

# Timothy M. Weis, P.Eng.



M.Sc. Mechanical Engineering, B.A.Sc. Mechanical Engineering/Environmental Engineering Option

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## EDUCATION

UNIVERSITÉ DU QUÉBEC À RIMOUSKI, RIMOUSKI, PQ 2002 – PRESENT

PhD Candidate through L'Institut des sciences de l'environnement, Université du Québec à Montréal

- ◆ 2002 NSERC Industrial Graduate Scholarship
- ◆ Thesis Research: Small-Scale Wind Energy in Remote Canadian Communities

UNIVERSITY OF ALBERTA, EDMONTON, AB 1999 – 2002

Masters of Science, Department of Mechanical Engineering

- ◆ 1999 NSERC Graduate Scholarship
- ◆ Leonard E. Gads Teaching Assistant Award, Faculty of Engineering 2000
- ◆ University of Alberta Graduate Student Teaching Award 2000 & 2001
- ◆ Walter Johns Graduate Tuition Scholarship 1999 & 2000
- ◆ Geon Graduate Scholarship Air Pollution Reduction Research
- ◆ Thesis Research: Ice Adhesion to Wind Turbine Blades

UNIVERSITY OF WATERLOO, WATERLOO, ON 1994 – 1999

Bachelor of Applied Science; Mechanical Engineering, Environmental Engineering Option

- ◆ Graduated with 1<sup>st</sup> Class Honours
- ◆ 1998 SAE Supermileage Engine Design, Manufacture and Testing
- ◆ 1997-1998 Student Exchange to University of Leeds, England

## WORK EXPERIENCE

SENIOR TECHNICAL AND POLICY ADVISOR JULY 2002 – PRESENT

The Pembina Institute, Edmonton, AB

- ◆ Project Development and Management
- ◆ Community Energy Planning
- ◆ Policy Design and Advocacy
- ◆ Community Energy Demand Assessments
- ◆ Wind Energy, Biomass, Solar and Mini-Hydro Pre-Feasibility Studies
- ◆ Communications and Public Outreach
- ◆ Renewable Energy Resource Assessment

RENEWABLE ENERGY CONSULTING FEB 2003 – JAN 2005

- ◆ Yukon Energy Corporation – Wind power production under icing conditions
- ◆ Aurora Research Institute – Pre-feasibility study for wind energy in Inuvialuit

PRODUCT DESIGN TECHNICIAN

JAN–SEPT 97, JUL–SEPT 98

MTD Products Ltd., Kitchener, ON

- ◆ Design of a new *Steerable Transmission*
- ◆ Fatigue testing for new transmission components
- ◆ Coordinated Cold Weather Snow–Thrower Test Program

R&D TEST LAB

JAN–APR 95, SEPT–DEC 95

Timberjack Inc., Woodstock ON

- ◆ Operator Noise Reduction Program experimental design and testing
- ◆ Fatigue Testing on Pilot Machines
- ◆ Operator Visibility Test Program Design for ISO 9000 compliance

### SELECTED REPORTS AND PAPERS

Weis, T.M. and Maissan, J. (2008) **Assessing the Potential Uptake for a Remote Community Wind Incentive Program in Canada**, report submitted to Canadian Wind Energy Association

Weis, T.M., Ilinca, A. and Pinard, JP, (2008) **Stakeholders' Perspectives on Barriers to Remote Wind–Diesel Power Plants in Canada**, in press, Energy Policy Journal

Weis, T.M, et al, (2007) **Making the Case for Small Wind and Federal Small Wind Incentives in Canada**, report submitted to Canadian Wind Energy Association

Bailie, A, et al. (2007) **Economic Instruments for On–site Renewable Energy Applications in the Residential/Farm Sector**, report submitted to Environment Canada, available for download at: [http://pubs.pembina.org/reports/Econ\\_Instru\\_Res\\_RE\\_03–07.pdf](http://pubs.pembina.org/reports/Econ_Instru_Res_RE_03–07.pdf)

Weis, T.M. and Ilinca, A. (2007) **The Utility of Energy Storage to Improve the Economics of Wind–Diesel Power Plants in Canada**, Renewable Energy International Journal, doi:10.1016/j.renene.2007.07.018

Weis, T.M. and Lepatski, C. (2006) **Introduction to Wind Energy: Technical Course for Saskatchewan First Nations**, 2–day course given at Cowessess First Nation, Saskatchewan

Graham, S., Weis, T.M. and Coleman, G. (2005) **The Ontario First Nation Guide to Wind Power Development** by SGA Energy and Associates, submitted to Indian and Northern Affairs Canada, available for download at: [http://www.inac.gc.ca/clc/tp/ofn/index\\_e.html](http://www.inac.gc.ca/clc/tp/ofn/index_e.html)

Weis, T.M. and Lambert, T. (2004) **Electricity Supply Optimization in Kyuquot; Wind, Hydro and Grid Options** report submitted to Indian and Northern Affairs Canada, Aboriginal and Northern Climate Change Program, BC Region, Vancouver, BC

Weis, T.M. and Salkeld, M. (2004) **Little Red River Cree Nation Community Energy Planning: Long–Term Electrical Supply Options**, report submitted to Indian and Northern Affairs Canada, Aboriginal and Northern Climate Change Program, Alberta Region, Edmonton, AB

Weis, T.M. (2004) **Driftpile First Nation Community Energy Planning: Wind Energy, Biomass Cogeneration and Energy Efficiency Options**, report submitted to Indian and Northern

Affairs Canada, Aboriginal and Northern Climate Change Program, Alberta Region,  
Edmonton, AB

Weis, T.M. and Carlos, C. (2004) **Kyuquot Community Energy Planning: Long-Term Electrical Supply Options** submitted to Western Economic Diversification under Community Alternative Energy Development Initiative, Victoria, BC

Weis, T.M. (2003) **The Effects of Black Blades on Surface Temperatures for Wind Turbines**, proceedings of Yukon International Wind Energy Conference, Whitehorse, YK

Ilinca, A, Chaumel, JL and Weis, T.M. (2003) **Les variations saisonnières du potentiel éolien au Québec**, proceedings of 71e congrès Association francophone pour le savoir, Rimouski, PQ

Weis, T.M. and Pape-Salmon, A. (2003) **Gitga'at First Nation Community Energy Plan**, submitted to Ministry of Community Development, Cooperatives and Volunteers, Victoria, BC

Pinard, JP and Weis, T.M. (2003) **Pre-Feasibility Analysis of Wind Energy for Inuvialuit Region in the Northwest Territories**, submitted to Energy Secretariat GNWT and Northwest Territories Power Corporation, Yellowknife, NT

Weis, T.M. and Dale, J.D. (2002) **Development of a Measurement Technique for Rime Ice Adhesion to Wind Turbine Blades**, proceedings of Canadian Wind Energy Association annual conference, Halifax, NS