



# Geothermal Forum

Part of the UK MINING CONFERENCE IN CORNWALL

## Programme of Events

Tuesday 10 June 2025

National Maritime Museum, Falmouth

Sponsored by



09.00	REGISTRATION & COFFEE
09.30	<b>Welcome &amp; housekeeping</b> Lucy Cotton, Eden Geothermal
<b>OPENING SESSION: SETTING THE SCENE</b>	
	<b>Moderator</b> Lucy Cotton, Eden Geothermal
09.35	<b>Transitioning from oil and gas to geothermal and critical minerals</b> Steven Travers, Baker Hughes
09.50	<b>Geothermal the business case: global potential and cascading uses</b> Helen Robinson, International Geothermal Association
10.05	Q&A with above speakers
<b>PANEL SESSION: WHY GEOTHERMAL?</b>	
10.10	<b>Panel chairperson</b> Peter Ledingham
	Lisl Lewis, SLB Helena Rivers, AECOM Mark Simpson, Ener Vate Eloise Travis, Treveth Holdings Sebastian Lunt, Salix Finance
10.55	Q&A with above speakers
11.00	BREAK
<b>PRESENTATION SESSION: GEOTHERMAL IS 'A THING'</b>	
	<b>Moderator</b> Lucy Cotton, Eden Geothermal
11.20	<b>Netherlands: the "Dutch Doublet" and how the industry took off</b> Floris Veeger, Sproule
11.40	<b>USA: what happens when the government supports geothermal</b> Tony Pink, Eden Geothermal
12.00	Q&A with above speakers
<b>PANEL SESSION: THE IMPORTANCE OF COMMUNICATION</b>	
12.05	<b>Panel chairperson</b> Rich Noyes, Baker Hughes
	<b>Public engagements and acceptance</b> Katy Heidenreich, Offshore Energies UK (OEUK) Professor Iain Stewart, UNESCO, Royal Scientific Society Steve Roest, Project Inner Space Lucy Crane, ESG & Sustainability Consultant
12.55	Q&A with above speakers
13.00	LUNCH



**PRESENTATION SESSION: LEADING THE CHARGE IN THE UK**

**Moderator**

*Gus Grand, Eden Geothermal*

14.00 **Deep geothermal for power and Li extraction - United Downs, the first to bring geothermal power online**  
Ryan Law, Geothermal Engineering Ltd

14.20 **The UK's first geothermal lithium production facility based in Cornwall**  
William Irani & Adam Matthews, Cornish Lithium plc

14.40 **Mine Water Geothermal in practice, a working example**  
David Townsend & David Walls, TownRock Energy

15.00 Q&A with above speakers

15.05 BREAK

**PRESENTATIONS: INNOVATORS & ENABLERS MOVING FORWARD**

**Moderator/chairperson**

*Lucy Crane, ESG & Sustainability Consultant*

15.25 **Embedding strategic risk management in geothermal development**  
Stephen Brown, Brave Consultancy

15.35 Mike Palmer, SRK Consulting

15.45 Isobel Hammond, ERM

15.55 **Breakthroughs in ESP Pump Technology**  
Efkan Ferit Elmas, Halliburton

16.05 Q&A with above speakers

**PANEL SESSION: A CALL TO ACTION**

16.10 **Panel chairperson**

*Helen Robinson, International Geothermal Association*

Stuart Sinclair, Consortium Drilling  
Anne Murrell, UK Geopower Ltd  
Kevin Gray, Black Reiver  
Steven Travers, Baker Hughes

16.55 **Closing remarks**

*Mike King, Cornish Lithium*

17.00 SPONSORED DRINKS





## Lucy Cotton

Eden Geothermal - Principal Geologist

Lucy is a geologist with a decade in the UK's geothermal sector and is the Principal Geologist at Eden Geothermal. Previously, she was Geothermal Group Manager at GeoScience Ltd, serving as Lead Site Geologist for the drilling of both the United Downs Deep Geothermal Power project and Eden Geothermal in Cornwall.

Her recent focus has been driving the decarbonisation of heat for major UK industries, working with global players in distilling, pharmaceuticals, and food manufacturing.



Beyond the technical world, Lucy is passionate about making renewable energy exciting and accessible, whether through education programmes, animated storytelling with Miss Molecule and Friends, or fronting films like Power to the People.



