



# Engineering Group of the Geological Society



## One Day Seminar

Date/time: 09.30am Wednesday 14 January 2009

Venue: The Geological Society Burlington House, London

## ENGINEERING HYDROGEOLOGY PREDICTIONS, MANAGEMENT, DEWATERING AND LEGISLATION

Groundwater and the hydrogeological composition of the materials beneath a site are amongst the single most important considerations in the engineering aspects of construction projects interfacing with the ground, having a profound influence on the mechanical and chemical properties and performance of the geological strata intercepted. Recent and impending changes to legislation will potentially have a similarly dramatic impact on the way groundwater is managed in applications including engineering projects.

This event aims to look at the current issues in groundwater from prediction through to management and the current statutory regime with its' important and wide ranging changes. The event will run under four themes supported by relevant case studies:

- Prediction
- Management
- Dewatering
- Legislation

Speakers will include prominent hydrogeologists, engineers and groundwater specialists from academia and industry, in client, contracting and design roles. The presentations will include an introduction and insight into the BGS approach to groundwater modelling, experience in groundwater management in a karst environment and at Sellafeld, and industry-leading expertise in dewatering design and contracting in the UK. The event will close with a presentation on the legislation relating to groundwater, focusing particularly on the impending changes and the increased emphasis on understanding the hydrogeology on site, including undertaking a formal hydrogeological impact assessment, before embarking on any management approaches.

The event would be of considerable interest to engineering geologists, hydrogeologists, environmental scientists, geotechnical engineers and others involved in addressing the impacts of groundwater in construction and the environment from theoretical, practical and legislative perspectives.

Tea, coffee and lunch are provided, as well as a wine and refreshment reception following the meeting.

Registration will be required for this event. Further details, including programme details and updates, will be published on the Engineering Group pages of the Geological Society website.

### Convenor:

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## **ENGINEERING HYDROGEOLOGY**

### **PREDICTIONS, MANAGEMENT, DEWATERING AND LEGISLATION**

#### **Programme:**

Time

09.30-10.00 Registration and tea/coffee

10.00 **Welcome and introduction** (Ivan Hodgson, Scott Wilson and Chair of the Engineering Group)

#### **Session 1 - Groundwater Predictions**

10.05 Effectiveness of groundwater modelling, monitoring and predictions for engineering use (Denis Peach, British Geological Survey)

10.35 Predicting the effects of civil engineering projects on the groundwater environment: choosing the right tool for the job (Mike Streetly, ESI)

11.05 Discussion

11.25 Break - tea/coffee

#### **Session 2 - Groundwater Management**

11.45 Karst hydrogeology in South Africa (David Whitaker, Arup)

12.15 Management of ground and groundwater contamination at Sellafield (John McCord, Sellafield Ltd)

12.45 Discussion

13.00 Lunch

#### **Session 3 - Dewatering**

14.00 The influence of large scale inhomogeneities on a construction dewatering system in Chalk (Toby Roberts, WJ Groundwater)

14.30 Assessment of impacts from groundwater control projects (Martin Preene, Golder Associates)

15.00 Discussion

#### **Session 4 - Legislation and Policy**

15.20 Water; The shifting legislative landscape (Claire Howarth, Capita Symonds)

15.50 Discussion

16.15 Closing remarks (Ivan Hodgson, Scott Wilson & Chair of the Engineering Group)

**Wine and refreshments to follow meeting**



Engineering Group of the Geological Society



### ENGINEERING HYDROGEOLOGY

### PREDICTIONS, MANAGEMENT, DEWATERING AND LEGISLATION

#### REGISTRATION INFORMATION

Please complete the Registration Form below and return to: **The Conference Office, The Geological Society, Burlington House, Piccadilly, London.** Tel: 0207 434 9944 Fax: 0207 494 0579 Email: [georgina.worrall@geolsoc.org.uk](mailto:georgina.worrall@geolsoc.org.uk)

On-line registration is also possible through the Geological Society website [www.geolsoc.org.uk](http://www.geolsoc.org.uk).

All attendees are required to register. Registration includes attendance at the meeting, refreshments and buffet lunch. Student identification will be required. A receipt of payment will be sent to you once your registration form has been processed. Notification of cancellation must be given at least 10 working days prior to the event for a full refund to be given. Registration questions should be directed to Georgina Worrall at the Conference Office on 0207 434 9944 or via email at [georgina.worrall@geolsoc.org.uk](mailto:georgina.worrall@geolsoc.org.uk)

#### REGISTRATION FORM

##### Delegate Information

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_  
 Position: \_\_\_\_\_ Affiliation: \_\_\_\_\_  
 Address: \_\_\_\_\_ City/Town: \_\_\_\_\_ Post Code: \_\_\_\_\_  
 Telephone No: \_\_\_\_\_ Fellowship No. (if applicable): \_\_\_\_\_  
 Email: \_\_\_\_\_

##### Registration Fees

	Advance	No. required	Amount
<i>Members/Fellows of The Geological Society/Contributors</i>	£70		£
<i>Non-Members/Non-Fellows</i>	£95		£
<i>Full-Time Students/Unwaged/Retired</i>	£30		£
		Total Due	£

Please advise of any special dietary requirements

If registering for more than one person, please provide registration information for each delegate.

