Final Announcement

14-17 OCTOBER 2019 • MUSCAT, OMAN

Third Borehole Geology Workshop

NEW FRONTIERS IN BOREHOLE GEOLOGY FOR CHARACTERISATION, MODELLING, UPSCALING AND INTEGRATION

WWW.EAGE.ORG
WORKSHOP OVERVIEW

Borehole data are fundamental in all types of studies aimed to measure and describe, understand and eventually predict the geology in the subsurface.

Together with core borehole images are currently the only data that can provide us a high-resolution view of the actual rock and its features in the borehole. The integration of core and borehole images with a wide range of other data types such as physicochemical measurements, conventional logging data, cuttings analysis as well as rock and fluid samples allow us to achieve a holistic and detailed understanding of the subsurface features, properties and heterogeneities at various scales to address a wide range of challenges.

In the last years, driven by technological and economic changes, borehole images as well as other borehole-based techniques are being applied in a wider range of subsurface characterization studies; these span from hydrocarbon reservoir studies and operations throughout the E&P cycle to applications in environmental impact and mineral resource, and in alternative energy sources. In this perspective the need for multidisciplinary integration and cross-discipline collaboration is stronger than ever.

The Third EAGE Borehole Geology Workshop welcomes attendance and contribution of all subsurface professionals that are working in different disciplines of the energy, resource and environmental sectors both in the industry and in academic and research institutes. The workshop will also be a ground for triggering collaboration amongst borehole geologists and professionals of other subsurface disciplines.

FIELD TRIP

Monday, 14 October 2019 07:00 – 17:00
EAGE is working on the Field Trip Programme which will be announced on the event’s website soon.

TRAINING SESSION

Tuesday, 15 October 2019
Session Focus: Big Data

Wednesday, 16 October 2019
Session Focus: Getting started with Python to Manipulate Data

Thursday, 17 October 2019
Session Focus: Sedimentology

OVERVIEW OF REGISTRATION FEES

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Please note: The Registration fee includes the training sessions on 15 – 17 October 2019 and the social functions, however it does not include the fieldtrip. Upon registering, please indicate if you would like to attend the fieldtrip as seats are limited.

To qualify for the member registration fee, your EAGE membership dues for 2019 must have been paid and confirmed. The processing time for membership applications or renewals is 10 working days.

To qualify for the reduced student registration fee:
- Students must be enrolled in a full-time study programme at a recognized university or institute.
- The registration must be accompanied by a copy of a student ID card and/or official proof of enrolment.
- Please note: Student non-members can’t be older than 34 years of age (when registering) Please note that EAGE reserves the right to cancel the event due to low participation, in this case, payment will be refunded in full.

HOW TO REGISTER

We recommend that you register via the online registration form on the EAGE event website (https://eage.eventsair.com/borehole-geology-workshop).

VENUE – CROWNE PLAZA, OCEC

EAGE has negotiated room rates for delegates attending the Third Borehole Geology Workshop. Please visit the website for more information or contact Maliha (Event Manager, EAGE) mai@eage.org for more details.

Crowne Plaza
Hotel address: Crowne Plaza Muscat Oman Convention & Exhibition Centre, Al Jamah Al Akbar Street, Madinat Al Irfan Phone: +968 2425 1071 Email: mahira.albalushi@ihg.com Website: crowneplaza.com/muscatocec
Oral Presentations | Tuesday 15 October

**AL ADHAM BALLROOM**

08:00 Registration & Coffee
08:40 HSE Announcements
08:45 Opening Address (Co-Chair)

**Session 1: Beyond Oil and Gas: Mining and Mineral Resources, Environmental Applications, Geothermal Wells**
Session Chairs: I. Aarnes (Baker Hughes), A.K. Thorsen (Baker Hughes, a GE Company)

09:00 BG01 - Structural and Hydrogeological Study at Oman Drilling Project-BA Site - A. Al-Hajri 1*, I. Callegari1, E. Holzbecher1, J. Matter1, P. Gouze2, D. Roubinet2, R. Leprovost3, G. Lods3

1German University of Technology in Oman; 2University of Southampton; 3University of Montpellier

09:45 BG02 - Integration Borehole Image and WEB AVO inversion for fracture prediction in deep reservoirs - A. Pascarella1*, P. Van der Vegt1, C. Leo1, M. Zhang2, P. Doulgeris2, P. Haffinger2

