



**SEG  
2018**

**Metals, Minerals, and Society**

Keystone, Colorado, USA  
September 22-25, 2018



## SEG 2018 Workshop Schedule (Preliminary)

### WS05 - Exploration Geochemistry: From Fundamentals to the Field

[www.seg2018.org/workshops.html#5](http://www.seg2018.org/workshops.html#5)

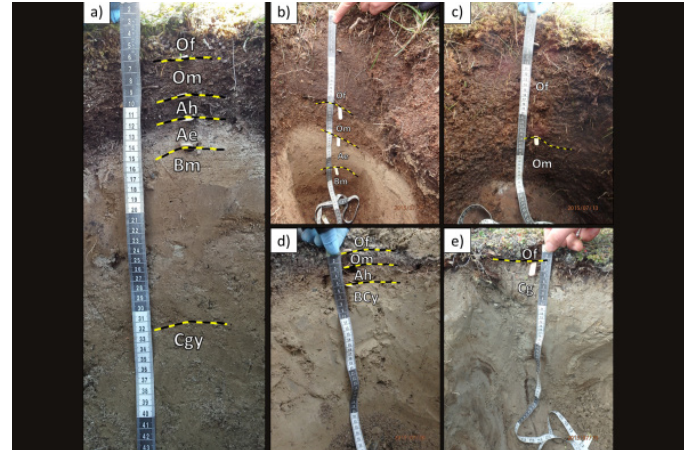
**Date:** September 26-27, 2018

**Location:** Keystone Conference Center

**Presenter:** Peter Winterburn\*

Students will not exceed 20% of total participants.

\*Workshop organizer.



### Schedule

#### Day 1 - Wednesday, September 26, 2018

- 8:00am - 10:00am: Introduction  
Fundamentals of geochemistry
- 10:00am - 10:15am: Break
- 10:15am - 11:00am: Mineralization signatures
- 11:00am - 12:00pm: Weathering processes  
Element mobility
- 12:00pm - 1:00pm: Lunch
- 1:00pm - 3:00pm: Survey scales  
Survey design  
Sample media  
Covered terrains
- 3:00pm - 3:15pm: Break
- 3:15pm - 5:00pm: Sample collection  
Analysis considerations  
Field preparation, lab prep, analysis

#### Day 2 - Thursday, September 27, 2018

- 8:00am - 9:00am: Quality control – field, sample, and lab  
How to interpret QA/QC  
When to take action
- 9:00am - 10:00am: Data preparation, cleaning, leveling  
Detection limits, nulls
- 10:00am - 10:15am: Break

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## Schedule *(cont.)*

- 10:15am - 12:00pm: Data interpretation and presentation techniques, part 1  
Software, "thresholds", multi element interpretations
- 12:00pm - 1:00pm: Lunch
- 1:00pm - 3:00pm: Data interpretation and presentation techniques, part 2  
Advanced data interpretation – when, why, and how
- 3:00pm - 3:15pm: Break
- 3:15pm - 5:00pm: Case studies – examples of systematic studies