## Steven Travers

Baker Hughes - Subsurface Director

Steven is the Region Director of GaffneyCline energy advisory leading the consultancy in Europe, Caspian and Sub-Saharan Africa, and acts as the Subsurface Director for wider Baker Hughes. He has 25 years of experience in the Energy & Resources sector, across Oil & Gas, Geothermal and CO2 Storage, with additional Technology and Mining exposure. He has worked globally across, technical, management and commercial disciplines. Steven holds a BSc (hons) in Geology & Petroleum Geology, an MSc in Drilling and Well Engineering, and an MBA.



## Helen Robinson

International Geothermal Association - Global R&D Manager & Regional Manager Africa

Helen serves as the Regional Manager for Africa and the Global R&D Manager at the International Geothermal Association (IGA), she is also the Technical Program Chair for the World Geothermal Congress 2026. With nearly 12 years of experience in the geothermal sector, she has focused extensively on geothermal projects across sub-Saharan Africa, including Ethiopia, Kenya, Tanzania, Malawi, Zambia, and South Africa. A qualified Hydrogeologist, Helen also leads Aquarius Resources as its Director, where she works on geothermal initiatives alongside groundwater projects related to mining, environmental hazards, and the humanitarian water sector. Additionally, she recently joined the UNDP as a freelance consultant with the Crisis Bureau and Global Policy Network.





## Peter Ledingham

Peter has worked in the geothermal sector for 45 years. After graduating from Camborne School of Mines he worked for six years on the UK's Hot Dry Rock geothermal research programme, before joining GeoScience Ltd in 1986.

He has worked on heat and power projects all over the world in a variety of roles - as part of project teams, providing advice to operators, regulators and investors, and carrying out due diligence, project evaluations and feasibility studies. He has served as Geothermal Technical Coordinator for the European Commission, carrying out technical oversight of its funded demonstration projects, and as an expert evaluator of funding applications to the Commission for more than 20 years. Until 2020, Peter was the Project Manager of the United Downs Deep Geothermal Power project.

He is now focussed promoting geothermal heat as a replacement for fossil fuels in domestic, commercial and industrial applications in the UK.



## Lisl Lewis

GeothermEx (SLB) - Business Development / Geophysicist

Lisl is 29 years into a diverse and unusual career spanning different facets of the energy business, and it all started for her in the mining sector where she worked on a geophysical field crew in the western United States exploring for gold, base metals, and geothermal resources. She then joined the pioneering application of marine electromagnetics for hydrocarbon exploration. Years of geophysical field work, both on land and at sea, led her naturally to the role of Operations Manager for a start-up company in California which was later acquired by Schlumberger (now SLB). After working in geophysical research and development for SLB in Norway, she diversified into corporate training and business system management in the UK. Recognizing the role that geothermal energy can play in the energy transition, Lisl transferred to GeothermEx from mainstream SLB with the goal of expanding the use of geothermal energy, particularly in the UK and Europe.



## Helena Rivers

AECOM - Energy Transition Lead, EURI

Helena leads and promotes AECOM's approach to the Energy Transition across Europe and India. She develops sustainable strategies for project and programme delivery, takes a lead in client relationship management as well as leading in thought leadership.

Helena has a broad background having worked across a wide range of industries including power generation, commercial real estate, blue light, health, defence and education.

Helena is a Fellow and past Vice President of the IMechE, she won the WICE award for digital innovation in 2022 and has been recognised by the FT as one of the 100 most Influential women in Engineering.







## Mark Simpson

Ener Vate - Senior Consultant

Mark has an excellent working knowledge of UK renewable energy markets, products, initiatives and opportunities.

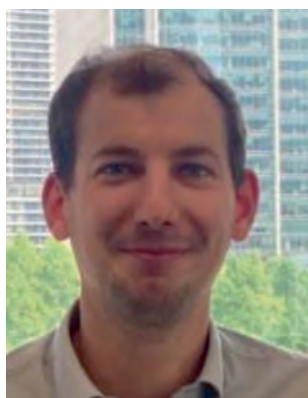
His wide commercial experience in senior roles in manufacturing, distribution and end user focussed businesses in the UK and overseas has proved successful in exceeding targets throughout his career. He is a Senior Consultant with Ener-Vate Consultancy.



## Eloise Travis

Treveth Holdings LLP - Programme Manager

Eloise is an Environmental Scientist with over 24 years' experience in decarbonisation, air quality, industrial emission regulation and project management within local government and the private sector. She holds an MSc in Integrated Environmental Studies from the University of Southampton and is a Chartered Scientist. Eloise is currently working for Treveth Holdings LLP, Cornwall Council's Housing and Commercial Developer, as the Programme Manager for the Langarth Garden Village Deep Geothermal District Heating Network.



