

ROBERT E. FROESE

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School of Forest Resources and Environmental Science
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PROFESSIONAL EMPLOYMENT

Michigan Technological University, Houghton, MI, USA Associate Professor, School of Forest Resources and Environmental Science	2009 – present
Michigan Technological University, Houghton, MI, USA Assistant Professor, School of Forest Resources and Environmental Science	2003 – 2009
J.S. Thrower and Associates, Ltd., Vancouver, BC, Canada Analyst, Silviculture, Growth and Yield, and Biometrics	1998 – 1999

PROFESSIONAL ACCREDITATION

Registered Professional Forester No. 3531 Association of British Columbia Professional Foresters	1995 – present
Registered Forester State of Michigan, Board of Foresters	2004 – present
Certified Forester Society of American Foresters	2012 – present

EDUCATION

University of Idaho: PhD in Forestry, Wildlife and Range Sciences Dissertation: “Re-engineering the Prognosis basal area increment model for the Inland Empire” Advisor: A.P. Robinson	2003
University of British Columbia: Master of Forestry Thesis: “Modelling juvenile height in mixed species, even aged interior cedar-hemlock stands” Advisor: P.L. Marshall	2000
University of British Columbia: Bachelor of Science in Forestry Thesis: “A case study of understory composition and diversity within several 30-year-old silvicultural system research trials at the Aleza Lake Research Forest” Advisor: J.P. Kimmins	1995

AWARDS

MTU Forest Resources and Environmental Science Outstanding Faculty Award	2013
Distinguished Teaching Award Finalist, MTU Assistant Professor Category	2009
MTU Forest Resources and Environmental Science Outstanding Faculty Award	2009
Two Chiefs’ Partnership Award, US Department of Agriculture	2008
Distinguished Teaching Award Finalist, MTU Assistant Professor Category	2008
Fredrick D. Williams Instructional Innovation Award Finalist	2008
MTU Forest Resources and Environmental Science Distinguished Faculty Award	2007
Distinguished Teaching Award Finalist, MTU Assistant Professor Category	2007
MTU Forest Resources and Environmental Science Distinguished Teaching Award	2005

IN REVIEW

22. *Gebuhr, T.J., M.J. Falkowski, R.E. Froese and L.M. Nagel. In revision. Characterizing structural stage in a northern temperate forest via LiDAR remote sensing. Submitted to *Remote Sensing of Environment*.
21. Sullivan, A.R., D.J. Flaspohler and R.E. Froese. In review. Climate variability and the timing of spring raptor migration in eastern North America. Submitted to *Journal of Avian Ecology*.
20. Fan, J., R.E. Froese, D.R. Shonnard and R.H. Handler. In review. Modeling of C stock change associated with biofuels and bioenergy production from aspen in Michigan forests. Submitted to *Science of the Total Environment*.
19. Zhang, F., D.M. Johnson, M.T. Johnson, D.M. Watkins, and R.E. Froese. In review. Decision support system integrating GIS with simulation and optimization for a biofuel supply chain. Submitted to *Renewable Energy*.

IN PRESS

18. Banskota, A., N. Kayastha, M.J. Falkowski, M.A. Wulder, R.E. Froese and J.C. White. In press. Forest monitoring using Landsat time-series data – A review. Accepted in *Canadian Journal of Remote Sensing*.

IN PRINT

17. *Pond, N.C. and R.E. Froese. 2015. Limitations of interpreting stand structure through diameter distributions. *Forest Science*. <http://dx.doi.org/10.5849/forsci.14-056>.
16. *Pond, N.C. and R.E. Froese. 2014. Evaluating published approaches for modelling diameter at breast height from stump dimensions. *Forestry* 87(5):683-696. <http://dx.doi.org/10.1093/forestry/cpu029>.
15. *Brosofske, K.D., R.E. Froese, M.J. Falkowski and A. Banskota. 2014. A review of methods for mapping and prediction of inventory attributes for operational forest management. *Forest Science* 60(4):733-756. <http://dx.doi.org/10.5849/forsci.12-134>.
14. Vance, E.D., W.M. Aust, R.E. Froese, R.B. Harrison, L.A. Morris and B.D. Strahm. 2014. Biomass harvesting and soil productivity: is the science meeting our policy needs? *Soil Science Society of America Journal* 78:S95-S104. <http://dx.doi.org/10.2136/sssaj2013.08.0323>.
13. *Pond, N.C., R.E. Froese, *R.K. Deo and M.J. Falkowski. 2014. Multiscale validation of an operational model of forest inventory attributes developed with constrained remote sensing data. *Canadian Journal of Remote Sensing* 40:51-67. <http://dx.doi.org/10.1080/07038992.2014.917581>.
12. *Pond, N.C., R.E. Froese and L.M. Nagel. 2014. Sustainability of the selection system in northern hardwood forests. *Forest Science* 60(2):374-381. <http://dx.doi.org/10.5849/forsci.12-113>.
11. Witt, J.C., C.R. Webster, R.E. Froese, T.D. Drummer and J.A. Vucetich. 2012. Scale-dependent drivers of ungulate patch use along a temporal and spatial gradient of snow depth. *Canadian Journal of Zoology* 90: 972-983. <http://dx.doi.org/10.1139/Z2012-065>.
10. Barnes, D., R.E. Froese, R.G. Mannes and B. Warner. 2011. Combined sustainable biomass feedstock combustion, CO₂/EOR, and saline reservoir geological carbon sequestration in Northern Lower Michigan, USA: towards negative CO₂ emissions. *Energy Procedia*, 4:2955-2962. <http://dx.doi.org/10.1016/j.egypro.2011.02.204>

9. Froese, R.E., D.R. Shonnard, *C.A. Miller, K.P. Koers and D.M. Johnson. 2010. Mitigation options for greenhouse gas emissions from coal-fired power plants in the US Great Lakes States. *Biomass & Bioenergy* 34(3): 251-262. <http://dx.doi.org/10.1016/j.biombioe.2009.10.013>.
8. Johnson, D.M, R.E. Froese, J. Waterstraut, A. Martin-Garcia J.H. Whitmarsh and *C.A. Miller. 2009. Business viability of biomass co-firing and gasification for electricity generation. *International Journal of Environmental Engineering* 1(4): 405-431.
7. Holmes, S.A., C.R. Webster, D.J. Flaspohler and R.E. Froese. 2009. Death and *Taxus*: the cost of high palatability for a declining evergreen shrub, *Taxus canadensis*. *Canadian Journal of Forest Research* 39: 1366-1374. <http://dx.doi.org/10.1139/X09-064>.
6. *Pokharel, B and R.E. Froese. 2009. Representing site productivity in the basal area increment model for FVS-Ontario. *Forest Ecology and Management* 258:657-666. <http://dx.doi.org/10.1016/j.foreco.2009.04.040>.
5. Webster, C.R., J.H. Rock, R.E. Froese and M.A. Jenkins. 2008. Drought-herbivory interaction disrupts competitive displacement of native plants by *Microstegium vimineum*, 10 year results. *Oecologia* 157: 497-508.
4. Froese, R.E., J.R. Waterstraut, D.M. Johnson, D.R. Shonnard, J.H. Whitmarsh and *C.A. Miller. 2008. Lignocellulosic ethanol: Is it economically and financially viable as a fuel source? *Environmental Quality Management* 18(1): 23-45.
3. *Pokharel, B. and R.E. Froese. 2008. Evaluating alternative implementations of the Lake States FVS diameter increment model. *Forest Ecology and Management* 255(5-6): 1759-1771.
2. Froese, R.E. and A.P. Robinson. 2007. A validation and evaluation of the Prognosis individual-tree basal area increment model. *Canadian Journal of Forest Research* 37: 1438-1449.
1. Robinson, A.P. and R.E. Froese. 2004. Model validation using equivalence tests. *Ecological Modelling* 176: 349-358.

