CURRICULUM VITAE

CHRIS J. CIESZEWSKI
Ph.D., M.Sc., M.F., For.Eng.

PERSONAL INFORMATION

Address	• 341 College Cir., Athens, GA, 30506, USA.
Phone numbers	• Voice: (706)542-8169; FAX: (706)542-8356; Home: (706)613-8858
Memberships	• – Society of American Foresters; – Association of B.C. Professional Foresters; – International Institute for Applied Systems Analysis; – International Association of Mathematical Modelling and Scientific Computing.
Languages	• English, Polish, some French, Russian, German.
Computer languages	• FORTRAN, Pascal, C, $\mathcal{APL}$, TSP, SHAZAM, SAS, $S+$, LaTeX, HTML, AutoLisp ...
Special Interest	• Inventory projections with mixed effects dynamic models based on initial-condition difference equations and pooled time-series and cross-sectional (panel) data.
General Interests	• Simulation modeling, mathematics, scientific computing, chess, philosophy, alternative energy/solar thermal, jogging, swimming, other sports.

ACADEMIC STATUS

Nov. 1997	• **Present Rank:** Assistant Professor *Appointment:* 100% Research.
	• **Tenure Status:** Non-tenured on tenure track
Jan. 1998 Sep. 2000	• **Graduate Faculty Status:** Provisional Applied for Full Status

EDUCATION ACCOMPLISHMENTS

JULY 1994	• **Ph.D.** University of Alberta, Edmonton, Alberta, Canada. *Area of Specialization:* Multidimensional Dynamic Models in Forest Biometrics.
APRIL 1987	• **M.Sc.** University of British Columbia, Vancouver, B.C., Canada. *Area of Specialization:* Operation Research and System Modeling.
FEB. 1983	• **For.Eng. & M.F.** at Agriculture Academy in Kraków, Poland, and U. of A., Warsaw Poland. *Area of Specialization:* Forest Engineering and Harvest scheduling and optimization.

WORK EXPERIENCE

NOV. 97 – PRESENT
- **Assistant Professor, Fiber Supply Assessment** at the School of Forest Resources, University of Georgia, Athens, GA.
  Responsibilities: establish an active research program in forest fiber supply assessment directed at the estimation of current and future fiber resources in Georgia and the SE; develop new improved technologies for more effective data analysis and for developments of more accurate inventory projection models; and supervise graduate students.

APR. 97 – NOV. 97
- **Senior Consultant** at DR SYSTEMS Inc., Nanaimo, B.C.
  Responsibilities: conduct comparative analysis of impacts of the new BC Forestry Code on harvest scheduling and sustainability of different forest management regimes; conduct data analysis and develop growth and yield modeling projects.

FEB. 96 – APR. 97
- **Senior Consultant** at TopoGraphics Plus, Edmonton, Alberta.
  Responsibilities: provide quantitative analysis and modeling of growth and yield and dynamics of forest stand developments in various management regimes; destructive and nondestructive stem analysis; and analysis of reforestation projects in the tropics (Costa Rica).

JUNE 95 – FEB. 96
- **Forest Biometrician/Project Scientist** at ManTech Environmental Inc., Corvallis, OR.
  Responsibilities: participate in a team-oriented research project assessing the carbon dynamics of forest ecosystems at country to regional scales; quantify the carbon flux (either sink or source for several major boreal, temperate, and tropical countries. Primary duties: estimation of errors and their propagation for all components of national-scale terrestrial C budgets; performance of statistical analysis of inventory data for estimating status and trend of forest biomass-carbon densities.

SEP. 86 – MAY 95
- **Forest Mensurationist/Research Scientist** at NR-CFS, NoFC, Edmonton, Alberta.
  Responsibilities: develop a managed stand growth & yield simulator for lodgepole pine in Alberta for AAC calculations under various management regimes; design, supervise and conduct research studies, data collection and statistical analyses; develop and publish new technologies associated with biologically sound growth & yield modelling and nonlinear systems analysis of self-referencing functions in pooled cross-sections and time series modelling; design and develop software for relevant nonlinear regression analyses and computer simulations.

MAY-SEP. 1986
- **Researcher** at Faculty of Forestry, University of British Columbia, Vancouver, B.C.
  Responsibilities: develop a forest management computer simulator.

SEP. 85 – APR. 86
- **Teaching Assistant** (FOR.432), Faculty of Forestry, U.B.C., Vancouver, B.C.
  Responsibilities: assist in teaching of timber supply analysis.

1984 – 1985
- **Research Assistant**, U.B.C. Research Forest, Maple Ridge, B.C.
  Responsibilities: collect and collate data for stand modeling and growth & yield inventory; design and develop a forest management teaching computer model; assist in teaching fourth year forestry camp.

1983
- **Horticultural Assistant**, Agriculture Canada Res. Stat., Vancouver, B.C.
  Responsibilities: facilitate horticultural research and experiments.

1981 – 1983
- **Faculty Research Assistant**, U of A, (SGGW), Dep. of For. and Agric., Warsaw, Poland.
  Responsibilities: design and supervise collection and collation of data for harvest scheduling; optimize reclamation of degraded stands.

