UM | Clayton H. Riddell Faculty of Environment, Earth, and Resources

Department of Earth Sciences
240 Wallace Building,125 Dysart Road
Winnipeg, Manitoba

The Department of Earth Sciences welcomes you to their Seminar Series featuring:

Dr. Peter Reiners
Incoming Eddie Goldenberg Research Chair in Geoscience of Subsurface Fluid-Rock Systems for Solutions in Sustainability and Security, University of Manitoba

Science, security, and sustainability of subsurface fluid-rock systems and their mineral, energy, water, and storage resources

October 29, 2026 223 Wallace Building 1:00 PM

Canada's long-term prosperity, security, and sustainability rely on understanding the distribution and accessibility of its natural resources, and strategically and responsibly managing them through changing climatic and geopolitical conditions. Subsurface resources in particular, including critical mineral, energy, water, and storage, are playing central roles in important economic, environmental, and climate-change solutions. Increasing reliance and overlapping uses of the subsurface motivate our vision for leadership in coordinated scientific understanding, technical innovation, and sustainable policy for subsurface resources. In this exploration of vision for research chair activities, I will present examples of basic research to understand subsurface fluid-rock systems, how these approaches inform innovative and strategic management of subsurface resources and how research and education at UM can benefit communities, industry, utilities, and governments. Discussion around opportunities for collaborative leadership in subsurface resources is welcome, including in promising areas for Manitoba and Canada, for example around subsurface storage of carbon and policies and incentives for community engagement in major subsurface projects.