

Central Ontario Regional Networking Event

April 9, 2015 @ 4:30 p.m. to 8:00 p.m.

Twenty Toronto Street, 2nd Floor
Toronto, Ontario

Hosted by APGO Central Ontario Regional Councillor, Peter Diorio, P.Geo.



Guest Speaker

Dr. James Siddorn, Ph.D., P. Geo.

President, SRK Consulting (Canada) Inc.

*The ABCs of Structural Geology in Efficient Exploration,
Resource Delineation, and Operations*

REGISTRATION

Attendees: \$30

Geoscience Students: Free

Space is limited. Register early!

Visit www.apgo.net/apgo-events to register online.

Event will start with registration at 4:30 p.m.

Dinner will be served. Cash bar.

APGO will provide 1 complimentary drink for each attendee.

Contact information: Marilen Miguel
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The ABCs of Structural Geology in Efficient Exploration, Resource Delineation, and Operations

The minerals industry has a strong focus on efficient exploration targeting, resource definition, and exploitation of mineral deposits. A key factor in this efficiency is getting the geology right and ensuring it is correctly applied to the stage of the project to meet company goals. To achieve this, structural geology must play a key role because, in many mineral deposits, it is the foundation of control on the distribution and geometry of mineralization—and therefore grade—in two and three dimensions. Understanding the structural geology of your project will have a direct impact on (a) increasing your exploration efficiency and lowering your exploration costs, (b) lowering your resource geological risk and increasing your resource category, and (c) decreasing your dilution and increasing your mine safety.

Timing is the keystone of structural geology. It governs whether your deposit is controlled or overprinted by deformation. Combined with an understanding of the deformation/strain that has affected the area/deposit, it provides a first order prediction of the possible geometries and structural orientations that you are likely to encounter. Joined with an appreciation of structural history and kinematics, this will outline the history of dilatancy and permeability within the mineral deposit system, which when evaluated holistically, offers practical structural tools that can be used to predict the location and three-dimensional distribution of mineralization.

This talk provides an overview of structural geology's role in exploration and mining and gives insights into how structural geology can be used to predict distribution of mineralization. Discussion will include case studies highlighting the application of structural geology from exploration to mine closure and remediation.

About Dr. James Siddorn, Ph.D., P. Geo.

Dr. James Siddorn, PGeo, is President and a Practice Leader (structural geology) with SRK Consulting (Canada) and based in the Toronto office. He has 20 years of experience in the structural analysis of mineral deposits. James is an expert in deciphering deposit-scale controls on ore plunge in precious and base metal deposits, the district-scale interpretation of geophysics for exploration targeting, and applied three-dimensional geological modelling. He also assists clients with strategy and technical reviews for exploration and mining projects worldwide and has undertaken projects in Asia, Africa, Europe, and North, South, and Central America.

James has taught more than 30 applied structural geology courses to over 1000 exploration and mining geologists and engineers. In May 2013, he was recognized by the Canadian Institute of Mining, Metallurgy and Petroleum with the Past Presidents Memorial Medal "for leadership and excellence in the field of Structural Geology."

James has a BSc (Hons) in geology from the University of Durham, United Kingdom, and a MSc and a PhD in structural geology from the University of Toronto.