



CSPG Short Education Course

Integrated characterization of Oil Sands Reservoirs

Instructor: Dr. Paul Durkin

Location: CSPG Classroom - 540 – 5th Avenue SW Calgary, Alberta and Core Research Centre, Calgary, Alberta

Cost: Member Price - \$2,000.00

Non-Member Price - \$2,250.00

Date: October 3 – 5, 2022 | 9:00am – 5:00pm

Abstract

A three-day short course that presents key concepts and strategies for integrated characterization of channel-belt reservoirs in the Athabasca and Cold Lake Oil Sands. The course will comprise two classroom days and one day at the Core Research Centre. Starting from an update on modern depositional systems, participants will learn how to utilize and integrate 3D seismic, well log, core, and dipmeter data from real-world data sets to holistically characterize Oil Sands reservoirs. Concepts include seismic geomorphology and sedimentology of point bar and counter-point bar deposits, delineating stacked channel-belt deposits, and classifying mudstone types and their impact on production.

Objectives

The course objective is to utilize real-world examples from the Oil Sands to teach participants strategies for accurate and comprehensive reservoir characterization. Each module of the course will have an associated exercise where participants can implement techniques from the lecture component on oil sands case studies. Group discussions and comparison between strategies will provide participants with a breadth of experience that can be applied to their current projects.

Who Should Attend?

This course is designed for geoscientists working in Oil Sands exploration and/or development, as well as managers and reservoir engineers with a geology background.



Biography

Paul Durkin is an assistant professor in the Department of Earth Sciences at the University of Manitoba. Paul earned his BSc from McMaster University in 2011 and his PhD from the University of Calgary in 2016. His research group at the U of M is focused on clastic sedimentology and stratigraphy of terrestrial to paralic depositional systems, with a particular interest in meandering fluvial environments. Paul's research combines a field-based approach with innovative technology and analytical methods to refine paleoenvironmental reconstructions and stratigraphic relationships. Paul has worked with and for several petroleum companies over the last 10 years through consulting, field trips, and sponsored research projects. His work on the McMurray Formation has resulted in several publications and provided a breadth of experience from which to draw upon for this short course.