BOOK CHAPTERS

1. Flaspohler, D.J, R.E. Froese and C.R. Webster. 2008. Biomass, Bioenergy and Biodiversity: A review of key issues for terrestrial and aquatic ecosystems. Pp. 133-162 in: B.D. Solomon and V.A. Luzadis (eds.), *Renewable Energy from Forest Resources in the United States*. *Routledge*.

REPORTS

38. Froese, R.E. 2014. A carbon budget for herbaceous openland conversion to forest bioenergy crops: Final report. Submitted to USDA McIntire-Stennis. 6 pp.
37. Froese, R.E. and *T.J. Gebuhr. 2013. NSF-FSML Radio Tower Project Site Analysis for the SFRES Research Forest. Submitted to Michigan Technological University. 9 pp.
36. Froese, R.E. 2012. Energy crop trials for the Wolverine Clean Energy Venture: tree plantation trials – fourth year results. Submitted to Wolverine Power Cooperative. 36 pp.
35. Froese, R. and *Z. Abbott. 2012. Energy crop opportunities in the Western Upper Peninsula of Michigan. Submitted to Western Upper Peninsula Planning and Development Region. 27 p.
34. *Miller, C. and R. Froese. 2012. Carbon inventory for the Wolverine energy crop trials: phase 1 final report. Submitted to Wolverine Power Cooperative. 22 pp.

33. Froese, R.E. and *Z.C. Abbott. 2011. Spatial forest inventory analysis for Kinross, MI. Submitted to Frontier Renewable Resources LLC. 14 p.
32. *Pond, N.C., R.E. Froese, L.M. Nagel and *N.L. Windmuller. 2011. Northern hardwood management in Michigan. Submitted to Frontier Renewable Resources LLC. 39 p.
31. *Deo, R.K., R.E. Froese and M.J. Falkowski. 2011. Geospatial forest inventory models for Michigan. Submitted to the U.S. Department of Energy. 26 p.
30. Froese, R.E., J.C. Rivard and M.J. Falkowski. 2011. Forest biomass information system for Michigan. Submitted to the U.S. Department of Energy. 21 p.
29. Froese, R.E. 2011. Spatial forest-based biomass availability. Submitted to the U.S. Department of Energy. 5 p.
28. Froese, R.E. 2011. Commercial plantations of tree energy crops. Submitted to the U.S. Department of Energy. 9 p.
27. *Roberts, T.L.D. and R.E. Froese. 2011. Understanding recovery and sustainability of forest residue harvest. Submitted to the U.S. Department of Energy. 37 p.
26. Froese, R. and *N. Windmuller. 2010. Sustainable biomass for small-scale combined heat and power: biomass feedstock assessment for Winn, Michigan. Submitted to Wolverine Power Cooperative. 23 pp.
25. Froese, R., S. Holmes, *A. Davis and *T. Roberts. 2010. Traverse City Biomass Fuels Assessment. Submitted to Traverse City Light & Power. 57 pp.
24. Froese, R.E. and *C.A. Miller. 2010. Energy Crop Trials for the Wolverine Clean Energy Venture: Tree Plantation Trials, Second Year Results. Submitted to Wolverine Power Supply Cooperative, Inc. 36 pp.
23. *Pokharel, B. and R.E. Froese. 2009. Timber inventory plot design project: final report. Submitted to Michigan Department of Natural Resources. 20 pp.
22. *Pokharel, B. and R.E. Froese. 2009. Timber inventory plot design project: field manual. Submitted to Michigan Department of Natural Resources, 40 pp.
21. *Pokharel, B. and R.E. Froese. 2009. Timber inventory plot design project: intermediate report. Submitted to Michigan Department of Natural Resources. 40 pp.
20. Gale, M.R., J.W. Sutherland, C. Wojick, M. Hutchins, K. Bradof, R. Froese, M. Needham, D. Johnson, J. Schubert, D. Graham, K. Neyanen, S. Gailey, S. Hook, S. Sanderson, D. Shepp, N. Peterson, P. Brushaber, D. Nestmann, R. Rama, Y. Ofori Lartey, C. Schafer, A. Autio, L. Fraki, M. Foster, A. Manty, B. Marcinak, V. Fuchs, C. Workman, S. Sikarwar, N. Schuster and J. Johnson. 2008. Carbon neutral Academic Quality Improvement Program (AQIP) project. Michigan Technological University, Houghton, MI. 19 pp.
19. Froese, R.E. and *B. Pokharel. 2008. An evaluation of increment modelling approaches used in Forest Vegetation Simulator variants and recommendation for application in the Great Lakes Region, final synthesis report. Submitted to the Ontario Ministry of Natural Resources. 22 pp.
18. Froese, R.E., *C.A. Miller, B. Nowakowski and T. Papes. 2008. Energy crop trials for the Wolverine Clean Energy Venture: experimental layout and plantation establishment plan. Submitted to Wolverine Power Supply cooperative, Inc. 22 pp.
17. Froese, R.E., *C.A. Miller, D.R. Shonnard, K. Koers, D.M. Johnson, M. Norman and C. Miller. 2008. Biomass co-firing for the Wolverine Clean Energy Venture: an environmental, economic and life cycle analysis of biomass for bioenergy. Submitted to Wolverine Power Supply Cooperative, Inc. 78 pp.

