Threshold Concepts: An Approach to Improve Engineering Education

http://www.ecm.uwa.edu.au/engineeringthresholds

Workshop

for people who teaching engineering and related disciplines

Participants will learn about the threshold concepts identified in foundation (1st and 2nd year) engineering courses for all engineering disciplines. Participants will learn to use threshold concept theory to improve teaching and learning in engineering courses. All teachers in engineering, chemistry, computing, mathematics, and physics are welcome.

Threshold concept theory is a recent development in discipline-based Higher Education research. Meyer, Land and others realised that there were certain concepts, central to the discipline, that would open up required systems and ways of thinking and yet were troublesome for students. It has been discovered that, not only can threshold concept theory help in focusing students’ and teachers’ attention, it can also be a curriculum development tool where there is a strong tendency to overcrowd the curriculum (Cousin, 2006; Land et al., 2005; Meyer et al., 2006).

Facilitators
Dr Sally Male, Dr Andrew Guzzomi
The University of Western Australia (UWA)

Sally has a background in electrical engineering and PhD in engineering education and at UWA and Curtin. She undertakes research on the engineering thresholds project. Andrew, a mechanical engineer, has taught at the University of Bologna and UWA and is a course developer for the new engineering science major at UWA.

Support
The workshop is one of three held in Australia in 2012. They are part of the project Engineering thresholds: an approach to curriculum renewal supported by the Australian Learning & Teaching Council. The workshops are further supported by The Australian Council of Engineering Deans (ACED). The venue is kindly provided by University of Technology, Sydney.

Date: Friday 13 April 2012
Place: CB02.7065
Building 2, Level 7 (adjoining tower)
University of Technology, Sydney
Time: 10.00am until 2.00pm
Refreshments: Light lunch provided
Cost: Free to participants
Registration Deadline: 7 March 2012
Further Information: sally.male@uwa.edu.au
Tel +61 8 6488 1242
http://www.ecm.uwa.edu.au/engineeringthresholds
Threshold Concepts: An Approach to Improve Engineering Education
Workshop on Friday, 13 April 2012
at CB02.7065, Building 2 (adjoining the tower), Level 7,
University of Technology, Sydney

REGISTRATION

Title (Prof/Dr/Mr/Ms …): _____ Full Name: ________________________________

University: ______________________________________

Position Title: ______________________________________

Email: ___________________________________ Telephone: ______________________

Postal Address: _________________________________________________________
______________________________________________________________________

Engineering discipline/subject you have taught or studied: __________________

Any special dietary or access requirements: __________________________________

How did you find out about the workshop? ________________________________

Please return to Sally Male by 7 March 2012
Email: sally.male@uwa.edu.au (requested details are sufficient without the form)
Fax: +61 8 6488 1015
Post: School of Environmental Systems Engineering (M015),
The University of Western Australia, 35 Stirling Hwy, Crawley Western Australia 6009

References

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