.E. Burkhart. 2001. Editors: special issue on measurements and quantitative methods and management in modern forestry. Mathematical Modelling and Scientific Computing. Volume 13, Number 3-4, p. 177-267. ISSN 1067-0688. (18 articles and introduction).
- \*Zasada, M.J., and C.J. Cieszewski. 2001. Forest inventory in the United States of America. Sylwan 11: 105-120.
- \*Cieszewski, C.J. 2000. Analytical solution to the Generalized Log-Logistic equation. Forest Science 46: 291-296.
- \*Cieszewski, C.J. and R.L. Bailey. 2000. Generalized Algebraic Difference Approach: a new methodology for derivation of biologically based dynamic site equations. Forest Science 46:116-126.
- \*Bailey R.L. and C.J. Cieszewski. 2000. Development of a well-behaved site-index equation: jack pine in north-central Ontario: comment. Canadian Journal of Forestry Research 30: 1667-1668.
- \*Cieszewski, C.J., I.E. Bella, and D. Walker. 1999. Implementation of a base age invariant height model for lodgepole pine in company timber supply analysis. The Forestry Chronicle 75:1-3.
- \*Schroeder, P.E., S. Brown, J. Mo, R. Birdsey, and C.J. Cieszewski. 1997. Biomass estimation for temperate broadleaf forests of the U.S. using inventory data. Forest Science 42(3): 424-434.
- \*Cieszewski, C.J., and I.E. Bella. 1993. Predicting density-related lodgepole pine height growth in Alberta for thinning applications. For. Can., Northwest Reg., North. For. Cent., Edmonton, Alberta. For. Manage. Note 58.
- \*Cieszewski, C.J., and I.E. Bella. 1991. Polymorphic height and site index curves for the major tree species in Alberta. For. Can., Northwest Reg., North. For. Cent., Edmonton, Alberta. For. Manage. Note 51.
- \*Cieszewski, C.J., and I.E. Bella. 1993. Modeling density-related lodgepole pine height growth, using Czarnowski's stand dynamics theory. Canadian Journal of Forest Research 23: 2499-2506.
- \*Cieszewski, C.J., and I.E. Bella. 1989. Polymorphic height growth and site index curves for Lodgepole pine in Alberta. Canadian Journal of Forest Research 19: 1151-1160.
- \*Perala, D.A., R.A. Leary, and C.J. Cieszewski. 1999. Self-thinning and stockability of the circumboreal aspens (*Populus tremuloides* Michx., and *P-tremula* L.). USDA Forest Service NC R P (335): 1-16.
- \*Perala, D.A., R.A. Leary, and C.J. Cieszewski. 1995. Stockability, growth, and yield of the circumboreal aspens (*Populus tremuloides* Michx., *P. tremula* L.) Res. Pap. NC-321. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central

- Bettinger, P., D. Greene, B. Borders, B. Izlar, J. Siry, T. Harris, M. Kane, C. Cieszewski, K. Merry, S. Baldwin, R. Simmons, J. Smith, M. Clutter, and R.F. Daniels. 2012. Handbook of land and tree measurements. Center For Forest Business, University of Georgia, Athens, GA. 315 p.
- Bettinger, P., R. Molpus, D. Greene, B. Borders, B. Izlar, J. Siry, T. Harris, M. Kane, C. Cieszewski, K. Merry, S. Baldwin, R. Simmons, and J. Smith. 2011. Handbook of land and tree measurements. Center For Forest Business, University of Georgia, Athens, GA. 315 p.
- Bettinger, P., R. Molpus, D. Greene, B. Borders, B. Izlar, J. Siry, T. Harris, M. Kane, C. Cieszewski, K. Merry, S. Baldwin, R. Simmons, and J. Smith. 2010. Handbook of land and tree measurements. Center For Forest Business, University of Georgia, Athens, GA. 325 p.
- Bettinger, P., D. Greene, B. Borders, B. Izlar, T. Tye, J. Siry, T. Harris, M. Kane, C. Cieszewski, K. Merry, S. Baldwin, R. Simmons, and J. Smith. 2009. handbook of land and tree measurements. Center For Forest Business, University of Georgia, Athens, GA. 325 p.
- Bettinger, P., D. Greene, B. Borders, B. Izlar, T. Tye, J. Siry, T. Harris, M. Kane, C. Cieszewski, K. Merry, S. Baldwin, R. Simmons, and J. Smith. 2008. Handbook of land and tree measurements. Center For Forest Business, University of Georgia, Athens, GA. 324 p
- Cieszewski, CJ.; Lowe, RC.; Liu, S; Elle, I; Markewitz, D. 2009. New functions and programs in Hypermap software development for internet-based displaying of FIA data. In: McRoberts, RE.; Reams, GA.; Van Deusen, PC.; McWilliams, WH., eds. Proceedings of the eighth annual forest inventory and analysis symposium; 2006 October 16-19; Monterey, CA. Gen. Tech. Report WO-79. Washington, DC: U.S. Department of Agriculture, Forest Service. pp.: 375-391.
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- Lowe, RC, Cieszewski CJ. 2010. Using FIA Data for "Mean Balancing" of Nearest Neighbor Based Georgia Forest Inventory Estimates. Online Report published at <http://128.192.48.49/share/tripp/fsapubs/soma2010Lowe3.doc>
- Stewart, B; Cieszewski, CJ.; Smith, EL. 2009. Preliminary results of spatial modeling of selected forest health variables in Georgia. In: McRoberts, RE.; Reams, GA.; Van Deusen, PC.; McWilliams, WH., eds. Proceedings of the eighth annual forest inventory and analysis symposium; 2006 October 16-19; Monterey, CA. Gen. Tech. Report WO-79. Washington, DC: U.S. Department of Agriculture, Forest Service. 221-229.

- Bettinger, P., D. Greene, B. Borders, B. Izlar, T. Tye, J. Siry, T. Harris, M. Kane, and C. Cieszewski. 2007. Handbook of land and tree measurements. Center for Forest Business, University of Georgia, Athens, GA. 320pp.
- Meng, Q., C.J. Cieszewski, and M. Madden. 2007. Nearest Neighbor method: a simple and powerful GIScience function. Proceedings of American Society of Photogrammetry and Remote Sensing ASPRS 2007 Annual Conference – Identifying Geospatial Solutions. May 7-11, 2007. Tampa, Fl. ([http://www.asprs.org/tampa2007/pdf/final\\_prog/Tampa\\_Final\\_web.pdf](http://www.asprs.org/tampa2007/pdf/final_prog/Tampa_Final_web.pdf))
- Meng, Q., C.J. Cieszewski, and M. Madden. 2007. Two methods for removing clouds and cloud shadows from satellite images. Proceedings of American Society of Photogrammetry and Remote Sensing ASPRS 2007 Annual Conference – Identifying Geospatial Solutions. May 7-11, 2007. Tampa, Fl. ([http://www.asprs.org/tampa2007/pdf/final\\_prog/Tampa\\_Final\\_web.pdf](http://www.asprs.org/tampa2007/pdf/final_prog/Tampa_Final_web.pdf))
- Meng, Q., C.J. Cieszewski, and R. Lowe. 2007. Using geo-spatial methods for derivation of fine resolution forest inventory in Georgia from ground inventory data and Landsat imagery. Pages 51-62

