ROBERT E. FROESE

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PROFESSIONAL APPOINTMENS AND EMPLOYMENT

University of Alberta, Edmonton, AB, Canada 2021 – present
Professor and Endowed Chair in Forest Growth & Yield (2023-present)
Associate Professor and Endowed Chair in Forest Growth & Yield (2021-23)

Forest Growth Organization of Western Canada, Hinton, AB, Canada 2023 – present
Executive Director (contract appointment through Taganov Forest Resources Inc.)

Taganov Forest Resources Inc, AB, Canada 2025 – present
President and Principal Consultant

Michigan Technological University, Houghton, MI, USA 2003 – 2021
Professor, College of Forest Resources and Environmental Science (2021)
Director, Ford Center and Forest (2018-21)
Coordinator of Forest Planning and Research, Ford Forest (2015-18)
Associate Professor, School of Forest Resources and Environmental Science (2009-21)
Assistant Professor, School of Forest Resources and Environmental Science (2003-09)

J.S. Thrower and Associates, Ltd., Vancouver, BC, Canada 1998 – 1999
Analyst, Silviculture, Growth and Yield, and Biometrics

PROFESSIONAL ACCREDITATION

Registered Professional Forester No. 2098 2021 – present
Association of Alberta Forest Management Professionals
Registered Professional Forester No. 3531 (on leave of absence) 1995 – present
Forest Professionals British Columbia
Certified Forester, Society of American Foresters 2012 – present

EDUCATION

University of Idaho: PhD in Forestry, Wildlife and Range Sciences 2003
Dissertation: "Re-engineering the Prognosis basal area increment model for the Inland Empire" Advisor: A.P. Robinson
University of British Columbia: Master of Forestry 2000
Thesis: "Modelling juvenile height in mixed species, even aged interior cedar-hemlock stands" Advisor: P.L. Marshall
University of British Columbia: Bachelor of Science in Forestry 1995
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

* a student in my lab or under my supervision.

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

MENTEE AWARDS (since 2022)

2025 – Santosh Ayer – Desmond I. Crossley Memorial Scholarship
2025 – Lucille Wang – William H McCardell Memorial Scholarship
2024 – Fergus McSween – GPS Graduate Student Elevation Award
2024 – Santosh Ayer – University of Alberta Graduate Recruitment Scholarship
2022 – Ergin Cankaya – University of Alberta Graduate Recruitment Scholarship

PUBLICATIONS

IN REVIEW

51. Ayer, S., K.P. Bhatta, T. Maraseni, and R.E. Froese. A global bibliometric analysis of forest growth and yield modelling reveals conceptual continuity amid methodological diversification and expanding applications. Submitted to *Trees, Forests and People*.

IN PRINT

50. Clayton, M.V., B.D. Pinno, S.F. Wilson, R.E. Froese, E.B. Searle, and F. Wayne Bell. Forest structural responses to site characteristics and silvicultural intensity shape caribou habitat suitability in stands of Ontario's boreal forest. *Forest Ecology and Management* 623:124361. https://doi.org/10.1016/j.foreco.2026.124361.
49. Solarik, K.A. et al. DIVERSE: Implementing the Functional Complex Network Approach alongside Climate-Smart Forestry Across Canada. *Forestry Chronicle* 102(2):1-16
48. Holly Lynn Munro; Christopher W. Woodall; William R.L. Anderegg; Jeff W. Atkins; Colin M. Beier; Bronson P. Bullock; Kendall DeLyser; David D. Diaz; Bianca Eskelson; Margaret E.K. Evans; John D. Foppert; Bryan C. Foster; Tom R. Fox; Jereme M. Frank; Robert E. Froese; George C. Gaines III; Peter Gould; Temesgen Hailemariam; Edie Sonne Hall; Katherine A. Heckman; Eileen H. Helmer; J. Aaron Hogan; Coeli M. Hoover; Stephen M. Kinane; David W. MacFarlane; Lara T. Murray; Gregory Paradis; Krishna P. Poudel; Stephen P. Prisley; James L. Rakestraw; Hector Restrepo; Ajay Sharma; John D. Shaw; Erin Smith-Mateja; Curtis L. VanderSchaaf; Can Vatandaslar; Aaron R. Weiskittel; Sheng-I Yang. 2025. Forest modeling at the forefront: Complexities of carbon modeling and ecosystem dynamics. *Journal of Forestry* 123:703–734. https://doi.org/10.1007/s44392-025-00048-7.

47. Kafle, A., B.D. Pinno, and R.E. Froese. 2025. Commercial thinning and nitrogen fertilization increases merchantability in 68-year-old lodgepole pine: 20-year results. *Canadian Journal of Forest Research* 55:1-9. http://dx.doi.org/10.1139/cjfr-2024-0091.
46. Sperling, A.J., B.D. Pinno and R.E. Froese. 2025. Pre-commercial thinning in boreal mixedwoods increases temperature extremes without affecting extreme soil moisture values. *Scandinavian Journal of Forest Research* 40:85–94. https://doi.org/10.1080/02827581.2025.2466605.
45. *Bassil, S., R.E. Froese, and B.D. Pinno. 2025. Little recovery of the residual stand after mountain pine beetle disturbance in old stands in the northern Rocky Mountains, Alberta, Canada. *Forest Ecology and Management* 576:122408. https://doi.org/10.1016/j.foreco.2024.122408.
44. *Ara, M., B.D. Pinno, R.E. Froese, and F. Scaria. 2024. Precommercial thinning but not commercial thinning increases the merchantable and large sawlog volume production of lodgepole pine on a fair site. *Forest Science* 70:376-384. https://doi.org/10.1093/forsci/fxae025.
43. *Rice, A.C. and R.E. Froese. 2024. Incorporating climate adaptation into a forest management plan: a case study on the research and teaching forest of Michigan Technological University. *Forest Science* 70(3):215-227. https://doi.org/10.1093/forsci/fxae012.
42. Bartlick, C.I., J.I Burton, C.R. Webster, R.E. Froese and Y.L. Dickinson. 2023. An experimental approach to identify drivers of tree regeneration diversity, composition, and heterogeneity in northern hardwood forests. *Forest Ecology and Management* 546:121320. https://doi.org/10.1016/j.foreco.2023.121320.
41. Premer, M.I., N.S. Rogers, and R.E. Froese. 2023. Long-term stability of northern hardwoods across a topographic gradient and variation in harvest methods. *Canadian Journal of Forest Research*. https://doi.org/10.1139/cjfr-2023-0014.
40. Bartlick, C.I., J.I. Burton, C.R. Webster, R.E. Froese, S.F. Hupperts, and Y.L. Dickinson. 2023. Artificial tip-up mounds influence tree seedling composition in a managed northern hardwood forest. *Canadian Journal of Forest Research*. https://doi.org/10.1139/cjfr-2022-0252.
39. Webster, C.R., Y.L. Dickinson, and R.E. Froese. 2023. Introducing the NH-SEED: A Holistic Experiment to Revisit Classical and Test Novel Silvicultural Systems in a Changing World. In: Kern, C.C. and Y.L. Dickinson, eds. Proceedings of the first biennial Northern Hardwood Conference 2021: Bridging science and management for the future. *Gen. Tech. Rep. NRS-P-211. Madison, WI: U.S. Department of Agriculture, Forest Service, Northern Research Station: 131–135.* https://doi.org/10.2737/NRS-GTR-P-211-paper27.
38. Bartlick, C.I., R.E. Froese, C.R. Webster, and Y.L. Dickinson. 2023. Early Vegetation Responses to Canopy and Soil Disturbances. *In:* Kern, C.C. and Y.L. Dickinson, eds. Proceedings of the first biennial Northern Hardwood Conference 2021: Bridging science and management for the future. *Gen. Tech. Rep. NRS-P-211. Madison, WI: U.S. Department of Agriculture, Forest Service, Northern Research Station: 28–31*. https://doi. org/10.2737/NRS-GTR-P-211-paper7.
37. *Ara, M., B.D. Pinno, F. Scaria, R.E. Froese, and M. Bokalo. 2023. Thinning increases individual tree growth while reducing the growth heterogeneity of lodgepole pine. *Forestry* 14(6):1091. https://doi.org/10.3390/f14061091.
36. An, Z., and R.E. Froese. 2023. Tree stem volume estimation from terrestrial LiDAR point cloud by unwrapping. *Canadian Journal of Forest Research* 53:60-70. https://doi.org/10.1139/cjfr-2022-0153.