16. *Miller, C.A., R.E. Froese and L.A. Leefers. 2007 Consequences of corporate timberland ownership change in Michigan's Upper Peninsula. *Proceedings of the 2007 SAF National Convention, Society of American Foresters, Bethesda, MD, in press.*
15. Froese, R.E., *C.A. Miller, M.D. Hyslop, B. Garmon, H. McDiarmid, Jr., A. Shaw, L. Leefers, M. Lorenzo, S. Brown and M. Shy. 2007. Large-tract forestland ownership change: land use, conservation, and prosperity in Michigan's Upper Peninsula. *National Wildlife Federation, Lansing, MI.*
14. *Pokharel, B. and R.E. Froese. 2007. Evaluating alternative base functions for modelling diameter increment in Ontario. Submitted to the Ontario Ministry of Natural Resources. 82 pp.
13. Froese, R.E., C.R. Webster, C.P. Giardina, J.B. Pickens, J.M. Schmierer, Jr., and A.L. Friend. 2006. Managing carbon in Michigan's upper peninsula: carbon offset potentials in northern hardwoods under DOE 1605(b) voluntary reporting guidelines. Submitted to DTE Energy, Inc. 23 pp.
12. Shonnard, D.R., Q. Zhang, D.M. Johnson, R.E. Froese, J.W. Sutherland, B.D. Solomon, J.H. Whitmarsh, J. Waterstraut, A.R. Martin-Garcia, *C.A. Miller, T.L. Jenkins and *G.J. Wright. Evaluation of low greenhouse gas bio-based energy technologies. Submitted to Caterpillar, Inc. 396 pp.
11. *Pokharel, B. and R.E. Froese. 2006. Single-tree, aspatial diameter increment models: literature review and analysis. Submitted to the Ontario Ministry of Natural Resources. 45 pp.
10. *Antón Fernández, C. and R.E. Froese. 2006. A structural based prediction system for modelling tree mortality. Submitted to USDA Forest Service. 22 pp.
9. *Pokharel, B. and R.E. Froese. 2005. Validation studies of the diameter growth sub-model of the Lake States variant of the Forest Vegetation Simulator: an annotated bibliography. Submitted to the Ontario Ministry of Natural Resources. 13 pp.
8. Froese, R.E. 2004. Analysis of ginseng fertilizer experiment data. Contract Report to Professor John Proctor, University of Guelph, 5 pp.
7. Froese R.E. 2003. FVSNI-SBP: The Forest Vegetation Simulator, Northern Idaho Variant, with basal area increment predictions using Structural Based Prediction. *Michigan Technological University, Forest Resources and Environmental Science, 5 pp.*
6. Froese, R.E. and A.P. Robinson. 2002. Incorporating soil parent material into Prognosis. Pp. 135-140 in: Crookston, Nicholas L.; Havis, Robert N. comps. 2002. *Second Forest Vegetation Simulator (FVS) Conference; February 12-14, 2002, Fort Collins, CO. Proceedings RMRS-P-25. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.*
5. Froese, R.E. and A.P. Robinson. 2000. Overview: structure of the tree level components of the Forest Vegetation Simulator (inland empire and Central Idaho variants). *University of Idaho, College of Natural Resources, 27 pp.*
4. Froese, R.E. 1998. Density, productivity and growth of true fir (*Abies*) species with emphasis on subalpine fir and advance regeneration: a review of the literature. Contract Report to the B.C. Ministry of Forests. 23 pp.
3. Froese, R.E. 1998. Height dynamics in juvenile mixed-species ICH stands near Nelson, B.C. in: Jull, M., D. Coxson, S. Stevenson, D. Lousier and M. Walters (eds.) *Ecosystem dynamics and silviculture systems in interior wet-belt ESSF and ICH forests: workshop proceedings. University of Northern British Columbia. 71 pp.*

2. Jull, M., R. Froese and S. Fletcher. 1997. Shelterwood partial cutting in interior white spruce: two-year results of a case study at Aleza lake, B.C. *B.C. Ministry of Forests, Prince George Forest Region Research Note #PG-02. 6 pp.*
1. Froese, R.E. and P.L. Marshall. 1997. The influence of silvicultural manipulations on conifer height growth: a synthesis of the literature. Contract Report to the B.C. Ministry of Forests. 39 pp.

SPONSORED RESEARCH

ACTIVE

- Rothstein, D., Kashian, D.M., Froese, R.E., Miller, R.O., and Ziegler, S. A silvicultural system for conserving biodiversity and enhancing ecosystem services in zeric jack pine forests of the Lake States Region. *USDA Agriculture and Food Research Initiative*, 2015-18, \$500,000.
- Froese, R.E. Environmental fate of carbon in logging residues under operational forest management. *National Council for Air and Stream Improvement, Inc.*, 2015-16, \$51,300.
- Froese, R.E. Intensive Silviculture for Lake States Poplar. *USDA McIntire-Stennis*, 2014-2019, \$32,760.
- Burton, A.J, L.M. Nagel, C.R. Webster, S.C. Resh, and R.E. Froese. Enhancing Michigan Tech's ability to analyze C, N, H and O in soils, plant tissue and other solids. *Michigan Technological University, Research Excellence Funds – Infrastructure Enhancement*, 2013-2014, \$52,861.
- Shonnard, D.R., E. Bar Ziv, A.J. Burton, A.L. Mayer, J.D. Naber. (R.E. Froese, Senior Personnel). SEP: Sustainable forest-based biofuel pathways to hydrocarbon transportation fuels: biomass production, torrefaction, pyrolysis, catalytic upgrading, and combustion. *National Science Foundation*, 2012-2016, \$1,800,000.
- Burton, A.J., R.E. Froese, L.A. Artman, O. Gailing and K. Price. Facilities improvement for ecological research at Michigan Tech's Ford Center and Research Forest. *National Science Foundation*, 2012-2015, \$343,639.
- Froese, R.E. and L.M. Nagel. Evaluating the long-term effect of logging residue harvest in Great Lakes aspen stands. *National Council for Air and Stream Improvement, Inc.*, 2011-2015, \$182,113.
- Froese, R.E. and L.M. Nagel. Effects of biomass harvest on forest productivity. *Plum Creek Timber Company, Inc.*, 2010-2014, \$77,107.
- R.E. Froese, A.J. Burton, T.G. Pypker, and A.J. Storer. Preliminary assessment of global change impacts on Great Lakes basins. *USDA Forest Service, Northern Research Station*, 2009-2014, \$419,473.

COMPLETED

- Froese, R.E., Carbon implications of poplar energy crops throughout the energy supply chain. *USDA Forest Service, Northern Research Station*, 2011-2013, \$83,534.
- Froese, R.E. A carbon budget for herbaceous openland conversion to forest bioenergy crops. *USDA McIntire-Stennis*, 2009-2013, \$44,100.
- Froese, R.E. Energy crop trials 2012 for the Wolverine Clean Energy Venture. *Wolverine Power Supply Cooperative Inc.*, 2012-2013, \$21,368.
- Froese, R.E. LS and CS-FVS model development and validation. *USDA Forest Service, Forest Management Service Center*, 2010-2012, \$24,000.

