

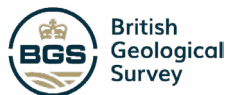


Powering the energy transition through subsurface collaboration



**16 - 18 MAY 2023
P&J LIVE, ABERDEEN**

**energygeoscienceconf.org
#EGC2023**



Welcome to the Energy Geoscience Conference – EGC 1

The Energy Geoscience Conference, organised by the Geological Society of London and the Geoscience Energy Society of Great Britain, aims to explore the contribution of geology and geophysics to the low-carbon energy transition. Aberdeen's world-leading role in the energy sector and vision to lead the world towards net zero makes it the standout UK location to launch this new conference series.

EGC is inspired by the long-running and highly influential Petroleum Geology Conference series, led by the GESGB and the Geological Society, which disseminated world-class geoscience over five decades. EGC has been initiated as a key forum for sharing the geoscientific aspects of energy supply as earth scientists grapple with the subsurface challenges of remaking the world's energy system for a low carbon future.

The conference will bring high-quality, energy-related geoscience to a UK and international audience. It aims to address technical challenges and support geoscientists in industry and academia researching, exploring and developing the energy supplies, storage and sequestration facilities demanded through the transition. It will enable collaboration between geoscientists regardless of their particular specialism, promoting sharing of subsurface data, techniques and understanding towards building a single energy



geoscience community. The many challenges of the energy transition demand such an approach and we are delighted to be launching EGC under the banner 'Powering the Energy Transition Through Subsurface Collaboration'.

The conference will feature a wide range of high quality contributions, and provide extensive learning and networking opportunities for delegates, at a very competitive registration cost. The conference will allow delegates both to immerse themselves in their own particular industry or subsurface specialism and to better understand a range of new and emerging fields and techniques. It will also allow attendees to see the broad applicability of their own geoscience skills through the energy transition as new subsurface uses gain prominence in the energy mix and in the employment market.

We would like to express our thanks and gratitude to our sponsors, speakers and poster presenters, to the Geological Society and GESGB and their conference staff, to our Conference Board, and to our Technical Committee supported by a network of geoscientists and company management.

We very much look forward to welcoming you in May 2023!

Caroline Gill (Lead Convenor)

John Underhill (Lead Convenor)

Graham Goffey (Conference Board Chair)

On behalf of the Conference Board and

Technical Committee

Who should attend and why

The strong technical programme has been designed to cover the full life-cycle of energy sources from exploration through development, utilisation, re-purposing and abandonment. The programme covers the complete spectrum from oil and gas through geothermal, subsurface storage and geological disposal to shallow geophysics for wind farm siting and exploration for new energy sources and materials. Consequently EGC1 offers extensive learning, networking and professional development opportunities to:

- Energy and engineering geoscientists, analysts, engineers, subject matter experts and technical specialists in government, companies, advisories, consultancies, and industries including oil and gas, geothermal, CCUS, energy storage, radioactive waste disposal and wind farm development;
- Technical assurance, functional and line management including regional business managers, business development, exploration, development, production and operations managers right up to director, country manager and CEO level;



- Geoscience students and researchers working across the range of energy geosciences in universities and research agencies

Whether you are interested in gaining an up-to-date understanding of developments in your own sector, in learning about the subsurface aspects of emerging energy transition applications such as energy storage and CCS, or considering broadening your career into a different branch of energy geoscience, this conference is aimed squarely at you.

	3 days Technical Programme	3 days Poster Programme	Networking with fellow delegates	Field trips Programme	3 days live-streamed Technical Programme	Recorded 'catch-up' Technical Programme	Discount on EGC proceedings volume
Online attendance					✓	✓	✓
In-person attendance	✓	✓	✓	✓	✓	✓	✓

Why sponsor EGC1?

Sponsorship of the inaugural event of this exciting new conference series will position your organisation as a supporter of earth science's leading role in finding and developing lower carbon solutions through the energy transition. We have a range of sponsorship opportunities available, all of which can be tailored to meet your specific business objectives. Sponsors will also be featured in the landmark Conference Proceedings, published after the conference by the Geological Society.

For more information and to receive a copy of our sponsorship prospectus, please contact: jenny.boland@geolsoc.org.uk or natalie@ges-gb.org.uk

Energy Group Annual Dinner

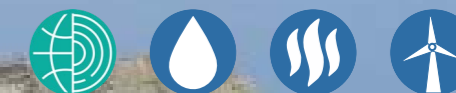
The Geological Society's Energy Group dinner will be held at P&J Live, Aberdeen on Wednesday 17 May 2023 to coincide with EGC1. This will see a return to sponsored tables and a ballot to register individual attendees. Contact energygroup@geolsoc.org.uk to register interest. More details will be made available shortly by the Energy Group.

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CONFERENCE HIGHLIGHTS

The technical programme has been designed to offer in-depth coverage across a range of broadly overlapping subsurface themes. Talks and posters will cover themes including:

- Case studies and techniques of **resource exploration, screening and siting in the energy transition** including hydrocarbons, geothermal, carbon and energy storage, nuclear waste disposal, hydrogen, helium and lithium
- **Early life, late life, new life**: the efficient development of new hydrocarbon resources, maximisation of existing resources and repurposing of depleted pore space for storage
- **Geothermal applications and developments**, including geothermal exploration, low enthalpy heating and cooling, mine water geothermal and geothermal resource assessments
- The role of **salt in storage, as a seal, repository and hydrocarbon trap**
- **Subsurface storage** case studies, techniques, measurement and monitoring technologies for CO₂, hydrogen and compressed air storage
- **Subsurface modelling for energy projects**, covering applications from reservoir characterisation and simulation, radioactive waste modelling and CO₂



injection monitoring to geothermal modelling and geomechanics

- **Characterisation and evaluation of containment** in hydrocarbon entrapment, storage and radioactive waste disposal including rock-fluid interactions and leakage behaviours
- **Fault and fracture characterisation for the energy transition**, including modelling and case studies
- **Geophysics** for energy developments including ground modelling in offshore wind projects and geophysical applications in disposal and energy applications

In addition to the core technical programme, the conference will feature:

- **Debates on energy-related controversies** in addition to **panel discussion** and **lunchtime** talks on the trajectory of the energy transition, the changing role of geoscience and of geoscientists
- A **suite of expert-led field trips** showcasing local geology to examine conference themes including CO₂ storage

Conference attendees will also be eligible for a substantial discount on a **conference proceedings volume and eBook**, planned to include papers on as many talks and posters as possible and which will be published in the Lyell Collection by the Geological Society's widely-respected Publishing House.

CONFERENCE CONVENORS

Dr Charlotte Adams, Coal Authority

Dr Matthew Allen, Dana Petroleum

Dr Rachel Brackenridge, University of Aberdeen

John Colleran, Independent

Ingrid Demaerschalk, In-Grid Solutions

Dr Sian Evans, University of Oslo

Dr Neil Frewin, Shell

Dr Caroline Gill, Shell UK Ltd.