- in Prisley, S., P. Bettinger, I-K. Hung, and J. Kushla, eds. 2006. Proceedings of the 5th Southern Forestry and Natural Resources GIS Conference, Warnell School of Forestry and Natural Resources, University of Georgia, Athens GA. Available online at [http://www.ncrs.fs.fed.us/pubs/gtr/gtr\\_wo069.pdf](http://www.ncrs.fs.fed.us/pubs/gtr/gtr_wo069.pdf)([http://soforgis.net/2006/presentations/P051\\_Meng%20et%20al.pdf](http://soforgis.net/2006/presentations/P051_Meng%20et%20al.pdf))
- Cieszewski, C.J., and M. Strub. 2006. Editors: Proceedings of the Second International Conference on Forest Measurements and Quantitative Methods and Management & The 2004 Southern Mensurationists Meeting. +15-18 June 2004, Hot Springs, AR, USA. Pp. xvii+412+4.
- Cieszewski, C.J., and M. Strub. 2006. Guest Editors: Forest Science Special Issue. 52 (2): 117-208.
- McRoberts, R. E., G.A. Reams, P. C. Van Deusen, H. McWilliams, and C.J. Cieszewski. 2005. Proceedings of the 4th annual FIA symposium. USDA Forest Service Gen. Tech. Rep. NC-252, N. Central Res. Sta., St. Paul, Minn. 258pp.
- Cieszewski, C.J., and H. Burkhart. 2001. Editors: Special Issue on Measurements and Quantitative Methods and Management in Modern Forestry. Mathematical Modelling and Scientific Computing. Volume 13, Number 3-4, p. 177-267. ISSN 1067-0688.
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- Cieszewski, C.J., and M. Strub. 2006. General address. In Cieszewski and Strub, Editors. 2006. Proceedings of the Second International Conference on Forest Measurements and Quantitative Methods and Management & The 2004 Southern Mensurationists Meeting. 15-18 June 2004, Hot Springs, AR, USA. Pp. xvii+412+4.
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- International Conference on Measurements and Quantitative Methods and Management & The 2004 Southern Mensurationists Meeting. 15-18 June 2004, Hot Springs, AR, USA. P. 158 – 170.
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- Stewart, B., C.J. Cieszewski, and M.J. Zasada. 2006. Use of a camera as an angle-gauge in angle-count sampling. In Cieszewski and Strub (Editors). 2006. Proceedings of the Second International Conference on Forest Measurements and Quantitative Methods and Management & The 2004 Southern Mensurationists Meeting. 15-18 June 2004, Hot Springs, AR, USA. P. 375 – 380.
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vii. Abstracts

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[Cieszewski, C.J., M. Strub, and M.J. Zasada. \[In Preparation\]. Growth dynamics and competition of juvenile lodgepole pine \(\*Pinus contorta\* Dougl. Ex Loud.\) seedlings and trembling aspen \(\*Populus tremuloides\* Michx.\) seedlings and root suckers. \[Manuscript intended for journal publication\].](#)

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Dr. Cieszewski has been developing and maintaining many creative WebPages associated with the Fiber Supply Assessment related R&D and his involvement with the regional biometrics community activities. On these WebPages he publishes his numerous articles, presentations, online applications, and various creative advancements and ideas in the form of pilot projects designed to attract future funding. These websites fulfill an essential function of providing information for a non-technical audience interested in the extent of forest resources at the county level. There is no equivalent service that acts as such a bridge between the layman and the analyst.

Some of the examples of these WebPages developed in the years 2008 to 2012 are:

- online GIS systems for dynamic visualizations, graphing and retrieval of county level USDA Forest



Service FIA inventory data for the southeast and northeastern USA (36 states)  
(<http://www.growthandyield.com/maps/rev16Sept10/usaOpeningScreen-countyInForm.html>);

- Complex conference portal installation with many research sources for an international conference.

Some of the examples of these WebPages developed in the years 2003 to 2007 are:

- Research on computer generated landscape images for inventory visualization, a seed project intended to attract explicit funding for such research, results of which could be used in public relations and various analysis of aesthetical, recreational, and visual implications of different forest management practices (e.g., <http://growthandyield.com/landscape/>);
- graphical visualization of simulation outputs from the sustainability analysis of the forest resources in Georgia;
- online GIS systems for static visualizations, graphing and retrieval of county level USDA Forest Service FIA inventory data for the southeast (<http://tyan.growthandyield.com/maps/UniSelect/index.html>);
- online GIS systems for dynamic visualizations, graphing and retrieval of county level USDA Forest Service FIA inventory data for the southeast (<http://tyan.growthandyield.com/maps/InFORMB/index.html>);
- online GIS systems for static and dynamic visualizations, graphing and retrieval of county level USDA Forest Service FIA inventory data based biomass and carbon estimates for the southeast (<http://tyan.growthandyield.com/maps/InFORMC/index.html>);
- innovative online GIS systems for static and dynamic visualizations, graphing and retrieval of congressional district level USDA Forest Service FIA inventory data for the southeast and some other states (<http://tyan.growthandyield.com/maps/Congress/index.html>);
- online GIS based mill siting application for different locations and procurement areas in Georgia (<http://tyan.growthandyield.com/maps/MillSiting/index.html>);
- reengineered USDA Forest Service Southeastern FIA Database retrieval system with over 300 times faster access time and significantly improved stability (<http://growthandyield.com/fiamirror/SE/www.srsfia.usfs.msstate.edu/fia.htm>);
- PC software for comparing various county level USDA Forest Service FIA inventory data for Georgia (<http://tyan.growthandyield.com/software/index.htm>);
- Development of user-friendly dynamic navigation framework optimized for fast and efficient browsing of large numbers of tables and images resulting from large-area inventory change simulations in sustainability analyses of forest resources in Georgia (e.g., <http://growthandyield.com/movesustain/>);
- Development of bibliography project initiated to streamline the fiber supply assessment program literature reviews and database management with online access (<http://growthandyield.com/biblio/>);
- Development of automated publication distribution system for online retrieval using a self-maintained user-friendly database (<http://growthandyield.com/cieszewski/WebScholarly.htm>);
- Development of user-friendly dynamic navigation framework optimized for fast and efficient browsing of large numbers of tables and images resulting from large-area inventory change simulations in analyses of impact of intensive management plantation practices on sustainability of various harvesting levels in Georgia (<http://growthandyield.com/imp/>);

2002. Developed interactive maps on the WWW that allow for quick and efficient acquisition of information on the inventory information in Georgia on county, development and physiographic regions, and FIA unit, levels (<http://growthandyield.com/main/maps.htm>).

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2001. Developed improved FIA mirrors for efficient acquisition of forest growth statistics in the Southeast on county, state, and FIA unit levels on the <http://www.growthandyield.com/fiamirror/SE/www.srsfia.usfs.msstate.edu/fia.htm>
- 1997-2000: Invented and published the Generalized Algebraic Difference Approach; a breakthrough technology for theory-based derivation of extremely flexible implicitly defined difference equations used for forest inventory projections. This approach is based on a new analytical framework for rigorous algebraic derivation of the inventory projection models in forestry and derivation of other models based on the concept of unobservable variables and stochastic regression analysis.
- Derived the site index solution to the generalized log-logistic site equation that was previously considered unsolvable for site index. The solution became possible through linking the Ramanujan's real-exponent trinomial solution with the forestry applications of the log-logistic site equation.
- Developed several new methodologies of dynamic equation derivations.
- Invented several new generic dynamic equations for inventory projections.
- Developed a statistical framework of non-nested and nested nonlinear mixed effects model analysis to investigate differences between growth responses in various silvicultural treatments in management regimes evaluation for the Plantation Management Research Cooperative and CAPPs studies.
- Developed new biomass expansion factors for the US inventory data for estimating status and trend of forest biomass-carbon densities.
- 1995 - Derived a generic statistical framework for error analysis and error propagation simulation in assessing the carbon dynamics of forest ecosystems at country to regional scales for several major boreal, temperate, and tropical countries for all components of national-scale terrestrial C budgets.
- 1994 - Formulated a new concept of an extremely flexible ageless height growth model, in which a future height can be predicted as a function of only a height growth increment in any time, and the height at which the increment is measured. This approach gives a new dimension to height growth modeling, and in theory such a model constitutes a general height growth modeling platform unifying all previously existing height growth models whether they be based on total ages or breast height ages, and whether they use site indexes of different base ages, or any length growth intercepts. Every one of those traditional models is just a special case of the proposed general model corresponding to the limiting values of its independent variables.
- 1993 - Extended Czarnowski's stand dynamics theory into a first dynamic density height growth model, which is capable of predicting lodgepole pine height growth as a function of its current height, age, and stand density.
- 1992 - Developed two new alternative approaches to calibration of self-referencing functions by 1) dynamically computing average predictions of the referencing points within the nonlinear regression iterations; and 2) using a varying parameter approach to estimate the site parameters individually for each series while simultaneously estimating the global parameters of the general model.
- 1990 - Invented the most flexible and advanced methodology for derivation of base-age invariant polymorphic height growth models with variable asymptotes and biological bases (unpublished at that time). A number of new base-age invariant height growth models still to be published have been derived using this methodology.
- 1989 - Formulated the world's first truly base-age invariant polymorphic height growth model having variable asymptotes.
- 1987 - Designed a biologically based managed stand growth model framework that is to be used for development of growth and yield prediction systems based on scant data.