1PanTerra Geoconsultants BV; 2Delft Inversion

10:15 BG03 - Borehole Image Logs applied to Sequence Stratigraphy and Geothermal Exploration in Carbonates: an Integrated Workflow(UpperJurassic/Molasse basin). - P. Wolpert1*, T. Aigner1

1Eberhard Karls University Tübingen/germany

10:45 Coffee Break

**Session 2: The Role of the Geologist in Automation and Digital Enabling Innovations**
Session Chairs: C. Buchan (Task Fronterra Geoscience), C. Shrivastava (Schlumberger)

11:15 BG04 - Particle Shape Analysis for Conglomerate Reservoir Using Borehole Resistivity Images - A. Aviantara1*, S. Yang3, W. Huang3, C. Chen1, I. Le Nir1, J. Yuan1, S. Li1, H. Delius5, K. Pakhrina7

1Schlumberger; 2Petrochina; 3Schlumberger; 4Schlumberger; 5Schlumberger

11:45 BG05 - Geological Data Integration in Automation Processes - A. Thorsen1*

1Baker Hughes Norge AS

12:15 Discussion

12:45 Lunch

**Session 3: The Problem of Scale: From Core to Log to Model**
Session Chairs: R. Berto (Eni S.p.a.), C. Rambousek (Nimbuc Geoscience)

13:45 BG08 - The integration of core and borehole image log data using core goniometry - J. Prosser1*, J. Titjen1, S. Morris1

1Eni S.p.a.; 2Schlumberger

14:15 BG12 - Analysis of subsesismic-scale folds in complex tonosedimentary settings: A case study from the Austrian Molasse Basin - M. Habermueller1*, G. Wiesmayr2, B. Grasemann2, NIMBUS Geoscience, 3RAD Exploration & Production GmbH, 4University of Vienna

15:15 Coffee Break + Poster Session

15:45 BG13 - Borehole image structural modelling and synthetic dip modelling in 3D - L. Boure2*, G. Salafov2

2Task Geoscience (Asia) Pty Ltd

16:15 BG18 - Borehole stability applications using high-resolution LWD acoustic caliper images - M. Zuber5*, J. Titjen1, S. Morris1

1Eni S.p.a.; 2Schlumberger

16:45 Discussion

17:15 Close of Day

19:00 Workshop Dinner

Oral Presentations | Wednesday 16 October

**AL ADHAM BALLROOM**

08:30 Training: Getting Started with Python to Manipulate Data

09:00 Session 3: The Problem of Scale: From Core to Log to Model
Session Chairs: R. Berto (Eni S.p.a.), C. Rambousek (Nimbuc Geoscience)

09:40 BG08 - The integration of core and borehole image log data using core goniometry - J. Prosser1*, L. Bourke1

1Task Fronterra Geoscience

10:10 BG09 - Borehole Imaged the Bridge between CT to Simulator Cell - M. Helmy2*, R. Svec1

1Shell / PDO

10:40 Coffee Break + Poster Session

11:15 BG12 - Analysis of subsesismic-scale folds in complex tonosedimentary settings: A case study from the Austrian Molasse Basin - M. Habermueller1*, G. Wiesmayr2, B. Grasemann2, NIMBUS Geoscience, 3RAD Exploration & Production GmbH, 4University of Vienna

11:45 BG13 - Borehole image structural modelling and synthetic dip modelling in 3D - L. Boure2*, G. Salafov2

2Task Geoscience (Asia) Pty Ltd

12:15 Discussion

12:45 Lunch

13:45 Session 4: New Acquisition Technologies and their Applications
Session Chairs: R. Carballares (Schlumberger), N. Helmy (Shell / PDO)

13:45 BG14 - Image Logs Worth Hundred Applications: Industry’s First Innovative High-Resolution Dual-Imager Logging-while-Drilling Technology Overcomes Barriers of Oil-base-Mud - C. Shrivastava1*, V. Wibowo1

1Schlumberger; 2Schlumberger

14:15 BG15 - Advances in Borehole Geology Interpretation using the new Dual Imager LWD Tool for Oil-Base Mud - G. Barbacini1*, C. Shrivastava1, R. Berto1, T.A. Bianco1, F. Colombo1, M. Miraglia1, A. Riva1, V. Wibowo1

1Eni S.p.a.; 2Schlumberger

14:45 BG16 - Integration of latest oil-base mud borehole images with lower resolution tools, Thunder Horse North field, GOM - C. Vahle2*, B. Ruehlicke2, Z. Veselovsky2, B. Hansen2