Graham Goffey, Soliton Resources

Jon Gutmanis, Independent

Prof. Cathy Hollis, University of Manchester

Prof. Mads Huuse, University of Manchester

Dr. Mark Ireland, University of Newcastle

Emma Jude, BP

Lucinda Layfield, Equinor

Prof. Bruce Levell, University of Oxford

Dr Gwilym Lynn, Shell UK Ltd.

Katie May, Shell UK Ltd.

Simon Norris, Radioactive Waste Management Ltd.

David Offer, RPS Energy

Nick Prowse, Orsted

Prof. John Underhill, University of Aberdeen

Lucy Williams, Rockhopper

Dr Kirstie Wright, North Sea Core CIC

Dr. Tim Wynn, TRACS

CONFERENCE ORGANISERS

To advance, for public benefit, education in the scientific and technical aspects of subsurface energy and related technologies.

The GESGB was established in 1964 by a group of like-minded professionals keen to create a community of geoscientists for networking and sharing ideas. Over 50 years on, we have a growing membership across the world.

This member led organisation serves our industry by providing great value, networking and knowledge-sharing events, conferences and workshops as well as a programme which supports the education of earth sciences in the wider community. Though careers in 'energy' are constantly evolving, the GESGB aims to be relevant, useful and beneficial to members at every stage of their careers within the 'energy' industry.



The Geological Society

serving science, profession & society

The Geological Society is the UK's national society for geoscience, providing support to c.11,600 members in the UK and overseas.

We aim to be an inclusive and thriving Earth science community advancing knowledge, addressing global challenges, and inspiring future generations. Our strategy, mission and values can be found [here](#)

Find out more about our diverse offering of [events](#) as well as other key activities including careers & education, membership & Charterhip, publications, policy and outreach. Visit our [website](#) to find out more.

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EGC 2023 PROGRAMME: DAY 1 - Tuesday 16 May - Morning

EGC 2023 PROGRAMME: DAY 1 - Tuesday 16 May - Afternoon

	HALL 1	HALL 2	HALL 3
08.00	Registration, refreshments, networking and poster viewing		
	Introduction and Plenary Talks		
09.20	Welcome and Introduction <i>Graham Goffey (Soliton Resources), Conference Chair</i>		
09.30	Plenary Talk 1 - TITLE TBC <i>Professor Lorraine Whitmarsh, Director - Centre for Climate Change and Social Transformations, University of Bath</i>		
09.55	Plenary Talk 2 - TITLE TBC <i>Professor Gideon Henderson, Chief Scientific Adviser and DG Science and Analysis - DEFRA</i>		
10.25	Move to sessions		
	Exploration in the Energy Transition	Geoscience in CCUS	Emerging Geothermal
	Hydrocarbon Perspectives	Overview and Regional Screening	Minewater Geothermal
10.30	Themes from the last decade. A hydrocarbon exploration retrospective from the UK Continental Shelf * <i>John Seedhouse, North Sea Transition Authority</i>	CCS: Dynamic Geoscience * <i>Owain Tucker, Shell</i>	Reduce, re-use, resilient: shared use of the onshore mined subsurface for low temperature heating and thermal storage <i>Alison Monaghan, British Geological Survey</i>
10.55	Sand Injectites: a developing hydrocarbon play and more... <i>Professor Andrew Hurst, University of Aberdeen</i>	Role of Play Based Exploration (PBE) Methods in the search for, and critical evaluation of, safe subsurface carbon stores * <i>Professor John Underhill, University of Aberdeen</i>	Assessment of Flooded Mine Shafts for Thermal Energy Storage (L) <i>Daniel Whittington, University of Strathclyde</i> Addressing challenges for uptake of mine water heating, cooling, and thermal storage schemes (L) <i>Sally Jack, University of Strathclyde</i>
11.20	Refreshments, networking and poster viewing		
	Deepwater Hydrocarbon Exploration	Europe - an early look at CCS <i>Johannes Kalunka, ExxonMobil</i>	Appraisal of mine shafts in Scottish coalfields <i>Neil Burnside, University of Strathclyde</i>
11.50	50 years of Petroleum Exploration within the Faroe-Shetland Basin: the past, present and future of a frontier basin <i>Professor Nick Schofield, University of Aberdeen</i>		
12.15	Deep-water slope stratigraphic traps of the Upper Cretaceous of the Guyana-Suriname and CDI-Ghana margins: structural control and containment by mass-transport deposits <i>Bryan Cronin, Tullow</i>	Evaluating containment volumes and leakage risks for geologic carbon sequestration across brownfield and greenfield opportunities: An assessment of the Moray Firth Basin, North Sea <i>Rene Jonk, APA Corp.</i>	Repurposing a Legacy, the Gateshead Mine Heat Scheme <i>Charlotte Adams</i>
12.40	Lunch, networking and poster viewing		
13.30		Future Outlooks Lunchtime Talk Ten Themes for Exploration and the Geosciences in the Next Ten Years <i>Graeme Bagley, Westwood Global Energy</i>	

