

Production Editor: Helen Floyd-Walker
(helen.floyd-walker@geolsoc.org.uk)
Geological Society, Publishing House, Unit 7, Brassmill
Enterprise Centre, Brassmill Lane,
Bath BA1 3JN, UK. Books for review should
also be sent to this address.

Submissions: <http://www.editorialmanager.com/qjegh/>

Instructions for authors:
<http://www.geolsoc.org.uk/qjegh>

Chief Scientific Editor: **J. Dottridge**, Mott MacDonald,
UK

Assistant Scientific Editor (engineering geology):
C. Moses, University of Sussex, UK

Assistant Scientific Editor (geomaterials):
J. Standing, Imperial College London, UK

Assistant Scientific Editor (hydrogeology):
S. Buss, Environmental Consulting, UK

Editorial Board Members

S. Beeson
Consultant, UK

S. Bricker
British Geological Survey, UK

S. Coates
WS Atkins plc, UK

T. Dijkstra
Loughborough University, UK

D. Entwisle
British Geological Survey, UK

M. Geach
WS Atkins plc, UK

R. Ghail
Imperial College London, UK

D. Gooddy
British Geological Survey, UK

J.S. Griffiths
University of Plymouth, UK

N. Harries
CL:AIRE, UK

N. Howden
Cranfield University, UK

D. Hughes
Queen's University Belfast, UK

M. Ibsen
Kingston University London, UK

N. Koor
University of Portsmouth, UK

M. Matthews
University of Surrey, UK

C. Moses
University of Sussex, UK

T. Muten
Tapajos Limited, UK

H. Scholes
Geotechnical Consulting Group, UK

C. Serridge
Balfour Beatty Ground Engineering, UK

A. Smith
Loughborough University, UK

J. Smethurst
University of Southampton, UK

D. Taborda
Imperial College London, UK

G. Tuckwell
RSK, UK

M.G. Winter
Transport Research Laboratory (TRL), UK

Associate Editorial Board Members

R. Ahmad
University of The West Indies, Jamaica

J. Buma
Deltares, The Netherlands

J. Cobbing
Consultant, USA

D. Elmo
University of British Columbia, Canada

D.F. Fenster
Bechtel NS&E, USA

P. Flentje
University of Wollongong, Australia

M. Geertsema
Ministry of Forests, Lands, and Natural
Resource Operations, Canada

R. Guthrie
Stantec, Canada

A. Ireson
University of Saskatchewan, Canada

B. Jackson
Victoria University of Wellington, New
Zealand

J.R. Keaton
Wood plc, USA

S.-G. Lee
The University of Seoul, Korea

M. Long
University College Dublin, Ireland

R. Martin
GeoconsultHK Ltd, Hong Kong

X. Meng
Lanzhou University, China

S. Messerklinger
Consultant, Austria

B. Misstear
Trinity College Dublin, Ireland

S. Millis
Arup, Hong Kong

J. Price
SRK, Australia

A. Rosi
The University of Florence, Italy

J.W.N. Smith
Shell Global Solutions, The Netherlands

K. Styles
Fugro Ltd, Hong Kong

A.K. Turner
Colorado School of Mines, USA

J. Wasowski
National Research Council, Italy

A. Williams
BECA Infrastructure Ltd, New Zealand

The Quarterly Journal of Engineering Geology and Hydrogeology is published by the Geological Society and is an established peer reviewed journal with subscriber numbers of over 4000 worldwide. Papers are invited from, and about, all areas of the world on engineering geology and hydrogeology topics including all relevant aspects of the approach of geology to civil engineering, mining practice and water resources. This includes but is not limited to: applied geophysics, engineering geomorphology, environmental geology, hydrogeology, groundwater quality, ground source heat, contaminated land, waste management, land use planning, geotechnics, rock mechanics, soil mechanics, geomaterials and geological hazards. The journal includes the prestigious Glossop and Ineson lectures, research papers, case histories, review articles, technical notes, photographic features, discussions, book reviews and periodic reports.

The Geological Society of London was founded in 1807, and is the oldest geological society in the world. It received its Royal Charter in 1825 and is now Britain's national society for geology. Both a learned society and a professional body, the Geological Society is the chartering authority able to award Chartered Geologist (CGeol) status to appropriately qualified Fellows with six years relevant postgraduate experience in the practice of geology. The Society also awards the title of Chartered Scientist (CSi). Candidate Fellowship is available to those not yet qualifying for Fellowship (students). Fellows of the Geological Society can choose a subscription to the *Quarterly Journal of Engineering Geology and Hydrogeology* as a benefit of membership. Further information: email: membership@geolsoc.org.uk; <http://www.geolsoc.org.uk>; tel: +44 (0) 207 434 9944. The Society is a Registered Charity, no. 210161.

Typeset by Nova Techset Private Limited, Bengaluru and Chennai, India. Printed and bound by Henry Ling Limited, at the Dorset Press, Dorchester, DT1 1HD