1Eriksfiord GmbH; 2Eriksfiord Inc; 3Eriksfiord AS

15:15 Coffee Break + Poster Session

15:45 BG18 - Borehole stability applications using high-resolution LWD acoustic caliper images - M. Zuber5*, J. Titjen1, S. Morris1

1Eni S.p.a.; 2Schlumberger

16:15 BG19 - Applications of High-Resolution LWD Images for Fracture Characterization and Well Placement in Kurdistan Region of Iraq - S. Basso1*, W. Alward1

1Schlumberger

16:45 Discussion

17:15 Close of Day

19:00 Workshop Dinner
Poster Presentations | Wednesday 16 October

AL ADHAM BALLROOM FOYER

Poster Session

10:40  BG10 - Bridging scales of reservoir characterization through conventional log measurements - Y. Bourida*, G. Zhunnusova¹, T. Salter¹, J. Riou¹
'Baker Hughes a GE Company

BG11 - Advanced Carbonate Characterization using High definition Image logs - F.H. Siddiqui¹, F.A. Khan¹, Z.A. Zaidi¹, Z.U.D. Babar¹, A. Bhatti¹, T. Jalil¹
'Schlumberger; Pakistan Petroleum Limited

15:15  BG17 - Efficient Application of Advanced Mud-logging in Unconventional Reservoirs: A Cost-effective Methodology from Borehole Geology to Fracture-Stimulation - J. Peano², P. Delgado³, C. Shrivastava³
'Schlumberger; ‘Tecpetrol; ‘Schlumberger

Oral Presentations | Thursday 17 October

AL ADHAM BALLROOM

08:30 Training: Sedimentology

Session 5: Multidisciplinary Integration for Reservoir Management and Monitoring: Dynamic and Test Data, Geomechanics, real-Time Petrophysics and Rock Typing
Session Chairs: L. Aarnes (Baker Hughes), C. Shrivastava (Schlumberger)

09:40  BG20 - Using core photos as image logs: An example from a fractured reservoir in Algeria - J. Faludji¹, M.S. Abrouche¹, Y. Oulad Hedda², B. Hichour², H. Taleb³
'BHGE Denmark A/S; ‘BHGE Algeria; ‘Sonatrach

10:10  BG21 - Carbonate Reservoir Rock Typing and Mapping from the Horizontal Well High Resolution Logging While Drilling Images - S. Yang¹, R.H. Al Lawatia¹
'Schlumberger

10:40 Coffee Break + Poster Session

11:55  BG24 - Isotope Logging: A Case Study of Integration with Borehole Geology - A. Di Daniel¹, D. Strobøll⁴, C. Shrivastava⁵, C. Murirdj¹
'Schlumberger; ‘Sarawak Shell Berhad; ‘Schlumberger; ‘Schlumberger

11:55  BG25 - Data Integration - Time and Discipline Dependencies - A. Thorsen¹*
'Baker Hughes, a GE Company

12:15  BG26 - A New Prospective in Geological Data Acquisition for Well Placement Operations - M. Mele¹, A. Leone
‘Eni spa

12:45 Lunch

Poster Presentations | Thursday 17 October

AL ADHAM BALLROOM FOYER

Poster Session

13:45  BG27 - Integration of Fullwave Sonic with Image Log for Improved Fracture Characterization. - C. Ayadiuno¹*, X. Sun¹, W. Li¹
'Saudi Aramco

14:15  BG28 - Combining rig site XRF data and high-resolution borehole images for identifying a problematic sandstone forma-
tion contact - F.J. Bender¹*, S.R. Fayrens², B. Fortier²
'Baker Hughes a GE Company; ‘Baker Hughes a GE Company; ‘Equinor

14:45 Discussion

15:30 Closing Address (Co-Chair)

15:45 Coffee Break + Close of Day

SPONSORSHIP

We would like to give a special thank you to our Sponsors:

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With an array of unique promotional opportunities, we can help you design the perfect programme to enhance your company’s experience at the Third Borehole Geology Workshop. Sponsorship opportunities are available to suit all budgets. Please visit our website for further details. To request a copy of the sponsor brochure, please contact us via middle_east@eage.org

CONTACT

For more information on the workshop, please visit the event’s website or contact the EAGE Middle East & Africa office via middle_east@eage.org or +971 4 369 3897.

See you in Muscat!