35. Monahan, W.B., C.E. Arnspiger, P. Bhatt, Z. An., F.J. Krist, Jr., T. Liu, R.P. Richard, C. Edson, R.E. Froese, J. Steffenson, T.C. Lammers, and R. Frosh. 2022. A spectral three-dimensional color space model of tree crown health. *PLOS ONE* 17(10):e0272360. https://doi.org/10.1371/journal.pone.0272360.
34. Hupperts, S.F., C.R. Webster, R.E. Froese, B. Bal, and Y.L. Dickinson. 2022. Influence of strip clearcuts, deer exclusion and herbicide on intital sapling recruitment in northern hardwood forests. *Forests* 13:1149. https://doi.org/10.3390/f13071149.
33. *Premer, M.I and R.E. Froese. 2022. The recurring role of site challenges assumptions about regeneration under selection systems in northern hardwoods. *Canadian Journal of Forest Research* 52(4):463-473. http://dx.doi.org/10.1139/cjfr-2021-0179.
32. *Draper, M.C., C.C. Kern, and R.E. Froese. 2021. Growth, yield, and financial return through six decades of various management approaches in a second-growth northern hardwood forest. *Forest Ecology and Management* 499:119633. https://doi.org/10.1016/j.foreco.2021.119633.
31. *Draper, M.C. and R.E. Froese. 2021. Six decades of growth and yield and financial return in a silviculture experiment in northern hardwoods. *Forest Science* 67(5): 607-617. https://doi.org/10.1093/forsci/fxab024. **Selected for Editor's Choice, October 2021 Issue.**
30. *Deng, C., S. Zhang, Y. Lu, R.E. Froese, J. Zheng, A. Ming, X. Liu, Y. Xie, and Q. Li. 2020. Thinning effects on forest evolution in Masson pine (*Pinus massoniana* Lamb.) conversion from pure plantations to mixed forests. *Forest Ecology and Management* 477:118503. doi: 10.1016/j.foreco.2020.118503.
29. Hupperts, S.F., C.R. Webster, R.E. Froese, E.A. Lilleskov, A.M. Marcarelli, and Y.L. Dickinson. 2020. Increasing ground-layer plant taxonomic diversity masks declining phylogenetic diversity along a forest disturbance severity gradient. *Canadian Journal of Forest Research*. 50(12):1259-1267. doi: 10.1139/cjfr-2020-0055. **Selected for Editors' Choice, 14 May 2021** (see https://cdnsciencepub.com/do/10.1139/news.2021.05.14/full/)
28. *Deng, C., R.E. Froese, S. Zhang, Y. Lu, X. Xu, and Q. Li. 2020. Development of improved and comprehensive growth and yield models for genetically improved stands. *Annals of Forest Science* 77:89. doi: 10.1007/s13595-020-00995-5.
27. Hupperts, S.F., C.R. Webster, R.E. Froese, and Y.L. Dickinson. 2020. Seedling and sapling recruitment following novel silvicultural treatments in Great Lakes northern hardwoods. *Forest Ecology and Management*. 462: 117983. doi: 10.1016/j.foreco.2020.117983.
26. *Deng, C., S. Zhang, Y. Lu, R.E. Froese, A. Ming, and Q. Li. 2019. Thinning effects on the tree height-diameter allometry of Masson pine (*Pinus massoniana* Lamb.). *Forests*. doi: 10.3390/f10121129.
25. *Premer, M.I., R.E. Froese and E.D. Vance. 2019. Whole-tree harvest and residue recovery in commercial aspen: Implications to forest growth and soil productivity across a rotation. *Forest Ecology and Management* 447:130-138. doi: 10.1016/j.foreco.2019.05.002.
24. *Premer, M.I. and R.E. Froese. 2018. Incidental effects of cut-to-length harvest systems and residue management on *Populus tremuloides* (Michx.) regeneration and yield. *Forest Science* 64(4):442-451. doi: 10.1093/forsci/fxx019.
23. *Deo, R.K., R.E. Froese, M.J. Falkowski and A.T. Hudak. 2016. Optimizing variable radius plot size and LiDAR resolution to model standing volume in conifer forests. *Canadian Journal of Remote Sensing* 42(5):428-442. doi: 10.1080/07038992.2016.1220826.

