



Faculty of Science Public Seminars

Student Learning in Practical Classes

Hosted as part of the UQ ASELL Biology Workshop (Advancing Science by Enhancing Learning in the Laboratory) www.asell.org

The two seminars are free and open to all
For more information, contact Robyn Evans : robyn.evans@uq.edu.au [UQ St. Lucia map](#)

Seminar 1: Inquiry-oriented learning in the undergraduate science laboratory

Despite the promise of the laboratory as a potent learning environment, there are regularly criticisms, not of what it promises, but of what it delivers. This is partly due to the limitations of some laboratory experiences, such as those deriving from 'cookbook style' experiments. In this seminar Les will describe initiatives designed to engage students in activities that better reflect the processes that scientists employ when undertaking experimental work. He will also bring an emphasis to the role the undergraduate laboratory can play in advancing a university's research agenda.

Who: Associate Professor Les Kirkup

Date: Wednesday 8 June

Time: 5:30-6:30pm

Venue: James Birrell Room, UQ Club



Associate Professor Les Kirkup, from the School of Physics and Advanced Materials, University of Technology, Sydney, has recently been recognised with the award of an ALTC National Teaching Fellowship. He has written, or co-written, 5 books and over 50 peer-reviewed papers covering educational issues in physics as well as conventional discipline-based research. He has worked in close col-

laboration with academics from many disciplines including physiology, psychology, chemistry, journalism and metrology (as well as, from time to time, fellow physicists).

**Please join us
for drinks with Les after the
session!**

RSVP: robyn.evans@uq.edu.au for catering purposes

Seminar 2: Data Age

Data are everywhere and often, just under their surface, conclusions lurk, itching to be drawn. Many would claim, however, that the analysis of data and the conclusions drawn often leave a lot to be desired. Why? In this seminar I will look at some of the basic ideas that underpin data analysis and the drawing of valid conclusions from data (statistical inference). It seems that many people do not have well developed notions of these basic ideas. It also seems necessary that one has well developed notions of these ideas if they are to be an able data user.

Who: Anthony Harradine

Date: Friday 10 June

Time: 8:30-9:30am

Venue: Skerman 65-305



Anthony Harradine is first and foremost a teacher who dabbles in other areas of education. He has spent the last seven years trying to better understand his failures of the previous twenty. His many mentors have taught him a lot about mathematics and statistics, problem solving, and research. He likes nothing better than sharing what he has learned with anyone silly enough to listen.