In the review period 2008--2012 participated as PI or Co-PI in awarded grants totaling \$1,476,256 with my share of \$321,650. Table below shows brake down of the grants. Gray Tone = funds awarded prior to the 5-year period, and not included in totals. There were two additional grants for \$50,000 and \$18,000 that originated prior to the review period but were overlapping this period.

	%					-	\$	\$
PI	100%	7/9/2009	9/30/2011	Development Of A Web-Based Interactive Hyper-Map And GIS Systems With Forest Inventory Information For The 37 Eastern US States	US Department Of Agriculture	039973-01	\$78,056	\$78,056
PIs & Co-PIs: Cieszewski, Chris J. (100%)								
Co-PI	26%	1/1/1991	12/31/2010	Plantation Management Research Cooperative	Plantation Mgmt Research Cooperative	032295-22 to 52	\$541,500	\$140,790
PIs & Co-PIs: Cieszewski, Chris J. (26%), Borders, Bruce E. (32%), Kane, Michael B. (42%), Zhao, Dehai								
Co-PI	12%	1/1/1991	12/31/2010	Plantation Management Research Cooperative	Plantation Mgmt Research Cooperative	032295-53 to 61	\$184,200	\$22,104
Co-PI	12%	1/1/2011	12/31/2015	Plantation Management Research Cooperative: 2011-2015	Plantation Mgmt Research Cooperative	043465-01 to 13	\$672,500	\$80,700
PIs & Co-PIs: Cieszewski, Chris J. (12%), Borders, Bruce E. (28%), Kane, Michael B. (32%), Zhao, Dehai (28%)								
PI	100%	8/29/2006	9/30/2009	Analysis And Estimation Of Forest Health Conditions	US Department Of Agriculture	033700-01	\$50,000	\$50,000
PIs & Co-PIs: Cieszewski, Chris J. (100%)								
							\$1,476,256	\$321,650

00 - 00 . \$18,000. C. Cieszewski and M. Kane. PMRC grant for "Development of web based PMRC data management system."

00 - 00 . \$50,000. Cieszewski, C.J. (PI: 100%). USDA Forest Service Grant for "Analysis and estimation of forest health conditions."

00 - 00 . \$147,996. Cieszewski, C.J. (PI: 100%). USDA FS grant for "Development of web-based interactive hypermaps and GIS systems with forest inventory information for the southeast US."

00 . \$3,000. Cieszewski, C.J. (PI 100%). Rayonier unrestricted gift for Dr. Cieszewski's research in collaboration with the Center for Forest Business.

- 00 . \$1,500. Cieszewski, C.J. (PI 100%). Weyerhaeuser Company, unrestricted gift for Dr. Cieszewski's research.
- 00 - 00 . \$40,000. Cieszewski, C.J. (PI: 100%). USDA FS grant for "Development of web-based interactive hyper-map and GIS systems with congressional forest inventory information for 20 selected states."
- 00 - 00 . \$18,000. Cieszewski, C.J. (PI: 100%). Georgia Forestry Commission grant for "Development of online GIS systems for analysis of wood supply sustainability at all county-locations in Georgia and variable size procurement areas."
- 00 - 00 . \$24,500. C. Cieszewski and B. Shiver. PMRC grant for "Development of tree taper equations and site index models for loblolly pine and other species based on self-referencing functions and stochastic parameter estimation."
- 00 . \$159,323. Cieszewski, C.J. (PI: 90%). TIP3 Grant for "Long-term sustainability analysis of forest resources in Georgia Year and assessment of potential effects of riparian zones and other regulatory constraints – year 3."
- 00 - 00 . \$34,000. Cieszewski, C.J. (PI: 60%) and M.L. Clutter. USDA Forest Service Grant for "Analysis of impacts of riparian zones and road buffers on wood supply in Georgia using FIA data."  
 - 00 . Cieszewski, C.J., et. al. (PI: 90%). McIntire-Stennis project GEO-099-MS for "Improvement of implicitly defined models used in inventory projections."
2002. \$135,823. Cieszewski, C.J. (PI: 90%). TIP3 Grant for "Long-term sustainability analysis of forest resources in Georgia – year 2".
2001. \$10,000. Cieszewski, C.J. (PI: 100%). Weyerhaeuser Plantation Management Research Cooperative contract titled "Mixed model analysis of self-referencing models"
2001. \$135,000. Cieszewski, C.J. (PI: 90%). TIP3 Grant for "Long-term sustainability analysis of forest resources in Georgia – year 1".
- 1999-2000. \$3,000. Cieszewski, C.J. (PI 100%). International Fellowship Grant of \$3,000.00 for initiating international collaboration.  
 - . About \$120,000 per year. Shiver/Kane et. al. PMRC: (Co-PI: 10%) on the Growth and Yield Modeling Initiative.
- 00 - 00 . \$220,000. Siry, J.P. et al. (CO-PI 10%). TIP3 grant for "Development of a forest carbon sequestration protocol for the state of Georgia."
- 00 - 00 . \$49,610. Markewitz, D. (CO-Pi 25%). National Commission for Science on Sustainable Forestry grant for "Project A9-B - Accounting for forest carbon sequestration - A landowner primer".
- 00 - 00 . \$105,929. Borders, B., C. Cieszewski, D. Daniels, and B. Shiver. TIP3 grant for "Silvicultural and planting density impacts on crown and branch dynamics."
- 00 - 00 . \$45,000. Clutter, M.L. and C.J. Cieszewski (Co-PI: 40%). USDA Forest Service Grant for analysis of forest fragmentation in Georgia using FIA data.
- 00 . \$61,000. Borders, B., C. Cieszewski, D. Daniels, and B. Shiver. (Co-PI 20%). TIP3 silvicultural and planting density impacts on crown and branch dynamics of loblolly pine.
2000. \$90,000. Whiffen, H.J., et al. (Co-PI: 10%). TIP3 Grant for accurate area estimates for fiber supply assessment.
1999. \$90,000. Whiffen, H.J., et al. (Co-PI: 20%). TIP3 Grant for accurate area estimates for fiber supply assessment.
2006. \$56,500. Cieszewski et al. (PI 70%). GRA energy research seed grants for "Assessment of biomass growth and potential for bio-fuel production in Georgia and their sensitivities to statewide implementation of intensive management practices."

2004. \$1,451,792. Cieszewski et al. (PI 80%). NASA Grant proposal titled “Development of a methodology for large-area high-resolution forest ecosystem carbon tracking and modeling with satellite imagery and various other data for analysis of carbon dynamics and evaluation of carbon management options.”
2004. \$138,167. Cieszewski et al. (PI 90%). TIP3 grant proposal titled “Developing a localized, accurate, and timely, high-resolution forest area estimation method for Georgia.”
2004. \$117,062. Adolphson et al. (PI 50%). TIP3 grant proposal titled “Survey and sampling of small diameter timber and thinning residues in Georgia – quantity, location and potential uses.”
2004. K. Das 542-8842 ?? DOE grant proposal
2003. \$550,000. Cieszewski, C.J., et al. (PI 90%) Department of Defense Grant proposal titled “Developing terrestrial productivity measures and a carbon budget for the Fort Benning ecosystems.”
2003. \$150,000. Cieszewski, C.J., et al. (PI 90%). Agenda 2020 - USDA FS proposal titled “Identification of stand areas (polygons) and ages for forest stands up to 30-years old in Georgia via long-term change tracking with satellite imagery. “
2003. \$150,000. Cieszewski, C.J., et al. (PI 90%). USDA Forest Service, Southern Forest Research Station proposal titled “Spatially-explicit forest landscape analysis for evaluating economic and environmental costs / benefits of management alternatives for Georgia.”
2003. \$47,712. Cieszewski, C.J., et al. (PI 90%). Proposal to USDA Forest Service, Southern Forest Research Station, titled “Short-term and long-term Carbon Budget analysis of forest resources in Georgia and assessment of potential impacts of Carbon Credits in various forest management scenarios.”
2003. \$150,000. Cieszewski, C.J., et al. (PI 90%). Proposal to USDA Forest Service, Southern Forest Research Station, titled “Identification of stand areas (polygons) and ages for forest stands up to 30-years old in Georgia via long-term change tracking with satellite imagery.”
2003. \$6,000,000. Collaborated with Beck et al. on the Carbon Center Burro Grant application preparation for NSF \$6Million in funding.
2003. \$47,712. Cieszewski, C.J., et al. (PI 90%). Proposal for Agenda 2020 - USDA FS, titled “Short-term and long-term Carbon Budget analysis of forest resources in Georgia and assessment of potential impacts of Carbon Credits in various forest management scenarios.”
2003. \$150,000. Cieszewski, C.J., et al. (PI 90%). Proposal for Agenda 2020 - USDA FS, titled “Spatially explicit forest landscape analysis for evaluating economic and environmental costs / benefits of management alternatives for Georgia.”
2003. \$159,000. Cieszewski, C.J., et al. (PI 90%). TIP3 proposal titled “Identification of stand areas (polygons) and ages for forest stands up to 30-years old in Georgia via long-term change tracking with satellite imagery.”
2002. \$90,000. Cieszewski, C.J., et al. (PI: 60%). Proposal submitted to NCASI Inc., titled “Habitat modeling for the USDA Forest Service’s Forest Inventory and Analysis program. “
2002. \$88,386. Cieszewski, C.J., et al. (PI: 90%). TIP3 proposal titled “Short-term and long-term carbon budget analysis of forest resources in Georgia and assessment of potential impacts of carbon credits in various forest management scenarios.”
2002. \$46,438. Cieszewski, C.J., et al. (PI: 90%). TIP3 proposal titled “Landscape visualization for analyses of long-term inventory and management related landscape changes as implied by various changing inventories in sustainability analysis of Georgia forests.”
2000. \$180,000. Cieszewski, C.J., et al. (PI: 90%). TIP3 proposal titled “Development of site dependent height models and taper equations for oak species in Georgia.”
2000. \$143,500. FY 2000 Learning Technologies Grants proposal titled “A broad audience, interactive multimedia course in quantitative aspects of modern scientific forestry.”