22. *Premer, M.I., R.E. Froese, C.R. Webster and L.M. Nagel. 2016. Vegetation response to logging residue removals in Great Lakes aspen forests: Long-term trends under operational management. *Forest Ecology and Management* 382:257-268. doi: 10.1016/j.foreco.2016.09.048.
21. Sullivan, A.R., D.J. Flaspohler, R.E. Froese and D. Ford. 2016. Climate variability and the timing of spring raptor migration in eastern North America. *Journal of Avian Ecology* 47: 208-218. doi: 10.1111/jav.00692.
20. Zhang, F., D.M. Johnson, M.T. Johnson, D.M. Watkins, R.E. Froese, and J. Wang. 2016. Decision support system integrating GIS with simulation and optimization for a biofuel supply chain. *Renewable Energy* 85:740-748. doi: 10.1016/j.renene.2015.07.041.
19. *Antón-Fernández, C. and R. E. Froese. 2015. An improved estimator for the sampling error of local competition variables. *Canadian Journal of Forest Research* 45(12): 1860-1865. doi: 10.1139/cjfr-2015-0162.
18. *Pond, N.C. and R.E. Froese. 2015. Interpreting stand structure through diameter distributions. *Forest Science* 61(3):429-437. doi: 10.5849/forsci.14-056.
17. Banskota, A., N. Kayastha, M.J. Falkowski, M.A. Wulder, R.E. Froese and J.C. White. 2015. Forest monitoring using Landsat time-series data – A review. *Canadian Journal of Remote Sensing 40:362-384*. doi: 10.1080/07038992.2014.987376.
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*. doi: 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*. doi: 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*. doi: 10.2136/sssaj2013.08.0323.
13. *Pond, N.C., R.E. Froese, *R.K. Deo and M.J. Falkowksi. 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*. doi: 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*. doi: 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*. doi: 10.1139/Z2012-065.
10. Barnes, D., R.E. Froese, R.G. Mannes and B. Warner. 2011. Combined sustainable biomass feedstock combustion, CO_2/EOR, and saline reservoir geological carbon sequestration in Northern Lower Michigan, USA: towards negative CO_2 emissions. *Energy Procedia*, 4:2955-2962. doi: 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*. doi: 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*. doi: 10.1504/IJEE.2009.027984.

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*. doi: 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*. doi: 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*. doi: 10.1002/tqem.20194.
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

52. Department of Renewable Resources (R.E. Froese, one of several co-authors). 2022. Questionnaire for review and evaluation of degree programs in Forestry (B.Sc. in Forestry and Forest Business Management). Prepared for Canadian Forestry Accreditation Board. 398 pp.
51. Department of Renewable Resources (R.E. Froese, one of several co-authors). 2022. Questionnaire for review and evaluation of degree programs in Forestry (M.F. in Forestry). Prepared for Canadian Forestry Accreditation Board. 181 pp.
50. Froese, R.E. and K.J. Stadt. 2022. Upper Foothills Mountain Pine Beetle Permanent Sample Plot Network. Final Report. Submitted to fRI Research. 3 pp.
49. Froese, R.E. and K.J. Stadt. 2022. First Results: Permanent Sample Plot Monitoring Program for Upper Foothills Beetle-Attacked Stands. fRI Research Quicknote. 2 pp.
48. Froese, R.E. 2021. FGrOW needs analysis results and synthesis. Report to Forest Growth Organization of Western Canada. 9 pp.
47. Froese, R.E. 2021. Review of the DADE (Dynamic Aspen Density Experiment) Experiment. Submitted to Forest Growth Organization of Western Canada. 8 pp.
46. Froese, R.E. 2021. Mixedwood regeneration model pre-feasibility study. Final Report. Submitted to Forest Growth Organization of Western Canada. 29 pp.

45. Froese, R.E. 2020. Empirical Post-Harvest (EPH) assessment: Stand succession and growth. Final report. Submitted to the Forest Growth Organization of Western Canada. 97 pp.
44. Froese, R.E. 2020. Next-generation modelling strategies for reforested areas in northern forest types. Sabbatical leave report submitted to the Michigan Technological University Sabbatical Leave Committee. 5 pp.
43. Froese, R.E. 2019. Intensive silviculture for Lake States poplar: Final report. Submitted to USDA McIntire-Stennis. 6 pp.
42. Froese, R.E. 2018. Alberta RSA Performance Survey error propagation project: Project report. Submitted to the Alberta Ministry of Agriculture and Forestry. 13 pp.
41. Vrana, K.J., Froese, R.E. and A.J. Storer. 2017. The Ford Center and Forest: field campus of the School of Forest Resources and Environmental Science, Business Plan for 2018 – 2023. Submitted to Michigan Technological University. 44 pp.
40. Navarro, J., R. Meilan, H.D., Sutherland, J.W., Froese, R.E., Gower, S.T., Grusheky, S.T., Karsten, H.D., Krakina, O.N. and Lal, R. 2014. An overview of carbon storage and utility for various types of agricultural biomass – Indiana. Purdue University, West Lafayette, IN. Available at: http://tinyurl.com/omghq6n.
39. Froese, R.E. 2014. A carbon budget for herbaceous openland conversion to forest bioenergy crops: Final report. Submitted to USDA McIntire-Stennis. 6 pp.
38. *Deo, R.K. and R.E. Froese. 2013. Refitting the large-tree diameter growth equations of the Lake States and Central States variants of the Forest Vegetation Simulator. Submitted to USDA Forest Service, Rocky Mountain Research Station. 62 p.
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.*
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. 2006. 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

Froese, R.E. Growth and Yield Model Development for the Western Boreal and Rocky Mountain Forests. $5,868,376, 2025-34 (*West Fraser Mills Ltd. $4,857,929; Forest Growth Organization of Western Canada $559,447; Government of Saskatchewan $392,000*).

Froese, R.E. Aspen Dieback Post-Harvest Regeneration Project. West Fraser Mills Ltd., 2024-28, $165,000.

Froese, R.E. Universal Protocol for Silviculture TreAtment Research Trials (UPSTART). Forest Growth Organization of Western Canada, 2023-24. $45,600.

Schoonmaker, A., Baah-Acheamfour, M., Froese, R.E., and Pinno, B.D. Managing for multiple forest values: a case study of forest management approaches to increasing vegetation community heterogeneity at the stand-level. NSERC, 2023-27, $507,000.

Froese, R.E. Senior Forest Resource Analyst. Forest Growth Organization of Western Canada, 2023-25, $361,542.

Froese, R.E. Assessing treatment response and modelling regeneration in mixedwoods. Forest Growth Association of Western Canada, 2022-27, $310,020.

Froese, R.E. Comparison of GYPSY and MGM21 growth and yield models. Forest Growth Association of Western Canada, 2022-25, $86,840.

Pinno, B.D. and R.E. Froese. Impacts of pre-commercial thinning of boreal mixedwoods. Vanderwell Contractors (1971) Ltd., 2022-2030, $351,000.

Froese, R.E. Mountain pine beetle enhanced forest monitoring. Forest Growth Association of Western Canada, 2022-25, $769,852.

Froese, R.E. and B.D. Pinno. Glyphosate residual trend in reforested stands. West Fraser Timber, Ltd., 2022-25, $356,104.

Froese, R.E. Enhanced forest management prediction modelling strategy and evaluation. 2022-25. $134,675.

Froese, R.E. Enhanced forest management growth and yield assessment and monitoring. Forest Growth Organization of Western Canada, 2022-27, $326,280.