- Burton, A.J., R.E. Froese, J.K. Bump and R.A. Chimner. Enhancing Michigan Tech's ability to assess ecosystem sustainability and trace metal movement in upland, wetland, and aquatic ecosystems. *Michigan Technological University, Research Excellence Funds – Infrastructure Enhancement*, 2010-2011, \$34,000.
- Froese, R.E. Optimal energy crop production in the Upper Peninsula of Michigan. *Western Upper Peninsula Planning and Development Region*, 2011, \$14,842.
- Froese, R.E. Energy crop trials 2011 for the Wolverine Clean Energy Venture. *Wolverine Power Supply Cooperative Inc.*, 2011, \$29,573.
- Shonnard, D.R., R.E. Froese, D.M. Johnson, P. Lautala and M.K. Janowiak. Forestry Biofuel Statewide Collaboration Center. *US Department of Energy*, 2010-2011, \$792,355.
- Froese, R.E. and K.E. Halvorsen. Frontier CoEE Project 2: Increasing sustainable biomass feedstock supply. *Frontier Renewable Resources LLC*, 2009-2011, \$659,775.
- Shonnard, D.R., P. Lautala and R.E. Froese. Project 3: Improving forest feedstock harvesting, processing and hauling efficiencies. *Frontier Renewable Resources LLC*, 2009-2011, \$408,589.
- Froese, R.E. Energy crop trials 2010 for the Wolverine Clean Energy Venture. *Wolverine Power Supply Cooperative Inc.*, 2009-2010, \$65,636.
- Froese, R.E. Sustainable biomass for small-scale CHP in Michigan. *Wolverine Power Supply Cooperative Inc.*, 2010, \$18,450.
- Froese, R.E. Biomass production and carbon sequestration trials for the Wolverine Clean Energy Venture. *Wolverine Power Supply Cooperative Inc.*, 2008-2009, \$67,385.
- Froese, R.E. Biomass fuels assessment. *Traverse City Light and Power*, 2009, \$20,977.
- Froese, R.E. A carbon inventory for the Wolverine energy crop trials. *Wolverine Power Supply Cooperative, Inc.*, 2008-2009, \$13,007.
- Froese, R.E. Timber inventory plot design for the Michigan Department of Natural Resources. *State of Michigan, Department of Natural Resources*, 2008-2009, \$49,936.
- Froese, R.E. Energy crop trials for the Wolverine Clean Energy Venture. *Wolverine Power Supply Cooperative Inc.*, 2008-2009, \$51,187.
- Froese, R.E., D.R. Shonnard and D.M. Johnson. Biomass co-firing for the Wolverine Clean Energy Venture. *Wolverine Power Supply Cooperative, Inc.*, 2007-2008, \$83,948.
- Froese, R.E. An evaluation of increment modelling approaches used in Forest Vegetation Simulator variants and recommendations for application in the boreal and Great Lakes forest region. *Ontario Ministry of Natural Resources*, 2004-2008, \$75,014.
- Firstenberg, E., R.E. Froese, B. Garmon, L. Leefers and B. Lenz. The role of corporate timberland ownership change in land use, conservation, and local prosperity in Michigan's Upper Peninsula. *People and Land, Inc.*, 2006-2007, \$215,000.
- Froese, R.E. Extending structural based prediction and regional soil parent material maps to the Prognosis mortality model. *USDA McIntire-Stennis*, 2003-2007, \$43,680.
- Shonnard, D., D. Johnson, R. Froese, J. Sutherland and B. Solomon. Evaluation of low greenhouse gas bio-energy technologies. *Caterpillar, Inc.*, 2006-2006, \$180,000.
- Froese, R.E., C.R. Webster, J. Pickens, C. Giardina and A. Friend. Managing carbon in Michigan's Upper Peninsula: carbon offset potentials in northern hardwoods under DOE 1605(b) voluntary reporting guidelines. *DTE Energy, Inc.*, 2005-2006, \$27,910.
- Reed, D.D. and R.E. Froese. Modelling carbon allocation to the coarse roots of red pine. *USDA Forest Service, North Central Research Station*, 2004-2006, \$35,000.

Froese, R.E. A structural based prediction system for modelling tree mortality. *USDA Forest Service, Rocky Mountain Research Station*, 2003-2006. \$15,600.

ORAL PRESENTATIONS

- *Deo, R.K., R.E. Froese, and M.J. Falkowski. 2014. Performance evaluation of imputed site index and biogeoclimatic spatial data in large diameter growth models of selected tree species in the Lake States. *Joint Northeastern Mensurationist and Southern Mensurationist Meeting, November 2-4, 2014 at Raleigh, NC.*
- *Pond, N.C., R.E. Froese, and B.T. Wilson. 2014. Small area estimation across large areas of forest. *24th IUFRO World Congress, October 5-11, 2014 at Salt Lake City, UT.*
- Vance, E.D., W.M. Aust, B.D. Strahm, R.E. Froese, R.B. Harrison and L.A. Morris. 2014. Forest biomass harvesting and site productivity: is policy ahead of science? *RCN Conference on Pan-American Biofuels and Bioenergy Sustainability, July 22-25, 2014 at Recife, Brazil.*
- Froese, R.E., N.C. Pond, R.K. Deo and M.J. Falkowski. 2013. An operational model for small area estimation across large areas of forest. *Northeastern Mensurationist Meeting, November 4-5, 2013 at York Harbor, ME.*
- Fan, J., R.E. Froese, D.R. Shonnard and R.M. Handler. 2013. Direct land use change emissions associated with forest-based biofuels and bioenergy production in Michigan. *American Institute of Chemical Engineers Annual Meeting, November 3-8, 2013 at San Francisco, CA.*
- *Pond, N.C. and R.E. Froese. 2013. Misunderstanding stand dynamics through the mischaracterization of diameter distributions. *Society of American Foresters National Convention, October 23-27, 2013 at North Charleston, SC.*
- *Premer, M.I., R.E. Froese and L.M. Nagel. 2013. Logging residue harvest effects in commercial Great Lakes *Populus* forests. *Society of American Foresters National Convention, October 23-27, 2013 at North Charleston, SC.*
- *Pond, N.C. and R.E. Froese. 2013. New methods for (mis)representation of diameter distributions at multiple scales. *IUFRO Complex Forest Ecosystems/Southern Mensurationists Joint Meeting, October 7-9, 2013 in New Orleans, LA.*
- *Premer, M.I., R.E. Froese and L.M. Nagel. 2013. Logging residue harvest effects on plant community dynamics in commercial *Populus* stands of the Great Lakes region. *Ecological Society of America 98th Annual Meeting, August 4-9, 2013 at Minneapolis, MN.*
- Vance, E.D., W.M. Aust, R.E. Froese, R.B. Harrison, L.A. Morris and B.D. Strahm. 2013. Biomass harvesting and soil productivity: is science meeting our policy needs? *12th North American Forest Soils Conference, June 16-20, 2013 at Whitefish, MT.*
- Froese, R.E., *M.I. Premer and L.M. Nagel. 2013. Aspen site productivity – biomass harvesting project. *National Council for Air and Stream Improvement Northern Regional Meeting, May 8-9, 2013 at Wausau, WI (invited).*
- Falkowski, M.J., *T. Gebuhr, R.E. Froese and L.M. Nagel. 2012. Use of LiDAR to characterize stage of stand development in temperate, uneven-aged hardwoods of North America. *IUFRO Conference on Uneven-aged Silviculture, November 12-16, 2012 at Lincoln, New Zealand.*
- *Pond, A.C., R.E. Froese and L.M. Nagel. 2012. Arbogast and beyond: current management in northern hardwood stands. *Society of American Foresters National Convention, October 24-28, 2012 at Spokane, WA.*

