



# Lakehead University Geology Department

## Alumni Newsletter #15

December, 2017

### Department News

It has been a busy week here in Thunder Bay. The typical chaos that comes with the end of term was briefly interrupted when Thunder Bay became the site of what was possibly NW Ontario's first documented meteorite strike. Around 11pm on Thursday December 14, a loud bang was heard in the Mt Forest area. Police responded and found what appeared to be a ~0.5m wide crater. Naturally they called the Geology Department and we pulled our resident meteorite expert, Dr. Steve Kissin, out of retirement and sent him off with Dr. Shannon Zurevinski to check things out. You can find an interview with Steve [here](#) or check out the [departmental web site](#) for more stories. Steve is currently analysing the material from the site.

Members of the Department will be at Roundup and PDAC this year so we hope to catch up with you there, or feel free to drop in and say hello if you find yourself in Thunder Bay.



*Steve Kissin examining possible impact site*



### SEG Student Chapter

This summer the SEG Student Chapter organised a very successful trip to the SW USA. They visited a wide variety of mines including Cu-porphyry, Cu-skarn and Cu-Mo porphyry as well as Death Valley and the Grand Canyon. The trip would not have been possible without the generous support of the SEG and the PDAC as well as the many local Arizona geologists who showed them around. The Chapter is planning a trip to Ireland during the summer of 2018 with a number of deposits on the wish list including Irish type, gold and salt as well as some classic geology stops including the Copper Coast and the Giant's

Causeway). They will be sending out a preliminary email in the new year with set dates and costs so be sure to let them know if you are interested. If you have any questions or suggestions for the trip send an email at Emily at [egorner@lakeheadu.ca](mailto:egorner@lakeheadu.ca).

### Alumni News

Congratulations to Katarina Bjorkman (Class of '11) who successfully completed her PhD thesis at the University of Western Australia this month. Katarina's thesis was on the "4D crust-mantle evolution of the Western Superior Craton: implications for Archaean granite-greenstone petrogenesis and geodynamics". We would also like to congratulate Ross Sherlock (Class of '89) who has just joined Laurentian University, where he will be wearing many hats as the Chair in Exploration Targeting, the Director of MERC and the incoming Director for Metal Earth.

PLEASE JOIN DR. MOIRA MCPHERSON, INTERIM PRESIDENT AND VICE-CHANCELLOR

**PDAC ALUMNI & FRIENDS**  
*breakfast*

**Monday, March 5, 2018**  
8:00 am Breakfast  
8:30 am Presentations

InterContinental Toronto Centre – Ballroom B  
225 Front Street West, Toronto, Ontario

Visit our booth at PDAC 2018 (MTCC South, Booth #946)

Limited seating - RSVP: [devon.ottertail@lakeheadu.ca](mailto:devon.ottertail@lakeheadu.ca)  
by February 26, 2018

 CENTRE OF EXCELLENCE FOR  
SUSTAINABLE MINING  
& EXPLORATION

 **Lakehead**  
UNIVERSITY

**Alumni**  
Engage, Celebrate, Share.

Please contact [peter.hollings@lakeheadu.ca](mailto:peter.hollings@lakeheadu.ca) if you have a story to share



## Faculty Success

Dr. Pete Hollings was named the 2017-2018 Howard Street Robinson Lecturer by the Mineral Deposits Division of the Geological Association of Canada. The Howard Street Robinson Medal recognizes a respected and well-spoken geoscientist who will further the scientific study of Precambrian Geology and/or Metal Mining through a presentation of a distinguished lecture across Canada. Pete started his tour with a western Canada leg in the Fall and will be visiting S. Ontario and eastern Canada in the New Year.



## Research Success



Geology students have been prolific publishers of late. Mike D'Angelo (*Class of '13*) published a paper on the "Petrogenesis and Magmatic Evolution of the Guichon Creek Batholith: Highland Valley Porphyry Cu  $\pm$  (Mo) District, South-Central British Columbia" in the December issue of *Economic Geology*. This paper is the results of Mike's MSc research. Tim McIntyre (*Class of '14*) published a 30 page research paper in 'The Depositional Record', the open access journal of the International Association of Sedimentologists. Tim's paper on the "Sedimentol-

ogy and geochemistry of the 2939 Ma Red Lake - Wallace Lake carbonate platform, Western Superior Province, Canada" was based on his Honours thesis work. Finally, Sophie Kurucz (*Class of '17*) has had a paper on "Internal fabric of giant domes in the Mesoarchean Steep Rock carbonate platform, Superior Province, Canada" accepted for publication in the *Canadian Journal of Earth Sciences*. The paper is based on her Honours thesis work on sedimentary micro-structures in the layers composing giant domes in the 2,800 Ma limestone at Steep Rock.

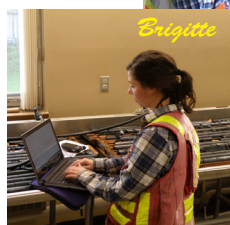


## Student Success

Our graduate students have been very successful in the last few months with MSc students Emily Gorner and Vittoria Smith both winning Graduate Student Fellowships from the Society of Economic Geologists. Emily is working with Dr. Pete Hollings on the "Alteration mineral chemistry of the Hemlo Au deposit" while Vittoria is working with Dr. Shannon Zurevinski on the "Isotopic

systematics of the Ghost Lake Batholith, ON". In addition Nicholas Derome, who is working with Dr. Hollings on the "Alteration mineral chemistry of the Red Lake Au deposit" received a student research grant from the Society of Economic Geologists Canada Foundation.

Finally, Brigitte G  linas was a runner-up in the competition for the Mary-Claire Ward Geoscience Award, presented by the Geological Association of Canada to acknowledge excellence in mapping.



Want to know more? Please visit our web site at [www.geology.lakeheadu.ca](http://www.geology.lakeheadu.ca)