Dickinson, Y.L., R.E. Froese and C.R. Webster. Novel timber production system to protect productivity and sustainability of northern hardwoods in the North Central region. *USDA Agriculture and Food Research Initiative*, 2017-23, $500,000.

COMPLETED

Froese, R.E. Western Boreal Mixedwood Growth and Yield Cooperative, 2023-24. Forest Growth Association of Western Canada, 2023-24, $152,288.

Froese, R.E. Upper Foothills mountain pine beetle enhanced forest monitoring permanent sample plots. fRI Research, 2022-24, $40,000.

Froese, R.E. Assessing 65 years of growth and yield from single-tree selection cuttings at the cutting methods study, Argonne Experimental Forest. *USDA Forest Service*, 2019-2022, $33,120.

Froese, R.E. Synthesizing 70 years of growth and yield and financial return from cutting methods studies in the northern hardwood region. *Michigan SFI Implementation Committee*, 2019-2021, $33,000.

Froese, R.E. Student remote sensing support of satellite detection surveys. USDA Forest Service, 2018-2021, $80,000.

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 xeric jack pine forests of the Lake States Region. *USDA Agriculture and Food Research Initiative*, 2015-21, $500,000.

Froese, R.E. Collection and processing of terrestrial LiDAR data from the Bourdo cutting trial at the Ford Forest. Ecosystem Science Center, Michigan Technological University. $7,000.

Froese, R.E. Exploring the fundamental relationship between individual-tree and stand level forest growth model structures and performance in managed stands. *Sabbatical Leave Proposal, Michigan Technological University*, 2018 (one semester paid leave).

Froese, R.E. Verification of original regional State Forest Management Plan partial harvest model error, and associated corrections in the new forecast model. *Michigan Department of Natural Resources*, 2017-18, $2,498.

Froese, R.E. Intensive Silviculture for Lake States Poplar. *USDA McIntire-Stennis*, 2014-2018, $32,760.

Froese, R.E. National Woodland Owner Survey Analytical and Outreach Support. *USDA Forest Service, Northern Research Station*, 2016-2018, $38,750.

Burton, A.J., J.W. Wagenbrenner, R.A. Chimner, R.E. Froese, C.R. Webster and C.J. Huckins. Precise and Efficient Position Data Acquisition for Forests Streams and Wetlands. *Michigan Technological University, Research Excellence Funds – Infrastructure Enhancement*, 2016-2017, $13,835.

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*, 2012-2017, $1,800,000.

Burton, A.J., Dickinson, Y.L., Wagenbrenner, J.W., Marcarelli, A.M., and Froese, R.E. Remote data acquisition from forests, streams and wildlife for research and instruction. *Michigan Technological University, Research Excellence Funds – Infrastructure Enhancement*, 2015-2017, $55,527.

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.

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.*, 2010-2015, $77,107.

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.

Froese, R.E., 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.

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.

CONSULTING

Taganov Forest Resources Inc. 2025 – present. President and Principal Consultant. Forestry consulting services specializing in forest growth and yield, forest biometrics, applied forest research, and remote sensing. Current engagements include executive management services for the Forest Growth Organization of Western Canada.

Forest Growth Organization of Western Canada. 2021. Empirical Post-Harvest Project.

Forest Growth Organization of Western Canada. 2020-21. Mixedwood regeneration model pre-feasibility assessment.

Province of Alberta, Edmonton, AB Canada. 2018. Error propagation model for the provincial Regeneration Survey Assessment program.

Froese Forestry Consulting, Inc., Edmonton, AB Canada. 2013-2015. Growth and yield, growth modelling, site index, and inventory support projects. *Note: FFC was an Alberta corporation operated by my sister, Katrina. Froese. I assisted on some projects under subcontract.*

Consumers Energy Company, Cadillac, MI, USA. 2010. Biomass supply and cost assessment for purpose grown and native forest feedstocks in Michigan.

University of Guelph, Guelph, ON, Canada. 2004. Statistical analysis for ginseng agroforestry project in northern hardwoods.

J.S. Thrower and Associates, Ltd., Kamloops, BC., Canada. 2002. Growth and yield, applied silviculture research design, growth modelling, and issue analysis.

ORAL PRESENTATIONS - INVITED

Yang, S., Panes, B., and R.E. Froese. 2025. Comparison of GYPSY and MGM Model Performance. *Forest Growth Organization of Western Canada Seminar Series, March 28, 2025* (online; invited).

*Bassil, S., R. Froese and B. Pinno. 2024. How are pine stands developing in the 15-years after mountain pine beetle attack? *Alberta School of Forest Science and Management, October 10, 2024 at Edmonton, AB* (invited).

Froese, R.E., Yang, S., and Panes, B. 2024. Performance of the GYPSY and MGM growth and yield models in Alberta. *Forest Growth Organization of Western Canada Seminar Series, March 15, 2024* (online; invited).

Froese, R.E., Yang, S. and Panes, B. 2024. Comparing forest growth and yield models in Alberta. Seminar jointly sponsored by the *Alberta School of Forest Science and Management and the Canadian Institute of Forestry – Rocky Mountain Section, April 4, 2023, at Edmonton, AB* (invited).

Froese, R.E. 2023. Panel Discussion: The future of remote sensing in forest management. *Society of American Foresters Annual Convention, October 25-28, 2023, at Sacramento, CA* (invited).

Froese, R.E. 2022. Panel Discussion (Moderator, R.E. Froese): Climate change in growth models – current status and opportunities for future research and development. *Society of American Foresters Annual Convention, September 20-24, 2022, at Baltimore, MD* (invited).

*Draper, M.C. and R.E. Froese. 2022. Six decades of growth, yield, and financial return in a silviculture experiment in northern hardwoods. *Michigan Association of Consulting Foresters Conference, February 7-8, 2022, at Grayling, MI* (invited).

Froese, R.E. 2021. Mixedwood growth and yield modelling. *Association of Saskatchewan Forestry Professionals Mixedwood Management Workshop, October 28, 2021* (invited).

*Draper, M., R. Froese, and C. Kern. 2021. Evaluating long-term growth, yield, and financial return in upper Great Lakes region northern hardwoods cutting trials. *Michigan Society of American Foresters Fall Conference, September 30-October 1, 2021 at Harris, MI* (invited).

Froese, R.E. 2021. Mixedwood regeneration modelling pre-feasibility study. *Forest Growth Organization of Western Canada Fall 2021 Webinar Series, September 10, 2021* (invited).

*Draper, M., R. Froese, and C. Kern. 2021. Evaluating long-term growth, yield, and financial return in upper Great Lakes region northern hardwoods cutting trials. *Wisconsin Sustainable Forestry Initiative Implementation Committee Meeting, April 13, 2021* (invited; virtual due to COVID-19).