2000. \$9,990. Cieszewski (PI 100%). Faculty Research Grants proposal titled "Development of interim height growth model for oak in Georgia."

1999. \$24,000. Cieszewski (PI 100%). Faculty Research proposal titled "Improvement of forest inventory prediction functions."

1999. \$10,000. Enhancing forest ground inventories with photo-sampling and non-destructive stem analysis. New faculty start-up funds.

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1999-2000 International Fellow, UGA.

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Citing name Cieszewski in Abstract:

1. Johansson, T. 2012. Site index curves for young hybrid larch growing on former farmland in Sweden. *Forests* 3 (3) , pp. 723-735.
2. Johansson, T. 2011. Site index curves for poplar growing on former farmland in Sweden. *SJFR* 26 (2) , pp. 161-170.
3. Kiviste, A., Kiviste, K. 2009. Algebraic difference equations for stand height, diameter, and volume depending on stand age and site factors for Estonian state forests. *Math. Comput. For. Nat.-Res. Sci.* 1 (2) , pp. 67-77.
4. Bravo-Oviedo, A. et al. 2008. Dominant height growth equations including site attributes in the generalized algebraic difference approach. *CJFR* 38 (9) , pp. 2348-2358
5. Martín-Benito, D. et al. 2008. Long-term trends in dominant-height growth of black pine using dynamic models. *FEM* 256 (5) , pp. 1230-1238.
6. Diéguez-Aranda, U. et al. 2006. Site quality curves for birch stands in North-Western Spain. *Silva Fennica* 40 (4) , pp. 631-644.
7. Adame, P. et al. 2006. Modelling dominant height growth and site index curves for rebollo oak (*Quercus pyrenaica* Willd.). *AFC* 63 (8) , pp. 929-940.
8. Diéguez-Aranda, U. et al. 2006. Dynamic site model for loblolly pine (*Pinus taeda* L.) plantations in the United States. *For. Sci.* 52 (3) , pp. 262-272.
9. Corral Rivas, J.J. et al. 2004. Compatible height and site index models for five pine species in El Salto, Durango (Mexico). *FEM* 201 (2-3) , pp. 145-160.
10. Elfving, B., Kiviste, A. 1997. Construction of site index equations for *Pinus sylvestris* L. using permanent plot data in Sweden. *FEM* 98 (2) , pp. 125-134.

Papers citing Cieszewski's technology GADA in Abstract:

1. Nunes, L. et al. 2011. Modeling dominant height growth of maritime pine in Portugal using GADA methodology with parameters depending on soil and climate variables. *Annals of Forest Science* 68 (2) , pp. 311-323.
2. Almeida, A.M. et al. 2010. Development of a system to predict the evolution of individual tree mature cork caliber over time. *Forest Ecology and Management* 260 (8) , pp. 1303-1314.



3. Ni, C.-C., Yu, F.-P., Zhang, Y.-X., Wei, S.-X. 2010. Application analysis and recent advances of projection growth models. *Beijing Linye Daxue Xuebao/Journal of Beijing Forestry University* 32 (4) , pp. 284-292.
  4. Díaz-Maroto, I.J. et al. 2010. Modelo de índice de sitio em povoamentos naturais de carvalho negro (*Quercus pyrenaica* willd.) da galicia, NW da Península Ibérica | [Site index model for natural stands of rebollo oak (*Quercus pyrenaica* willd.) in Galicia, NW Iberian Peninsula]. *Ciencia Florestal* 20 (1) , pp. 57-69.
  5. Álvarez-González, J.G. et al. 2010. Estimating growth in beech forests: A study based on long term experiments in Switzerland. *Annals of Forest Science* 67 (3).
  6. Rodríguez, F. et al. 2010. A reduced growth model based on stand basal area. A case for hybrid poplar plantations in northeast Spain. *Forest Ecology and Management* 259 (10) , pp. 2093-2102.
  7. Weiskittel, A.R. et al. 2009. Modeling top height growth of red alder plantations. *Forest Ecology and Management* 258 (3) , pp. 323-331.
  8. Wang, M. et al. 2008. Base-age invariant site index models from a generalized algebraic parameter prediction approach. *Forest Science* 54 (6) , pp. 625-632.
  9. Bravo-Oviedo, A. et al. 2008. Dominant height growth equations including site attributes in the generalized algebraic difference approach. *CJFR* 38 (9) , pp. 2348-2358.
  10. Martín-Benito, D. et al. 2008. Long-term trends in dominant-height growth of black pine using dynamic models. *Forest Ecology and Management* 256 (5) , pp. 1230-1238.
  11. Cieszewski, C.J., Strub, M. 2008. Generalized algebraic difference approach derivation of dynamic site equations with polymorphism and variable asymptotes from exponential and logarithmic functions. *Forest Science* 54 (3) , pp. 303-315.
  12. Sánchez-González, M. et al. 2008. Base-age invariant cork growth model for Spanish cork oak (*Quercus suber* L.) forests. *European Journal of Forest Research* 127 (3) , pp. 173-182.
  13. Wang, M. et al. 2007. Parameter estimation of base-age invariant site index models: Which data structure to use?. *Forest Science* 53 (5) , pp. 541-551.
  14. Castedo-Dorado, F. et al. 2007. Modelling stand basal area growth for radiata pine plantations in Northwestern Spain using the GADA. *Annals of Forest Science* 64 (6) , pp. 609-619.
  15. Castedo-Dorado, F. et al. 2007. A growth model for *Pinus radiata* D. Don stands in north-western Spain. *Annals of Forest Science* 64 (4) , pp. 453-465.
  16. Cieszewski, C.J. et al. 2007. New dynamic site equation that fits best the Schwappach data for Scots pine (*Pinus sylvestris* L.) in Central Europe. *Forest Ecology and Management* 243 (1) , pp. 83-93.
  17. Diéguez-Aranda, U. et al. 2006. Site quality curves for birch stands in North-Western Spain. *Silva Fennica* 40 (4) , pp. 631-644.
  18. Barrio Anta, M. et al. 2006. Development of a basal area growth system for maritime pine in northwestern Spain using the generalized algebraic difference approach. *Canadian Journal of Forest Research* 36 (6) , pp. 1461-1474.
  19. Diéguez-Aranda, U. et al. 2006. Dynamic site model for loblolly pine (*Pinus taeda* L.) plantations in the United States. *Forest Science* 52 (3) , pp. 262-272.
  20. Diéguez-Aranda, U. et al. 2005. Modeling dominant height growth of radiata pine (*Pinus radiata* D. Don) plantations in north-western Spain. *Forest Ecology and Management* 215 (1-3) , pp. 271-284.
1. Almeida, A, et al. 2010. Development of a system to predict the evolution of individual tree mature cork caliber over time. *FEM.* 260(8):1303-1314
  2. Alvarez-Gonzalez, G, et al. 2010. *AFS.* 67(3) AN:307