- Froese, R.E., L.M. Nagel and *M.I. Premer. 2012. The effects of topwood removal on plant communities in aspen stands in the United States Upper Midwest. *IUFRO Second International Conference on Biodiversity in Forest Ecosystems and Landscapes, August 28-31, 2012 at Cork, Ireland* (invited).
- Froese, R.E. 2012. Utilization in Michigan's forests. *Michigan Forest Association Annual Meeting, August 10, 2012 at Houghton, MI* (invited).
- Johnson, D.M., R.E. Froese and F. Zhang. 2012. Woody forest residue supply chain for biofuels. *Production and Operations Management Society 2012 Conference, April 20-23, 2012 at Chicago, IL*.
- *Deo, R.K., R.E. Froese and M.J. Falkowski. 2011. Spatial inventory of growing stock volume in Michigan, USA. *Northeastern Mensurationist Meeting, October 2-4, 2011 at Quebec City, QC*.
- *Pond, A.C., and R.E. Froese. 2011. Forensic mensuration in (mis) managed northern hardwood stands. *Northeastern Mensurationist Meeting, October 2-4, 2011 at Quebec City, QC*.
- Froese, R.E. 2011. Sustainability of forest production in Michigan. *Michigan Department of Natural Resources Western Upper Peninsula Citizen's Advisory Council Meeting, September 12, 2011 at Houghton, MI* (invited).
- Froese, R.E. 2011. Biomass: a universal renewable option. *Rural Electric Statewide Managers Association Lobbyist Conference, August 21-24, 2011 at Traverse City, MI* (invited).
- Froese, R.E. 2011. Michigan's forest inventory. *Michigan's New Biomass Inventory Systems Workshop, July 22 at Central Michigan University, Mt. Pleasant, MI* (invited).
- Froese, R.E. 2011. Michigan's forest inventory – present and future. *Michigan Forest Biofuels Research Webinar Series, July 27, 2011 at Michigan Technological University* (invited). Available at: <http://michiganforestbiofuels.org/michigans-forest-inventory-present-and-future-robert-froese>.
- Froese, R.E. 2011. Forest biomass: inventory, availability and supply. *19th Annual NE WI/UP Loggers Conference, May 9, 2011 at Harris, MI* (invited).
- Froese, R.E. 2011. Forest biomass and alternative future forests. *Upper Peninsula Environmental Coalition Annual Meeting, March 18-19, 2010 at Hancock, MI* (invited).
- Barnes, D., R. Froese, R. Mannes and B. Warner. 2010. Combined sustainable biomass feedstock combustion, CO₂/EOR, and saline reservoir carbon sequestration in Northern Lower Michigan, USA: towards negative CO₂ emissions. *International Conference on Greenhouse Gas Technologies (GHGT), September 19-23, 2010 at Amsterdam, Netherlands*.
- Froese, R.E., *C.A. Miller, D.R. Shonnard, K.P. Koers and D.M. Johnson. 2009. Can forest biomass “clean” coal in the Great Lakes States? *Society of American Foresters National Convention, October 3, 2009 at Orlando, Florida*.
- Gale, M.R., L.M. Nagel and R.E. Froese. 2009. Education and carbon – complex systems of learning. *Carbon in Northern Forests Conference, June 10-11, 2009 at Traverse City, MI*.
- Froese, R.E. 2009. Biomass production from energy crops on idle agriculture lands. *Michigan Agri-Energy Conference, March 30-31, 2009 at Kalamazoo, MI* (invited).
- Froese, R.E. 2009. Forest biomass: inventory, potential and realized feedstock availability. *Forest-Based Bioenergy for Michigan's Upper Peninsula, March 10, 2009 at Marquette, MI* (invited).
- Froese, R.E., *C.A. Miller, L.A. Leefers and M.Hyslop. 2008. Causes and consequences of large corporate forestland sales in the Upper Midwest. *6th Forest and Wildlife Research Review, January 16, 2008 at Duluth, MN*.

- *Miller, C.A., R.E. Froese and L.A. Leefers. 2007. Consequences of corporate timberland ownership change in Michigan's Upper Peninsula. *2007 SAF National Convention, October 23-27 at Portland, OR.*
- *Antón Fernández, C. and R.E. Froese 2007. Effects and correction of sampling error in individual tree mortality models. *IUFRO Complex Stand Structures and Associated Dynamics Conference, July 29 – August 2, 2007 at Sault Ste. Marie, ON.*
- Froese, R.E., *C.A. Miller and M.D. Hyslop. 2007. Corporate forestland ownership change: the Upper Peninsula in transition. *Community Forums sponsored by People and Land, at June 19-21 at Newberry, Marquette and Houghton, MI.*
- Froese, R.E. 2007. FVSCLIM: Prognosis re-engineered to incorporate climate variables. *Western Mensurationist meeting, June 25-26, 2007 at Kelowna, BC.*
- * Antón Fernández, C. and R.E. Froese. 2007. Effects and correction of sampling error in individual tree mortality models. *Western Mensurationist meeting, June 25-26, 2007 at Kelowna, BC.*
- Froese, R.E. 2007. Evaluating FVS-NI basal area increment model revisions under structural based prediction. *3rd Forest Vegetation Simulator Conference, February 13-15, 2007 at Fort Collins, CO.*
- * Antón Fernández, C. and R.E. Froese. 2007. Errors-in-variables for individual tree mortality models. *3rd Forest Vegetation Simulator Conference, February 13-15, 2007 at Fort Collins, CO.*
- Friend, A.F., J.B. Pickens, R.E. Froese, C.R. Webster, C.P. Giardina and J.M. Schmierer, Jr. 2007. Forest carbon sequestration potential in Upper Michigan. *Fourth USDA Greenhouse Gas Conference, February 6-8, 2007 at Baltimore, MD.*
- *Pokharel, B. and R.E. Froese. 2006. Validation of the diameter increment model of the Lake States variant of the Forest Vegetation Simulator using Michigan Forest Inventory and Analysis Data. *Western Mensurationist meeting, June 19-20, 2006 at Fortuna, CA.*
- Froese, R.E. 2006. Carbon accounting for forestland in the Michigan Upper Peninsula: past, present and future. *5th Annual Forest and Wildlife Research Review, Sustainable Forests Education Cooperative, January 11, 2006 at Duluth, MN (invited).*
- Froese, R.E. 2005. Carbon management potentials in the Michigan Upper Peninsula. *Northern Institute of Applied Carbon Science annual meeting, November 21, 2005 at Philadelphia, PA.*
- Froese, R.E. and A.P. Robinson. 2004. Representing soil and climate processes in the Prognosis Model for Stand Development. *Society of American Foresters / Canadian Institute of Forestry Joint Meeting, October 2-6, 2004 at Edmonton, AB.*
- Froese, R.E. and A.P. Robinson. 2003. Validating the Prognosis basal area increment model for the Inland Empire. *Western Mensurationist meeting, July 1-3, 2003 at Victoria, BC.*
- A.P. Robinson and R.E. Froese. 2003. Model validation using equivalence tests. *Western Mensurationist meeting, July 1-3, 2003 at Victoria, BC.*
- Froese, R.E. 2002. FVS revised: the ultimate hybrid growth model? *Inland Northwest Growth and Yield Cooperative meeting, January 2002. Spokane, WA (invited).*
- Froese, R.E. and A.P. Robinson. 2001. Simultaneous regression with a generalized error structure – simplified. *IUFRO Forest Biometrics Conference, June 25-29, 2001 at Greenwich, UK.*
- Froese, R.E. and A.P. Robinson. 2001. Lithology as a predictor for forest growth models: opportunities and constraints. *IUFRO Forest Modelling for Ecosystem Management, Forest Certification and Sustainable Management Conference, August 12-18, Vancouver, BC.*