Froese, R.E. 2021. Surprising (and not so surprising) results from analysis of managed stand development as influenced by silviculture and other factors in Alberta: the Empirical Post-Harvest Project. *Forest Growth Organization of Western Canada Spring 2021 Webinar Series, February 26, 2021* (invited).

Froese, R.E. 2020. Increasing accuracy, efficiency, and utility of growth and yield systems in northern forest. *Department of Renewable Resources Invited Seminar, October 8, 2020 at Edmonton, AB* (invited).

Froese, R.E. 2019. Empirical Post Harvest Project - Update. *Forest Growth Organization of Western Canada Annual Business Meeting, October 10-11, 2019 at Whitecourt, AB* (invited).

Froese, R.E. 2019. Empirical Post Harvest stand development in Alberta. *Forest Growth Organization of Western Canada Annual General Meeting, April 15-16, 2019 at Edmonton, AB* (invited).

*Premer, M.I. and R.E. Froese. 2017. A Lake States chronosequence study of residue removal effects on aspen forests: implications for practices in the Pacific Northwest. *National Council for Air and Stream Improvement Western Regional Meeting, September 27, 2017 at Vancouver, WA* (invited).

Froese, R.E. 2017. Good data analyses start and end with data visualization. *Society of American Foresters National Convention, November 14-18, 2017 at Albuquerque, NM* (invited).

Froese, R.E. 2017. Forest types of the Upper Great Lakes Region and Ford Center and Forest. *Open World Leadership Center / The Nature Conservancy workshop, May 23, 2017 at Alberta, MI* (invited).

Froese, R.E. and *M.I. Premer. 2017. Residue removal effects on plant diversity and forest characteristics in aspen. *National Council for Air and Stream Improvement Northern Regional Meeting, May 2-4, 2017 at Wausau, WI* (invited).

Froese, R.E. 2015. Forest measurements in space and time. *Department of Forestry & Wildland Resources Invited Seminar, March 10, 2015 at Humboldt State University, Arcata, CA* (invited).

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* (invited).

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).

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).

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, 2011 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, 2011 at Hancock, MI* (invited).

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. 2006. Validating Wykoff's model: equivalence tests and spatial analysis. *Ontario Forest Research Institute, October 17, 2006 at Sault Ste. Marie, ON* (invited).

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. 2002. Re-Engineering the Prognosis basal area increment model for the Inland empire. *Michigan Technological University, September 10, 2002 at Houghton, MI* (invited).

Froese, R.E. 2002. FVS revised: the ultimate hybrid growth model? *Inland Northwest Growth and Yield Cooperative meeting, January 2002. Spokane, WA* (invited).

ORAL PRESENTATIONS – SUBMITTED

*Cankaya, E.C., R.E. Froese, G. Castilla, and C. Nock. ISCL: a new algorithm for individual tree detection from lidar point clouds. **Accepted** for *SilviLaser25 Conference, September 29-October 3, 2025, at Quebec City, QC.*

*Cankaya, E.C. and R.E. Froese. Comparison of multi-platform lidar sensors for efficient forest inventory. *Western Mensurationists Conference, June 15-17, 2025 at Moscow, ID* **(winner Best Student Speaker Award).**

*Bassil, S., R. Froese, and B. Pinno. Unmanaged lodgepole pine stands do not recover after mountain pine beetle attack. *Society of American Foresters National Convention, September 17-20, 2024 at Loveland, CO.*

Sperling, A., Pinno, B., and R.E. Froese. Pre-commercial thinning of boreal mixedwood affects site resource availability. *North American Forest Ecology Workshop 2024, June 24-27, at Asheville, NC.*

*Ara, M., R.E. Froese and B. Pinno. Growth and yield models of Alberta: Can they predict commercial thinning response? *Growth and Yield Innovations Conference 2023, June 18-21, 2023 at Canmore, AB.*

*Bassil, S., and R.E. Froese. Opportunities for long-term monitoring of mountain pine beetle effects using PSPs in Alberta. *Growth and Yield Innovations Conference 2023, June 18-21, 2023 at Canmore, AB.*

Froese, R.E. and *Z. An. Tree stem volume estimation from terrestrial LiDAR point cloud by unwrapping. *2nd North American Mensurationists Conference, December 11-14, 2022 at Portland, OR.*

Premer, M.I. and R.E. Froese. Stability of northern hardwood communities by topographic position challenges assumptions about selection regeneration systems. *Society of American Foresters National Convention, September 20-24, 2022 at Baltimore, MD.*

Bartlick, C., J.I. Burton, C.R. Webster, R.E. Froese, S.F. Hupperts and Y.L. Dickinson. Over the hump: effect of artificial tip-up mounts on tree seedling composition in a managed northern hardwood forest. *North American Forest Ecology Workshop, June 20-24, 2022 at Sault Ste Marie, Ontario* (virtual).

*Draper, M.C., C.C. Kern, and Robert E. Froese. Yield, quality, and financial return after 60 years of northern hardwood management, Argonne Experimental Forest. *Society of American Foresters National Convention, November 3-7, 2021 at Sacramento, CA.*

Webster, C.R., Y.L. Dickinson, and R.E. Froese. NH-SEED: a holistic experiment to revisit classical and test novel silvicultural systems in a changing world. *Northern Hardwood Conference 2021, June 15-16, 2021* (virtual due to COVID-19).

*Bartlick, C., Y. Dickinson, R. Froese and C.R. Webster. Initial regeneration and understory plant community responses to the NHSEED treatments. *Northern Hardwood Conference 2021, June 15-16, 2021* (virtual due to COVID-19).

*Draper, M.C. and R.E. Froese. Six decades of financial returns and stand dynamics in a silviculture experiment in northern hardwoods. *Society of American Foresters National Convention, October 29-31, 2020* (virtual due to COVID-19).

Bal, T., Y. Dickinson, R. Froese, M. Hyslop, M. Jarvi, J. Schmierer, C. Webster and J. Wolfe. Getting lost in the woods, emerging a professional: Field-based learning experiences bridge the forestry and natural resources professions. *Society of American Foresters National Convention, October 29-31, 2020* (virtual due to COVID-19).

