Hybrid Conference

06 -07 October 2026

Staying Oriented: Approaches to Borehole Imaging After Nearly 100 years of Progress

CONFERENCE PROGRAMME

The Geological Society

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Tuesday 06 October		
0830 - 0850	Registration opens, tea & coffee	
0850 - 0900	Welcome address	
Session One: Geomechanics | Chaired by Andrew Barnett & Bernd Ruehlicke		
0900 - 1000	**Keynote:** A nearly 90-year journey of image logs and could we log one on Mars?	Bernd Ruehlicke, *Eriksfiord, Inc*
1000 - 1030	From Noise to Insight: Interpretating Drilling-Induced Damage in Mid- and High-Temperature (150 - 310°C), Conventional Geothermal Systems	Irene Wallis, *Cubic Earth Ltd (Virtual)*
1030 - 1100	Borehole Forensics –The Use of LWD Images to Evaluate the Causes of Operational Events and Optimise Drilling Campaigns	Adam Styles, *Task Fronterra Geoscience*
1100 - 1115	Tea & coffee break	
Session Two: Ops & New Technology | Chaired by Peter Barrett & Bernd Ruehlicke		
1115 - 1145	Borehole Image Applications in real time Deepwater Wireline Operations of Formation Testing and Sidewall Coring	Anish Kumar, *SLB*
1145 - 1215	Augmentation, automation, and beyond: design considerations for leveraging computer vision in borehole image processing	Eric Wilton, BGC Engineering
1215 - 1315	Lunch	
Session Three: Sedimentology | Chaired by Anish Kumar & Stephen Dymmock		
1315 - 1345	Palaeowind patterns in the Permian of Europe: adding to palaeogeographies and validating numerical climate models from historical data	Roderick McGarva, *Task Fronterra Geoscience*
1345 - 1415	Multi-scale Core-to-BHI Reservoir Characterization distinguishes deepwater depositional elements: an example from offshore Suriname	Sourav Saha, *Shell Research Limited*
1415 - 1445	The use of borehole image logs in distinguishing depositional environments in non-marine carbonate successions	Andrew J. Barnett, *Shell*
1445 - 1500	Tea & coffee break	
1500 - 1530	Advanced Sedimentological and Structural Characterization of Malaysian Petroleum Systems Utilizing Borehole Image Logs	Melissa Johansson, *Geode-Energy Ltd*
1530 - 1600	How Borehole Images are Used Across the Lifecycle of a Field	Chris Ginn, *Oxy*
Session Four: Panel - Classification & Deliverables | Chaired by Peter Barrett		
1600 - 1630	A Trice Revival: Descriptive Borehole Image Evaluations Using Contemporary Technologies	Ed Cavallerano, *Shell International Exploration and Production inc.*
1630 - 1715	**Panel Discussion:** Standardizing interpretation deliverables across the BHI community	Peter Barrett, *Halliburton*
1715 - 1720	Wrap up of day one	
1720 - 1830	Drinks Reception & Poster session	

Wednesday 07 October		
0830 - 0850	Registration opens, tea & coffee	
0850 - 0900	Welcome address	
Session Five: Green | Chaired by Peter Barrett & Andrew Barnett		
0900 - 1000	**Keynote:** Use and interpretation of borehole image logs in geothermal systems: geology, alteration, structures, borehole conditions, and stress	Nicholas C. Davatzes, *Temple University*
1000 - 1030	Tracking characteristics of permeable zones and unusual drilling-induced features in New Zealand high-temperature geothermal reservoirs with borehole images	Cécile Massiot, *Earth Sciences New Zealand (Virtual)*
1030 - 1100	Engineering applications of Borehole Images: the next 100 years?	Ross Pettigrew, *Task Fronterra Geoscience*
1100 - 1115	Tea & coffee break	
1115 - 1145	Geological and stress field analysis from WL and LWD borehole image logs – Reservoir characterisation for a geothermal field in Germany	Carsten Vahle, *Eriksfiord*
1145 - 1215	Facies-Based 3D Modeling of Boron Mineralization in Colemanite Deposits Using Lateral Well Petrophysical and Image Logs	Elia Haddad, *SLB*
1215 - 1245	Integrated High-Resolution Characterization of Clay-Rich Formations Using Borehole Imaging, Core Data, and Machine Learning: Applications in Switzerland's Exploration for a Deep Geological Repository for Radioactive Waste	Jens K. Becker, *Nagra*
1245 - 1345	Lunch	
Session Six: Structure | Chaired by Bernd Ruehlicke & Stephen Dymmock		
1345 - 1415	The use of muon tomography in geological imaging	Lee Thompson, *Geoptic Infrastructure Investigations*
1415 - 1445	Sub-seismic faults matter	Brita R. Graham, *Equinor, ASA*
1445 - 1515	LWD image data – the great under-used resource	Brian Callaghan, *Task Fronterra Geoscience*
1515 - 1530	Tea & coffee break	
Session Seven: AI | Chaired by Peter Barrett & Stephen Dymmock		
1530 - 1600	Segmented borehole image log evaluations provide guiding model parameters: a Wilcox Formation example, Gulf of America	John Martin, *Shell International Exploration and Production Inc. (Virtual)*
1600 - 1630	High resolution at-bit imaging: Concept, deployment, learning, limitations and way forward	Chandramani Shrivastava, *SLB (Virtual)*
1630 - 1715	**Panel Discussion:** The future of BHI	Anish Kumar, *SLB*
1715 - 1730	Wrap up, Publishing Opportunities, and looking forward	

Poster Title	Author(s)
Deep Learning for Automatic Facies Identification of Borehole Image Logs in Carbonate Environments	Pedram Zarian, *Shell International Exploration and Production*
Challenges of Fracture and Foliation Interpretation from ultrasonic and micro resistivity images in Large-Diameter Geothermal Wells	Merouane Foudi, *Baker Hughes*
Increasing Operational Efficiency in Micro-fracking Decisions through Automated Breakout Detection from Ultrasonic Borehole Images; A Machine Learning-Based Approach.	Igor Stepanov, *SLB*
Borehole Images to Fracture Intelligence: A GenAI-Based Quicklook Reporting Workflow	Srijita Das, *SLB*
Borehole Images: The High-Resolution Lens into Unconventional Reservoir Complexity	Srijita Das, *SLB*

Convenors:

- **Ed Cavallerano,** Shell International Exploration and Production Inc
- **Andrew Barnett,** Shell UK
- **Peter Barrett,** Halliburton
- **Stephen Dymmock,** Baker Hughes
- **Anish Kumar Ph.D,** SLB
- **Bernd Ruehlicke**, Eriksfiord Inc

THANK YOU

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