Robinson, A.P., P. Radtke and R.E. Froese. 2001. Reverse-engineering forest growth models to recover data sets for further analysis. *IUFRO Forest Modelling for Ecosystem Management, Forest Certification, and Sustainable Management Conference, August 12-18, 2001. Vancouver, BC.*

Froese, R.E. 2000. Modelling height yield and years to breast height in juvenile mixed ICH stands. *Western Mensurationists Meeting, June 19-20, 2000. Whitefish, MT.*

PROFESSIONAL AND SERVICE ACTIVITIES

MANUSCRIPT REVIEWS

Canadian Journal of Forest Research, Ecological Modelling, Forest Ecology and Management, Forest Science, Journal of Forestry, Northern Journal of Applied Forestry, Science, Southern Journal of Applied Forestry, Forestry Chronicle, Global Change Biology, Annals of Forest Science, Western Journal of Applied Forestry, Forestry, BioEnergy Research

MEMBERSHIPS

Society of American Foresters, Canadian Institute of Forestry, American Geophysical Union

BOOK REVIEWS

Springer US, John Wiley & Sons UK

PROPOSAL REVIEWS

Northern Institute for Climate Change Research, Ontario Forest Futures Committee, University of Florida, MTU Ecosystem Science Center

SCHOOL COMMITTEES

Computer Committee	2013 – present
Search Committee for Professor of Practice in Biomaterials	2013 – 2014
Search Committee for Assistant Professor of Silviculture, Chair	2013 – 2014
Ford Forest Management Committee	2008 – 2014
Computer Committee, Chair	2008 – 2012
Search Committee for Assistant Professor of Forest and Wetland Soils	2011 – 2012
Graduate Program Committee	2009 – 2012
Search Committee for Assistant Professor of Spatial Analysis	2008 – 2009
Computer Committee	2007 – 2008
Search Committee for Assistant Professor of Hydrology, Chair	2005 – 2006
Graduate Program Committee, Chair	2006 – 2007
Computer Committee, Chair	2005 – 2006
Graduate Program Committee	2004 – 2006
Computer Committee	2003 – 2005

CAMPUS COMMITTEES

MTU Senate Executive Committee	2013 – present
MTU Senate Research Policy Committee, Chair	2013 – present

Michigan Technological University Senate (as senator)	2012 – present
MTU Senate Research Policy Committee	2012 – present
Sabbatical Leave Committee, Chair	2012 – 2013
Sabbatical Leave Committee	2011 – 2013
Sustainability Working Group, Gen Ed Council	2011 – 2012
Energy Advisory Group	2008 – 2012
Graduate School Advisory Panel	2007 – 2011
Academic Quality Improvement Program, Carbon Counting Action Project	2007 – 2008
Distributed Computing Systems Projects and Priorities Committee	2005 – 2006

EXTERNAL COMMITTEES

Biomass Utilization and Restoration Network for the Upper Peninsula Steering Committee (<i>USDA NRCS</i>)	2007 – 2010
Center of Energy Excellence Direction Setting Committee (<i>Michigan Economic Development Corporation</i>)	2008 – 2009

ADVISING

POST-DOCTORAL RESEARCH SCIENTISTS – SUPERVISOR

Pond, Nan; PhD	2012 – 2014
Brosofske, Kim; PhD	2011 – 2013
Pokharel, Bharat; PhD	2008 – 2009

DOCTORAL STUDENTS – SUPERVISOR

Premer, Michael; PhD Candidate (co-advised with L.M. Nagel)	2012 – present
Hillard, Scott; PhD Candidate	2012 – present
Jeranek, Mark; PhD Student (co-advised with A.J. Burton)	2013 – present
Deo, Ram; PhD Conferred 2014 (co-advised with M.J. Falkowski) Current position: University of Minnesota, St. Paul MN	2010 – present
Davis, Nan; PhD Conferred 2012 Current position: SilviaTerra LLC, Cambridge MA	2011 – 2012
Antón Fernández, Clara; PhD Conferred 2008 Current position: Research Scientist, Norwegian Forest and Landscape Institute, Ås Norway.	2005 – 2008
Pokharel, Bharat; PhD Conferred 2008 Current position: Assistant Professor, Tennessee State University, Nashville TN	2004 – 2008

MASTERS STUDENTS – SUPERVISOR

Özkal, M. Kagan; MSc Candidate	2014 – present
Gebuhr, Tim; MSc Conferred 2013 (co-advised with M.J. Falkowski)	2011 – 2013
Len, Jolanta; MSc Conferred 2011	2010 – 2011
Roberts, Trevor; MSc Candidate	2009 – 2011
Windmuller, Nick; MSc Candidate (co-advised with A.J. Storer)	2009 – 2011
Landon, Anthony; MSc Candidate (co-advised with A.L. Maclean)	2009 – 2011

Davis, Nan; MSc Candidate (converted to Ph.D.)	2009 – 2011
Miller, Chris A.; MSc Conferred 2008	2006 – 2008

GRADUATE STUDENTS – COMMITTEES

Previant, Wilfred; PhD Candidate	2008 – present
Von Duyke, Andy; PhD Candidate	2009 – present
Romstad, Eric; MF	2013 – 2013
Zhang, Fengli; PhD	2011 – 2013
Alian, Sara; MSc	2013 – 2013
Fan, Jiquing; PhD	2009 – 2013
Premer, Michael; MF	2011 – 2011
Tonisson, Tonis; MSc	2011 – 2011
Yatso, Cassidy; MSc	2010 – 2011
Ballard, Merideth M.; PhD Candidate	2008 – 2011
Wrobel, Alex; MSc	2008 – 2010
Spaete, Luke; MSc	2007 – 2009
Marlor, Kathryn; MSc	2008 – 2009
Holmes, Stacie; PhD	2006 – 2009
Harless, Megan; PhD	2008 – 2009
Wilson, Timothy; MSc	2007 – 2008
Roosien, Brian; MSc	2004 – 2007
Satterlee, Brian; MSc	2004 – 2007
Colling, Trisha; MSc	2004 – 2004
Zinsmaster, Charles; MSc	2004 – 2006
Bealka, Angela; MF	2006 – 2006
Casado, Fanny; MSc	2006 – 2006
Manarolla, Michelle; MSc	2004 – 2006
Holey, Amanda; MSc	2006 – 2006
Watten, Joshua; MSc	2006 – 2006
Henry, Brian; MSc	2005 – 2005