3. Bravo-Oviedo, A, et al. 2008. Dominant height growth equations including site attributes in the generalized algebraic difference approach. *CJFR*. 38(9):2348-2358
4. Diaz-Maroto, J, et al. 2010. Site index model for natural stands of rebollo oak (*quercus pyrenaica* willd.) In Galicia, on Iberian peninsula. *CF*. 20(1):57-68
5. Johansson, T. 2011. Site index curves for poplar growing on former farmland in Sweden. *SJFR*. 26(2):161-170
6. Martin-Benito, D, et al. 2008. Long-term trends in dominant-height growth of black pine using dynamic models. *FEM*. 256(5):1230-1238
7. Nunes, L, et al. 2011. Modeling dominant height growth of maritime pine in Portugal using GADA methodology with parameters depending on soil and climate variables. *AFS*. 68(2):311-323
8. Rodriguez, F, at al. 2010. A reduced growth model based on stand basal area. A case for hybrid poplar plantations in northeast Spain. *FEM*. 259(10):2093-2102
9. Sanchez-Gonzalez, M, et al. 2008. Base-age invariant cork growth model for Spanish cork oak (*Quercus suber* L.) forests. *EJFR*. 127(3):173-182
10. Vargas-Larreta, B, et al. 2010. Development of dynamic site index curves for *pinus cooperi* blanco. *RFM*. 33(4):343-351
11. Weiskittel, A, et al. 2009. Modeling top height growth of red alder plantations. *FEM*. 258(3):323-331
12. Castedo-Dorado, F, et al. 2007. Modelling stand basal area growth for radiata pine plantations in Northwestern Spain using the GADA. *AFS*. 64(6):609-619
13. Castedo-Dorado, F, et al. 2007. A growth model for *Pinus radiata* D. Don stands in north-western Spain. *AFS*. 64(4):453-465
14. Barrio-Anta, M, et al. 2006. Development of a basal area growth system for maritime pine in northwestern Spain using the generalized algebraic difference approach. *CJFR*. 36(6):1461-1474
15. Adame et al. Dominant height & site index curves for rebollo oak. *Ann.For.Sci*. 63: 929-940.
16. Diéguez-Aranda et al. Site curves...for Birch in North-Western Spain. *Silva Fennica*. 40(4): 631-644.
17. De los Santos-Posadas et al. Height growth ...for Excell in Costa Rica. *Agrociencia*. 40: 521-532.
18. Anta et al. Developing basal area growth system... in Spain. *CJFR*. 36: 1461-1474.
19. Diéguez-Aranda et al. Dominant height growth ...in the USA. *For.Sci*. 52: 262-272.
20. Nord-Larsen. Developing dynamic site index ... in Denmark. *For.Sci*. 52: 173-181.
21. Diéguez-Aranda et al. Modeling radiata pine in North-Western Spain. *For.Ecol.Man*. 215: 271-284.
22. Upadhyay et al. Site equations for *Tectona grandis* from PSP data in India. *For.Ecol.Man*. 212: 14-22.
23. Carvalho & Parresol. Site model for Pyrenean Oak ...using GADA. *CJFR* 35: 93-99.
24. Krumland and Eng. Site ... California. *Cal. Dep. For.&Fire Prot. Cal. For. Rep. No. 4*.
25. Palahı et al.. Site index model for ... in north-east Spain. *For. Ecol. Man*. 187 (2004) 35-47.
26. Rivas, et al.. Compatible ... in El Salto, Durango (Mexico). *For. Ecol. Man*. 201, 145-160.
27. Trincado, et al.. Preliminary ... in Chile. *New Zealand J. of Forestry Science* 32 (3): 322-333.
28. Johansson. 1999. ...curves for ... alder ... in Sweden. *Scand. J. Forest. Res*. 14: (5) 441-453.
29. Elfving and Kiviste. 1997. ...site index equations for *Pinus* ...in Sweden. *FEM*. 98: (2) 125-134;
30. Eriksson et al. 1997. ...model for ...*Betula* ...in Sweden. *Scand J. For. Res*. 12: (2) 149-156;
31. Kiviste 1998. Climate change studies in Estonia. Tallinn. 191-196; and
32. Kiviste 1997. Eesti Pollumajandusulikooli Teadustoode kogumik. (in Estonian) 189, 63-75;
33. <http://www.tropentag.de/2003/proceedings/node362.html>
34. [http://www.tropentag.de/2003/abstracts/links/Corral\\_Rivas\\_5ouQ8Bdj.php](http://www.tropentag.de/2003/abstracts/links/Corral_Rivas_5ouQ8Bdj.php)

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Dr. Cieszewski's research is in the area of Fiber Supply Assessment and includes studies of present and future availability of forest-based wood products, such as timber and pulpwood, generically denoted as fiber. Fiber Supply Assessment is a quantitative science relying on use of methods and tools of:

- and for acquisition of sample data from vast forest resources that cannot be directly measured or even observed in their entirety;
- for conceptualization and definition of complex relationships describing spatial and temporal changes;
- for sampling inferences, model parameter estimation, and spatial relationships;
- for administration of inherently large sets of data;
- and data for analysis of spatially-explicit adjacency interactions and associations;
- and for analysis of populations' distributional properties and finding solutions to complex nonlinear systems of interactions; and
- and for carrying out the simulations and nonlinear searches necessary to answer questions depending on massive numbers of calculations, and for processing very large data sets including satellite imagery, GIS data, forests' inventories, and other data.

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8 Ph.D. University of Georgia  
4 M.S. University of Georgia

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12 Ph.D. University of Georgia  
5 M.S. University of Georgia

None in the current review period

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4 University of Georgia

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None in the current review period

2	(2004 from Poland)	University of Georgia
1	(2002 from Poland)	University of Georgia
1	(2001 from India)	University of Georgia

Temporary Programmers	University of Georgia
Part-time Workers (incl. 12 Graduate Students)	University of Georgia

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00 - - - of Open Forest Science.

00 - - - of Mathematical and Computational Forestry & Natural-Resource Sciences.

00 - : Funding Editorial Board Member of the Forest Biometry, Modelling and Information Sciences, international journal of.

0 0- Member of the Elsevier Editorial Board of Forest Ecology and Management journal.

00 - Member of the Editorial Board of the International Journal of Forest Research

00 - 00 for the Second International Conference of Measurements and Quantitative Methods and Analysis and the 2004 Southern Mensurationists Conference (Cieszewski, C.J., M. Strub. 2006. Editors: Proceedings of the Second International Conference on Forest Measurements and Quantitative Methods and Management & The 2004 Southern Mensurationists Meeting. 15-18 June 2004, Hot Springs, AR, USA. Pp. xvii+412+4). (72 papers and Forward).

00 - 00 on Forest Measurements and Quantitative Methods and Management (Cieszewski, C.J., M. Strub. 2006. Guest Editors: Forest Science Special Issue. Volume 52, Number 2, June 2006. Pp. 117-208). (9 articles and introduction).

00 - 00 on of Proceedings of the 4th annual FIA symposium. USDA Forest Service Gen. Tech. Rep. NC-252, N. Central Res. Sta., St. Paul, Minn. 258pp.

00 Guest for manuscripts on new edge effect sampling estimators.

00 Guest for manuscripts on new developments in base-age invariant stand growth and yield modeling.

- 00 on Quantitative Methods and Management in forestry (Cieszewski, C.J. 2001. Inventory updates and related topics - From imputations to mixed models. Forest Science 47 (3). Pp. 285-330) (4 articles and introduction).

- 00 Guest for a special issue of the Journal of (Cieszewski, C.J., and H. Burkhart. 2001. Editors: Special Issue on Measurements and Quantitative Methods and Management in Modern Forestry. Mathematical Modelling and Scientific Computing. Volume 13, Number 3-4, p. 177-267. ISSN 1067-0688). (18 articles and introduction).

