Australasian Association of Engineering Education

Award Finalists & Citation Recipients 2009
Programs that Enhance Learning

Innovation in curricula, learning and teaching

Promoting Professional Identity through Expansive Learning

This program relates to the courses Engineering Skills 1 and Engineering Skills 2 which form a major part of the first year study load at CQUiversity. These two courses establish the intellectual, educational and professional framework that drives the PBL curriculum design. The program team consists of Llewellyn Mann, Fae Martin, Ian Devenish, Prue Howard & Fons Nouwens.

PeerWise

PeerWise is an innovative web-based tool with which student work collaboratively to create a large repository of multiple choice questions with model answers, associated explanations, and related discussions. It was developed as a way to engage students in a large class (550 students) and focus their attention on the learning outcomes of the course. PeerWise was developed by Paul Denny, John Hamer & Andrew Luxton-Reilly at the University of Auckland.

Design based curriculum reform within engineering education

This project produced two distinct products which together help to systematically and quantitatively evaluate engineering curriculum at a program level. The first product, the Unified Code, is based on the CDIO Syllabus and the Engineers Australia National Generic Competency Standards (Stage 1). The second is Dynamic Program Stream Mapping, a dynamic mapping system to allow academics to evaluate their program curricula against a generic framework. This work was developed at the University of Sydney by Alcion Popp and David Levy.