Discovering Earth Sciences
Inquiry-based Field Experience for Teachers

**Date:** Sunday, July 8 to Saturday July 14, 2018

**Departure and return:** Carleton University, Department of Earth Sciences, Room 2120 Herzberg Building

**Accommodations:** Queen’s University Biological Station, Opinicon Lake, ON

**Program:** residential field experience with daily visits to regional outcrops and sites of geological interest to explore inquiry-based learning

**Field trip leaders:** Beth Halfkenny and Claudia Schröder-Adams

**Who can apply:** educators from K-12, including in service and pre-service teachers, all levels of expertise and experience who teach science

**Fee:** $200 (*includes accommodations, daily travel by van, all meals, and participant resource kit*)

**Number of participants:** up to 10 teachers

Applications are now being accepted for our new professional development experience for teachers.

**Description:**
Earth and Space Sciences is a discipline best taught through hands-on learning in a field-based setting. This weeklong science-immersion field course will provide the opportunity to explore inquiry-based learning in a field setting. Participants will learn concepts and skills Ontario K-12 teachers are expected to understand and employ, while enhancing their understanding of geoscience concepts laid out in the Ontario Curriculum.
Over the course of the program, participants will explore examples of effective discovery-learning techniques, and will be provided with investigation tools and the opportunity to collect and catalogue rock, mineral and fossil specimens for classroom use.

Accommodations near Perth will provide a base-camp, allowing us to explore ancient rock exposures and modern natural environments in the region between Ottawa and Kingston. Participants should expect to continue investigations and discussions on our return in the evenings.

The overarching concept of teamwork will be practiced to solve geological problems and to gain a deeper understanding of processes involved in creating the landscapes and rock under investigation. The goal of this field experience is to hone a skill set that allows a means to investigate any natural geological landscape, ask the right questions to piece together local geological history; a skill set of experiential teaching and learning that can be carried back into your classrooms. At the end of this course, each participant will be expected to create or modify an activity or lesson plan based on their experiences during the weeklong program that can then be shared with all.

Please visit https://earthsci.carleton.ca/outreach/teachers-workshop for more information and to download the application form, or contact Beth McLarty Halfkenny
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