- 000 for the First International Conference of Measurements and Quantitative Methods and Analysis and the 1999 Southern Mensurationists Conference (Cieszewski, C.J. 2000. Editor: Proceedings of the First International Conference on Measurements and



Quantitative Methods and Management, held on Jekyll Island, Georgia, November 17-18, 1999. Pp. xv+208). (37 papers and forward).

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- (38)
- Cieszewski, CJ. 2012. Development of new hypermap InFORM system at the University of Georgia. Presentation given at LSU on April 10, 2012.
- Cieszewski, CJ. 2012. Options for combining the new hypermap InFORM system with the USDA Forest Service FVS. Presentation given at USDA Forest Service, Fort Collins, CO, on April 20, 2012.
- Cieszewski, CJ. 2012. Publication requirements for satellite based analysis of moisture conditions in Georgia. given on June 18, 2011, at the Department of Environmental Engineering at the Technological University in Warsaw, Poland.
- Cieszewski, CJ. 2012. Micro-detail comparative forest site analysis using high-resolution satellite imagery. opening the conference given on Oct. 22, 2012, at the 2012 Smolensk Conference, in Warsaw, Poland.
- Cieszewski, CJ. 2012. Assessment of wood properties for the birch samples from Poland, USA, and Smolensk using NIR spectroscopy and SilviScan. given on Oct. 22, 2012, at the 2012 Smolensk Conference, in Warsaw, Poland.
- Cieszewski, CJ., M. Strub. 2012. A series of during a modeling workshop with the Forest dendrology faculty at the School of Forestry at Warsaw Agricultural University in Warsaw, Poland, on June 11-15, 2012.
- Cieszewski CJ. 2011. Greenhouse gazes versus enviro-forestry politics. Presentation at the 2011 Southern Mensurationists Conference, Crowne Plaza Downtown, Memphis TN, Oct. 23-25, 2011.
- Cieszewski, CJ, K Iles, P Bettinger, RC Lowe. 2011. Inherent bias in kNN classification. Presentation at the 8th Southern Forestry and Natural Resource Management GIS Conference, Athens, GA, 2011.
- Cieszewski CJ., RC Lowe. InFORM -- Interactive Fast Online Reports & Maps software Exhibitor presentations at the Georgia Forestry Association Annual Conference, held July 16-19, 2011, at Savannah International Trade & Convention Center (SITCC), Savannah, GA.
- Cieszewski CJ. 2011. Update on development of the InFORM software for fast and friendly display of FIA data. Presentation given to at VPI on Sep. 20, 2011.
- Cieszewski CJ. 2011. Some observations on carbon credit trading and its implications. Presentation given to at VPI on Sep. 21, 2011.
- Lowe, RC, CJ Cieszewski. 2011. Remote assessment of Georgia's forest inventory. Presentation at the 8th Southern Forestry and Natural Resource Management GIS Conference, Athens, GA, 2011.
- Siry, Jacek, Chris Cieszewski and Pete Bettinger. 2011. How to Publish Successfully in Scientific Journals? Invited presentation at Postgraduate Symposium, University of Malaysia, Sabah, Malaysia, June 13, 2011.
- Strub, M, Cieszewski CJ. 2011. Some observations on mixed model site index curves. Presentation given to at VPI on Sep. 20, 2011.
- Strub, M, Cieszewski CJ. 2011. Simultaneous estimation of growth model parameters. Presentation given to at VPI on Sep. 21, 2011.
- Strub, M, Cieszewski CJ. 2011. Why model growth instead of yield? Presentation at the 2011 Southern Mensurationists Conference, Crowne Plaza Downtown, Memphis TN, Oct. 23-25, 2011.
- Cieszewski CJ. 2010. Final TIP3 Presentation to the TIP3 committee on the summary of findings from the first year of research in my TIP3 grant.
- Cieszewski CJ, Lowe R, Liu S, Elle RI. Updates of InFORM –Interactive Fast Online Reports & Maps for visualization of FIA Data. Conference Presentation at the joined 2010 Southern Mensurationists

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- Strub, M.R., and C.J. Cieszewski. 2002 Self-referencing taper curves for loblolly pine. Presentation at the Joint Meeting of the 4th Annual Forest Inventory and Analysis Symposium and the Southern Forest Mensurationists. November 19-21. La Pavillon Hotel. New Orleans, LA. (<http://www.ncrs.fs.fed.us/pubs/4388>)
- Zasada, M., C.J. Cieszewski, R.C. Lowe, and J. Zawadzki. 2002 Using FIA and GIS data to estimate areas and volumes of potential stream management zones and road beautifying buffers. Presentation at the Joint Meeting of the 4th Annual Forest Inventory and Analysis Symposium and the Southern Forest Mensurationists. November 19-21. La Pavillon Hotel. New Orleans, LA. (<http://www.ncrs.fs.fed.us/pubs/4418>)
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([http://www.forestry.ubc.ca/forestmodel/speakers\\_voluntary\\_papers.htm](http://www.forestry.ubc.ca/forestmodel/speakers_voluntary_papers.htm))
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(<http://www.srs.fs.usda.gov/4106/publications/Doruska2001.pdf>)

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- Cieszewski, C.J., D.P. Turner, and D.L. Phillips. 1996. Statistical analysis of error propagation in national level carbon budgets. Presentation at the Second International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences, Fort Collins, Colorado. Colorado State University. May 21-23, 1996. In H. T. Mowrer, R. L. Czaplowski, and R. H. Hamre, editors. Spatial accuracy assessment in natural resources and environmental sciences, USDA Forest Service General

Technical Report RM-GTR-277.

(<http://www.ntis.gov/search/product.asp?ABBR=PB96169826&starDB=GRAHIST>;  
[http://oaspub.epa.gov/eims/xmlreport.display?deid=31690&z\\_chk=845&format=print](http://oaspub.epa.gov/eims/xmlreport.display?deid=31690&z_chk=845&format=print); cited by  
<http://www.int-res.com/articles/cr/9/c009p183.pdf>)

Turner, D.P., C.J. Cieszewski, J. Winjum, and G. Baumgardner. 1996. Contribution of biological sources and sinks to net co2 efflux for the conterminous United States. Presentation at The Seventh Global Warming International Conference and Expo (GW7). 1-3 April 1996. Vienna, Austria.  
(<http://www.gcrio.org/gccd/dgcalen/d96cal.php>)

Cieszewski, C.J., and I.E. Bella. 1991. Stand model development within a framework of self-limiting size-density relationships. Poster. IUFRO S4.01 Conference on ``Contrast Between: Biologically based process models and management-oriented growth and yield models'', held on 2--6 Sept.~1991 in Wageningen, Holland.

Perala, D.A., G.E. Host, and C.J. Cieszewski. 1991. Generic growth and yield models for *Populus tremuloides* based on the self-thinning rule. Poster. Forest Management Decision Support for the 1990's. A North Central Forest Experiment Station Software Technology Transfer Conference.

Cieszewski, C.J., and I.E. Bella. 1991. Towards optimal design of nonlinear regression models. In: Rennolls K., Gertner, G. Presentation given at a IUFRO S4.11 Conference held on 10-14 September 1991 at the University of Greenwich, London, UK.

Cieszewski, C.J., Bella, I.E., and Perala, D.A. 1990. Modeling growth and yield of aspen in western Canada. In: Navratil, S., Chapman, P.B., Presentation at a symposium held November 20-21, 1990, in Edmonton, Alberta, in conjunction with the 12th annual meeting of the Poplar Council of Canada.

