



iah  
Australian National  
Chapter  
NSW Branch

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## Student Night

Tuesday 15<sup>th</sup> October 2013, 6 to 8pm

**Parsons Brinckerhoff offices**

Ernst & Young Centre,

Level 26, 680 George Street, Sydney CBD

*Late-comers please contact Carolina Sardella on 0439 650 395.*

*IAH NSW proudly presents the **2013 Student Night** with presentations  
by*

***Richard Rosendorff, Honours student from UNSW, will present a talk  
titled 'Identification of fractures in the Hawkesbury Sandstone  
using Ground-Penetrating Radar'***

Ground-Penetrating Radar (GPR) is a non-invasive geophysical technique that allows for imaging of the shallow sub-surface. There has been a need to understand the alteration of fracture networks caused by long wall mining related subsidence. This is especially apparent in areas where an aquifer overlies the mining panels e.g. the Waratah Rivulet. If the natural local fracture network is altered this may cause a disruption in the surface water – groundwater flow, ultimately leading to a change in local catchment supply. By combining field mapping of fractures, aerial photographs, and GPR data in 3D modelling software it was possible to visualise the fracture networks and detect various sub surface fractures.

***Michael Short, PhD student form ANU, will present a talk titled  
'Where's the plug? 200 years of fluctuating water levels at Lake  
George'***

Ever since its discovery in the early 19th century, the fluctuating water levels of Lake George, located in the Southern Tablelands, have intrigued locals, tourist and scientists alike. Many complex and unbelievable theories have been put forward to explain this phenomenon but the truth lies in the fine balance between rainfall, surface runoff and evaporation. This presentation will describe current knowledge of the Lake George Basin hydrological system and the methods that will be used to gain a better understanding of salt accumulation processes within this small endorheic basin.

**Please RSVP to:**

Katarina David [davidk@cdmsmith.com](mailto:davidk@cdmsmith.com) mob 0412 080 360

Graham Hawkes [Graham.Hawkes@aecom.com](mailto:Graham.Hawkes@aecom.com) mob 0417 134 422

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