Bal, T., Y. Dickinson, M. Hyslop, R. Froese (presenter), M. Jarvi, J. Schmierer, C. Webster, and J. Wolfe. 2020. Immersive field-based learning experiences bridge the natural resource

professions: Getting lost in the woods to emerge a professional. *13th Biennial Conference on University Education in Natural Resources, March 12-14, 2020 at Missoula, MT.*

*Premer, M.I. and R.E. Froese. 2018. Harvest residue recovery in commercial aspen: implications to rotation yield and soil productivity. *Society of American Foresters National Convention, October 2-7, 2018 at Portland, OR.*

*Rice, A. and R.E. Froese. 2018. A case study in climate change adaptation planning in northern forests. *Society of American Foresters National Convention, October 2-7, 2018 at Portland, OR.*

Hupperts, S.F., Y.L. Dickinson, C.R. Webster, and R.E. Froese. 2018. Environmental conditions mediate plant community composition following timber harvest. *Ecological Society of America National Convention, August 5-10, 2018 at New Orleans, LA.*

*Hillard, S.C. and R.E. Froese. 2018. Hybrid poplar stock type impacts height, dbh, and estimated total dry weight at eight years in a hybrid poplar plantation network at multiple sites. *2018 Woody Crops International Conference, July 22-23, 2018 at Rhinelander, WI.*

Froese, R.E. 2017. The selection of indifference intervals for equivalence tests. *Western Mensurationist Annual Meeting, June 19-20, 2017 at Vancouver, BC.*

*Deo, R.K., R.E. Froese and M.B. Russell. 2017. An evaluation of predicted site index in large-tree diameter growth modeling of selected tree species in the Great Lakes region. *5th Forest Vegetation Simulator Conference, February 28-March 2, 2017.*

Russell, M., *N.C. Pond and R.E. Froese. 2016. Past, present, and future trends in forest inventory and biometrics: a panel discussion. *Society of American Foresters National Convention, November 2-6, 2016 at Madison, WI.*

*Premer, M.I., R.E. Froese, C.R. Webster and L.M Nagel. 2016. Forest understory vegetation communities exhibit increased diversity and structural under residue removals. *Society of American Foresters National Convention, November 2-6, 2016 at Madison, WI.*

*Lehner, A.B. and R.E. Froese. 2016. Short-rotation jack pine management improves both net GHG impact and habitat for endangered Kirtland's warbler. *Society of American Foresters National Convention, November 2-6, 2016 at Madison, WI.*

Froese, R.E. and *S.C. Hillard. 2016. Tradeoffs for environmental sustainability: water yield and poplar yield when deploying biomass production in the Northern Great Lakes Region. *11th Biennial Short Rotation Woody Crops Operations Working Group Conference, October 11-13, 2016 at Fort Pierce, FL.*

Froese, R.E. and *M.I. Premer. 2015. Stand regeneration challenges with advances in harvesting technology. *Society of American Foresters National Convention, November 3-7, 2015 at Baton Rouge, LA.*

*Hillard, S.C. and R.E. Froese. 2015. Modelling poplar plantation deployment and impacts on hydrology of mixed forest/agriculture landscapes in northern Michigan. *9th Annual IALE World Congress, July 5-10, 2015 at Portland, OR.*

*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.*

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 Mensurationist Joint Meeting, October 7-9, 3013 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.*

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.*

Fan, J., D.R. Shonnard, R.E. Froese, and R. Handler. 2012. Use of a carbon budget model to calculate land use change greenhouse gas emissions associated with forest-based biofuels production in Michigan. *American Institute of Chemical Engineers Annual Meeting, October 28-November 2, 2012 at Pittsburgh, PA.*

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.*

Barnes, D., R. Froese, R. Mannes and B. Warner. 2010. Combined sustainable biomass feedstock combustion, CO_2/EOR, and saline reservoir carbon sequestration in Northern Lower Michigan, USA: towards negative CO_2 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., *C.A. Miller, L.A. Leefers and M.D. 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, 2007 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, 2007 at Newberry, Marquette and Houghton, MI.*

Froese, R.E. 2007. FVSCLIM: Prognosis re-engineered to incorporate climate variables. *Western Mensurationst 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 Mensurationst 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. 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. 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, 2001 at 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 Mensurationist Meeting, June 19-20, 2000. Whitefish, MT.*

POSTER PRESENTATIONS

*Bobey, S, R. Froese and B. Pinno. 2025. Glyphosate persistence and vegetation response in Alberta cut blocks. *Poster session at Forest Industry Lecture Series, March 6, 2025 at Edmonton, AB.*

*Cankaya, E.C. and R.E. Froese. 2025. Monitoring spatio-temporal changes in forest structure at a thinning site using lidar data. *Poster session at Forest Industry Lecture Series, March 6, 2025 at Edmonton, AB.* **(winner Audience Choice Award).**

Gautam, A., B.D. Pinno, and R.E. Froese. Assessing short-term growth responses of white spruce, trembling aspen, and paper birch to pre-commercial thinning (PCT) in boreal mixedwoods. *Poster session at Forest Industry Lecture Series, March 6, 2025 at Edmonton, AB.*

Okai Naa, L., B. Pinno, R. Froese, and A. Schoonmaker. 2025. Impact of pre-commercial thinning on tree resilience and water availability in lodgepole pine. *Poster session at Forest Industry Lecture Series, March 6, 2025 at Edmonton, AB.*

*Bobey, S., R. Froese and B. Pinno. 2024. Glyphosate persistence and vegetation response following herbicide application for reforestation in the Rocky Mountain foothills. *Society of American Foresters, September 17-20, 2024, at Loveland, CO.*

*Bartlick, C.I., C.R. Webster, J.I. Burton, R.E. Froese and Y.L. Dickinson. 2023. An experimental approach to identifying drivers of the ground-layer species assemblage in a managed Northern Hardwood Forest. *Ecological Society of America, August 6-11, 2023, at Portland, OR.*

*Bartlick, C.I., J. I Burton, C.R. Webster, R.E. Froese, and Y.L. Dickinson. 2022. An experimental approach to identifying process-limiting drivers of regeneration in a northern hardwood forest. *Society of American Foresters National Convention, September 20-24, 2022, at Baltimore, MD.*

*Bartlick, C.I., J. I Burton, C.R. Webster, R.E. Froese, S.F. Hupperts and Y.L. Dickinson. 2021. Over the hump: effect of artificial tip-up mounds on tree seedling composition in a managed northern hardwood forest. *North American Forest Ecology Workshop, June 20-24, 2022* (virtual due to COVID-19).

*Bartlick, C.I., R.E. Froese, C.R. Webster, and Y.L. Dickinson. 2021. Can natural disturbance-based harvest increase tree species diversity in a northern hardwood forest? *Ecological Society of America Annual Meeting, August 2-6, 2021* (virtual due to COVID-19).

*Draper, M., C. Kern, and R. Froese. 2021. Stand development and financial returns in northern hardwoods after six decades of partial cutting management. *Northern Hardwood Conference 2021, June 15-16, 2021* (virtual due to COVID-19).

WORKSHOPS AND ORGANIZED SESSIONS

Data Science for Forestry Applications with Forest Inventory and Analysis – Workshop organized by R.E. Froese and J. McCarter at the Society of American Foresters National Convention, October 17-20, 2024, at Loveland, CO.

Data Science for Forestry Applications – Workshop organized by R.E. Froese and J. McCarter at the Society of American Foresters National Convention, October 25-28, 2023, at Sacramento, CA.

