



FACULTY OF SCIENCE

Conversations on Science Education Symposium

SCHEDULE-AT-A-GLANCE

Monday, June 12, 2023

9:00 PM

Welcome!

Pedagogical Innovation Chair, Science Education, Dr. Tamara Kelly

9:05AM-
10:05AM

**Keynote: Dr. Michelle Hogue, University of Lethbridge
Decolonizing Teaching and Learning in STEM**

(in-person and live-streamed)

Dr. Michelle Hogue (Mai'staakaii), is an associate professor and Coordinator of the Indigenous Student Success Cohort (ISSC) program at the University of Lethbridge. Her locally, nationally, and internationally recognized teaching and research focus on building bridges between Indigenous and Western ways of knowing and learning. She uses culturally relevant and innovative methodological approaches that blend required curricular and institutional demands with methodological teaching and learning practices that attend to Indigenous Ways of Knowing and Learning. Her research and Scholarship of Teaching and Learning (SoTL) explores best practices in Canada, Australia and New Zealand to develop an inclusive, culturally responsive teaching practice and curricula through the philosophy of Bridging Cultures: Two-Eyed Seeing for Both Ways Knowing to enable Indigenous engagement, retention and academic (and STEM) success broadly and with a passionate focus in the sciences and mathematics.

10:10AM-
10:20AM

Coffee Break

Thought provoking question: Should we post complete lecture notes, skeleton notes, or no notes?



10:30AM-
11:30AM

Community Discussion from Keynote - Putting our learning into action

Details: Using takeaways from Dr. Michelle Hogue's keynote, we will have a facilitated community discussion in small groups to discuss what resonated with us as instructors, lessons learned, what supports we need to decolonize our courses (small or large), specific techniques we could implement, and follow up questions we have for Dr. Hogue. Can we identify actions for the coming year?

11:30AM-
12:30PM

Catered Lunch

Thought provoking question: What do you do in your classes to encourage purposeful interactions?

12:30PM-
1:30PM

Shorts: Welcome to my classroom!

Details: Attendees are invited to show/share something from their classroom. For example:

- Something you do to improve course administration
 - A technique you use to organize a large exam
 - Something that worked well in your class
 - An aspect of classroom management that works well for you
 - A way for calculating grades
 - A technique you use for administrating labs
 - Something that didn't work!
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1:30PM-
1:45PM

Coffee Break

Thought provoking question: What is your favourite online technology for the classroom? (e.g., Jamboard, Google Docs, Kritik)

1:45PM-
2:45PM

Fix my Issue!

Details: We have a wealth of knowledge about teaching and learning within our Faculty, so let's use it! This session will feature facilitated breakout groups on topics in science teaching and learning. Choose your topic and bring your questions and issues for crowdsourced solutions.

Topics could include (but aren't limited to) tips & suggestions for:

- teaching large classes
- improving equity, diversity, and inclusion in your classroom
- assessment design and administration
- helping students practice problem solving
- supporting students with accommodations in laboratories
- keeping attendance high in your classroom
- recognizing and supporting struggling students
- and more!



2:45PM-
3:00PM

Coffee Break

Thought provoking question: will be based on the day's discussion

3:00PM-
3:45PM

Workshop: Reflecting and Connecting

Details: Effective teaching involves intentional reflection and revision of our teaching practices. Here, we'll take time to think critically about our takeaways and what they mean to our future teaching. This is an opportunity to connect and collaborate with colleagues to make change.

3:45PM-
4:00PM

Wrap Up & Concluding Remarks