

FULL PROGRAM

Conference on University Teaching and Learning

- 10:00 a.m. - 10:10 a.m. Welcome
- 10:10 a.m. - 10:30 a.m. Opening Remarks by Dr. Steven Murphy, President and Vice-Chancellor, Ontario Tech University
- 10:30 a.m. - 11:00 a.m. **Immersive Technologies in Teaching**
Dr. Alvaro Quevedo, Assistant Professor, Faculty of Business and IT
- 11:00 a.m. - 11:30 a.m. **Consider the Learning - and the Teaching will Follow**
Dr. Diana Petrarca, Associate Professor, Faculty of Education
- 11:30 a.m. - 12:00 p.m. **Integrated Research and Teaching for Multidisciplinary Approaches in Engineering Education**
Dr. Sheldon S. Williamson, Professor, Faculty of Engineering and Applied Science

Co-Presenters: Latha Anekal, Anindita Golder, and Alvin Huynh
- 12:00 p.m. - 12:30 p.m. Lunch
- 12:30 p.m. - 1:00 p.m. **Enhancing Teaching & Learning with the Library**
Michelle Johnson, Open Education Librarian and Chelsie Lalonde, Social Science and Education Librarian
- 1:00 p.m. - 1:30 p.m. **Open Education Showcase**

More Than Just Free Textbooks – Development of a Customized Workbook for a Human Physiology Class
Annette Tavares, Associate Teaching Professor, Faculty of Science

DIY Q&As: created by students, for students
Dr. Elita Partosoedarso, Senior Teaching Professor, Faculty of Health Sciences

Technology in the Curriculum: Student Insights into Teaching with Technology
Dr. Joe Stokes, AVP International, University Registrar and Adjunct Professor, Faculty of Education
- 1:30 p.m. - 2:45 p.m. **Panel Discussion**

Use or lose? Lessons from teaching in the pandemic. What should we carry forward?

Dr. Jeremy Bradbury, Faculty of Science; Dr. Stephen Marsh, Faculty of Business and IT; Dr. Thomas McMorrow, Faculty of Social Sciences and Humanities; Dr. Tanner Mirrlees, Faculty of Social Sciences and Humanities; Dr. Nasim Moallemi, Faculty of Engineering and Applied Science
- 2:45 p.m. - 3:00 p.m. Closing remarks by Dr. Lori A. Livingston, Provost and Vice-President Academic, Ontario Tech University

Session Details

Morning Sessions

Session 1 - 10:30 a.m. to 11:00 a.m.

Immersive Technologies in Teaching

Dr. Alvaro Quevedo

Immersive technologies were widely adopted and studied during the COVID-19 pandemic shift to online learning. Immersion, presence, embodiment, quantitative assessment, and safe exposure to scenarios otherwise impossible in real life are some of the benefits of using digital worlds for training and educational purposes. While typically used in industrial, research, and specialized use cases, the availability of consumer-level technology has allowed the use of virtual, augmented, and mixed reality as stand-alone or cross-device experiences under the umbrella of extended reality. In this presentation, I will share how I have used some immersive technologies in the classroom during the pandemic and how I will continue using them teaching in-person.

Session 2 - 11:00 a.m. to 11:30 a.m.

Consider the Learning--and the Teaching will Follow

Dr. Diana Petrarca

A common (and hopefully fleeting) myth floating around educational institutions and in society is that educators can "make" students learn. Learning is highly complex and it is something that learners do--not something we make happen to our students. Our role as educators then is to create instructional experiences to help our students learn. By reframing what it means to "teach" and keeping the learners at the centre of our planning, instruction, and assessment, we might gently nudge our education systems, which are typically slow to change, towards practices that optimize learning for all students. This presentation does not presume to provide a one-size fits all formula or "best way" to teach and learn but rather, the intention of this presentation is to simply address assumptions about teaching and learning with the hope to stimulate personal reflection regarding our own teaching and learning practices, while keeping our learners at the forefront of our work.

Session 3 - 11:30 a.m. to 12:00 p.m.

Integrated Research and Teaching for Multidisciplinary Approaches in Engineering Education

Dr. Sheldon Williamson, Latha Anekal, Anindita Golder, and Alvin Huynh.

Modern engineering solutions require multidisciplinary design. Take the automotive industry, for example. Initially, the design cycle was focused on mechanical engineering. Today, the industry has evolved and promotes multidisciplinary design optimization cycles that include: Materials Science, Electrical Engineering, Fluid dynamics, Artificial Intelligence, and Electronic Design, to name a few. So, the question is: How can we prepare future engineers to adopt new design approaches when the focus of their degree is concentrated on a specific discipline? In response, many engineering programs are beginning to adopt the teaching of multidisciplinary projects at an introductory level, using product design examples. This presentation will highlight the importance of multidisciplinary approaches leading to innovation in the global perception of engineering education. It will focus on the role of multidisciplinary approaches in the design and development of electrified transportation and smart e-mobility as a successful experience.

Lunch Session

Session 4 - 12:30 p.m. to 1:00 p.m.

Enhancing Teaching & Learning with the Library

Michelle Johnson and Chelsie Lalonde

During this lunch-time session, learn how the Library enhances student learning. Find out about our instructional and research services including Canvas library modules, instructional videos and research consultations. Discover how Librarians support the creation of Open Educational Resources and provide guidance on copyright and licensing in the classroom.

Afternoon Sessions

Open Education Showcase - 1:00 p.m. to 1:30 p.m.

More Than Just Free Textbooks – Development of a Customized Workbook for a Human Physiology Class

Annette Tavares

DIY Q&As: created by students, for students

Dr. Elita Partosoedarso

Technology in the Curriculum: Student Insights into Teaching with Technology

Dr. Joe Stokes

Panel Discussion - 1:30 p.m. to 2:45 p.m.

Use or lose? Lessons from teaching in the pandemic. What should we carry forward?

Panelists

Dr. Jeremy Bradbury, Faculty of Science

Dr. Stephen Marsh, Faculty of Business and IT

Dr. Thomas McMorrow, Faculty of Social Sciences and Humanities

Dr. Tanner Mirrlees, Faculty of Social Sciences and Humanities

Dr. Nasim Moallemi, Faculty of Engineering and Applied Science

This panel will explore the impact of the pandemic on university teaching and learning. A group of Ontario Tech instructors will share the lessons they learned after two years of pandemic pedagogy. The panelists will reflect on how the pandemic has impacted their teaching approaches. In addition, they will illustrate any changes they made to their teaching practices, and share the strategies they use to adapt to the ever-changing teaching and learning landscape.