Data Science for Forestry Applications – Workshop organized by M. Russell, N.C. Pond, and R.E. Froese at the Society of American Foresters National Convention, September 20-24, 2022, at Baltimore, MD.

Forestry Professionals Mixedwood Management Workshop – Organized by B. Pinno, C. Nock, and R.E. Froese for the Association of Saskatchewan Forestry Professionals, October 28, 2021.

Rethinking and Integrating Emerging Mensuration Technology – Session organized by J. Westfall, R.E. Froese, S. Patton and N. Osborne at the Society of American Foresters National Convention, October 29-31, 2020 (virtual due to COVID-19).

An Overview of NAIP Derived Point Clouds for Forest Monitoring – webinar presentation by J. Strunk (USDA For. Serv) organized by J. Westfall and R.E. Froese for the SAF A1 Inventory and Biometrics Working Group, September 15, 2020.

New Applications in Urban Forest Inventory and Biometrics – Session organized by M.Russell, R.E. Froese and J. Westfall at the Society of American Foresters National Convention, October 2-7, 2018 at Portland, OR.

Data Science for Forestry Professionals - Workshop organized by M. Russell, R.E. Froese, and N.C. Pond at the Society of American Foresters National Convention, October 2-7, 2018 at Portland, OR.

Data Visualization in Forest Science and Management – Session organized by M. Russell, R.E. Froese and N.C. Pond at the Society of American Foresters National Convention, November 14-18, 2017 at Albuquerque, NM.

Data Science for Forestry Professionals - Workshop organized by M. Russell, R.E. Froese, and N.C. Pond at the Society of American Foresters National Convention, November 14-18, 2017 at Albuquerque, NM.

Contemporary and Historic Research at the Ford Center and Forest – workshop organized by R.E. Froese for The Nature Conservancy / Open World Leadership Center organized tour for Russian forestry professionals, May 23, 2017 at Alberta, MI.

Data Science for Forestry Professionals - Workshop organized by M. Russell, N.C. Pond, and R.E. Froese at the Society of American Foresters National Convention, November 2-6, 2016 at Madison, WI.

PROFESSIONAL AND SERVICE ACTIVITIES

EDITORIAL POSITIONS

Associate Editor (Biometrics), Forest Science	2017 – present
Associate Editor (Biometrics), Canadian Journal of Forest Research	2019 – 2022

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, Ecosystems, BioEnergy Research, PLOS ONE, Sensors, Forest Ecosystems

BOOK REVIEWS

Springer US, John Wiley & Sons UK

PROPOSAL REVIEWS

National Science and Engineering Research Council of Canada, Northern Institute for Climate Change Research, Ontario Forest Futures Committee, University of Florida

PROMOTION AND TENURE REVIEWS

Oregon State University, University of Vermont, University of Georgia, West Virginia University, University of Minnesota, University of Northern British Columbia

MEMBERSHIPS

Society of American Foresters, Canadian Institute of Forestry, Forest Professionals British Columbia, Association of Alberta Forest Management Professionals

EXTERNAL COMMITTEES

SAF Committee on Accreditation, Co-Chair	2026 – present
SAF Committee on Accreditation	2023 – present
Forest Growth Organization of Western Canada Executive Council	2021 – present
SAF Working Group A1 – Forest Inventory and Biometrics	2004 – present
Growth and Yield Innovations 2023 Conference Organizing Committee	2021 – 2023
SAF Working Group A1, Secretary	2020 – 2021
SAF Working Group A1, Chair	2018 – 2020
Short Rotation Woody Crops Operations Working Group Steering Committee	2017 – 2018
2018 Woody Crops International Conference Technical Committee	2017 – 2018
SAF Working Group A1, Chair Elect	2015 – 2017
Biomass Utilization and Restoration Network for the Upper Peninsula Steering Committee (*USDA NRCS*)	2007 – 2010
Center of Energy Excellence Direction Setting Committee (*Michigan Economic Development Corporation*)	2008 – 2009

CAMPUS COMMITTEES

At Michigan Technological University

Search Committee for IT System Administrator – Research Computing	2017
Senate Executive Committee	2016 – 2017
Senate Ad Hoc Committee on Governing Documents, Chair	2016 – 2017
Senate Academic and Instructional Policy Committee, Chair	2015 – 2017
Michigan Technological University Senate (as senator)	2012 – 2017
Senate Academic and Instructional Policy Committee, Chair	2016 – 2017
Interschool Promotion and Tenure Committee	2015 – 2016
Senate Ad Hoc Committee on the Library, Chair	2015
Senate Executive Committee	2013 – 2015
Senate Research Policy Committee, Chair	2013 – 2015

Senate Research Policy Committee	2012 – 2015
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

FACULTY or DEPARTMENT COMMITTEES

At the University of Alberta

Master of Forestry Curriculum Committee	2021 – present
RENR Search Committee for ATS in Forestry	2024 – 2025
ALES Representative to Education Faculty Council	2022 – 2024
Forestry Programs Accreditation Review Committee	2021 – 2022

At Michigan Technological University

College Leadership Council	2018 – 2021
Ford Center and Forest Advisory Committee, Chair	2015 – 2021
Information Technology Committee, Chair	2013 – 2021
Curriculum Committee	2018 – 2019
Search Committee for Assistant Professor of Biomaterials, Chair	2015 – 2016
Search Committee for Professor of Practice in Biomaterials	2013 – 2014
Search Committee for Assistant Professor of Silviculture, Chair	2013 – 2014
Ford Center and Forest Advisory Committee	2008 – 2012
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

ADVISING

POST-DOCTORAL RESEARCH SCIENTISTS – SUPERVISOR

Chivenge, Emmerson; PhD	2025 – present
at the School of Forest Science and Management at the University of Alberta	
Bassil, Sarita; PhD	2023 – 2025
at the School of Forest Science and Management at the University of Alberta	
Ara, Mostarin; PhD	2022 – 2023

* a student in my lab or under my supervision.

at the School of Forest Science and Management at the University of Alberta

Deng, Cheng; PhD 2018 – 2019

now Lecturer, South China Agricultural University, Guangzhou China

Pond, Nan; PhD 2012 – 2014

now Director of Forestry, NCX, Cambridge MA, Chair of the SAF Forest Science & Technology Board

Brosofske, Kim; PhD 2011 – 2012

now Director of Clinical Quality, East Jordan Family Health Center, East Jordan, MI

Pokharel, Bharat; PhD 2008 – 2009

now Associate Professor of Applied Statistics and Graduate Program Coordinator, Tennessee State University, Nashville TN

