

Program 4th CeTUSS workshop: Perspectives on use of technology in engineering education

December 4 - 5, 2006, Polacksbacken 2446, Uppsala, Sweden

Monday, December 4

10.00 Coffee

10.30 **Opening and keynote**

Mats Daniels (CeTUSS) and Trond Clausen (IEEE)

A Teacher for Every Learner, Andrew Bernat, CRA, USA

12.00 Lunch

13.30 **Technology support in a course**

Finnish virtual university network for teaching basic programming, Ari Korhonen and Eija Ristimäki, Finnish Virtual University, Finland

A web-based course in information search, Linda Thorn and Eva Nordgren, Uppsala University

Computer algebra programs in group analysis and education for engineering students, Nail Ibragimov and Raisa Khamitova, Blekinge Institute of Technology

15.00 Coffee

15.30 **Technology and engineering education**

Some ideas for computer aided learning in structural mechanics at KTH, Gunnar Tibert, Royal Institute of Technology

Improvement of college physics education using computer technology in China, Zhu Xia, and Jonte Bernhard, Linköping University

The bachelor thesis in computer science at BTH autumn 2006 and in the future, Birgitta Hermansson, Blekinge Institute of Technology

17.00 End day 1

19.00 Dinner

Tuesday, December 5

09.00 **Concepts and artifacts**

Threshold concepts and key concepts in electrical engineering education, Anna-Karin Carstensen, Jönköping University, Margarita Holmberg, and Jonte Bernhard, Linköping University

Perspectives on use of artifacts in engineering education – applying insights from philosophy of technology and theories of mediated action, Jonte Bernhard, Linköping University

10.00 Coffee

10.30 **Technology and distance**

Cross-Atlantic collaboration, do the tools work?, Students, Uppsala University and Rose Hulman Institute of Technology, Terre Haute, Indiana, USA

A web-based platform for distance education, Damir Isovich, Mälardalen University

New possibilities using traditional electronics laboratory featuring a remote control option, Ingvar Gustavsson, Blekinge Institute of Technology

12.00 Lunch

13.30 **Now and the future**

Technology and education in developing countries, Johan Hellström, Uppsala University

Technology and Education: The right tool at the right time?, Arnold Pears, Uppsala University

Wrap-up

15.00 Coffee & End