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1. <a href="#">Annals of Botany</a>	2011
2. <a href="#">Annals of Forest Sciences</a>	2005-Present
3. <a href="#">Applied Energy</a>	2010-Present
4. <a href="#">Canadian Journal of Forest Research</a>	1992-Present
5. <a href="#">Communications in Biometry &amp; Crop Sci.</a>	2009-2010
6. <a href="#">Computers and Electronics in Agriculture</a>	2010-Present
7. <a href="#">Ecological Applications</a>	2010-Present
8. <a href="#">European Journal of Forest Research</a>	2006-Present
9. <a href="#">Forest Biometry and Information Sciences</a>	2002-Present
10. <a href="#">Forest Ecology and Management</a>	1998-Present
11. <a href="#">Forest Science</a>	1993-Present
12. <a href="#">Forestry Chronicle</a>	1999-Present
13. <a href="#">Forests</a>	2011-Present
14. <a href="#">International Journal of Forestry Research</a>	2009-Present
15. <a href="#">Journal of Forest Research Open Access</a>	2011
16. <a href="#">Math. Comput. For. Nat.-Res. Sci.</a>	2008-Present
17. <a href="#">Northern Journal of Applied Forestry</a>	1998-Present
18. <a href="#">Open Forest Science</a>	2008-Present
19. <a href="#">Remote Sensing</a>	2010-Present
20. <a href="#">Remote Sensing of Environment</a>	2007-2011

21. Scandinavian Journal of Forest Research	2005-Present
22. Silva Fennica	2009-Present
23. Southern Journal of Applied Forestry	1999-Present
24. Western Journal of Applied Forestry	2000-Present
25. Math. Model. Sci. Comput.	2000-2003
26. Soil Science Society of America Journal	2002-2004

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- Review of EU COST Action Grant application for the Estonian Science Foundation (ETF)
  - Tenure consideration for University of Florida
  - Grant consideration review for the Board of Regions of Louisiana
  - Served as reviewer for (e.g., Lignum Ltd. research report).
  - Served as reviewer for other faculty members and research institutions.
  - Served as a participant on periodic review meetings and 2007 strategic planning meeting of PMRC.

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Co-organizer of the 2012 Smolensk Conference, in Warsaw, Poland, that took place on Oct. 22, 2012.  
Organized an International Workshop of growth and yield modeling at Faculty of Forestry at Agricultural University in Warsaw, Poland.

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Co-organizer of the 2011 Western Mensurationist Conference  
Chair of the WSFNR Post-Tenure Review Committee

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Co-organizer of the 2010 3rd International Conference on Forest Measurements and Quantitative Methods & Management, and the 2010 Southern Mensurationists Conference, Knoxville, TN - October, 5-7, 2010.

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Co-organized and participated in the 2009 annual meeting of the Southern Mensurationists.  
Organized external guest WSFNR seminar with prof. Boris Zeide.

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Chair of the 2008 World Conference on Natural Resource Modeling held in Warsaw, Poland, June 15-18, 2008.

Co-chaired the 2008 Southern Mensurationists Conference, held October 26-29, 2008, in Holiday Inn, St. Augustine Beach, St. Augustine, Florida.

2008, December. Organized a group discussion with various stake holders from Georgia Paper & Forest Products Association, and GFA, interested in obtaining data on sustainability issues related to future use of forest biomass fuels.

Organized the 2007 southern mensurationists' conference with 35 participants and 30 presentations (30 min per presentation) and a 1-day long field trip.

Collaborating on organization of the 2008 southern mensurationists' conference.

2006-2008. organizing the 2008 world conference on resource modeling. set for jun. 1-6, Warsaw, Poland.

Continued developing and maintaining fiber supply assessment WebPages with information about our research, inventory retrieval in the region, natural resource availability and environmental variables visualization, and fiber supply assessment for different locations in Georgia with various procurement areas.

2007 Co-organizer: 3rd Int. Conf. For. Measur & Quantit. Methods and Manag. Set for Dec. 2009, Chile.

2007 Co-moderated three sessions at the 2007 Southern Mensurationists' Conference on "Collaboration opportunities and coops", "Inventory and Sampling Methods", and "Business Meeting and Field Tour Discussion".

2007 Organized a seminar on the forestry in Chile given by Dr. Guillermo F. Trincado.

2007 Organized a workshop on Forest Inventory Quality with Dr. Kim Iles.

2006 Co-organizer: SOMA Conference. Set for Orange Beach, AL. Nov. 12-16.

2006 Co-organizer: 2008 World Conf. on Resource Modeling. Set for Jun. 1-6, Warsaw, Poland.

2005 Co-organizer: 2005 South. Mens. Conf., Jul. 10-13, Wilmington, NC.

2004 Chair: 2nd Int. Conf. For. Measur & Quantit. Methods and Manag. Hot Springs, AR. June 15-18.

2003 Chair: 1st Fiber Sup. Assess. InFORM Workshop. New Orleans, LA, USA. Nov. 18-20.

2002 Co-organizer: 4th Ann. FIA Symp. & SOMA Conf. New Orleans, LA, USA. Nov. 19-21.

2001 Co-organizer: 2001 South. Mens. Conf., Chattanooga, TN, USA. Nov. 5-6.

2000 Co-organizer/Co-Chair: 2000 South. Mens. Conf., Jekyll Island, GA, USA. Nov. 28-29.

2000 Organizer: Short Course & Forest Industry Workshop: Site Models. Jekyll Island, GA. Nov. 29-30.

1999 Organizer/Chair: 1st Int. Conf. on FMQMM. Jekyll Island, GA, on Nov. 17-18.

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- 00 - Working on the organization of the 2007 Southern Mensurationists Conference.
  - - Participated in PMRC organizational meetings and general assembly meetings.
  - 00 Moderated a session and participated in the 2005 Southern Mensurationists Conference.
  - 00 Moderated multiple sessions, organized and conducted a workshop on self-referencing function development and parameter estimation, and participated in the 2004 Southern Mensurationists Conference and the IUFRO sponsored International Conference on Forest Measurements and Quantitative Methods and Measurements.
  - 00 Directed a workshop on usage and applications of the InFORM Internet software developed in the fiber supply assessment program.
  - 00 Moderated a session and participated in the joined 4<sup>th</sup> Annual FIA Symposium & the 2002 Southern Mensurationists Conference in New Orleans, LA, USA. Nov. 19-21.
  - 00 Moderating a session and participated in the National FIA User Group Workshop in Alexandria, VA.
  - 00 Participated in the Regional FIA User Group Workshop in Knoxville, TN.
  - Presented a short discussion to the SAFIS Technical Advisory Committee during the meeting on May 20, 1999 on technical aspects of inventory updates with growth and yield models.



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- Collaborating with the Forest Biometrics faculty group the Faculty of Forestry, Agriculture University in Warsaw, Poland, on development of new growth and yield models.
- Collaborated with Turkish scientists on development of new growth and yield models and published with them one publication and submitted for publication another.
- Co-organizer of the 2012 Smolensk Conference, an international conference held in Warsaw, Poland, on Oct. 22, 2012.
- Organized and lead (June 2012) called the 2nd GADA and BAI Fitting Workshop at the Faculty of Forestry, Agriculture University in Warsaw, Poland.
- Held two (one in June and one in November, 2012) on analysis of moisture conditions in Georgia with Statistics and Remote Sensing team of Environment Laboratory, Department of Informatics and Environmental Quality Research, at Warsaw University of Technology, Warsaw, Poland.

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- Collaborated with Brazilian scientists Gilciano Saraiva Nogueira, Helio Garcia Leite, on development of new growth and yield models.
- Collaborated with Estonian scientists Andres Kiviste and Allan Sims on development of new growth and yield models.
- Collaborated with Turkish scientists, Ahmet Yeşil, on development of new growth and yield models.
- Advised on request a power lines consulting company, Altran Consulting, Spain, on solving their fiber supply modeling related problems.

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- Co-organized the 2010 Southern Mensurationists Conference, 2010 FIA Symposium and the 3th International Conference on Forest Measurements and Quantitative Methods & Management, Knoxville, TN, October, 5-7, 2010.
- Collaborated with the Estonian Research Foundation on Review of EU Cost Action grant competition (also accounted for above in reviewing).
- Co-organizing the 3<sup>rd</sup> International Conference on Forest Measurements and Quantitative Methods and Measurements. Set for Dec. 2009, Chile.

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- Collaborated with Estonian scientists Andres Kiviste and Artur Nilson on development of new growth and yield models.
- Collaborated with Chilean scientists on development of growth and yield models.

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Masterminded and organized a collaborative agreement between the Chile, Valdivia University and the University of Georgia.

Organized an international conference of the Resource Modeling Association in Warsaw, Poland.

Initiated a collaboration with Brazilian scientists, at different universities, on joined development of growth and yield models.

Organized and lead in June 2008 the 2nd GADA and BAI Fitting Workshop at the Faculty of Forestry, Agriculture University in Warsaw, Poland.