	HALL 1	HALL 2	HALL 3
	Exploration in the Energy Transition (continued)	Geoscience in CCUS (continued)	Emerging Geothermal (continued)
	Deepwater Hydrocarbon Exploration	Overview and Regional Screening	Low Enthalpy Geothermal
13.55	Gas Exploration Potential in the Northern Faroe-Shetland Basin, UK Atlantic Margin: Aiding the UK Net Zero 2050 Strategy <i>Alice Hall, University of Aberdeen</i>	A New Understanding of the Zechstein in the UK SNS: Implications for remaking prospectivity and the energy transition <i>Laura-Jane Fyfe, Heriot-Watt University</i>	Repurposing the Newcastle Science Central Deep Geothermal Borehole as a Borehole Heat Exchanger: Understanding Modes of Operation and Scalability * <i>Christopher Brown, University of Glasgow</i>
14.20	Exploring an igneous intrusive province in the West of Shetlands ** <i>Rob Gooder, BP</i>	Adapting an existing hydrocarbon screening workflow to the challenge of objectively ranking carbon storage resource <i>Joseph Jennings, Halliburton</i>	Driving towards net zero carbon emissions targets: A case study tailored to local industry <i>Eshagh Goudarzi, London South Bank University</i>
	Progressing Hydrocarbon Plays	CCS Case Studies and Applications	The Dutch SCAN Geothermal Exploration Program: Seismic acquisition, processing and reprocessing <i>Johannes Rehling, EBN</i>
14.45	The Z2 Haupt Dolomite – Imaging, Mapping and Understanding Porosity Distribution On The Frontier Margin of the Southern Gas Basin * <i>Peter Browning-Stamp, Horizon</i>	The Endurance CO2 Storage Complex: characterising injectivity, containment and capacity of the UK's largest saline aquifer store <i>Catherine Gibson-Poole, BP</i>	
15.10	Depositional evolution of the Lower Carboniferous in the Southern North Sea area: A cross-border perspective on stratigraphic synchronisation and source rock potential * <i>Alexander Houben, TNO</i>	Sherwood Sandstone outcrop analogues study in the Cheshire Basin: how to better constrain CCS potential and CO2 injectability in depleted oil and gas fields in the context of the Liverpool Bay Carbon Capture Project. * <i>Rodrigo de Sainz Simpson, University of Manchester</i>	Deep geothermal resource potential of the Early Carboniferous limestones in Central and Southern Britain <i>Tim Kearsey, BGS</i>
15.35	Refreshments, networking and poster viewing		
16.05	Ijssel discovery: an integrated approach to characterisation of an unusual reservoir type; an example of Upper-Jurassic greensands in the Netherlands <i>Rob Lengkeek, One Dyas</i>	Could the Lower Carboniferous Shales of northern England be used as a Geological Carbon Sequestration Target? <i>Michael Sims, Imperial College, London</i>	Geothermal Case Studies and Applications Low enthalpy geothermal resources in Southern Thailand <i>Helmut Duerrast, Prince of Songkla University</i>
16.30	The impact of Salt controlled minibasins on Triassic stratigraphy, Central Graben, Norway (L) <i>Alexandra Tatayo Muzo, University of Aberdeen</i> Dynamics and Filling Histories of Triassic Minibasins: An Example from the Egersund Basin, Central North Sea. (L) <i>Umut Isikalp, University of Bergen</i>	Deep marine reservoirs as viable CCS targets <i>Ian Kane, University of Manchester</i>	Re-evaluating Glasgow's Geothermal Dataset to account for the effect of palaeoclimate on heat flow <i>Sean Watson, University of Glasgow</i>
16.55	NET ZERO CHALLENGES PANEL DISCUSSION Communicating during a complex energy transition	Range of Carbon Storage Performance in Saline Aquifer, a Simulation Sensitivity Study <i>Pipat Likanapaisal, ExxonMobil</i>	Review of Geothermal Energy Potential of Pakistan from Oil and Gas Wells <i>Saif Ur Rehman, University of the Punjab</i>
17.20		The Application of SRMS in the Assessment of Geological Storage Projects <i>Gordon Taylor, RPS</i>	Structural and stratigraphic control on carbonate platform growth of the upper Mississippian, Irish Sea Basin: implications for onshore geothermal projects (L) <i>Maulana Aditama, University of Manchester</i> Development of an unparalleled database for existing Hot Sedimentary Aquifers projects <i>Maëlle Brémaud, University of Strathclyde</i> (L)
17.45	Networking reception and poster viewing		

EGC 2023 PROGRAMME: DAY 2 - Wednesday 17 May - Morning

EGC 2023 PROGRAMME: DAY 2 - Wednesday 17 May - Afternoon

	HALL 1	HALL 2	HALL 3	HALL 4
08.00	Registration, refreshments, networking and poster viewing			
09.00	Exploration in the Energy Transition (continued)	Emerging Geothermal (continued)	Containment	Fault and Fracture Characterisation for the Energy Transition
	Developing New Prospects in Mature Basins	How can the geothermal potential of low-mid temperature sedimentary basins be realized? An integrated overview. <i>Simon Todd, Causeway Geothermal</i>	Seal Integrity for CO2	The role of chemistry in fracture pattern development: applications to the energy transition <i>Stephen Laubach, University of Texas Austin</i>
09.25	The Selene prospect: Quantifying depth uncertainty in a mature basin to unlock a missed opportunity. <i>Tom Cafferkey, Deltic Energy</i>	An Update on the United Downs Geothermal Power Project, Cornwall, UK <i>Hazel Farndale, Geothermal Engineering Ltd</i>	Seal integrity evaluation of potential CO2 storage sites in depleted oil fields using mud gas logs and leakage phenomena <i>Henrik I. Petersen, GEUS</i>	Modelling Fractures in Geoenergy Applications <i>Professor Sebastian Geiger, TU Delft</i>
	** Alwyn East exploration well <i>Jose Luis Megchun Rivera, TotalEnergies</i>		* Caprock Wettability Under CO2 GeoStorage Conditions <i>Alex Lee, ExxonMobil</i>	
09.50	The Isolde prospect and Central North Sea welded diapir evolution: quantifying a previously invisible trap and understanding hydrocarbon containment <i>Graham Goffey, Soliton Resources</i>	The characterisation of hypogenic void systems in Mississippian carbonates (UK) and implications for geothermal heat production <i>Prof. Cathy Hollis, University of Manchester</i>	Using inherent geochemical fingerprints to verify the security of CO2 storage <i>Stuart Gilfillan, University of Edinburgh</i>	Structure and Tectonics is at the centre of the Energy Transition <i>Douglas Paton, TectonKnow</i>
	The Dutch Q-blocks: creating exploration and appraisal opportunities to accelerate low-carbon-footprint gas production through quantitative seismic interpretation and modelling. <i>Kike Beintema, Kistos</i>	Performance analysis of a CO2-plume geothermal system in 2D fluvial formations using subsurface metrics <i>Amir Norouzi, University of Manchester</i>	Investigating the impact of heterogeneity on mudrock seals to CO2 storage reservoirs, via the multiscale-multiproxy characterisation of the well-exposed Lower Jurassic Redcar Mudstone Formation, Cleveland Basin, UK. <i>Colm Pierce, CASP</i>	Cutting-Edge Technology in 3d Modelling of Fault and Fracture Systems: How close can we get to the geological reality? <i>Janpieter van Dijk, OCRE Geoscience Services</i>
10.15		Decarbonising Heat at the University of Manchester. Understanding the geothermal potential of Greater Manchester through subsurface geological modelling <i>David Johnstone, University of Manchester</i>		
10.40	Refreshments, networking and poster viewing			
11.20	Exploration, Screening and Siting Across the Energy Spectrum	Subsurface Modelling For Energy Projects	Leakage - Recognition and Solution	**
	A methodology for regional assessment of subsurface energy and CO2 storage resources in underexplored basins: a case-study of the Irish Atlantic margin <i>Conor O'Sullivan, Jacobs</i>	The Evolution of Modelling	Analysis and modelling of leakage above gas fields <i>Martino Foschi, University of Oxford</i>	Analogues to fault integrity in CO2 containment studies from hydrocarbon column traps against active faults <i>Chris Wibberley, Total Energies</i>
11.45	Evaluating the Carbon Storage Potential of Depleted Gas Fields in the Dutch Offshore Sector of the Southern North Sea <i>Martha Vinhais Gutierrez, Heriot-Watt University</i>	Same subsurface, different fluids, new purposes (so what's different for modellers?) <i>Professor Mark Bentley, TRACS & Heriot-Watt University</i>	A novel approach to quantify the risk of CO2 leakage through legacy wells in a CO2 storage site <i>Ali Mojaddam Zadeh, Equinor ASA</i>	Microfracture detection in microscopic images using an object-based machine learning approach <i>Issac Sujay Anand John Jayachandran, Texas A and M University</i>
		State of the art in modelling for geothermal - similarities and differences with oil and gas modelling <i>John O'Sullivan, University of Auckland</i>	* Rapid sealing of bed rock flow-paths by a 'synthetic concretion-forming solvent': a new technology for sealing boreholes and inflows to underground cavities <i>Professor Hidekazu Yoshida, Nagoya University of Japan</i>	Time-lapse synchrotron imaging and quantification of fracture initiation and propagation in shales and mudstones <i>Lin Ma, University of Manchester</i>
12.10	Deep geological disposal of nuclear waste - recent progress with the programme in England and Wales <i>Jonathan Turner, Nuclear Waste Services</i>	The role of subsurface models to evaluate geo-containment for safe storage of CO2 - A case study of the Porthos CCS project in the Netherlands <i>Gloria Thurschmid, EBN</i>		

