

LAKEHEAD
Lakehead University Geology Department
Alumni Newsletter #14
GEOLOGY
February, 2017

Department News

It has been another busy year in the Department with ten new MSc students joining the program and a healthy crop of undergrads. With Dr. Hollings stepping in as Interim Dean of the Faculty for a few months, Dr. Conly has been the Acting Chair of the Department. We will once again be hosting a breakfast at PDAC and hope to see you there, failing that stop by our booth in the Trade Show or come say hello in Thunder Bay.

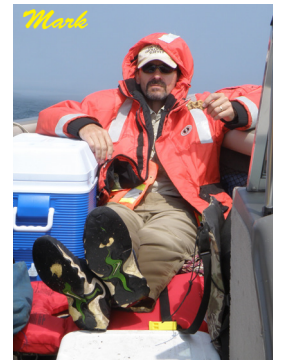


Alumni News

This past year has been one of change for a number of our alumni. Jack Parker (*Class of '80*) has been appointed the Director of the Ontario Geological Survey while Mark Smyk (*Class of '84*) has just been appointed Senior Manager of the Resident Geologist Program of the



OGS. Cam McCuaig (*Class of '88*) has moved on from his position of Director of the Centre of Exploration Targeting to take on a new role as Principal Geoscientist at BHP Billiton's Geoscience Centre of Excellence. Finally, Adam Fage (*MSc Class of '11*) is now Project Manager with GroundTruth Exploration. In other news alumna Roisin Kyne (*Class of '09*) has been profiled in an article on Silicon Republic. She talks about her career as a geologist and why it's important for the STEM sector to change its image. You can read the article [here](#). If you have news you would like to share please let us know.



PLEASE JOIN DR. BRIAN J.R. STEVENSON, PRESIDENT AND VICE-CHANCELLOR

PDAC Alumni & Friends Breakfast

Monday, March 6, 2017

8:00 am Breakfast

8:30 am Presentations

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

Visit our booth at PDAC 2017 (MTCC South, Booth #946)

Limited seating - RSVP: devon.ottertail@lakeheadu.ca by February 27, 2017



CENTRE OF EXCELLENCE FOR
SUSTAINABLE MINING
& EXPLORATION



Lakehead
UNIVERSITY

Alumni
Engage. Celebrate. Share.

Please contact peter.hollings@lakeheadu.ca if you have a story to share

Alumni Success

Alumna Sue Craig (*MSc - Class of 91*) has been in the news recently having won the Gold Pan Award for “exceptional meritorious service to the mineral exploration community” from the Association for Mineral Exploration in B.C during this years Roundup meeting and then followed that with the Canadian Women in Mining Trailblazer Award, which will be presented to her at PDAC.

Research Success

Dr. Phil Fralick was part of a team to receive a major grant from the European Union. Drs. Stefan Lalonde, European Institute for Marine Studies and University of Brest, and Philip Fralick received 1,850,000 Euros (\$2,720,000 Canadian) from the European Research Council to explore over the next five



Sue with her award from AMEC



Phil

years when photosynthesis started on planet Earth. The project will examine an extensive 2,930,000 m.y. carbonate platform in the Red Lake area, with isolated exposures further north. The 200m thick platform hosts prolithic stromatolites in some units and overlies a deeper water sequence of carbonaceous shales, massive pyritic sulfides, chert and iron formation. Three dimensional stratigraphic models will be made of the depositional system and a large variety of samples will be analyzed for chemical proxies that will indicate if oxygen was present in the environment or not. The large amount of reductants in the atmosphere-ocean system at the time would not allow oxygen to accumulate except in spatially restricted areas for short time periods. Thus, some of the shallow water tidal ponds and lagoons may

preserve the chemical trace of oxygen showing that photosynthetic oxygen production had evolved by this time. Dr. Amanda Diochon's work has also been in the news with her paper "Profiling undergraduate soil science education in Canada: Status and projected trends" having been selected as one of the "Editor's Choice" articles for 2017 by the Canadian Journal of Soil Science.

CESME We have continued our successful Speaker Series in the past year. On October 27, we co-hosted Victoria Tauli-Corpuz, United Nations Special Rapporteur on the Rights of Indigenous Peoples who gave a talk on "Free, Prior and Informed Consent: A Local and Global Issue" to a packed house. This month we had a visit from Dr. Sara Seck who talked about "A Gender Perspective on Business, Human Rights, and Sustainable Mining". If you would like to see what you missed, these presentations can be found on the CESME [website](#). We are also proud to announce that we have established the CESME Advisory Board - Dr. John Mason is chairing the board which is made up of Peter Moses, Dr. Jim Franklin, Glenn Nolan and Scott Jobin-Bevans.

Student Success Chanelle Boucher an HBS student working with Dr. Hollings on a study of "Alteration and geochemistry of sedimentary units within the Coldwell Complex" was awarded a 2016 SEG Canada Foundation \$1,000 scholarship to support her research. In addition, just this week, Carina Leale and Ruth Orloci-Goodison were awarded NSERC – Undergraduate Student Research Awards. These awards will allow them to spend the summer working with Dr. Diochon. Ruth's study will compare the effect of forest harvesting and wildfire on the carbon associated with crystalline clays, short-range order iron and aluminum phases and polyvalent cations using multiple analytical techniques. Carina will use isotopes (^{137}Cs , ^{210}Pb , ^{14}C and ^{13}C) to trace the transformation and transport of soil organic carbon in the profiles of forest soils disturbed by harvesting and fire. Sophie Kurucz and Teagan Ojala also received USRA awards and will be working with Dr. Fralick. Sophie will be investigating a Paleoproterozoic glacial unit and overlying carbonate cap whereas Teagan is going to undertake 3-D modelling of the 1.83 Ga Rove turbidite apron.



Chanelle

Want to know more? Please visit our web site at www.geology.lakeheadu.ca