



# BIO- AND CHEMO- MECHANICAL PROCESSES IN GEOTECHNICAL ENGINEERING

CHARACTERISATION, MODELLING, CASE STUDIES  
GÉOTECHNIQUE SYMPOSIUM IN PRINT

**3 JUNE 2013 AT THE INSTITUTION OF CIVIL ENGINEERS**

In recent years, substantial advances have been made in understanding the coupling between chemical and biological processes and mechanical and hydraulic behaviours in soils and rocks. At the same time, experimentation and modelling capabilities have progressed significantly, allowing effective design of geotechnical applications. The need for such analyses arises (for example) in chemical and biological soil improvement; nuclear, hazardous and municipal waste containment; petroleum and natural gas extraction; methane hydrate exploitation; carbon dioxide sequestration; and assessment of pavement durability.

This symposium will provide a forum to take stock of different approaches to the experimental characterisation, constitutive modelling and design/monitoring of geotechnical engineering applications.

## **Papers**

Symposium papers will be published in two full editions of *Géotechnique* in March 2013, giving delegates ample time to read through contributions in advance of the event. Further copies of the journal and past symposia will be available for purchase on the day.

## **Keynote Lectures**

Three keynote lectures will be delivered during the day. Professor Kenichi Soga of Cambridge University, UK, will present on the theme of bio-mechanical processes, while Professor Tomasz Hueckel of Duke University, USA, will address chemo-mechanical processes. Professor Stephan Jefferis of Environmental Geotechnics and the University of Surrey, UK, will deliver a keynote on field case-studies.

## **Discussion Sessions**

At the heart of the event there will be themed discussion sessions, featuring contributions from authors and delegate participation. Selected papers will be presented by the authors in the relevant themed session. Following the presentations, there will be a discussion open to the audience and authors, led by a chairperson to enable lively and well-informed debate of key issues. There will also be a poster competition for students and young researchers, with submissions displayed throughout the day. The winning entry will be chosen by the keynote speakers, and will win a copy of the popular *ICE Manual of Geotechnical Engineering*. Please contact [sarah.walker@icepublishing.com](mailto:sarah.walker@icepublishing.com) for more information about entering the poster competition.

## **Date and Venue**

The symposium will be held from 9.00am–5.00pm on Monday, 3 June 2013 at the Institution of Civil Engineers, One Great George Street, London SW1P 3AA, UK.

## **Registration Fees and Booking Procedure**

All fees include attendance at the Symposium, delegate pack and catering.

**Delegate** £89 including 20% VAT    **Student\*** £49 including 20% VAT    \*subject to availability; please provide proof of eligibility

## **Booking & Enquiries**

**Find more information and register for the event at <http://www.ice.org.uk/geosymp>**