

Saturday Events at CEEA-ACÉG 2024

Join us on Saturday, June 15 for a day of new focused topics workshops offered by the CEEA-ACÉG Institute for Engineering Education Research (IEER) and the CEEA-ACÉG Institute for Engineering Teaching (IET), as well as a new full-day workshop on the Philosophy of Engineering Practice (PEP). The workshops provide excellent opportunities for professional development and networking with other engineering educators from across the country (and from outside Canada). The workshops are offered in person on Saturday, June 15 in conjunction with the CEEA-ACÉG Annual Conference in Edmonton, Alberta.

The IEER and IET workshops are each half-days and you can take one or two in any combination you like. The PEP workshop is a full-day. Lunch and snacks are included for both half- and full-day attendees. The descriptions and details:

Morning workshops (9 AM – 12)

- **IEER (Study Design): Key Steps in Designing an Engineering Education Research Study.** Participants will walk through the steps necessary to create a high-quality research study plan. The workshop utilizes a unique card deck developed by the facilitators, which include research questions, exploration of theory and conceptual frameworks, and an introduction to a range of methodologies. This approach ensures your research study has the necessary grounding in theory, supports the development of a well-aligned plan, and offers an engaging and interactive approach to learning about study design. (Facilitators: Marnie Jamieson, University of Alberta; Susan McCahan, University of Toronto; Kimia Moozeh, University of Toronto; Robyn Paul, University of Calgary; Jillian Seniuk Cicek, University of Manitoba; Lisa Romkey, University of Toronto)
- **IET (AI): Effective, Efficient, and Ethical use of Generative AI in the Engineering Classroom.** In this interactive workshop, you will use foundational frameworks—including constructive alignment, deliberate practice, and the fraud triangle—to bring generative AI to your classroom. The session will include hands-on activities exploring how both teachers and students can utilize AI in learning activities and assessments, as well as strategies for reducing inappropriate use of AI. (Facilitators: Nancy Nelson, Conestoga College; Peter Ostafichuk, University of British Columbia; and Chirag Variawa, University of Toronto)

Afternoon workshops (1 – 4 PM)

- **IEER (Study Design): Facilitated Working Session in Engineering Education Research Study Design.** This session offers participants a supportive working space for study design. Participants will have the opportunity to get one-on-one advice on a research design, receive critiques from other participants, and learn how to turn their plan into a more complete research study that can be used to apply for funding, or serve

as a project proposal. Participants can come with an idea already in mind or brainstorm ideas for a new direction in their research during the workshop. (Facilitators: Robert Fleisig, McMaster University; Marnie Jamieson, University of Alberta; Susan McCahan, University of Toronto; Janice Miller-Young, University of Alberta; Kimia Moozeh, University of Toronto; Robyn Paul, University of Calgary; Jillian Seniuk Cicek, University of Manitoba; Lisa Romkey, University of Toronto)

- **IET (CBA): An Introduction to Competency Based Assessment.** This workshop introduces the principles behind Competency Based Assessment (CBA), which seeks to ensure that each student has attained and can articulate foundational competencies during a course or program. The session will explore issues of implementation that support accountability, transparency and fairness, and allow participants to work on building CBA into a course of their choice. (Facilitators: Sean Maw, University of Saskatchewan and Agnes d'Entremont, University of British Columbia).

Full-day workshop (8:30 – 4 PM)

- **PEP: Philosophy of Engineering Practice (PEP) Pilot workshop.** The Philosophy of Engineering Practice (PEP) workshop guides participants, through dialogue and reflection, in an exploration of the purpose of engineering practice within society and how engineering practice is supported and developed within engineering education. The PEP workshop will facilitate discussions around how engineering practice informs engineering graduate attributes, and how this practice supports the development of such attributes within students. (Facilitators: Kush Bubbar, University of New Brunswick; John Donald, University of Guelph; Alon Eisenstein, University of British Columbia Okanagan; Marnie Jamieson, University of Alberta)

Workshops Details and Registration

- Location: University of Alberta, Edmonton (same location as the CEEA-ACÉG 2024 Annual Conference)
- Date: Saturday, June 15, 2024
- Register: <https://ceea.wildapricot.org/event-5597535>
- Cost:
 - One IEER or IET workshop: \$160 for CEEA-ACÉG professional members; \$60 for CEEA-ACÉG student and post-doc members; \$225 non-members
 - Two workshops (IEER and/or IET): \$225 for CEEA-ACÉG professional members; \$75 for CEEA-ACÉG student and post-doc members; \$350 non-members
 - PEP workshop: \$40 for CEEA-ACÉG professional members; \$40 for CEEA-ACÉG student and post-doc members; \$350 non-members