

45th College Chemistry Canada Annual Conference “Chemistry: From Classroom to Career”

NAIT (Dow Theater CAT 191), May 25-27, 2018

March 21, 2018

Thursday, May 24

12:45pm – 4:30pm	Industrial tour – Syncrude Research Facility
6:00pm – 8:00pm	Registration and welcome reception – CRAFT Beer Market, 10013 101A Ave NW, Edmonton

Friday, May 25 / CAT191 Dow Theater

8:00am	Registration
8:30am	Welcome and opening remarks – Stewart Cook, Dean, School of Applied Sciences and Technology, NAIT
8:45am	Plenary lecture with Dr. Charles Lucy, University of Alberta <i>“Experiences and Benefits of a Career Development Course for Chemistry Students”</i>
10:00am	Coffee break
10:15am	Session 1 – member talks
12:00pm	Lunch
1:00pm	Session 2 – member talks
2:45pm	Coffee break
3:00pm - 4:00pm	Session 3 – member talks
6:30pm	Banquet at Ernest’s (6:30pm – reception; 7:00pm – dinner)

Saturday, May 26 / CAT191 Dow Theater

7:00am	Fun run
8:45am	<i>“Chemistry: From Classroom to Career”</i> employer panel (EPCOR, Gilead Sciences, Imperial Oil, Nalco Champion, InnoTech Alberta)
10:00am	Coffee break
10:15am	Session 4 – member talks
12:00pm	Lunch
1:00pm -4:00pm	<i>Integration of Green Chemistry in Lecture and Laboratory Courses</i> Symposium organized in collaboration with University of Alberta Campus St Jean
4:30pm	Tour of the University of Alberta Campus Saint-Jean Green Labs

Sunday, May 27 / CAT191 Dow Theater

8:45am	Plenary speaker – Dr. Heather Kaminsky, P.Eng., NAIT <i>“From Classroom to Career: Helping Students on the Path to an Applied Research Career”</i>
10:00am	Coffee break
10:15am	Session 5 – member talks
11:00am	C3 AGM and closing remarks

College Chemistry Canada 2018 Conference Plenary Speakers

Charles Lucy, *University of Alberta*



Bio: Dr. Charles (Chuck) Lucy is a Professor Emeritus at the University of Alberta. Chuck is a passionate teacher who has taught classes of 400+ freshman students to small discovery based graduate lectures, but his primary teaching has been introductory analytical chemistry. He is a contributing author to Daniel Harris's *Quantitative Chemical Analysis*, the most popular textbook in the field. Chuck has organized many W.E. Harris Teaching Workshops that brought instructors from across western Canada together to discuss the teaching of chemistry, and many chemistry education symposia at national meetings, Pittcon and Pacifichem.

He has received the Faculty of Science Teaching Innovation Award and the Rutherford Award for Excellence in Undergraduate Teaching from the University of Alberta; and the Award for Chemistry Education from the Chemical Institute of Canada; and has been named a 3M National Teaching Fellow and inducted into the WACE Co-op Hall of Fame.

Chuck has supervised 35 graduate and 40 undergraduate research students, and co-authored 160 articles and 500 presentations on analytical chemistry and chemistry education.

Chuck's research recognitions include: the W.A.E. McBryde Medal and Maxxam Award from the Canadian Society of Chemistry; the International Ion Chromatography Achievement Award; and a Killam Annual Professorship.

Heather Kaminsky, *Centre for Oil Sands Sustainability, NAIT*



Bio: Heather graduated from University of Alberta where she completed a PhD and BSc Co-op in Materials Engineering. Heather's PhD thesis was on the Characterization of an Oil Sand Ore and Process streams, where she learned about the types of clay minerals found in the oil sands and studied how they distribute around extraction. During her thesis she also undertook work to study the fundamental structure of some of the clay and heavy minerals in the oil sands using advanced characterization techniques such as quantitative x-ray diffraction, and

transmission electron microscopy.

After graduation Heather worked for Total Canada for 5 years and for Suncor Energy for 2 years in research engineering roles. Heathers work in industry focused on:

- Advanced Ore Characterization
- Impacts of Clay Minerals on Extraction and Tailings.
- Fundamentals of Tailings
- Tailings Planning
- Novel Tailings Treatments
- Materials Wear and Corrosion
- Water Treatment
- Water Chemistry Modeling
- Waste Valorization

Heather was also heavily involved in both CONRAD and COSIA chairing the Clay Focus group for both organizations as well as the Deposit Characterization Working group for COSIA.

Heather currently works at NAIT's Center for Oil Sands Sustainability where she leads the Mining research team.

Heather has a passion for Clays and Tailings and hopes to play a key role in solving tailings as an issue for the oil sands industry. This passion has earned her the moniker "Queen of Clay".