

The challenge of sustainability in engineering (education)

Session head: Ulrik Jørgensen

Professor at the DIST centre, AAU Cph., Denmark, uljo@plan.aau.dk

ABSTRACT

Keywords – sustainability, curriculum, engineering.

Exchange / hands-on session

Sustainability is on the agenda in most engineering institutions and programs – it is so to say a contemporary, unavoidable issue. But the practices of implementation in day to day study activities and in engineering models and practices is extremely varied from paying lip-services to the challenges to reforming basic priorities and learning approaches.

The session explores this variety and identifies the main challenges. Different approaches discussed and the need for an operational set of metrics as well as a rethinking of engineering is presented.

The discussion will combine experiences from the represented participants and institutions concerning use of metrics and the extent of reform implemented to cater for sustainability challenges to engineering.

Outcomes is planned to be a report that outline the challenge to engineering education and practice as well as to the representation of sustainability in the instrumental approaches dominant in engineering.