



Carleton
UNIVERSITY



Department of
**Geography &
Environmental Studies**

FOUNDERS SEMINAR

Presents:

Dr. Joe Melton

**It would be easy if it wasn't
for the humans: Simulating the
terrestrial biosphere using
numerical models**



When: **Friday October 21, 2016**

Time: **2:30- 4:00**

Location: **Loeb A220**

(Light refreshments will be available)

ALL WELCOME

Abstract:

I will introduce Environment Canada's coupled Canadian Land Surface Scheme (CLASS) and Canadian Terrestrial Ecosystem Model (CTEM). CLASS-CTEM forms the terrestrial component of the Canadian Earth System Model, which is used in simulations to understand and attribute present climate change, and to generate projections for the future. CLASS-CTEM has been in continuous development since the late 1980s and I will discuss how the model simulates the land surface hydrology, energy and carbon budgets as well as discuss recent applications of the model— including the nagging problem of those pesky humans.

Bio:

Joe Melton is a terrestrial ecosystem modeller and research scientist with Environment and Climate Change Canada. Joe's PhD work at UVic investigated past abrupt climate changes using methane isotopes from ancient Greenland ice. For his post-doctoral work he moved into terrestrial ecosystem modelling, first in Switzerland at École Polytechnique Fédérale De Lausanne (EPFL) and then at the Canadian Centre for Climate Modelling and Analysis (CCCma) where he is now based. At CCCma Joe works on model development and application of CLASS-CTEM with a special interest in wetlands, methane, permafrost, and plant dynamics.

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The Geography and Environmental Studies Departmental Seminar Series is committed to accessibility for persons with disabilities. Please send requests for accommodation to Maria Dabboussy at maria.dabboussy@carleton.ca.