## Sebastian Lunt

Salix Finance - Senior Energy and Carbon Programme Manager

I am relatively new to the world of Geothermal, but I know plenty on accessing funding to undertake heat decarbonisation capital projects. As Senior Programme Manager at Salix Finance, my responsibility is to work with our funders across the UK, to deliver a variety of grant and loan funding programmes. At Salix we are trusted to assess applications, allocate funding and support the delivery of energy efficiency and heat decarbonisation projects in public sector buildings. I work in the Energy, Carbon and Technical team who undertake the assessment of project proposals to ensure technical feasibility, value for money and project deliverability. The primary programme I work on is the Public Sector Decarbonisation Scheme, where I have seen the number of technologies funded through the scheme grow and evolve. We have recently supported three Geothermal projects, and so the conference is an opportunity for me and Salix to engage with the industry and develop our understanding of this promising technology. My academic background is in Chemical Engineering and I have been at Salix for four and a half years. I enjoy trail running and recently ran from Manchester to Sheffield over a long and tiring weekend.





## Floris Veeger

Sproule - Managing Director

Floris is Managing Director – Geothermal at Sproule ERCE, supporting geothermal operators, investors and other stakeholders along the full lifecycle of geothermal project development by leveraging our operational experience, geothermal insights and technical expertise.



## Tony Pink

Pink Granite Consulting - Director/Owner

Tony graduated with a BSC in Geology from University College of Wales Aberystwyth in 1990 and has a postgraduate diploma (GMP) from Harvard Business School. He has spent 34 years in the hole creation business in O&G and Geothermal.

In June 2024 Tony was appointed as the Task Force Chairman for Drilling for the DOE, GEODE project. He is currently the owner of Pink Granite Consulting, the CTO of Eden Geothermal and the Director of Technology Development for Mazama Energy.

He has published and presented 17 SPE/IADC papers and has 5 US and EU patents on closed loop drilling automation, automated directional drilling, early kick detection particle drilling and insulated drill pipe.



## Richard Noyes

Baker Hughes - Global Sectors Director

Rich has over two decades of commercial, technical and continuous improvement experience within the energy, industrial and semi-automotive sectors.

Having spent the first 12 years of his career working across the value chain with Caterpillar, most latterly as a Six Sigma Master Black Belt, he led their Industrial Power System Division global supply chain strategy. In 2010, he relocated to Austria to join GE's Energy division, applying Six Sigma within the engineering function at Jenbacher Gas Engines.

On return to the UK, and for the next 11 years, he assumed commercial responsibility for core elements of the GE Oil & Gas, now part of Baker Hughes' rotating equipment relationship with BP. Since 2022, as Sectors Director, Rich has been providing leadership of Baker Hughes business development activity in new sectors, with specific focus on UK Geothermal, and the global mining and metals sector.





## Katy Heidenreich

Offshore Energies UK (OEUK)

Katy is Supply Chain & People Director and LOGIC Managing Director for Offshore Energies UK (OEUK).

She works across the full North Sea ecosystem to support domestic capability and secure future skills. Her 25+ years in upstream include roles in production, drilling, and change leadership.

Katy is also Managing Director of LOGIC which is a wholly owned subsidiary of OEUK, responsible for the effective stewardship and governance of cross-industry standard frameworks and business systems ('the LOGIC tools') established to enhance industry-wide efficiency on a not-for-profit basis.

She is a mentor, Diversity & Inclusion advocate and author focused on inspiring the next generation of energy professionals.



## Professor Iain Stewart - RSSJO

UNESCO, Royal Scientific Society

Professor Iain Stewart is a geologist who has made huge contributions to the public understanding of earth science. He has a decade-long collaboration with BBC Science, presenting television programmes on the state of the planet, climate change and energy issues. Iain's public profile allows him to raise awareness of global environmental challenges, both in his role as President of the Royal Scottish Geographical Society and through partnerships with agencies such as the British Council and UNESCO. He has been Director of the Sustainable Earth Institute at Plymouth University since 2015. In 2013, he was awarded an MBE for services to geology and science communication.



## Steve Roest

Project Inner Space

Educated at the University of Brighton, he is now based in London, working as Senior Advisor Project at InnerSpace & Co founder of Smart Parks.

Project InnerSpace's aim is to unlock global exponential growth of geothermal by facilitating the rapid transfer of resources, technologies, and know-how from the oil and gas industry toward geothermal energy production.