	HALL 1	HALL 2	HALL 3	HALL 4
12.35	Lunch, networking and poster viewing			
13.25		Future Outlooks Lunchtime Talk: Characterizing the subsurface: a critical element of the energy transition <i>Professor Mike Simmons, Halliburton</i>		
	Exploration in the Energy Transition (continued)	Subsurface Modelling for Energy Projects (continued)	Containment (continued)	Salt as Store, Seal, Trap and Repository
13.50	Exploration, Screening and Siting Across the Energy Spectrum (continued)	Diverse Modelling Applications	Interactions Between Rocks and Fluid	The Role of Salt Tectonics in the Energy Transition: An Overview and Future Challenges <i>Oliver Duffy, Bureau of Economic Geology, University of Texas at Austin</i>
	A Workflow for Carbon Storage Site Exploration, and its Similarities and Differences with Traditional Oil and Gas Exploration <i>Dominic Skinner, ERCE</i>	Integration of Geological Process Modeling (GPM) for achieving realistic history matching scenarios for an Eocene Carbonate Field in the Middle East <i>Ammar Ahmed, SLB</i>	The Geomechanical Challenges of Massive Scale CO2 Sequestration <i>Professor Mark Zoback, Stanford University</i>	Salt as a Storage Medium
14.15	Oil & Gas Industry Seismic Interpretation Best Practice for Nuclear Waste Repository site selection and characterization: Why not? An example from Northern Switzerland <i>Valantina Zampetti, NAGRA</i>	Unconventional Fractal Modelling and Simulation of Heterogeneous and Anisotropic Reservoirs <i>Professor Paul Glover, University of Leeds</i>	Safe underground Hydrogen storage in porous subsurface reservoirs (SHINE): a new European interdisciplinary project aiming at exploring the hydrogen interaction with porous reservoir <i>Katriona Edlmann, Edinburgh University</i>	Sustainable underground hydrogen storage in salt caverns: An integrated multi-scale approach to salt cavern operations and abandonment <i>Tobias Baumann, Smart Tectonics</i>
	The Dutch SCAN Geothermal Exploration Well Campaign: from leads to wells <i>Marten ter Borgh, EBN</i>	How to represent fracture systems volumetrically in an upscaled model? <i>Mohammed Saiful Islam, Amer. University of Middle East.</i>	The Effect of Authigenic Clays on Fault Zone Permeability <i>Natalie Farrell, University of Manchester</i>	Zechstein stratigraphy and facies variability in the Forth Approaches Basin, UKCS: Implications for salt cavern storage <i>Rachel Brackenridge, University of Aberdeen</i>
14.40	** Cornish Lithium: Exploration for lithium-enriched geothermal waters in Southwest England <i>Alexander Hudson, Cornish Lithium</i>	Pore-scale Modelling of Polymeric Solutions in Porous Medium <i>Amna Al-Qenae, University of Manchester</i>	Modelling the impact of hydrodynamic flow on capillary seals using the Manzocchi & Childs model: Theory and Application <i>Neil Grant, ConocoPhillips</i>	Utilising publicly available datasets for identifying offshore salt strata and developing salt caverns for hydrogen storage <i>Craig Allsop, University of Strathclyde</i>
		Conceptualization of the sustainability of heat recovery from mine-water reservoirs: what does really matter? <i>Mylène Receveur, University of Edinburgh</i>		Compressed Air Energy and Hydrogen Storage Potential in Salt Structures in the UK Sector of the Southern North Sea <i>Sjastri Hansen, Royal Holloway University, London</i>
15.05				
15.30	Refreshments, networking and poster viewing			
16.00	A holistic mindset - knowledge transfer applied from hydrocarbon exploration to mineral systems <i>Graeme Nicoll, Halliburton</i>	Modelling for Hydrocarbons, CO2 Storage and Nuclear Waste Disposal	Geomicrobiology in Storage and Exploration	Please DON'T pass the salt! How a long-ignored geological formation is now becoming the centre of attention for underground storage. <i>Edward Henden, Atkins</i>
		Dynamic assessment of fault and fracture stability using integrated structural modelling and CO2 injection simulation <i>Leah Swan, Petroleum Experts</i>	** Microbiological impacts of subsurface engineering <i>Sophie Nixon, University of Manchester</i>	
16.25	How expertise in seismic reflection data and basin analysis can help in metals exploration <i>Taija Torvela, University of Leeds</i>	Closing the loop: bringing back geological and geophysical features into an automatic history matched model - Buchan Redevelopment (UK) <i>Helene Nicole, Jersey Oil & Gas</i>	Using molecular biological techniques for hydrocarbon prospecting - The PROSPECTOMICS Project <i>Jens Kallmeyer, GFZ German Research Centre for Geosciences</i>	Imaging Advances and Structural Evolution
				CNS Salt like you've never seen it before: Using OBN seismic to unlock the secrets of the East Central Graben <i>Ben Twigger, BP</i>