June 2008 Variable Plot Sampling (Bitterlich) Short Course by John Bell and Kim Iles, Wydział Leśny SGGW, Warsaw, Poland.

WP -- Invited presentation on the analysis of FIA data in Georgia, USA.

- 00 - 00 . Moderated multiple sessions, organized and conducted a workshop on self-referencing function development and parameter estimation, and participated in the 2004 Southern Mensurationists Conference and the IUFRO sponsored International Conference on Forest Measurements and Quantitative Methods and Measurements, and production of proceedings.
- 00 . Moderating a session of the Conference on Forest Modelling for Ecosystem Management, Forest Certification, and Sustainable Management. IUFRO conference titled: "Forest modeling for Ecosystem Management, Forest Certification, and Sustainable Management", held in Vancouver, Canada, Aug. 12-18, 2001.
- 000. Presented invited lecture on advanced fiber supply assessment methods at Instituto Superior de Gestao, Lisboa, Portugal.
- 000. Gave a series of presentations to different groups of faculty at the Faculty of Forestry, Agriculture University in Warsaw, Poland.
  - . Gave a Seminar on Forestry in Georgia during a meeting at the National Institute of Forest Research in Warsaw, Poland (5/28/99).
  - . Participated in organization and moderated a session of the 12th International Conference of Mathematical and Computer Modeling & Scientific Computing in Chicago, IL, USA. August 2-4.
  - . Participated in organization and moderated session of the 1999 International Conference of the Western Mensurationists. Penticton, B.C., Canada. June 21-22.
  - . Organized and chaired the First International Conference on Measurements and Quantitative Methods and Management, Nov. 16-18, Jekyll Island, GA, USA. The conference secured the participants in total over 600 hours of continuing education credits.
  - . Chairman of the Scientific Committee of the First International Conference of Measurements and Quantitative Methods and Management and the 1999 Southern Mensurationists Conference (reviewed/edited 43 abstracts for acceptance to the conference).
  - . Served as a moderator and was involved in the organization of "An International Conference on the Inventory and Monitoring of Forested Ecosystems", Integrated Tools for Natural Resources Inventories in the 21st Century. August 16-20, 1998, Boise Center on the Grove, Boise, Idaho, USA.

- 00 - 0 0 Member of University Graduate Council Committee
- 00 - 0 0 Member of Curriculum Subcommittee of the University Graduate Council
- 00 - 00 Board of Directors of the Resource Modeling Association.
- 00 Member of the University FAR Evaluation Committee
- 00 - 00 Southern Annual Forest Inventory System (SAFIS) Technical Advisory Committee.
- 00 . Member of the UGA University-FAR Software Development Evaluation Task Force.
- 00 . the WSFNR Graduate Affairs Committee;
- - 00 International Association of Mathematical Modelling and Scientific Computing
- - 00 Society of American Foresters

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- 0 - 0 . Member of the Ad-Hoc Committee Outreach & Service.
- 0 0- . Member of UGA BSRI Committee.
- - . Member of the Center for Forest Business
- - . Member of Plantation Management Research Cooperative leadership group
- - . Developing and maintaining the Websites of the Fiber Supply Assessment research and development (<http://growthandyield.com>). The Website includes enhanced functionality Web-Mirrors of the USDA Forest Service FIA Data Retrieval System for the Southeast region.
- - . Developing and maintaining the Website of the Southern Mensurationists' Organization (<http://www.mensurationists.com/>). Published numerous publications and presentations on this website.
- Served on the Organizing Committee of the international interdisciplinary conference related to the April 10, 2010, Smolensk Incident related scientific studies, such as wood quality and available technologies for their analysis and satellite image analysis.
- Served an international community maintaining the <http://www.konferencjasmolenska.pl> WebPages.
- Developed and maintained the [smolenskcrash.com](http://smolenskcrash.com) conference WebSite for the Smolensk Conference.
- Gave an interview to one of the Polish radio stations on the subject of the organization of the Smolensk Conference and associated research.
- Gave an interview to the Polish newspaper "Gazeta Polska" on the subject of analysis of high-resolution satellite imagery conducted at the WSFNR, UGA.
- Gave an interview to the Polish newspaper "Gazeta Polska" on the subject of wood quality analysis conducted at the WSFNR, UGA.

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- Oct. 31--Nov. 2: Cieszewski, CJ, RC Lowe. Holding a three-day software demonstration station at the Southern Woodland Owners Conference & Solutions Fair. Held at the University of Georgia Conference Center on Oct. 31 - Nov. 2, 2011, Tifton, Georgia.
- 00 - 0 . Member of the University of Georgia Graduate Council.
- Developed and maintained the official conference WebSite for the Southern Mensurationists Conference
- - 0 . Served as Organizer and Member of the Southern Mensurationists' organization.
- 0 . Member of Post-tenure Review Committee.

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- Served as an external reviewer for tenure and promotion consideration by the University of Florida.
- Served as an external reviewer for the Louisiana Board of Regions.
- Served as an external reviewer for the Estonian Research Foundation.

Organized and lead four consecutive exclusive membership workshops for scientists from:

- Rayonier,
- Weyerhaeuser,
- Academia, and
- USDA Forest Service,

and two open public workshops, on the current developments of the online FIA data mapping, graphing, and retrieval systems produced by the Fiber Supply Assessment program.

Other WebPage Developments:

<http://biomass-sustainability.com> - The Fiber Supply Assessment web pages containing most of the developments from the FSA program. It is to be changed to <http://ugafsa.com> domain name.

<http://warnellgis.com> - Warnell school GIS presence – website created in collaboration with Tripp Lowe.

<http://quantfor.com> - secure website with privileged access to some quantitative forestry publications including the PMRC and Fiber Supply Assessment internal technical reports – currently in the process of upgrading from the temporary site at <http://t.quantfor.com>

<http://drcjc.com> - my background, publications and reprint retrieval website as related to the work at UGA

<http://somens.org> - conference management web pages for the Southern Mensurationists organization.

<http://mensurationists.com> - The Mensurationists web pages with links to Western, Midwestern, and Northeastern Mensurationists web pages.

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- Participation in the Roundtable on Sustainable Forests Workshop that will take place on February 24-25, 2009 in Athens, GA.
- 00 - 00 . Member of the WSFNR Graduate Affairs Committee

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- WarnellGIS website is meant to increase visibility of the GIS and spatial analysis related studies and faculty and students at the Warnell school. I developed this website to attract more students in this area and to create an improved image of the school in this area.
- Southern Mensurationists Meeting ([quantfor.net](http://quantfor.net)) – Official site for Annual Southern Mensurationist Meetings. Contains detailed information including presentations and authors, conference schedule, accommodations, and organizers and partners.
- Forest Measurements and Quantitative Methods & Management ([quantfor.net](http://quantfor.net)) - Official site for FMQMM conferences.
- PMRC Strategic Planning ([quantfor.net](http://quantfor.net)) – to contain information on Strategic Planning Meetings of the UGA Plantation Management Research Cooperative.
- Timberland Investment ([quantfor.net](http://quantfor.net)) – To contain information from the UGA Center for Forest Business on its conferences and workshops on Forest Investments and other related topics.
- Short Courses ([quantfor.net](http://quantfor.net)) – To contain information on short courses in the area of Fiber Supply Assessment and Growth and Yield Modeling.

- Quantitative forestry (quantfor.com) – To be home of various close and open-access publications in areas relating to the quantitative concepts in contemporary forest management.
- PMRC Research Library (quantfor.com)– PMRCRL is an internal repository of the PMRC Technical & Annual Reports, and researched documents & publications of various PMRC investigations. This repository is only accessible to PMRC members.
- 00 . Initiated and organized international collaboration with Universidad Austral de Chile (Prof. Guillermo F. Trincado).
- 00 - 00 . Member of the WSFNR Seminar Committee
- Served in the University of Georgia International Fellowship Program.
- Served as Member of the recruitment committee for the Forest Landscape Planning and Harvest Scheduling position.
- Served as Member of the PMRC modeling group participating in the PMRC and its Committee Meetings.
- Participated in Students' Convocations and other formal ceremonies.
- Served as a Students' Marshal on Convocation.
- Participated in numerous meetings with the members of the Biometrics group at the D. Warnell School of Forest Resources, on regional priorities and current research and efforts towards meeting current needs in Forest Management.
- Served as student marshal at UGA graduation ceremony