1981
- **Research Assistant**, AFOCEL & ARMEF (Forest–Cellulose Assoc., & Forestry Reconstruction, Mechanization and Utilization Assoc.), Dijon, France.
  Responsibilities: assist in research on Forestry Management Intensification (fertilization, pruning, time studies of harvest and thinning machines).

SAMPLE PUBLICATIONS

Cieszewski (2000) — *Comparing fixed- and variable-base-age polymorphic site equations ....* **For. Sci.** (In Press)

Bailey&Cieszewski (2000) — *Distinguishing Base Age Invariant Equations.* **Can. J. For. Res.** (In Press)

Cieszewski (2000) — *Three Methods of Deriving Advanced Dynamic Equations ....* **Can. J. For. Res.** (In Press)

Cieszewski (2000) — *Derivation of Parsimonious Dynamic ....* **J. Math. Model. Sci. Comp.** (In Press)

Cieszewski et *al.* (2000) — *Methods for Unbiased Parameter Estimation ....* **J. Math. Model. Sci. Comp.** (In Press)

Cieszewski&Bailey (2000) — *Generalized Algebraic Difference Approach ....* **For. Sci.** 46(1) 116-126.

Cieszewski (2000) — *Analytical . . . Solution for the Generalized Log-Logistic Equation.* **For. Sci.** 46(2) 291-296.

Cieszewski et *al.* (2000) — *Implementation of new dynamic models in timber supply analysis.* **For. Chron.** 75(6).

Cieszewski (2000) — *Height measurements without horizontal distances.* **J. Bell Inventory Newsl.** (Peer-reviewed).

Cieszewski (2000) — *Proceedings from* **Int. Conf.** *on MQMM.* Jekyll Island, GA, USA, Nov. 17, 1999. (In Print)

Cieszewski (2000) — *Causes of Bias in Parameter Estimates of Self-Referencing Models.*

Cieszewski et *al.* 2000) — *Practical Methods for Unbiased Parameter Estimation In Self-Referencing Functions.*

Whiffen et *al.* (2000) — *Stand Signature Stability.*

Cieszewski (1999) — *A Simple Method for derivation ...* 12th **Int. Conf.** MCMSC Chicago, IL, Aug. 2-4.

Cieszewski et *al.* (1999) — *Forest Inventory in Georgia.* IUFRO **International Conference**, Rogow, PL.

Cieszewski (1999) — *Analysis of Oak growth in USA ...* **Int. Conf.** on Oak Growth DE. Warsaw, Poland.

Hansen&Burk (2000) — **Int. Conf.** *on the Inventory and Monitoring ....* Aug. 16-20, 1998, Boise, ID.

Cieszewski et *al.* (1998) — *Software for Computing and Plotting Predictions of Base-Age Invariant Site Equations.*

Borders et *al.* (1998) — *A Comparison of Sample Unit Designs in the National Inventory of the U.S.*

Cieszewski et *al.* (1998) — *Base Age Invariance and Inventory Projections.*

Cieszewski et *al.* (1998) — *Use of Large-Scale Photography in Re-measurements of Forest Inventory.*

Cieszewski et *al.* (1996) — *... Error Propagation in National Level Carbon Budgets.* 2nd ISSAANRES, Fort Collins, CO.

Cieszewski&Bella (1995) — *Adjusting lp SI for density related ...* In Newton (1995), NLR. **Inf. Rep.** N-X-295.

Cieszewski&Bella (1993) — *Modelling density-related lodgepole pine height growth ...* **Can. J. For. Res. 23:** 2499–2506.

Cieszewski &Bella (1993) — *Predicting density-rel. lp height ...* NR-FC, NoFC, Edmonton, AB. **For. Manage. Note** 58.

Cieszewski &Bella (1991) — *Polymorphic height and SI ...* NR-FC, NoFC, Edmonton, AB. **For. Manage. Note** 51.

Cieszewski&Bella (1991) — *Towards optimal design ...* In: Rennolls et *al..* **IUFRO** S4.11 IC 10–14 Sep. London, UK.

Cieszewski et *al.* (1990) — *Modelling growth and yield of aspen ...* In: Navratil, S., Chapman, P.B., Nov. 20–21, 1990.

Cieszewski &Bella(1989) — *Polymorphic Height and Site ...* **Can. J. For. Res. 19:** 1151–1160.

Cieszewski&Bella (1991) — *Stand model . . . self-thinning ...* **IUFRO Int. Conf.** S4.01, Sept. 2–6, Waganingen, Hd.

Tait et *al.* (1988) — *The Stand Dynamics of Lodgepole Pine.* **Can. J. For. Res 18:** 1255–1260.

Schroeder et *al.* (1996) — *Biomass estimation for temperate broadleaf forests of the U.S. ...* **For. Sci.** 43(32):424–434.

Perala et *al.* (1996) — *A Multiproduct Growth and Yield Model for the Circumboreal Aspens.* **NJAF** 13(4)

Perala et *al.* (1995) — *Stockability, growth, . . . circumboreal aspens ...* **Res. Pap. NC-321.** USDA FS, NCFES 24 p.

Perala et *al.* (1991) — *Generic growth and yield models ...* FMDS for 90's. NC-FES Software T.T. Conference.