

Evidence Based Teaching: Teaching as Scholarship

Facilitators Professors John Heywood, Trinity College Dublin, and Arnold Pears, Royal Institute of Technology (KTH) Sweden.

The workshop provides participants with **new teaching approaches** and **techniques to enhance their teaching practice** and **improve student course evaluations**.

Interested participants have the option to carry out **individual educational innovation projects** under the **personal mentorship** of Professors Heywood and Pears with the aim of **presenting their results at FIE 2019**.

The full day workshop consists of a series of four professional development sessions dealing with key aspects of sustainable innovation and evaluation in academic teaching.

Workshop participants:

- Acquire a portfolio of best practices in STEM education
- Read and discuss selected articles from the STEM higher education research literature
- Review models for systematic investigation of teaching practices
- Reflect on application of STEM education theories to their own teaching

Outcome: Participants equipped to conduct evidence based innovation and evaluation

Registration provides participants online access to Professor Heywood's most recent book "**Empowering Professional Teaching in Engineering - Sustaining the Scholarship of Teaching**", in addition the resources include an annotated compendium of selected scholarly articles of significance for all university teachers, and a series of video lectures and presentations.

Each participant receives a certificate of participation certifying 6 hours of professional development units (PDUs) issued under the auspices of the IEEE STC for Education and the ASEE.



Arnold Pears is Professor of Technical Science Education and Chair of the Department of Learning in the School of Education and Communication in Engineering Science, KTH Royal Institute of Technology, Sweden. He is also Professor of Computing Education Research at Uppsala University, Director of the Swedish National Center for Student-centric Education in a Societal Context (CeTUSS) and leader of the UpCERG research group. Professor Pears has lead professional development courses for Engineering Educators annually since 2010 and has published over 100 scholarly articles in computing and engineering education.



John Heywood is Emeritus Professor at Trinity College Dublin. Professor Heywood is well known as the author of "Research and Development in Curriculum and Instruction" which received the 2006 award for the best research publication from the Division for the Professions of the American Educational Research Association. His other books include "The Assessment of learning in Engineering education. Practice and Policy", and "Instructional and Curriculum Leadership: Toward Inquiry Oriented Schools". He is a Fellow of the American Society for Engineering education and a Fellow of the institute of Electrical and Electronic Engineers. Before he retired he was Professor and Director of Teacher Education at the University of Dublin.