

ENGINEERING EDUCATION RESEARCH

A SEFI working group

Globally, engineering education research is on the agenda for the improvement of higher engineering education and the development of strategies for solving important issues for the future of engineering education, such as recruitment, the need for new competences and the ability to deal with new types of interdisciplinary and complex knowledge.

Engineering education research in Europe, is characterized by a unique interdisciplinary approach where engineering education researchers do have various backgrounds in engineering, science, social science and educational psychology investigating higher engineering education.

OBJECTIVES

The overall objective of the SEFI Working Group on Engineering Education Research (WG-EER) is **to create a European community of engineering education researchers** in order to contribute with research evidence to the advancement of engineering education.

Specific objectives are:

- ▶ **to raise** awareness of the need of a research approach to the development of engineering education,
- ▶ **to identify and define** the research area of engineering education and the engineering education researchers,
- ▶ **to support** the establishment of engineering education research as a discipline in Europe as a whole as well as regionally,
- ▶ **to establish and contribute** to European research projects,
- ▶ **to collaborate** in the training of PhD students and to establish a European standard for doctoral training for engineering education researchers
- ▶ **to influence and strengthen** the engineering education research dimension at SEFI annual conferences
- ▶ **to actively support** the development of the SEFI journal European Journal of Engineering Education as a platform for research on engineering education

ACTIVITIES

WG-EER has seminars and meetings at annual conferences every year. In between there will be local initiatives. All the announced activities are to be found on the virtual platforms.

ORGANISATION

The organisation of the WG-EER will continuously be discussed among members. The intention is to have working group meetings twice a year and to run research symposia once a year. Beside these activities, there will initiatives related to projects, research training and the establishment of a community of practice.



Chairperson

Dr Jonte Bernhard
Engineering Education Research Group,
ITN, Campus Norrköping, Linköping University
SE-60174 Norrköping, Sweden
Email: jonbe@itn.liu.se