STUDENT RESEARCH ASSISTANTS

Brodeur, M., Grupydo, E., Kelso, S., Kleiman, S.	2014
Anderson, C., Baker, M., Blease, B., Clohisy, W., Dipping, E., Kleiman, S.	2013
Manninen, L., Blease, B., Mehne, A., Harvey, J., Bennett, R., Kleiman, S.	2012
Manninen, L., Abbott, Z., Leonard, C., Stan, M., Oikaranen, K., Premer, M., Annala, M.	2011
Fylpaa, C., Sobaski, S., Romanowicz, K., Kremers, C., Stenvig, M., Manninen, L.	2010
Fylpaa, C., Jarvi, M., Kalen, K.	2009
Abbotts, M., Halfrisch, A., Holodnick, P., Jarvi, M.	2008
Abbotts, M., Campione, M., Fraki, L., Gebhur, T., Largent, E., Windmuller, N.	2007
Fraki, L., Furton, B., Gebuhr, T., Graham, D.	2006
Furton, B., Horndt, S.	2005

TEACHING

- Froese, R.E. 2014. Applied Regression Analysis. FW5411, 17 students, Michigan Tech University, spring semester, 2014.
- Froese, R.E. 2014. Regression with the R Environment. FW5412, 13 students, Michigan Tech University, spring semester, 2014.
- Froese, R.E. 2014. Stand and Forest Modelling. FW4140, 19 students, Michigan Tech University, spring semester, 2014.
- Froese, R.E. 2013. Integrated Resource Assessment (lab section). FW4810, 5 students, Michigan Tech University, fall semester, 2013.
- Froese, R.E. 2013. Biometrics and Data Analysis. FW3200, 32 students, Michigan Tech University, spring semester, 2013.
- Froese, R.E. 2013. Stand and Forest Modelling. FW4140, 20 students, Michigan Tech University, spring semester, 2013.
- Froese, R.E. 2013. Forest Inventory and Analysis. FW5032, 8 students, Michigan Tech University, spring semester 2013.
- Froese, R.E. 2012. Inventory, Modelling and Data Analysis. FW3200, 44 students, Michigan Tech University, spring semester, 2012.
- Froese, R.E. 2012. Vegetation Modelling. FW4140, 19 students, Michigan Tech University, spring semester, 2012.
- Froese, R.E. 2012. Integrated Forest Inventory and Data Analysis. FW5032, 6 students, Michigan Tech University, spring semester, 2012.
- Froese, R.E. 2012. Applied Regression Analysis. FW5411, 20 students, Michigan Tech University, spring semester, 2012.
- Froese, R.E. 2012. Regression with the R Environment for Statistical Computing. FW5412, 17 students, Michigan Tech University, spring semester, 2012.
- Froese, R.E. 2011. Inventory, Modelling and Data Analysis. FW3200, 44 students, Michigan Tech University, spring semester, 2011.
- Froese, R.E. 2011. Vegetation Modelling. FW4140, 24 students, Michigan Tech University, spring semester, 2011.
- Froese, R.E. 2011. Integrated Forest Inventory and Data Analysis. FW5032, 4 students, Michigan Tech University, spring semester, 2011.
- Froese, R.E. 2010. Sustainable Biomass. FW5413, 5 students, Michigan Tech University, fall semester, 2010.
- Froese, R.E. 2010. Inventory, Modelling and Data Analysis. FW3200, 49 students, Michigan Tech University, spring semester, 2010.
- Froese, R.E. 2010. Vegetation Modelling. FW4140, 22 students, Michigan Tech University, spring semester, 2010.
- Froese, R.E. 2010. Integrated Forest Inventory and Data Analysis. FW5032, 7 students, Michigan Tech University, spring semester, 2010.
- Froese, R.E. 2010. Applied Regression Analysis. FW5411, 17 students, Michigan Tech University, spring semester, 2010.
- Froese, R.E. 2010. Regression with the R Environment for Statistical Computing. FW5412, 11 students, Michigan Tech University, spring semester, 2010.

- Froese, R.E. 2009. Inventory, Modelling and Data Analysis. FW3200, 41 students, Michigan Tech University, spring semester, 2009.
- Froese, R.E. 2009. Vegetation Modelling. FW4140, 23 students, Michigan Tech University, spring semester, 2009.
- Froese, R.E. 2009. Integrated Forest Inventory and Data Analysis. FW5032, 5 students, Michigan Tech University, spring semester, 2009.
- Froese, R.E. 2009. Applied Regression Analysis. FW5411, 25 students, Michigan Tech University, spring semester, 2009.
- Froese, R.E. 2009. Regression with the R Environment for Statistical Computing. FW5412, 20 students, Michigan Tech University, spring semester, 2009.
- Froese, R.E. 2008. Inventory, Modelling and Data Analysis. FW3200, 42 students, Michigan Tech University, spring semester, 2008.
- Froese, R.E. 2008. Integrated Forest Inventory and Data Analysis. FW5032, 3 students, Michigan Tech University, spring semester, 2008.
- Froese, R.E. 2008. Vegetation Modelling. FW4140, 25 students, Michigan Tech University, spring semester, 2008.
- Froese, R.E. 2007. Biometrics. FW4130, 72 students, Michigan Tech University, spring semester, 2007.
- Froese, R.E. 2007. Vegetation Modelling. FW4140, 21 students, Michigan Tech University, spring semester, 2007.
- Froese, R.E. 2006. Applied Regression Analysis. FW5411, 14 students, Michigan Tech University, fall semester, 2006.
- Froese, R.E. 2006. Regression with the R Environment for Statistical Computing. FW5412, 12 students, Michigan Tech University, fall semester, 2006.
- Froese, R.E. 2006. Graduate Seminar. FW5800/6800, 15 students, Michigan Tech University, fall semester, 2006.
- Froese, R.E. 2006. Biometrics. FW4130, 34 students, Michigan Tech University, spring semester, 2006.
- Froese, R.E. 2006. Vegetation Modelling. FW4140, 19 students, Michigan Tech University, spring semester, 2006.
- Froese, R.E. 2005. Graduate Seminar. FW5800/6800, 8 students, Michigan Tech University, fall semester, 2005.
- Froese, R.E. 2005 Biometrics. FW4130, 26 students, Michigan Tech University, spring semester, 2005.
- Froese, R.E. 2005 Vegetation Modelling. FW4140, 19 students, Michigan Tech University, spring semester, 2005.
- Froese, R.E. 2005. Applied Regression Analysis. FW5411, 12 students, Michigan Tech University, spring semester, 2005.
- Froese, R.E. 2004. Graduate Seminar. FW5800/6800, 18 students, Michigan Tech University, fall semester, 2004.
- Froese, R.E. 2004. Biometrics. FW4130, 28 students, Michigan Tech University, spring semester, 2004.
- Froese, R.E. 2004. Vegetation Modelling. FW4140, 16 students, Michigan Tech University, spring semester, 2004.
- Froese, R.E. 1999. Integrated Resources Management II. FRST452, 152 students, University of British Columbia, spring semester, 1999.
- Froese, R.E. 1998. Introduction to Forestry II. FRST300, 28 students, University of British Columbia, spring semester, 1998.

