

Environmental Sciences And **CREATE** Seminar Series



Climate Change, Oceanic Anoxia and Biodiversity Change: Learning from the Late Ordovician Mass Extinction

Dr. Mike Melchin

Chair of the Earth Science Department, St. FX

The talk will examine the evidence for major climatic changes that took place in the Late Ordovician time (~458-443 million years ago) and how they are related to changes in the conditions of oceanic anoxia, as represented in the patterns of deposition of black shales. These patterns are then related to evidence for the magnitude and timing of major episodes of change in the communities of marine plankton, as represented in the fossil and geochemical record, in order to gain some insights into the some of the processes causing biodiversity change in the Late Ordovician mass extinction event.

All are welcome.

Thursday, **November 21st**, 2013

1:15 – 2:05PM

Physical Sciences Centre **2045**