EGC 2023 PROGRAMME: DAY 2 - Wednesday 17 May - Afternoon

EGC 2023 PROGRAMME: DAY 3 - Thursday 18 May - Morning

HALL 1	HALL 2	HALL 3	HALL 4
<p>NET ZERO CHALLENGES PANEL DISCUSSION Carbon storage: Are barriers to successful implementation technical, regulatory, political or commercial? EXPERT PANEL: TBC</p>	<p>Subsurface Modelling for Energy Projects (continued)</p>	<p>Containment (continued)</p>	<p>Salt as Store, Seal, Trap and Repository (continued)</p>
	<p>Modelling Geothermal, Nuclear Waste Disposal and CO2 Storage (continued)</p>	<p>Geomicrobiology in Storage and Exploration (continued)</p>	<p>Imaging Advances and Structural Evolution (continued)</p>
	<p>Prediction of Formation Compressibility and Secondary Gas Cap Development from Seabed and Downhole Tidal Pressure Signal in the Lancaster Field <i>Francis Boundy, Hurricane Energy Plc</i></p>	<p>Geochemical detection of hydrocarbon reservoirs from marine surface sediments <i>Ellen Schnabel, GFZ German Research Centre for Geosciences</i></p> <p>The Geomicrobiology of Hydrogen Storage <i>Aidan Jaques, Newcastle University</i></p>	<p>Systematic regional kinematic classification of multi-stage salt structures in the Southern North Sea salt basin <i>Gerardo Gaitan, Royal Holloway University, London</i></p>
	<p>DECOVALEX 2023: Comparative modelling of advective gas flow <i>Elena Tamayo-Mas, British Geological Survey</i></p>	<p>Insights in metagenomic diversity in pristine oil reservoirs <i>Armando Alibrandi, GFZ German Research Centre</i></p>	<p>Coupling Relationships Between Pre-Salt and Post-Salt Faults Across the Southern North Sea Basin * <i>Anna Preiss, Royal Holloway University, London</i></p>

16.50
17.15
17.40
End of day 2



	HALL 1	HALL 2	HALL 3	HALL 4
08.00	Registration, refreshments, networking and poster viewing			
	<p>Early Life, Late Life, New Life</p>	<p>Geophysics and Geoscience for Energy Developments</p>	<p>Exploration in the Energy Transition (continued)</p>	<p>Fault and Fracture Characterisation for the Energy Transition (continued)</p>
09.00	<p>The UKCS in Transition. Something Borrowed, Something Blue... <i>Nick Richardson, North Sea Transition Authority</i></p>	<p>Ground Modelling for Offshore Wind</p> <p>Why more geoscience is crucial to the sustainable development of offshore wind <i>Professor David Hodgson, University of Leeds</i></p>	<p>Natural Hydrogen and Helium</p> <p>Exploring for hydrogen, helium and lithium: is it as easy as 1, 2, 3? <i>Professor Jon Gluyas, Durham Energy Institute</i></p>	<p>Quantifying fault stability for the energy transition <i>Professor David Healy, University of Aberdeen</i></p>
09.25	<p>The Arran Field Development – New Gas Production in the CNS <i>David Webster, Shell UK Ltd.</i></p>	<p>Conceptualisation of possible ground model interpretations for the St Brieuc Offshore Wind Farm Offshore Substation <i>Jordan Gear, Atkins Global</i></p>	<p>From zero to helium: exploration techniques for an ‘emerging’ resource * * <i>Max Norman, CGG</i></p>	<p>Integrated structural-geomechanical fault integrity risk assessment for CCS <i>Kevin Bisdom, Shell</i></p>
09.50	<p>Successful exploitation of Shallow Gas Field in the Netherlands Quad A and B area. <i>Nick Dancer, Petrogas</i></p>	<p>Linking geophysical and geotechnical data from a glaciated landscape; to optimise front-end engineering design for offshore renewable energy projects * <i>Hannah Gandley, Bangor University</i></p> <p>Working smarter in offshore wind site characterization and ground modelling: integration, integration, integration! <i>Hannah Petrie, University of Bergen</i></p>	<p>Co-occurrence of Helium and Hydrogen. Evidence from S Africa matching theory with observation <i>Ruta Karolyte, University of Oxford</i></p>	<p>Multiscale characterization of the fault and fracture networks of granitic rocks and implications for deep geoenery <i>Gianluca Amicarelli, Newcastle University</i></p>
10.15	<p>Pre- and post-injection dynamic modelling of CO2 injection in a depleted oil field - the Greensand CO2 storage project, Danish North Sea <i>Kasia Dominek, INEOS Energy</i></p>	<p>From reservoir characterisation to site investigation: retrofitting a stochastic, facies - based seismic inversion algorithm for use in shallow subsurface site characterisation <i>Ana Somoza, Cegal</i></p>	<p>Unlocking Tanzania’s Helium Province * <i>Lorna Blaisse, HeliumOne</i></p>	<p>Using new spatial arrangement methods to document fractures in hydrocarbon and geothermal reservoirs and reservoir outcrop analogs <i>Qiqi Wang, University of Texas, Austin</i></p>
10.40	Refreshments, networking and poster viewing			
11.20	<p>The Basal Rotliegend, a wind-powered gas development and multi-TCF follow-up target - Dutch/German Offshore border area * <i>Richard Huisin ‘t Veld, ONEDyas</i></p>	<p>Ground modelling of geohazards in offshore wind farm development * <i>James Moore, Orsted</i></p>	<p>Identifying the mechanism of Primary N2-He gas field formation <i>Anran Cheng, University of Oxford</i></p>	<p>The importance of understanding hydrothermal alteration in fault related geothermal systems in Cornwall <i>Nathaniel Forbes Inskip, Heriot-Watt University</i></p>
11.45	<p>The Evelyn field development, UKCS. Forty years in the making <i>Richard Hiney, Tailwind Energy</i></p>	<p>Subsea cables on deglaciated continental shelves: key geological and geoenineering considerations <i>Bartosz Kurjanski, Atkins Global</i></p>	<p>Native hydrogen and helium exploration: A new frontier in the energy transition * * <i>Ranald Kelly, CGG</i></p>	<p>Spatial analysis of fractures and pattern reconstruction * * <i>Mahmood Shakiba, University of Texas</i></p>
12.10	<p>Integration of high quality data into subsurface models to maximise the economic recovery of the Culzean Field * * <i>Chris Bugg, TotalEnergies</i></p>	<p>Capturing uncertainty in quantitative ground models for offshore renewables <i>Mark Vardy, SAND Geophysics</i></p>	<p>Hydrogen Habitats and Exploration</p> <p>Natural hydrogen in Australia <i>Emanuelle Frery, CSIRO</i></p>	<p>Numerical investigation of surface wave anisotropy for fault characterisation in geothermal fields <i>Heather Kennedy, Aberdeen University</i></p> <p>Numerical Modeling of Natural Fracture Pattern Using 3D Coupled Model <i>Byungtak Lee, University of Texas at Austin</i></p>

