

# Petroleum Geoscience

*The international journal of geoenergy and applied earth science*

The journal is abstracted and/or indexed in *Current Contents*, *Science Citation Index*, *GeoArchive*, *GeoRef*, *Geobase*, *Petroleum Abstracts*, *Geological Abstracts*, *Mineralogical Abstracts* and *Cambridge Scientific Abstracts*

## CONTENTS – Volume 24, No 2

<b>Hormuz salt distribution and influence on structural style in NE Saudi Arabia</b> S. A. Stewart	143
<b>Evaluating a vintage play fairway exercise using subsequent exploration results: did it work?</b> F. Lottaroli, J. Craig & A. Cozzi	159
<b>3D structural and thermal modelling of Mesozoic petroleum systems in the Po Valley Basin, northern Italy</b> C. Turrini, B. Bosica, P. Ryan, P. Shiner, O. Lacombe & F. Roure	172
<b>Integrated Triassic stratigraphy of the greater Culzean area, UK Central North Sea</b> C. Mouritzen, M. A. Farris, A. Morton & S. Matthews	197
<b>Two-step wireline log analysis of overpressure in the Bekapai Field, Lower Kutai Basin, Indonesia</b> A. M. Ramdhan & N. R. Gouly	208
<b>Horizontal variogram inference in the presence of widely spaced well data</b> M. Rezvandehy & C. V. Deutsch	219
<b>Grain and pore microtexture in sandstone sill and depositional sandstone reservoirs: preliminary insights</b> F. Wu, A. Hurst & A. Grippa	236

### Chief Editor:

**P. A. F. Christie**, Schlumberger Gould Research, UK  
(e-mail: [paafc1@slb.com](mailto:paafc1@slb.com))

### Co-Editors:

**S. Geiger**, Heriot Watt University, Edinburgh, UK  
(e-mail: [s.geiger@hw.ac.uk](mailto:s.geiger@hw.ac.uk))

**B. Levell**, Oxford University, UK  
(e-mail: [Bruce.Levell@earth.ox.ac.uk](mailto:Bruce.Levell@earth.ox.ac.uk))

**J. Prigmore**, Calderdale Geoscience Ltd, UK  
(e-mail: [jop@sm-consultants.co.uk](mailto:jop@sm-consultants.co.uk))

**P. Ringrose**, Statoil E & P, Norway  
(e-mail: [phiri@statoil.com](mailto:phiri@statoil.com))

**G. Yielding**, Badley Geoscience Ltd, UK  
(e-mail: [graham@badleys.co.uk](mailto:graham@badleys.co.uk))

### Production Editor:

**L. Bell**, Geological Society Publishing House, Bath  
(e-mail: [pg@geolsoc.org.uk](mailto:pg@geolsoc.org.uk))

*Petroleum Geoscience* (ISSN 1354-0793) is published in February, May, August and November by the Geological Society Publishing House for the Geological Society, London and the European Association of Geoscientists and Engineers.

### Subscription rates 2018 (volume 24, 4 parts)

All correspondence relating to trade subscriptions should be addressed to the Journal Subscription Department, Geological Society Publishing House, Unit 7, Brassmill Enterprise Centre, Brassmill Lane, Bath, UK, BA1 3JN (Tel: +44 (0) 1225 445046; Fax: +44 (0) 1225 442836; e-mail: [sales@geolsoc.org.uk](mailto:sales@geolsoc.org.uk)). The subscription prices for 2018 are as follows: online only £494 + VAT for UK, EU and ROW users; online + print £617 + VAT for UK, EU and ROW users. More information about subscription prices can be found at [www.geolsoc.org.uk/lcaccess](http://www.geolsoc.org.uk/lcaccess)

Periodical postage paid at Middlesex, N.J.  
*Postmaster*: send address changes to *Petroleum Geoscience*, The Geological Society, c/o Pronto Mailers, PO Box 177, Middlesex, NJ 08846.

© The Geological Society of London and EAGE 2018. No reproduction, copy or transmission of all or part of this publication may be made without the prior written permission of the publisher. In the UK, users may clear copying permissions and make payment to The Copyright Licensing Agency Ltd, Saffron House, 6–10 Kirby Street, London EC1N 8TS, UK, and in the USA to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Other countries may have a local reproduction rights agency for such payments. Full information on the Geological Society's permissions policy can be found at [www.geolsoc.org.uk/permissions](http://www.geolsoc.org.uk/permissions)

Publishing disclaimer: [www.geolsoc.org.uk/pub\\_ethics](http://www.geolsoc.org.uk/pub_ethics)

### Cover image

The Panoche Giant Injection Complex (PGIC), California, that intrudes into deep-water mudstone-dominated strata of the Moreno Formation. Petrographical microtextural analysis and conventional core-plug analysis of sandstone intrusion samples were compared with similar data derived from micro-CT (MCT) analysis. See Wu *et al.* (2018 *Petroleum Geoscience*, 24, 236–243). Photo courtesy of Antonio Grippa.

ISSN 1354-0793