Doctorate / Master - Ecophysiology of Sugar Maple Sap Production

PhD or MSc position available in Quebec to study the physiological and environmental determinants of maple sap production.

See the description below for more details or follow this link: https://www.dropbox.com/s/yr3jniefpd38c7/Doctorat%20sur%20l%27ErableFINAL_EN-FR.pdf?dl=0

Please forward to potential candidates

Julie Messier, PhD
Asst. Prof. Biology Department
University of Waterloo

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Although we have been tapping the sap of sugar maple trees for hundreds of years, the determinants of sap production are not fully understood.

We are looking for a motivated student for an MSc or PhD project studying the environmental and physiological factors influencing maple sap production at the tree scale in collaboration with Christian Messier (UQO/UQAM), Dominique Gravel (Sherbrooke), Julie Messier (Waterloo), Sylvain Delagrange (UQO) and Daniel Houle (Ouranos/Director of Forest Research). A scholarship of $22 000/yr for 3+ yrs or $17 500/yr for 2+ yrs is available for a student at the PhD/MSc level without a scholarship. A supplement of $5 000 is available for a student with a scholarship.

Start date for this PhD/MSc project is anytime after January 2019.

Generally, the project involves monitoring a number of sugar maple trees in different sugar maple stands of Quebec. Maple water production, sap flow and sap sugar content will be quantified in the spring and related to different environmental and physiological factors. Environmental manipulation is also possible (e.g. snow removal, irrigation, tree trunk warming), as well as a survey of maple syrup producers in eastern North America. The student will develop his or her own ideas and hypotheses in collaboration with the research team.

The student will be registered at UQO (Quebec, CA), but will work in close collaboration with the different researchers involved in the project. A minimum level of French fluency is necessary. An internship of several months in the lab of a researcher elsewhere in the world is also planned.

To apply, send your CV and a short cover letter to Christian Messier (christian.messier@uqo.ca)