	HALL 1	HALL 2	HALL 3	HALL 4
12.35	Lunch, networking and poster viewing			
13.25		Future Outlooks Lunchtime Talk Be an Energy Geoscientist - make a difference <i>Professors: Bernie Vining, Royal Holloway University London, Jon Redfern University of Manchester, Joe Court, Shell</i>		
	Early Life, Late Life, New Life (continued)	Geophysics and Geoscience for Energy Developments (continued)	Exploration in the Energy Transition (continued)	Salt as Store, Seal, Trap and Repository (continued)
13.50	Geological considerations when repurposing a depleted gas field for CO2 storage – examples from the Porthos CCS project <i>Allard Van der Molen, EBN</i>	Geophysics in Geological Disposal and Energy The role of seismic reservoir characterization in the evaluation of a carbon storage site: An integrated seismic-simulation case study from the Bunter Formation, UK SNS <i>Nick Lee, PGS</i>	Hydrogen Habitats and Exploration (continued) Exploring for natural (gold) hydrogen as a societal resource <i>Professor Chris Ballentine, University of Oxford</i>	Heatflow, Modelling and Geomechanics Salt intrusions and their relevance for geothermal exploration <i>Alexandros Daniilidis, TU Delft</i>
14.15	Geological and Dynamic Controls on Captain Sandstone Reservoir Correlation, Connectivity & Architecture as part of the Acorn Project Site Characterisation <i>Julie Coughtrie, Shell</i>	A porpoise and a geophysicist – how can the eSource please these two mammals at the same time? <i>Nick Hall, ONEDyas</i>	The Bourakebougou natural hydrogen reservoirs in Mali <i>Omar Maiga, IFP</i> Hydrogen and the Amadeus Basin <i>Thomas Renshaw, University of Oxford</i>	Coupled Modelling of Brine Availability in Salt-Based Disposal Facilities – Learning from DECOVALEX 2023 <i>Steven Benbow, Quintessa</i>
14.40	The Cygnus field - New strategies for maximising economic recovery <i>Calvin Roberts, Neptune E & P</i>	The UK's first high density nodal joint active and passive seismic survey for geothermal exploration <i>Mark Ireland, University of Newcastle</i>	The Strategic Search for Subsurface Hydrogen: Defining New Play Concepts <i>Owen Sutcliffe, Halliburton</i>	Intra- and post-salt structural variability in rifted margins - a geodynamic modelling approach <i>Leonardo Pichel, University of Bergen</i>
15.05	Case Study: Onshore Tight Gas Development Success in Khazzan Field, Oman <i>Khalil Al Rashdi, BP</i>	The use of 1980s legacy data to image shallow geology in the Irish Sea <i>Christian Strand, Nuclear Waste Services</i>	Natural Hydrogen – a Review of Habitats, Subsurface Systems and Exploration Potential <i>Owain Jackson, H2Au</i>	Stress and pore pressure in mudrocks bounding salt systems <i>Maria Nikolinakou, Bureau of Economic Geology, University of Texas Austin</i>
15.30	Refreshments, networking and poster viewing			
16.00	NET ZERO CHALLENGES DEBATE Hydrogen: this house believes that hydrogen, in all its colours, is being oversold as a decarbonisation solution EXPERT PANEL: TBC	Subsurface Modelling for Energy Projects (continued) Modelling for Geothermal Nuclear Waste Disposal and CO2 Storage	Containment (continued) Monitoring	Seal Characterisation and Capability Core to seismic scale characterisation of the internal heterogeneity of evaporite sequences and the implications for carbon capture storage and saltcavern development <i>Hector Barnett, Newcastle University</i>
		Sub-surface challenges: Modelling key processes in mine water heating and storage systems <i>Fiona Todd, University of Edinburgh</i>	MMV Performance at the Quest CCS Facility <i>Simon O'Brien, Shell Canada</i>	
16.25		Shallow Geothermal Resources Assessment: 3D Geological modelling and 3D geothermal resources assessment <i>Vaiva Cypaite, Seequent</i>	Feasibility of 4D microgravimetric monitoring of a CO2 flood in a depleted gas reservoir <i>Marth Lien, Reach Subsea</i>	Study of field analogues fractured megafaults: anticipating the seal capability and drilling hazards by understanding their multi-scale damage and kinematics <i>Marine Lartigau, University Pau</i>

16.55	Closing Plenary Talk - TITLE TBC <i>Dr Karen Hanghøj, British Geological Survey</i>
17.20	Awards and Closing Remarks <i>Professor John Underhill, University of Aberdeen and Caroline Gill, Shell</i>
17.45	Conference Close

PROGRAMME OVERVIEW

Tuesday 16 May

08.00-09.20 – Registration | arrival refreshments
 11.20-11.50 – Mid-morning refreshments
 12.40-13.30 – Lunch | poster viewing
 15.35-16.05 – Afternoon refreshments
 17.45-19.15 – Networking reception
 19.30 – End of day 1

Wednesday 17 May

08.00-09.00 – Arrival refreshments
 10.40-11.20 – Mid-morning refreshments
 12.35-13.25 – Lunch | poster viewing
 15.30-16.00 – Afternoon refreshments
 17.40 – End of day 2

Thursday 18 May

08.00-09.00 – Arrival refreshments
 10.40-11.20 – Mid-morning refreshments
 12.35-13.25 – Lunch | poster viewing
 15.30-16.00 – Afternoon refreshments
 17.45 – End of EGC 2023 Conference

TECHNICAL POSTERS

Posters will be available to view at all times and a schedule will be developed to facilitate poster presentations and dialogue with poster presenters. It is also intended that a number of posters will include relevant slatted core displays. A full list of posters can be found on the following pages.

SESSION KEY

- 🕒 Early career highlight talk
- ★ No post-event online catchup video
- ★★ No live stream or post-event online video



EGC 2023 POSTERS

EXPLORATION IN THE ENERGY TRANSITION

Renewed Hydrocarbon Exploration and Preliminary Assessments of CCS and Geothermal Potential in the Kura-Kartli Basin, Onshore Central Georgia
Paolo Pace, PACE Geosciences

Carbon storage options in the Inde Shelf and Cleaver Bank areas, Southern North Sea
Ellen Mears, Heriot-Watt University

Probabilistic Assessment on the Role of Structural Features Related to Helium Occurrences in the Four Corners Region of the Colorado Plateau, USA
Daniel Halford, University of Oxford

Geological characterization of the "Fonts-Bouillants" helium discovery - France
Emma Russier, 458 Energy

Late Devonian to Early Carboniferous tectonostratigraphy and paleogeography in the British, Norwegian, Danish, German and Dutch sectors of the Central and Southern North Sea
Renaud Bourellec, TNO

Differential deformation in the southern Sichuan Basin and its influence on hydrocarbon accumulation
Guimin Feng, China University of Petroleum, Beijing

FAULT AND FRACTURE CHARACTERISATION FOR THE ENERGY TRANSITION

Spatial analysis of fractures and pattern reconstruction
Mahmood Shakiba, University of Texas at Austin

Using rigid block DEM to assess the impact of fault geometry and rock properties on fault reactivation
Janis Aleksans, University College Dublin

Is aspect ratio enough to separate microfractures and pores in thin-section images? A tiered multi-dimensional object-classification approach using unsupervised and supervised machine learning
Issac Sujay Anand John Jayachandran, Texas A and M

Characterising a rock fracture rough surface using spatial continuity and kriging: from semi-variograms and an upscaled surface
Gonçalo Cunha, University of Edinburgh

