



Call for Papers: Special issue of *International Journal of Innovation in Science and Mathematics Education* (IJ-ISME) on:

Assessing Laboratory Learning in Undergraduate Science

Guest Editors: Dr Madeleine Schultz (QUT), Dr Stefan Huth (La Trobe) and Stephanie Beames (UQ)

Practical laboratory experiences constitute a signature pedagogy in undergraduate science education and can fulfil a multitude of teaching purposes. For example, laboratory experiments can illustrate or reinforce theory learnt in other teaching modes, teach manual handling skills, give students experience in designing or modifying procedures to answer scientific questions and broadly exemplify the nature of science. This list shows how critical laboratory experiments are to teaching and assessing many desirable learning outcomes, including those detailed in the Science Threshold Learning Outcomes published in Australia in 2011. However, traditional "recipe book" practical sessions, assessed either through filling in the blanks of a template or writing a short report, are unlikely to assess learning outcomes beyond the theory involved and a narrow form of scientific communication. In this special issue, we will showcase innovative assessment strategies for laboratory learning. These may be in early stages of development or mature and tested practices.

Papers should be between 3000-6000 words in length. Guidelines for authors are available at: escholarship.usyd.edu.au/journals/index.php/CAL/about/submissions#authorGuidelines

Abstracts due: 10 January, 2015

Interested authors should initially submit a 250-word abstract for consideration to madeleine.schultz@qut.edu.au. This expression of interest is to help ensure that the final edition addresses a broad range of disciplines and challenges.

Manuscripts due: 13 April, 2015

Reviews will be returned in June, with **final versions due July 2015**

This special issue will be published online in September 2015, to be launched at the **ACSME 2015 conference at Curtin University**: escholarship.usyd.edu.au/journals/index.php/CAL

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