

Dr. Stephane McLachlan

Professor

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Stéphane joined the Department of Environment and Geography in 2003, having previously been cross-appointed in the Environmental Science Program and Department of Botany. His teaching and research focus on the interface between the biological and social sciences, and his research group is particularly interested in community centered and action research with farmers, rural communities, , and First Nations across western North America, Europe, and Asia. A broad range of research approaches are used to achieve these project outcomes including vegetation and seed bank sampling, geomatics, mail-out questionnaires, individual and group interviews, participatory mapping, and research video. He and graduate students in his lab actively collaborate with rural and Aboriginal communities and stakeholders across North America and researchers from Alberta, , Ontario, Saskatchewan, and Manitoba,. They recently released a research video on GM crops (Seeds of Change: Farmers, Biotechnology, and the New Face of Agriculture; www.seedsofchange.org) to critical acclaim and it is now being distributed and viewed around the world. Stéphane is always interested in exploring graduate research opportunities with highly motivated and progressive students with a wide variety of academic backgrounds and interests

Academic Background

PhD, York University (1997)
MSc, Guelph University (1992)
Bsc, McMaster University (1988)

Research Interests

Dr. McLachlan coordinates the Environmental Conservation Lab. The research conducted in the lab reflects the following themes

1. Risk analysis of GM crops, nanotechnology, and disease (TB, BSE) nanotechnology;
 2. Environmental Restoration,
 3. Spatial and Dispersal Ecology
 4. Environmental Justice.
 5. Video
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Publications

Published and accepted papers

1. McLachlan, S.M. and M. Yestrau. Holistic management: Grassroots rural adaptation to BSE across western Canada . Mitigation and Adaptation Strategies for Global Change, Accepted August 18, 2008
2. Brook, R.K, and S.M. McLachlan. Knowing by doing: The role of local knowledge in ecological research. Biodiversity and Conservation. Accepted May 3 2008.
3. Mauro, I.J., and S.M. McLachlan. 2008. Farmer knowledge and risk analysis: post-release evaluation of herbicide-tolerant canola

in western Canada. *Risk Analysis* 28: 463-476.

4. Knispel, A.L., S.M. McLachlan, R. Van Acker, and L. Friesen. 2008. Multiple herbicide tolerance transgenes in escaped canola (*Brassica napus*) populations. *Weed Science* 56:72-80.
5. Mauro, I.J., and S.M. McLachlan. Farmer experiences and attitudes toward risks associated with genetically modified crops, in Manitoba, Canada. *Agriculture and Human Values*. (accepted August 22, 2006)
6. Thompson, B. and S.M. McLachlan. 2007. The effects of urbanization on ant communities and myrmecochory in Manitoba, Canada. *Urban Ecosystems* 10:43-52.
7. Stronen, A.V, R.K. Brook, P.C. Paquet, and S.M. McLachlan. 2007. Farmer attitudes toward wolves: Implications for the role of predators in managing disease. *Biological Conservation* 135:1-10
8. Brook, R.K., and S.M. McLachlan. 2006. Factors influencing farmer attitudes associated with bovine tuberculosis in wildlife and livestock around Riding Mountain National Park, Manitoba. *Journal of Environmental Management* (accepted October 10, 2005).
9. Brook, R.K., and S.M. McLachlan. 2005. On using expert-based science to "test" local ecological knowledge. *Ecology and Society* [online] URL: <http://www.ecologyandsociety.org/vol10/iss2/resp3/>
10. Sveinsson, J.A. and S.M. McLachlan. 2005. Effects of soil fertility, disturbance, and interseeding when rehabilitating degraded tallgrass prairie in Manitoba, Canada. *Restoration Ecology* (accepted August 22, 2005).
11. McLachlan, S.M. and A. Knispel. 2005. Assessment of long-term tallgrass prairie restoration in Manitoba, Canada. *Biological Conservation* 115:11-17.
12. Moffatt, S.F., and S.M. McLachlan. 2004. Understorey indicators of disturbance for riparian forests along an urban-rural gradient in Manitoba. *Ecological Indicators* 4:1-16.
13. Moffatt, S.F., S.M. McLachlan, and N. Kenkel. 2004. Impacts of surrounding landuse on riparian forests in southeastern Manitoba. *Plant Ecology*, 174:119-135.
14. Moffatt, S.F., and S.M. McLachlan. 2003. Effects of land use disturbance on seed banks of riparian forests in southern Manitoba. *EcoScience* 10:361-369.
15. Brook, R.K. and S.M. McLachlan. 2003. Elk-agriculture interactions in the Greater Riding Mountain Ecosystem. *Research Links* 11:8-9.
16. McLachlan, S.M. and D.R. Bazely. 2003. Evaluating the success of deciduous forest restoration in southwestern Ontario, Canada. *Biological Conservation* 113:159-169.
17. Sveinsson, J.A. and S.M. McLachlan. 2003. Role of seedbanks in the restoration of tallgrass prairie (Manitoba). *Ecological Restoration* 21:76-77.
18. McLachlan, S.M. and D.R. Bazely. 2001. Recovery patterns of understory herbs and their use as indicators of deciduous forest regeneration. *Conservation Biology*, 18:1-

Teaching Interests

Dr. McLachlan regularly teaches the following courses: Shaking the Tree: Activism, Change and Environment; Applied Qualitative Research Methods: Making a Difference; Interdisciplinary Perspectives on Issues in the Environment; Environmental Conservation and Restoration; Critical Thinking and the Environment, as well as the travel course Living Rural Communities and Environments.