Quantification of spatial arrangement in two dimensions using fracture trace and barycenter
Rodrigo Correa, University Texas Austin

Mapping fracture trace patterns in outcrop analogs for low-enthalpy geothermal targets: the role of contingent nodes
Stephanie Forstner, University Texas Austin

GEOPHYSICS AND GEOSCIENCE FOR ENERGY DEVELOPMENTS

Using seismic modelling to explore pattern similarities between fluid conduits and near-surface velocity effects
Saad Almaki, University of Mancs

Improving Reservoir Characterization using new Seismic frequency enhancement technique and Pre-stack direct elastic properties Inversion- North Sea examples
Can Yang, Seismic Image Processing

Leveraging the use of repurposed Oil and Gas 2D seismic data to de-risk offshore wind farm development projects. A case study from the Central North Sea
Clement Tam, Atkins Global

Low-cost time-lapse seismic monitoring with sparse acquisition
Afsaneh Mohammadzaheri, University of Leeds

From reservoir characterisation to site investigation: retrofitting a stochastic, facies - based seismic inversion algorithm for use in shallow subsurface site characterisation
Ana Somoza, Cegal

WEB-AVO inversion for geothermal project development: a 3D Triassic reservoir characterization case study in the West Netherlands Basin
Lennart Hanemaaijer, EBN

Karstic related ground risk and remedial management in existing assets using an integrated geophysical approach
Shekhar Majumdar, Fugro

Where is my bedrock?
Bartosz Kurjanski, Atkins

CenoStore: Understanding the Late Cenozoic succession of the North Sea Basin and implications for subsurface CO2 containment
Georgina Heldreich, University of Manchester

EMERGING GEOTHERMAL

Modelling & Optimization of Geothermal Energy in the Gulf of Suez
Amira Abdelhafez, University of Manchester

Geothermal Energy Opportunities and Challenges in Puerto Rico
Melody Cosme Morales, University of Puerto Rico Mayaguez

Geological setting of the Hui Nam Ron hot spring in Ranong and Surat Thani, Southern Thailand
Pitsanupong Kanjanapayont, Chulalongkorn University, Bangkok

EGC 2023 POSTERS

De-risking Dutch geothermal plays by acquiring subsurface data - the SCAN borehole data-acquisition strategy
Adriaan Janszen, EBN

Investigating and quantifying the geothermal energy potential from mine water of abandoned coalfields within the Greater Leeds area in the UK
Professor Sandra Piazzolo, University of Leeds

The Potential of Sherwood Sandstone Group as an Aquifer for Aquifer Thermal Energy Storage
Shuangyi Gong, University of Manchester

GEOSCIENCE IN CCUS

Geomechanical Simulation Case Study of CO2 Injection in a Carbonate Reservoir
Stephen Morgan, ExxonMobil

Natural CO2 accumulations and the implications for prospective storage sites in the northern East Irish Sea Basin, UK
Sam Head, Heriot-Watt University

The Lower to Middle Triassic Bunter Sandstone CO2 storage complex of the Southern North Sea: multi-disciplinary reservoir and seal investigation
Niall W. Paterson, CASP

The potential of in-situ CO2 mineralisation within onshore UK formations
Angus Montgomery, University of Edinburgh

Feasibility study of geological CO2 storage in the Khorat Plateau, Thailand: from seismic and well data to 3D modeling
Piyaphong Chenrai, Chulalongkorn University, Bangkok

CO2-brine-rock interactions from Pha Nok Khao reservoir rock: implications for geological CO2 storage
Thitiphan Assawincharoenkij, Chulalongkorn University, Bangkok

The importance of estimating vertical permeability in Bunter Sandstone reservoirs
Keith Milne, TRACS

Outcrop-based fracture characterisation of Permian carbonate reservoir in NE Thailand with implication for geological storage of CO2
Sukonmeth Jitmahantakul, Chulalongkorn University, Bangkok

Seismic Characterization of Intraformation Layers in CO2 Storage Assessment Applying Machine Learning Approach
Daniel Rendon Hernandez, AspenTech

Methodology for the development of consistent relative permeability and capillary pressure models for reservoir simulation of CCS projects
Lisa Lun, ExxonMobil

Pore Scale Assessment of Potential Subsurface Carbon Storage Reservoirs Using Digital Image Analysis
Domenico Chiarella, Royal Holloway University of London

SUBSURFACE MODELLING FOR ENERGY PROJECTS

Process-based modelling of development of hypogene void systems and implications for subsurface flow and the energy transition
Wenwen Wei, University of Bristol

Reflection Seismic Thermometry: application in the North Viking Graben for CCS characterisation
Arka Dyuti Sarkar, University of Manchester

Using numerical modelling for de-risking mine water geothermal energy: application to the UK Geoenergy Observatory in Glasgow
Andres Gonzalez Quiros, British Geological Survey

Quantifying the uncertainties in the rate of extractable heat from mine-water reservoirs: example of the Bilston Glen mine, Scotland
Mylène Receveur, University of Edinburgh

Applying Forward Stratigraphic & Assisted Property Modeling for Predicting & Evaluating Shallow Surface Sedimentation for Offshore Wind Farms
Ammar Ahmad, Schlumberger

Geothermal Potential Assessment Through an Integrated and Agile Modeling Solution
Astrid Jonet, AspenTech

MISCELLANEOUS

Multi-scale and multi-approach investigation of subsurface hydrogen storage
Heather Braid, University of Manchester

Clay grain coat identification and quantification using Microfocus X-Ray Computed Tomography (MXCT) - A case study from a deeply buried sandstone, Norwegian North Sea
James Houghton, University of Liverpool

The Geological Evaluation of Low Carbon Energy Solutions in North-East England.
Rifky Wijanarko, Heriot-Watt University

Primary REE potential related to granitic rocks in Thailand: Evidence from mineral chemistry and geochemistry
Alongkot Fanka, Chulalongkorn University, Bangkok

Lithofacies classification and identification using artificial neural networks in the Bunter Sandstone Formation of the UK Southern North Sea
Zhenghong Li, Univ. of Manchester

Application of Digital Enablers to the Siting of Radioactive Waste Disposal Facilities
Antonia Newlands, Mott MacDonald

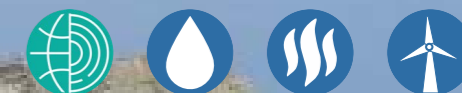
Making onshore subsurface data accessible to all
Malcolm Butler, UK Onshore Geophysical Library

Are We Fully Utilising an Easily Accessible World Class Geoscience Resource in the Energy Transition? #ScotlandsGeoLab
Steve Adams, Balgownie Geoscience

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EGC 2023 POSTERS (continued)

CONTAINMENT

A Methodology for Deciding on Well Seal Options for Abandonment
Renato Zagorscak, Quintessa

Development of tufa deposits associated with the dewatering of a radioactive waste disposal facility
Graeme Morgan, Dounreay Site Restoration Ltd.

