

Aquifers, aquitards & mining

When is aquitard seepage trivial? Innovative characterisation of seepage for mining, CSG and sustainable water resources.

Thursday and Friday

27–28 March 2014

9.00am – 4.00pm

University of New South Wales
School of Mining Engineering
Kensington Campus

<http://www.groundwater.com.au/events>

RSVP by 1 March 2014
Free of charge, on-line registration required.

W: www.groundwater.com.au

P: (02) 9385 9545

E: m.magafas@unsw.edu.au

This two-day workshop co-presented by the National Centre for Groundwater Research and Training and the Australian Centre for Sustainable Mining Practices at the University of New South Wales, will give an overview of innovative techniques, including vertical permeability testing at core-bore-formation scale, geocentrifuge physical modelling, solute and isotope applications for aquitards, ITRAX core scanning, wireline and geophysical methods.

In particular, the workshop will include the following presentations:

- Professor Lee Barbour, University of Saskatchewan, Canada: Geological weighing lysimeter applications for mine hydrology
- Dr Wendy Timms and colleagues, University of New South Wales: Evidence for tight aquitards and leaky aquitards
- plus presentations by invited speakers including Ken Mills (Strata Control Technology) and Daan Herckenrath (Flinders University).

Other topics will include:

- deformation behaviour of clayey sediments and rock
- sensing ground disturbance and significance for groundwater
- permeability-depth trends for jointed rock masses
- evaluation of soil-atmosphere-vegetation interactions for mine closure applications
- modelling of aquitard and aquifer heterogeneity.

Registration includes catered lunches and canapés after Thursday's presentations.

Join a bus tour to the geocentrifuge and hydraulics labs at the University of New South Wales's Manly Vale campus on Friday afternoon, returning to the main campus with an airport drop-off by 4:30pm.



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