MEDIA COVERAGE

- Daily Mining Gazette**, Houghton, *Forest Science* paper with PhD student Nan Pond on silviculture in northern hardwoods was featured in this article 05-30-2014
- Daily Mining Gazette**, Houghton, interviewed for an article about a recent study in *Nature* about carbon sequestration in large trees 01-24-2014
- Daily Mining Gazette**, Houghton, quoted in the article covering my presentation to the Michigan DNR Citizen's Advisory Council on sustainable forestry in Michigan 09-12-2011
- The Alpena News**, my energy crop research with Wolverine Power featured in the article "Biomass research meeting hopes" 05-06-2010
- The Michigan Messenger**, research for Traverse City Light and Power is quoted in this posting critical of biomass energy 02/08/2010
- Interlochen Public Radio**, Traverse City, interviewed for a radio broadcast on the sustainability of biomass for energy in Michigan 01/25/2010
- Traverse City Record Eagle**, my biomass research was featured in the article <http://record-eagle.com/local/x220123076/TCL-P-seeks-feedback-on-biomass-plant> 01/20/2010
- The Michigan Land Use Institute**, the biomass assessment for Traverse City Light and Power is featured; see <http://www.mlui.org/landwater/fullarticle.asp?fileid=17406> 01/20/2010
- Michigan Public Radio**, Marquette, interviewed about the Michigan Tech – Michigan State research partnership featuring my sustainable biomass research 11-23-2009
- Daily Mining Gazette**, Houghton, quoted in the front-page article "Michigan Tech part of ethanol plant effort" featuring my sustainable biomass research 11-13-2009
- WULC-TV NBC 6**, Marquette, featured in a story about the Michigan Tech – Michigan State research partnership featuring my sustainable biomass research 11-12-2009
- The State News**, East Lansing, quoted in the article "MSU researchers to help create Mich. ethanol site" discussing the Frontier Renewable Resources Center of Energy Excellence 11-11-2009
- The Detroit Free Press**, interviewed for the article "Up North utilities are giving more of their attention to renewable energy", featuring several of my biomass research projects 05-31-2009
- Walden University College of Management and Technology**, interviewed for the article "The race to commercialize cellulosic ethanol" 05-30-2009
- The Presque Isle County Advance**, research covered in the front-page article "Wolverine leaders confident of gaining DEQ approval" 04-30-2009
- The Presque Isle County Advance**, research featured in the front-page article "Professor says underutilized ag lands could be used to grow biomass for power plant" 04-29-2009
- The Alpena News**, biomass research featured in the article "Wolverine continuing biomass study in Presque Isle County" 04-09-2009
- The Mining Journal**, quoted in the front-page article "Expert: U.P. prime area for biomass production", by M. Moeller, as part of the series "Living Green" 11-21-2008
- Michigan Public Radio**, Marquette, interview on my research with my doctoral student C.A. Miller about energy crop production and carbon sequestration on idle ag lands 11-14-2008
- Daily Mining Gazette**, quoted in the front-page article "Exploring bioenergy crop potential", by L. Aslani, which featured research by my doctoral student C.A. Miller 11-4-2008

- Renewable Energy World**, quoted in the article “Michigan utility and MTU join forces to study biomass-powered electricity”, available at <http://www.renewableenergyworld.com/rea/news/story?id=53915> 11-2-2008
- The E-Forester**, quoted in the article “Michigan Tech teams with Wolverine Power Cooperative on biomass energy research”, published by the Society of American Foresters 11-2-2008
- Michigan Energy Report**, quoted in the article “Michigan Tech, Wolverine Power team up on biomass power study”, published by Michigan nonprofit NextEnergy 10-29-2008
- Michigan Public Radio**, Marquette, interview on the Michigan Tech research involving biomass feedstock production for bioenergy applications in electricity and ethanol fuels 10-20-2008
- Scientific Centric**, quoted in the article “Clean energy from biomass shows promise”, available at <http://www.sciencecentric.com/news/article.php?q=08101918> 10-19-2008
- Great Lakes IT Report**, quoted in the article “Michigan Tech, Wolverine Power team up in biomass energy research”, available at <http://www.wwj.com/Michigan-Tech--Wolverine-Power-Team-Up-In-Biomass-/3163145> 10-19-2008
- WBUP-TV ABC 5&10**, Marquette, interviewed in the story about biomass harvest demonstration workshops for the Biomass Restoration and Development Network of the UP 9-19-2008
- WBUP-TV ABC 5&10**, Marquette, interviewed in the story about the 1st Michigan Center of Energy Excellence project with the Mascoma Corporation 7-30-2008
- Presque Isle County Advance**, quoted in the article “Planning commission approves Wolverine’s request on biomass”, by R. Lamb 5-22-2008
- Presque Isle County Advance**, quoted in the article “Wolverine works with Michigan Tech on biomass testing near Onaway”, by R. Lamb 5-15-2008
- The New York Times**, interviewed for the article “Worry in Michigan as forests change hands”, by K. Schneider, which featured my research sponsored by People and Land 1-16-2008
- Michigan Public Radio**, Detroit, interview on Michigan Tech research involving corporate land ownership with National Wildlife Federation, sponsored by People and Land 12-13-2007
- Daily Mining Gazette**, Houghton, quoted in the front-page article “Forest ownership may change”, which featured my research sponsored by People and Land 12-13-2007
- Associated Press**, quoted in the article “New ownership may signal change for U.P. forests, researchers say”, by J. Flesher. Carried widely, including **Lansing State Journal, WILX-TV Lansing, Businessweek, CNBC.com, Canadian Business Online, Battle Creek Enquirer**, and **WOOD-TV Grand Rapids**. Featured Michigan Tech and my research sponsored by People and Land. 12-12-2007
- Detroit Free Press**, quoted in the article “Forest sales may tame UP’s wilderness”, by T. Lamb, which featured Michigan Tech and my research sponsored by People and Land 12-12-2007
- WLUC-TV NBC 6**, Marquette, interviewed for a story about corporate land ownership change that featured my research sponsored by People and Land 6-20-2007
- WBUP-TV ABC 5&10**, Marquette, interviewed in a story that featured my research sponsored by People and Land 6-20-2007