The Effect of Authigenic Clays on Fault Zone Permeability
Natalie Farrell, University of Manchester

Seismic modelling of near-surface velocity effects
Saad Almalki, University of Manchester

Insights in metagenomic diversity in pristine oil reservoirs
Armando Alibrandi, GFZ German Centre for Geoscience Research

Incorporating Rock Matrix Diffusion in Safety Assessment Models for Radioactive Waste Disposal in Porous Rocks
Richard Metcalfe, Quintessa

Quantifying the predicted seismic response of CO2 injection into a depleted gas reservoir
Sarah Harrington, Schlumberger

3D Visualization of hydrogen storage in sandstones at reservoir conditions
Zaid Jangda, Heriot Watt University

Monitoring Seal Integrity Using Self-Growing Neural Network (SGNN) Classification
Ross Findlay, AspenTech

Subsurface Radioactive Waste Disposal Successes
Antonia Newlands, Mott MacDonald

SALT AS A STORE, SEAL, TRAP AND REPOSITORY

Regional variability of mobilisation and kinematics of salt tectonics in the Mesozoic and Cenozoic Southern North Sea sub basins
Christopher Brennan, Royal Holloway University of London

Regional Subsurface Mapping of the Cheshire Basin Salt Beds for Underground Storage of Hydrogen
David Johnstone, University of Manchester

Fluid flow in the central Algerian basin: interaction between the Mediterranean Salt Giant, volcanic basement and fluid circulation
Simon Blondel, University Oslo

3D Seismic classification of salt structure morphologies across the Southern North Sea
Christopher Brennan, Royal Holloway University of London

Mapping and Analysing Pre-salt Fault Trends – Example from the Southern North Sea
Anna Preiss, Royal Holloway, University of London

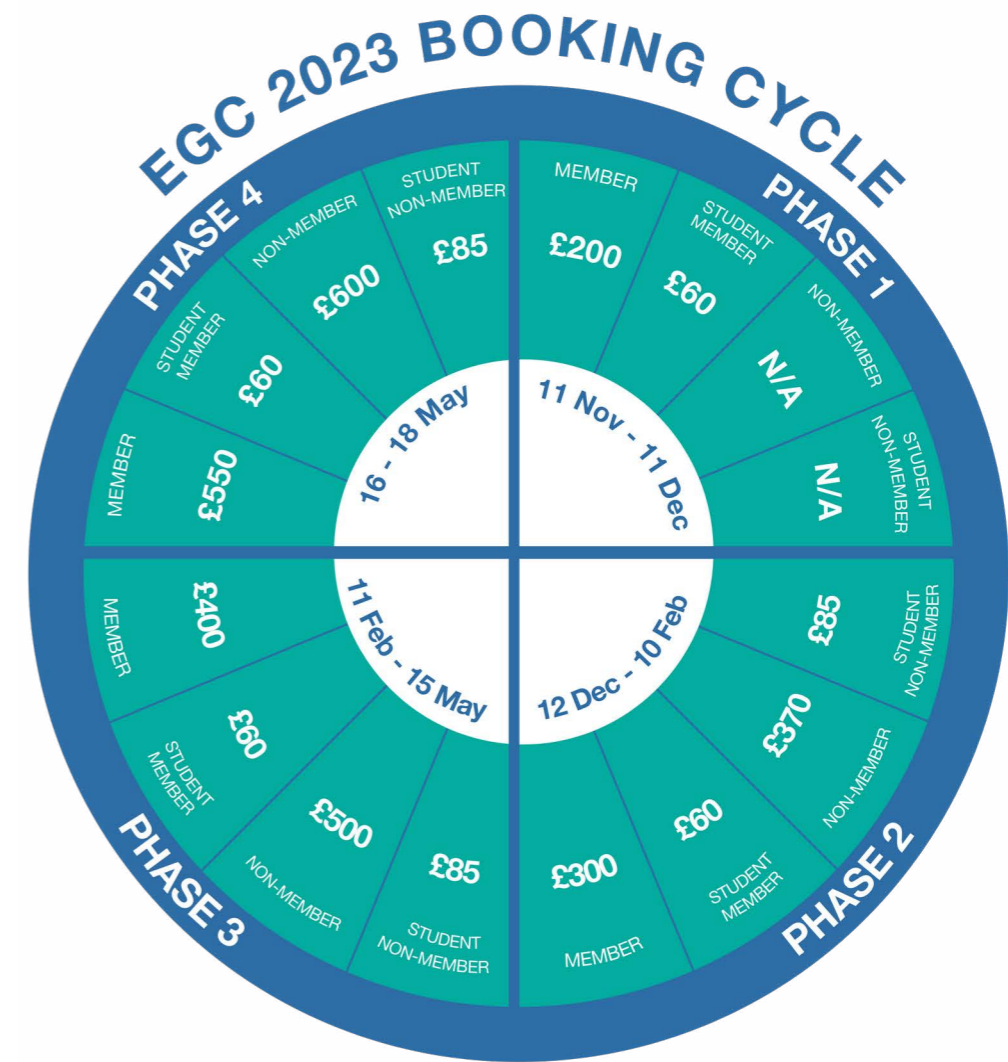
Optimising Site Selection for CO2 Storage in Salt Basins: the Norwegian-Danish Basin, a future European energy hub
Sian Evans, University of Oslo

Development of a regional model for the geometry, origin, and kinematics of Triassic salt diapirs and minibasins in the Central North Sea
Mar Moragas, University of Bergen

The Role of Compositional Variations in the Zechstein Supergroup on Styles of Salt Tectonics: An Example from the Ling Depression, Norwegian Central North Sea
Tarek Galhom, University of Bergen

Potential for Hydrogen Storage in Salt Caverns in the Kish Bank Basin
Sam Irwin, SLR

REGISTRATION



Please note: all rates exclude VAT

Online tickets and group bookings available

Visit the registration page on the EGC 2023 website for more information.

<https://www.energygeoscienceconf.org/events/energy-geoscience-conference-2023/>

FIELD TRIPS & WORKSHOPS

An exciting suite of field trips and workshops reflecting the conference themes are being planned for Monday 15 May, Wednesday 17 May (evening), and Friday 19 May. These include day trips to the Old Red Sandstone and to the Permo-Triassic Hopeman Sandstone Fm. (CO2 storage oriented) and an evening trip to the Highland Boundary Fault, followed by fish and chip supper. Details are progressively being added to the conference website, with booking arrangements to follow.

ACCOMMODATION

We are working with the accommodation agency Reservation Highway to provide discounted hotel accommodation at hotels close to P&J Live Aberdeen, exclusively for EGC 2023 attendees.

Web: www.reservation-highway.co.uk/egc23

Tel: +44 (0) 1423 525577

Email: admin@reservation-highway.co.uk



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