



## ***The GAC Cordilleran Section hosts a public lecture by***

***2013 W.W. Hutchison Lecturer of the GAC***

**Dr. Duane Froese**

presenting:

**Ice Age Yukon: Mammoths, Migrations and Extinction in the Northern Refugium**

**Date: Tuesday October 8th, 2013**

**Time: 07.15 pm**

**Place: HR. MacMillan Space Center**

**1100 Chestnut Street / Vancouver, B.C. (Kitsilano)**

**Free admission**

During the height of the last glaciation, more than 95% of Canada was covered by glaciers, with the largest ice-free area in Yukon. This area was part of a non-glaciated sub-continental region that extended from northwestern Canada, across Alaska and the Bering Land Bridge, into Asia. This region was home to a diverse population of grazing megafauna including mammoths, horses, lions and bison. Permafrost in this region preserves the fossils from these animals along with plants and even ancient DNA, and tells us about migrations and population changes. But these changes also raise important questions about what ultimately drove extinction of these megafauna across this region. In this talk, I will present recent research that outlines how these populations responded to climate over the last several hundred thousand years, and the events of the Late Pleistocene that ultimately led to extinction.

**Speaker Bio:** Duane Froese is Associate Professor and Canada Research Chair in Northern Environmental Change in the Department of Earth and Atmospheric Sciences at the University of Alberta. He is the winner of the 2013 WW Hutchinson Medal, given out by the Geological Association of Canada (GAC). For more than 20 years he has been leading interdisciplinary research in northwestern Canada and Alaska to understand the impacts of climate on permafrost and northern ecosystems over the last 2 million years.

