

Descriptions for 2022 IET and IEER Institutes

The IET and IEER are full-day workshops held on Saturday, June 18, at York University as part of the CEEA-ACÉG annual conference. Registration details can be found at the end of this document.

The 2022 CEEA-ACÉG Institute for Engineering Teaching (IET)

The IET is a full-day teaching workshop is tailored for engineering educators and is designed to provide perspectives, tools, and tips to improve teaching effectiveness for those responsible for the design and delivery of engineering courses.

Highly interactive, with an emphasis on effective, evidence-based methods and best practices in engineering education, the IET is delivered using the same techniques it promotes. Specifically, the IET considers multiple aspects of course design and delivery through the lens of constructive alignment: participants will explore high-level course design, meaningful learning outcomes, engaging learning activities, and effective assessments. Developed and delivered by a team of award-winning engineering educators from across Canada, the IET includes plenty of opportunity for input and advice on any course design and delivery questions, as well as networking with other engineering educators from across the country. Participants will retain access to a suite of online materials and resources used and referenced during the IET.

Workshop Facilitators:

- Sean Maw, University of Saskatchewan
- Nancy Nelson, Conestoga College
Institute of Technology & Advanced Learning
- Gordon Stubley, University of Waterloo
- Chirag Variawa, University of Toronto

The 2022 CEEA-ACÉG Institute for Engineering Education Research (IEER)

This workshop provides participants with a high-level overview of the knowledge required to design and facilitate research studies in engineering education. The workshop will offer a history of the field of engineering education research, an overview of the steps in designing engineering education research studies, and a guide to defining research questions. You'll delve into the role of knowledge traditions in the research process, and consider how to create a research project that's well aligned between research questions, philosophy, frameworks, methodology & methods.

Participants will learn about key methodologies used in Engineering Education research, namely qualitative, quantitative, mixed methods and design-based research, with a focus on the terminologies, mindsets, key methods, and approaches.

The workshop design includes a mix of direct instruction and active learning activities. Participants will have opportunities for collaboration and networking.

Workshop Facilitators:

- Marnie Jamieson, University of Alberta
- Susan McCahan, University of Toronto
- Robyn Paul, University of Calgary
- Lisa Romkey, University of Toronto
- Jillian Seniuk Cicek, University of Manitoba

Details for Both Institutes

Times: Saturday, June 18, 9:00 AM to 4:45 PM EDT

Location: York University, Toronto

Other: includes lunch and light snacks