

# iah Australian National Chapter NSW Branch

www.iah.org.au



## Tuesday 11 November 2014 5:30 pm for 6 pm start

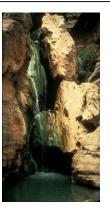
### **Parsons Brinckerhoff offices**

Ernst & Young Centre Level 26, 680 George Street, Sydney CBD

\*\*For late arrivals, please phone Sean Daykin on 0413412980 for access\*\*







IAH NSW proudly presents a talk by **David K. Kreamer**,
Professor, University of Nevada, Las Vegas
Vice President for North America, International Association of Hydrogeologists
President Universities Council on Water Resources

# Preserving Springs in the Grand Canyon National Park, USA – Tracking Groundwater Geochemically

The springs in Grand Canyon National Park are the focus of wildlife in an arid environment, Native American religious cultural traditions, recreational enthusiasts, and can be vulnerable to the impacts of both municipal development outside the park boundaries, and industrial development, particularly mining activities. Spring flow in the Grand Canyon is controlled by geological structure and stratigraphy, and waters can be dated and tracked using environmental tracers. Use of traditional environmental groundwater tracers in the Canyon will be discussed, as well as less often used parameters, such as trace elements in the sub-parts per trillion range, and uranium isotope disequilibrium. The results of this work give resource managers basic data to address concerns of visitor traffic, land use, and future development.

#### IAH NSW Branch - 2014 Committee

Committee Chair - Katarina David, UNSW

Treasurer - Sara Mehrabi, SMEC

Secretary - John Fennel, RPS

Technical presentation secretary - Graham Hawkes, AECOM

Meeting Facilitator and Internal Communication - Ellen Kwantes, Parsons Brinckerhoff

Awards Secretary - Dr. Anna Grieve, Xstrata

Membership Champion - Dr Andrew McCallum, Office of NSW Chief Scientist & Engineer

Newsletter Champion - Dr. Ben Rotter, Coffey

Web Champion – Doug Anderson, UNSW WRL

Sponsorship Champion - Mark Peterson, ANSTO

University Liaison - Dr. Bill Milne-Home

International Student Sponsorship Champion - Dr. Jay Punthakey

IAH International Vice President, Australasia, IAH National Vice President – Dr. Wendy Timms, **WRL UNSW** 

IAH National Secretary - Dr.Lange Jorstad, Geosyntec Consultants Pty Ltd

### The IAH NSW Branch is grateful for our Gold Sponsors:











Water Research Laboratory

School of Civil and **Environmental Engineering** 











engineers | scientists | innovators





# The IAH NSW Branch is grateful for our Silver Sponsors:









