

# Scholarly publications on teaching and learning by DTU faculty from 2005 – 2009

## Publications with a discipline-focus

- Blessing, Lucienne, and Mogens Myrup Andreasen (2005): "Teaching Engineering Design Research; Engineering Design. Theory and Practice." Engineering Design Centre, University of Cambridge, 32-41.
- Boks, C., and Mcaloon, T.C (2009): "The Design of Eco Board Games as a Deep Learning Approach to Sustainable Product Design Education." 11th International Conference on Engineering and Product Design Education: Creating a Better World, E and PDE. Brighton.
- Andersen, Jens Enevold Thaulov (2009): "*Exercise in Quality Assurance: A Laboratory Exercise.*" *Journal of chemical education* 86.6, 733-7.
- Fan, Z., et al. (2006): "Teaching System Integration of Mechatronic Systems." 9th International Design Conference, DESIGN, Dubrovnik.
- Kontogeorgis, G. M., and M. E. Vigild (2009): "Challenges in Teaching 'Colloid and Surface Chemistry': A Danish Experience." *Chemical Engineering Education* 43.2, 137-42.
- Kontogeorgis, Georgios, Michael Loch Michelsen, and Karsten Clement (2009): "CURRICULUM - Teaching Chemical Engineering Thermodynamics at Three Levels : Experience from the Technical University of Denmark." *Chemical Engineering Education* 43.1, 70-8.
- Niemann, Hans Henrik, Jens Christian Andersen and Ole Ravn. (2009): "Towards a Modern Concept for Teaching Control Engineering." Proceedings of the 8th IFAC Symposium on Advances in Control Education.
- Nurmi, J., et al. (2005): "The SoC-Mobinet Model in System-on-Chip Education." 2005 IEEE International Conference on Microelectronic Systems Education, MSE. Anaheim, CA, 12 June 2005 through 13 June 2005.
- Raghevendran, V., J. Nielsen, and L. Olsson (2005): "Teaching Microbial Physiology using Glucose Repression Phenomenon in Baker's Yeast as an Example." *Biochemistry and Molecular Biology Education* 33.6, 404-10.
- Wilhelm, J. E., et al. (2008): "An Active Learning Approach to the Physics of Medical Imaging." *Medical Engineering and Physics* 30.5, 607-14.

## **Publications with an inter-/multidisciplinary focus**

Andersson, Niclas, and Pernille Hammar Andersson (2006): "Interdisciplinary Skills in Architectural and Engineering Education Programs": The Pedagogical Challenge; 4:E Pedagogiska Inspirationskonferensen.

Christensen, H. P. (2008): "Interdisciplinary just-in-Time Teaching: Active Learning in a Multicultural Setting; Designing and Implementing an Active and Equitable Engineering Education." Designing and implementing an active and equitable engineering education: Proceedings of eight international workshop ALE p. 309-314.

## **Publications with a generic (professional) competence focus**

Andersen, Torben O., Michael Rygård and Finn Conrad (2006): "Student Integration and Evaluation in Mechatronic Curriculum with PBL" Proceedings of 7th International Conference in Education and Mechatronics.

Hansen, Claus Thorp, Kees Dorst and Mogens Myrup Andreasen (2009): "Problem Formulation as a Discursive Design Activity"; Proceedings of the 17th International Conference on Engineering Design.

Hoffmann, Birgitte, Ulrik Jørgensen, and Henrik Bregnhøj (2009). "Intercultural Competences and Project Based Learning in the Engineering Curriculum; Teaching Cultural Skills." Nyt fra Samfundsvidenskaberne, p. 209-225.

Kenett, R., and P. Thyregod (2006): "Aspects of Statistical Consulting Not Taught by Academia." *Statistica Neerlandica* 60.3: 396-411.

McAloone, T. C. (2007): "A Competence-Based Approach to Sustainable Innovation Teaching: Experiences within a New Engineering Program." *Journal of Mechanical Design, Transactions Of the ASME* 129.7, 769-78.

## **Publications on teaching and evaluation methods**

Christensen, Hans Peter, et al (2009): "Active Teaching Methods, Studying Responses and Learning; Proceedings of the International Workshop on Active Learning in Engineering Education, Barcelona.

Pedersen, Elsebet Frydendal (2006): "Teaching Working Environment in the Construction Industry." Paper presented at Sixth International Workshop on Active Learning in Engineering Education.

## **CDIO (Create, Design, Implement, Operate) publications**

Christensen, Jørgen Erik, Rode Carsten and Borchersen, Egil (2009): "Development of Evaluation Procedure for Effective Implementation of CDIO." I Development of Evaluation Procedure for Effective Implementation of CDIO

Sparsø, Jens, et al. (2007): "Towards CDIO-Based B. Eng. Studies at the Technical University of Denmark." Proceedings 3rd International CDIO Conference.

Vigild, Martin E., Michael May and Karsten Clement (2007): "CDIO in Chemical Engineering Education." Proceedings of the 3rd International CDIO Conference, MIT, Cambridge, Massachusetts.

### **Publications on other topics**

Jørgensen, Ulrik (2007): "Historical Accounts of Engineering Education." *Rethinking Engineering Education*, Springer, 216-240.