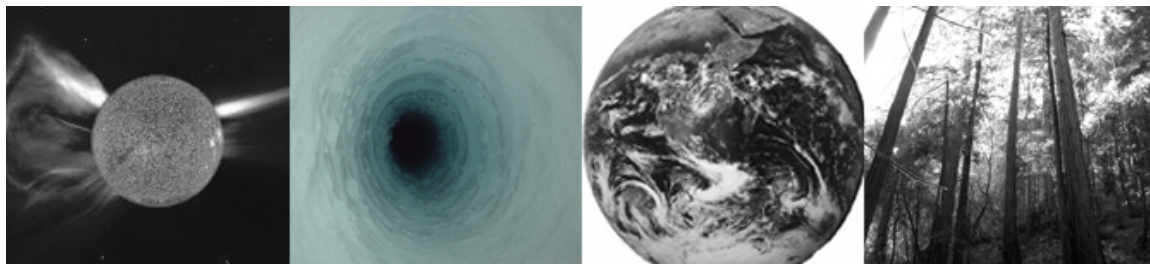


Environmental Sciences And **CREATE** Seminar Series



Key Concepts and Issues in the Monitoring of Carbon Capture, Utilization, and Storage Sites

Dr. David Risk

Earth Sciences Department, St. Francis Xavier University

Carbon Capture, Utilization, and Storage (CCUS) refers to a group of technologies that help store CO₂ in geologic formations. These technologies are seen as a viable way of reducing CO₂ emissions in the decades until our transition to non-fossil fuels. Projects like Cenovus Energy's Weyburn CO₂ Enhanced Oil Recovery project in Saskatchewan, and Shell's QUEST Carbon Capture and Storage project in Alberta each store more CO₂ than 100,000 vehicles would emit annually. These projects rely heavily on monitoring technologies that demonstrate conformance with model predictions of plume evolution. Monitoring must also demonstrate containment. This talk will discuss the physical and geochemical techniques involved in monitoring these large operations, and will outline some of the challenges and issues involved, which are more complex than they might appear. Offshore and onshore projects will be discussed, though particular emphasis will be placed on nearer-surface monitoring at terrestrial storage sites.

All are welcome.

Thursday, **March 7, 2013**
1:15 – 2:05 PM
Physical Sciences Centre 2045



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