



uOttawa

## Canadian Shield Research Lectures



As part of the Canadian Shield Research initiative at the University of Ottawa, the Ottawa-Carleton Geoscience Centre, in cooperation with the Goldcorp Chair in Economic Geology, will host 5 guest lecturers during **January-February**. This term's lectures will examine the changing glacial conditions of Gondwana, how trace fossils are used to interpret sedimentary rock successions, the role of iron oxides in regulating aqueous trace-element concentrations in wetland environments, trapping of ancient microbes in mineral inclusions, and contaminant transport and cycling in the changing Arctic.

Dr. Michael Rygel, Lecturer for the Canadian Society of Petroleum Geologists from SUNY Potsdam, will give a presentation on Friday, January 16, 11:30-12:30 pm, Marion Hall Room 0028 at University of Ottawa, entitled “**The Magnitude of Late Paleozoic Glacioeustatic Fluctuations**”. Dr. Rygel will explore the possibility that glacial conditions in Gondwana were much more variable than previously thought.

Dr. James MacEachern, Geological Association of Canada's Hutchison Lecturer from Simon Fraser University, will give a presentation on January 29, 11:30-12:30 pm, Marion Hall Room 127 at University of Ottawa, entitled “**Ichnology's Role in Refining Shallow Marine Facies Models**”. Dr. MacEachern will explore the how trace-fossil analysis has served as a powerful tool for sedimentary facies interpretation.

Dr. Andrew Gault of the University of Ottawa will give a presentation on Thursday, February 5, 11:30-12:30 pm, Marion Hall Room 127 at University of Ottawa, entitled “**Bugs and Biogeochemistry: Controls on Bacteriogenic Iron Oxide Formation**”. Dr. Gault will discuss the important role bacteriogenic iron oxides in regulating aqueous trace-element concentrations in wetland environments.

Dr. Russell Vreeland of West Chester University, Pennsylvania, will give a presentation on Thursday, February 12, 11:30-12:30 pm, Marion Hall 127 at University of Ottawa, entitled “**The Survival of Microbes and DNA in Ancient Salt Crystals**”. Dr. Vreeland will examine how microbes trapped in fluid inclusions may present a rich overview of the microbial biodiversity of formation waters that are hundred of millions of years old.

Dr. Laurier Poissant of Environment Canada will give a presentation on Thursday, February 26, 11:30-12:30 pm, Marion Hall 127 at University of Ottawa, entitled “**Mercury and Carbon Cycling within the Changing Arctic Environment**”. Dr. Laurier will examine the impact of ongoing change in the Arctic on contaminant transport and cycling.

For additional information about the Canadian Shield Research Lectures, please contact:  
Canadian Shield Research Lectures  
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