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Formation : Ph.D. (McGill) **Spécialités** : Géomorphologie, Quaternaire Membre régulier du Centre d'études nordiques Informations supplémentaires sur le site web de l'Université Laval

Thèmes de recherche

- Dynamique des terrains nordiques en réponse aux variations climatiques : le cas des régions côtières.
- Le pergélisol et les variations climatiques.
- Processus et dynamique des côtes en réponse aux fluctuations du niveau marin et aux processus cryogéniques.
- Vulnérabilité au réchauffement climatique des communautés du Nunavik et élaboration d'une stratégie d'adaptation.
- Impacts de la fonte du pergélisol sur les infrastructures aéroportuaires du Nunavik.

Publications récentes

Fortier, D., Allard, M., Pivot, F., 2006. A late-Holocene record of loess deposition in ice-wedge polygons reflecting wind activity and ground moisture conditions, Bylot Island, eastern Canadian Arctic. *The Holocene*, 16: 635-646.

Lavoie, C., Pienitz, R., Allard, M., 2006. Diatom flora of the Nastapoka River delta: an emerging coastal system on the eastern shore of Hudson Bay, subarctic Québec. *Nova Hedwigia*, 83(1-2): 31-51.

LeBlanc, A.-M., Fortier, R., Cosma, C., Allard, M., 2006. Tomographic imaging of permafrost using three-component seismic cone penetration test. *Geophysics*, 71(5): H55-H65.

Sushama, L., Laprise, R., Allard, M., 2006. Modeled current and future soil thermal regime for northeast Canada. *Journal of Geophysical Research*, 111(D18): doi : 10.1029/2005JD007027.

Buteau, S., Fortier, R., Allard, M., 2005. Rate-controlled cone penetration tests in permafrost. *Canadian Geotechnical Journal*, 42: 184-197.

Calmels, F.C., Gagnon, O., Allard, M., 2005. Technical note: A portable earth-drill system for

- permafrost studies. *Permafrost and Periglacial Processes*, 16: 311-315.
- Fortier, D., Allard, M., 2005. Frost-cracking conditions, Bylot Island, Eastern Canadian Arctic archipelago. *Permafrost and Periglacial Processes*, 16(2): 145-161.
- Fraser, C., Hill, P.R., Allard, M., 2005. Morphology and facies architecture of a falling sea level strandplain, Umiujaq, Hudson Bay, Canada. *Sedimentology*, 52(1): 141-160.
- Buteau, S., Fortier, R., Delisle, G., Allard, M., 2004. Numerical simulation of the impacts of climate warming on a permafrost mound. *Permafrost and Periglacial Processes*, 15: 41-57.
- Calmels, F.C., Allard, M., 2004. Ice-segregation and gas distribution in permafrost using tomodensitometric analysis. *Permafrost and Periglacial Processes*, 15: 367-378.
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- Leblanc, A.-M., Fortier, R., Allard, M., Cosma, C., Buteau, S., 2004. Seismic cone penetration test and seismic tomography in permafrost. *Canadian Geotechnical Journal*, 41(5): 796-813.
- Beaulieu, N., Allard, M., 2003. The impact of climate change on an emerging coastline affected by discontinuous permafrost: Manitounuk Strait, northern Quebec. *Canadian Journal of Earth Sciences*, 40(10): 1393-1404.
- Delisle, G., Allard, M., Fortier, R., Calmels, F.C., Larrivée, É., 2003. Umiujaq, Northern Québec: Innovative techniques to monitor the decay of a lithalsa in response to climate change. *Permafrost and Periglacial Processes*, 14(4): 375-385.
- Lajeunesse, P., Allard, M., 2003. Late Quaternary deglaciation, glaciomarine sedimentation and glacioisostatic recovery in the Rivière Nastapoka area, eastern Hudson Bay, Northern Québec. *Géographie Physique et Quaternaire*, 57(1): 65-83.
- Lajeunesse, P., Allard, M., 2003. The Nastapoka drift belt, eastern Hudson Bay: implications of a stillstand of the Quebec-Labrador ice margin in the Tyrrell Sea at 8 ka BP. *Canadian Journal of Earth Sciences*, 40(1): 65-76.
- Lajeunesse, P., Allard, M., 2002. Sedimentology of an ice-contact glaciomarine fan complex, Nastapoka Hills, eastern Hudson Bay, northern Québec. *Sedimentary Geology*, 152(3-4): 201-220.
- Lavoie, C., Allard, M., Hill, P.R., 2002. Holocene deltaic sedimentation along an emerging coast: Nastapoka River delta, eastern Hudson Bay, Quebec. *Canadian Journal of Earth Sciences*, 39(4): 505-518.