DOCTORAL STUDENTS – SUPERVISOR

Yip, Anson; PhD Student 2026 – Present

at the School of Forest Science and Management, University of Alberta

Hu, Xinran; PhD Candidate 2023 – Present

at the School of Forest Science and Management, University of Alberta

Çankaya, Ergin; PhD Candidate 2022 – Present

at the School of Forest Science and Management, University of Alberta

An, Paul; PhD Conferred 2022 2019 – 2022

now GIS Technician and Assistant Building Engineer, South Dakota State University, Brookings SD

Hillard, Scott; PhD Conferred 2017 2012 – 2017

now Biometrician, American Forest Management Inc., Longmont CO

formerly State Forest Biometrician, Minnesota Department of Natural Resources, St. Paul MN

Premer, Michael; PhD Conferred 2015 2012 – 2015

now Assistant Professor of Forest Management, University of Maine, Orono, ME

formerly Silviculture Research and Development Coordinator, Rayonier, Inc., Aberdeen WA

Deo, Ram; PhD Conferred 2014 2010 – 2014

now Research Scientist, Minnesota Department of Natural Resources, Saint Paul, MN

Pond, Nan; PhD Conferred 2012 2011 – 2012

now Director of Forestry, NCX, Cambridge MA, Chair of the SAF Forest Science & Technology Board, and member of the Advisory Board for the College of Forest Resources and Environmental Science at Michigan Tech

Antón-Fernández, Clara; PhD Conferred 2008 2005 – 2008

now Investigator Distinguido Senior, University of Valladolid, Valladolid, Spain

formerly Research Scientist, Norwegian Institute of Bioeconomy Research, Ås Norway

Pokharel, Bharat; PhD Conferred 2008 2004 – 2008

now Associate Professor of Applied Statistics and Graduate Program Coordinator, Tennessee State University, Nashville TN

MASTERS STUDENTS – SUPERVISOR

At the University of Alberta

Hemsley, Elora; MSc Candidate 2026 – present

Ayer, Santosh; MSc Candidate 2024 – present

McSween, Fergus; MSc Candidate 2024 – present

Wang, Lucille; MSc Candidate 2024 – present

* a student in my lab or under my supervision.

Bobey, Sydney; MSc Conferred 2025 2023 – 2025
Loogman, Arianna; MF Conferred 2025 2022 – 2025

At Michigan Technological University
Harmala, Heidi; MSc Conferred 2021 2019 – 2021
Draper, Maeve; MSc Conferred 2021 2019 – 2021
Pope, Ian; MSc Conferred 2021 2019 – 2020
Krivova, Maria; MSc Conferred 2019 2019 – 2019
Rice, Alexander; MSc Conferred 2019 2017 – 2019
Demiraslan, Tugay; MSc Conferred 2018 2017 – 2018
Lehner, Ashlee; MSc Conferred 2017 2015 – 2017
Özkal, M. Kagan; MSc Conferred 2017 2014 – 2017
Gebuhr, Tim; MSc Conferred 2013 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 PhD) 2009 – 2011
Miller, Chris A.; MSc Conferred 2008 2006 – 2008

GRADUATE STUDENTS – COMMITTEES

At the University of Alberta
Gautam, Aakriti; MSc Student 2024 – present
Naa Okai, Lisa; MSc Student 2024 – present
Maamouri, Rim; PhD Student 2023 – present
Sperling, Andrew; MSc Student 2023 – 2025
Kafke, Apsana; MSc Student 2021 – 2024
Barusco, Bruna; PhD Student (at the University of Victoria) 2021 – 2023

At Michigan Technological University
Bartlick, Claudia; PhD 2019 – 2023
Hupperts, Stefan; PhD 2016 – 2019
Carter, Kelsey; PhD 2015 – 2019
Wilson, A. Sunflower; MSc 2015 – 2017
Von Duyke, Andy; PhD 2009 – 2016
Kleiman, S.; MSc 2017
Sprague, Alex; MSc 2016
Previant, Wilfred; PhD 2008 – 2015
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

* a student in my lab or under my supervision.

Yatso, Kassidy; MSc	2010 – 2011
Ballard, Merideth M.; PhD	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

GRADUATE STUDENTS – EXTERNAL EXAMINER

Gilson, L.; University of British Columbia	2025
Cecil-Cockwell, M.; University of Toronto	2023

STUDENT RESEARCH ASSISTANTS

At the University of Alberta

Bleiken, A.	2026
Owen, L.	2024
Bobey, S., Owen, L.	2023
Bobey, S., Orebski, J.	2022

At Michigan Technological University

Johnston, L., Carpenter, M., Van Diepenbos, J., Pugh, M.	2019
Johnston, L., Gorske, N., Andrews, E., Porter, V., Christiansen, R.	2018
Martin, K., Wolken, K, Hoch, P., Haumesser, H., Picard, K.	2017
Martin, K., Wolken, K., Soulierre, O., Norman, C., Lipe, R.	2016
Dutton, E., Martin, K., Wolken, K., Stewart, D., Ferguson, K.	2015
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. 2019. Applied Regression Analysis (distance ed format). *FW5411, 7 students, Michigan Tech University, fall semester, 2019.*

Froese, R.E. 2019. Regression with the R Environment (distance ed format). *FW5412, 7 students, Michigan Tech University, fall semester, 2019.*

Froese, R.E. 2019. Applied Regression Analysis. *FW5411, 29 students, Michigan Tech University, spring semester, 2019.*

Froese, R.E. 2019. Regression with the R Environment. *FW5412, 26 students, Michigan Tech University, spring semester, 2019.*

Froese, R.E. 2019. Stand and Forest Modelling. *FW4140, 24 students, Michigan Tech University, spring semester, 2019*

Froese, R.E. 2018. Multiple Resource Assessment. *FW3190, 38 students, Michigan Tech University, fall semester, 2018.*

Froese, R.E. 2017. Multiple Resource Assessment. *FW3190, 38 students, Michigan Tech University, fall semester, 2017.*

Froese, R.E. 2017. Stand and Forest Modelling. *FW4140, 20 students, Michigan Tech University, spring semester, 2017.*

Froese, R.E. 2016. Multiple Resource Assessment. *FW3190, 27 students, Michigan Tech University, fall semester, 2016.*

Froese, R.E. 2016. Stand and Forest Modelling. *FW4140, 21 students, Michigan Tech University, spring semester, 2016.*

Froese, R.E. 2015. Applied Regression Analysis. *FW5411, 21 students, Michigan Tech University, fall semester, 2015.*

Froese, R.E. 2015. Regression with the R Environment. *FW5412, 21 students, Michigan Tech University, fall semester, 2015.*

Froese, R.E. 2015. Integrated Resource Assessment (lab section). *FW4810, 4 students, Michigan Tech University, fall semester, 2015.*

Froese, R.E. 2015. Stand and Forest Modelling. *FW4140, 28 students, Michigan Tech University, spring semester, 2015.*

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, Monitoring 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, Monitoring 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, Monitoring 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, Monitoring 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*.

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