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S C I E N C E

The University of Sydney

Symposium Proceedings

**Science Teaching and Learning Research
including Threshold Concepts**

**September 27 & 28, 2007
The University of Sydney**

UniServe Science

UniServe Science aims to enhance the quality of university science teaching in Australia by collecting, maintaining and disseminating information on up-to-date and innovative teaching. To this end UniServe Science provides support at both an international and national level. Internationally, UniServe Science publishes *CAL-laborate*, an international journal, prepared in collaboration with the Higher Education Academy in the United Kingdom. *CAL-laborate* is available online at <http://science.uniserve.edu.au/pubs/callab/>. From 2007 *CAL-laborate* will become a refereed journal. Nationally, UniServe Science conducts an annual conference which focuses on the enhancement of tertiary science teaching and learning.

The annual conference now consists of two components: a two-day Tertiary Science Teaching Symposium incorporating two special interest forums, (the First Year Experience Forum and Supporting Gifted and Talented Students Forum; and, a Science Discipline Day, held for interested parties to come together and discuss issues of common interest.

The Pearson Education UniServe Science Teaching Award, which is presented at the annual Symposium, recognises teaching that improves student learning outcomes via the innovative and integrated use of information technology.

Papers for the 2007 Symposium, 'Science Teaching and Learning Research including Threshold Concepts' have been reviewed to meet the Department of Education, Science and Training standard for research conference publications.

The full papers were peer reviewed by at least two members of a national review panel that was chaired by Associate Professor Ian Johnston. For those papers deemed to be worthy of refereed publication, authors were provided with feedback from the reviewers and asked to make appropriate changes.

The proceedings are distributed nationally and internationally from the Web (<http://science.uniserve.edu.au/pubs/procs/>).

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