



iah  
Australian National  
Chapter  
NSW Branch



## 2014 McElhiney Lecture

Tuesday 13<sup>th</sup> May 2014, 5.30 to 6 pm start

**AECOM**

Level 5, 420 George Street,  
Sydney

*IAH NSW proudly presents the **2014 McElhiney Lecture**, with a presentation by **Carlos Molano**, Professor in Civil and Environmental Engineering at Los Andes University, Bogota.*

### **Groundwater Spreadsheets: Efficient and Practical Resource for Solving Simple and Complex Flow, Pollution, and Environmental Problems**

Carlos E. Molano's lecture will show how one can use spreadsheets in simple form without any programming or complex mathematics to solve a wide range of groundwater problems. The lecture will show how to apply "classic" hydrogeology concepts to "modern" hydrogeology concepts such as climate change, global warming, ecohydrology, sustainability, environmental risk assessment, and remediation, through the use of the spreadsheets presented.

Groundwater spreadsheet topics include, but are not limited to:

- Pumping and slug tests, step drawdown and intermittent tests
- Analytical and numerical solutions for groundwater flow and pollution problems
- Delineation of capture zones, forward and inverse particle tracking for groundwater contamination
  - Hydro-geochemical analysis
  - Earth resistivity soundings interpretation
    - Land subsidence

Various groundwater applications are presented mainly for Latin America, however they can also be used all over the world to learn how some cost-effective solutions may be applied for many other situations.

*Please RSVP to:*

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

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**The venue:**

This year the lecture is to be held at AECOM at 420 George Street, Sydney, near the Wynyard, Town Hall and St James Railway Stations. The building lobby doors are located at street level on 420 George Street. Just travel up the escalators to the security gates and you will be swiped through. Access is also available from level 1 of the Mid City Centre off Pitt Street.

Late-comers please contact Graham Hawkes (mob 0417 134 422) for access.

