



PEATLAND ECOLOGY RESEARCH GROUP (PERG) – GROUPE DE RECHERCHE EN ÉCOLOGIE DES TOURBIÈRES (GRET)

General description

The Peatland Ecology Research Group (PERG), also called in French “Groupe de recherche en écologie des tourbières”, has been founded in 1992 by Line Rochefort, professor at Université Laval (Québec, QC). PERG is the leader in ecological peatland restoration in Canada and one of the pioneers in the world in this field. The group, which is still very active, retains a core of researchers from several Canadian universities with complementary expertise (ecology, botany, hydrology, biogeochemistry, pedology). Its mission is to contribute to societal choices on the use and conservation of peatlands through education and a better understanding of these ecosystems.

Overview

Establishment: 1992

Founder and Director: Line Rochefort, professor at Université Laval, Québec, Canada

Main location: Department of Plant Sciences (Département de phytologie), Université Laval, 2480 boul. Hochelaga, Québec, QC, G1V 0A6, Canada

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Publications related to restoration and reclamation

Publications in refereed journals

1. Blier-Langdeau, A., M. Guéné-Nanchen, S. Hugron & L. Rochefort. (In press, 2021) The resistance and short-term resilience of a restored extracted peatland ecosystems post-fire: an opportunistic study after a wildfire. *Restoration Ecology*; <https://doi-org.acces.bibl.ulaval.ca/10.1111/rec.13545>.
2. Gutierrez-Pacheco, S., R. Lagacé, S. Hugron, S. Godbout & L. Rochefort. 2021. Estimation of daily water table level with bimonthly measurements in restored ombrotrophic peatland. *Sustainability* 13(10), 5474; <https://doi.org/10.3390/su13105474> (MDPI).
3. Drapeau Picard, A.-P., M. Larrivée, M.J. Mazerolle & L. Rochefort. 2021. Impact of pool design on spider and dytiscid recolonization patterns in a restored fen. *Restoration Ecology* 29(5): e13384; DOI: 10.1111/rec.13384.

4. Pouliot, K., L. Rochefort, M.-C. LeBlanc, M. Guêné-Nanchen & A. Beauchemin. 2021. The Burial Under Peat Technique: an innovative method to restore *Sphagnum* peatlands impacted by mineral linear disturbances. *Frontiers in Earth Science (Biogeoscience)* 9: 658470; doi: 10.3389/feart.2021.658470.
5. Lemmer, M., L. Rochefort & M. Strack. 2020. Greenhouse gas emissions dynamics in restored fens after in-situ oil sands well pad disturbances of Canadian boreal peatlands. *Frontiers in Earth Sciences* 8: 557943; doi.org/10.3389/feart.2020.557943. (Section Biogeoscience)
6. Guêné-Nanchen, M., N. D'Amour & L. Rochefort. 2020. Adaptation of restoration target with climate change: the case of a coastal peatland. *Botany* 98: 439-448; dx.doi.org/10.1139/cjb-2020-0050.
7. Bravo, T.G., M.E. Brummell, L. Rochefort & M. Strack. 2020. Effect of invasion by birch on the growth of planted spruce at a post-extraction peatland. *Mires and Peat* 26(Article 14): 1-9; DOI: 10.19189/MaP.2019.OMB.StA.1807.
8. Alshehri, A., C. Dunn, C. Freeman, S. Hugron, T. G. Jones & L. Rochefort. 2020. A potential approach for enhancing carbon sequestration during peatland restoration using low-cost, phenolic-rich biomass supplements. *Frontiers in Environmental Science* 8(Article48): 1-8; <https://doi.org/10.3389/fenvs.2020.00048>.
9. Elliott, J. & Price, J. 2020. Comparison of soil hydraulic properties estimated from steady-state and transient field observations through simulating soil moisture in regenerated *Sphagnum* moss. *Journal of Hydrology* 582, 124489. <https://doi.org/10.1016/j.jhydrol.2019.124489>.
10. Gaffney, P.P.J., S. Hugron, S. Jutras, O. Marcoux, S. Raymond & L. Rochefort. 2020. Ecohydrological change following rewetting of a deep-drained northern raised bog. *Ecohydrology* 13(5): e2210; <https://doi.org/10.1002/eco.2210>.
11. Hassanpour Fard, G., E. Farries, V. Bérubé, L. Rochefort & M. Strack. 2020. Key species superpose the effect of species richness and species interaction on carbon fluxes in a restored minerotrophic peatland. *Wetlands* 40: 333-349; <https://doi.org/10.1007/s13157-019-01176-5>.
12. Hugron, S., M. Guêné-Nanchen, N. Roux, M.-C. LeBlanc & L. Rochefort. 2020. Plant reintroduction in restored peatlands: 80% successfully transferred – Does the remaining 20% matters? *Global Ecology and Conservation* 22(e01000); <https://doi.org/10.1016/j.gecco.2020.e01000>.
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14. González, E. & L. Rochefort. 2019. Declaring success in *Sphagnum* peatland restoration: Identifying outcomes from readily measurable vegetation descriptors. *Mires and Peat* 24, Article 19: 1-16; DOI: 10.19189/MaP.2017.OMB.305.
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18. Bourgeois, B., M.-A. Lemay, T. Landry, L. Rochefort & M. Poulin. 2018. Seed storage behaviour of eight peatland pool specialists: Implications for restoration. *Aquatic Botany* 152: 59-63.
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23. Gauthier, M.-E., L. Rochefort, L. Nadeau, S. Hugron & B. Xu. 2018. Testing the moss layer transfer technique on mineral well pads constructed in peatlands. *Wetlands Ecology and Management* 26(4): 475-487; doi: 10.1007/s11273-017-9532-4.
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Conference participation

Since 1992, the PERG researchers, as well as their graduate students, have presented at several hundred conferences of local, national or international scope, on peatland restoration and management, for example at the International Peatland Congresses, the Society for Ecological Restoration conferences, the Society of Wetlands Scientists meetings, the European Geophysical Union meetings, the annual Canadian Land Reclamation Association conferences. The regular PERG researchers are regularly invited as keynote speakers.