The company is on a sprint to complete its mission by 2030. By the end of this decade – when its work is complete – geothermal energy development will be on an exponential roll with the oil and gas industry engaged on a worldwide scale.







## Lucy Crane

ESG & Sustainability Consultant

Lucy Crane is a geologist and ESG consultant with cross-cutting experience in responsible mining, critical minerals, including geothermal lithium. She works with organisations across extractive and renewable industries to embed environmental and social best practice, strengthen community engagement, and support financing readiness through robust ESG due diligence.

Previously head of ESG at Cornish Lithium, Lucy helped shape the company's approach to sustainable mineral and geothermal resource development—leading on permitting, stakeholder engagement, and sustainability strategy, and contributing to successful private and public funding rounds. Her work spans climate risk, decarbonisation, circular economy opportunities, and aligning projects with international ESG standards.

Lucy is also a director of the Cornwall Chamber of Mines and Minerals and the Managing Director of Women in Mining UK, where she leads advocacy for greater diversity, equity, and inclusion in the sector. A recognised industry voice, she regularly speaks at international conferences.



## Gus Grand

Eden Geothermal - CEO

Gus has led Eden Geothermal through funding, procurement, drilling, construction and into operation. In 2023 Eden Geothermal became the first deep geothermal project to come online in the UK since 1986. She is now leading an enhanced team to help other organisations do the same. Before leading Eden Geothermal from 2019, Gus was Head of Policy at Eden Project, developing Eden's sustainability and science programme. An expert in communication of sustainability issues, she joined Eden Project at its opening in 2001 and worked on policy, public education and science communication projects across a diversity of subjects: energy, climate, carbon, transport, biodiversity mining and horticulture. She is a winner of Project Innerspace PIVOT 2023 international awards as one of 'Five on Fire' geothermal catalysts of the year.



## Ryan Law

Geothermal Engineering Ltd - Chief Executive Officer

With over 25 years of experience in geothermal project development, Ryan has designed, managed and overseen the installation of geothermal schemes ranging from individual systems to city-scale district heating networks. More recently, as Founder and CEO of Geothermal Engineering Ltd, Ryan has overseen development of the United Downs Project in Cornwall, UK, the first geothermal power plant in the UK.





## William Irani

Cornish Lithium plc - Project Engineer

William Irani is a Project Engineer at Cornish Lithium, where he leads the development and delivery of the company's lithium-enriched geothermal water (LiGW) extraction projects. Since joining in 2021, William has played a central role in engineering, commissioning, and operating multiple pilot plants, beginning with the UK's first Direct Lithium Extraction (DLE) pilot at United Downs. He also oversees technical studies, on- and off-site test programs, and system performance reviews to support technology selection.

His current focus includes the procurement and integration of a demonstration-scale DLE system and preparing the Cross Lanes site for wide-diameter drilling and testing of the Lithium Extraction system.

William brings nearly a decade of experience across the mining and tunnelling sectors, including roles as a Tunnel Boring Machine Engineer at Hinkley Point C with Balfour Beatty and as a Technical Coordinator with Gaustec Magnetic Technologies. He holds a First-Class Honours degree in Mining Engineering and is working toward IOM3 chartership.



## Adam Matthews

Cornish Lithium plc

Adam Matthews is the Chief Geologist for Cornish Lithium plc's (CLP's) Li-Enriched Geothermal Waters (LiGW) project. An integral member of the team since 2017, he has played a pivotal role in every stage of the company's geothermal initiatives - from data collation and geological modelling to site selection, permitting, drilling, and well testing across all eight deep exploration core wells (up to 2,000m).

Adam now leads the geothermal geology team overseeing site selection, drilling, well testing and data processing activities. Currently, he is focused on the drilling programme and procurement for CLP's geothermal lithium demonstration facility, a key step toward commercialising sustainable lithium extraction in the UK.



## David Townsend

TownRock Energy Ltd - Founder & CEO

David is a multi-award-winning geothermal entrepreneur and CEO of TownRock Energy (TRE). His passion is tackling climate change. He believes that when organised by ethical leaders, business can be a force for social and environmental good.

David founded TRE in 2013 having been inspired by the greatest untapped renewable energy source: geothermal energy. David's entire work life has been dedicated to understanding the business case for all types of geothermal resource and technology. This requires a deep understanding of all of the technical, environmental, social, political, regulatory and commercial factors of geothermal energy development.



David enjoys bringing multi-disciplined teams together from academic, private & public sectors to achieve his overarching mission of making geothermal energy a mainstream energy source in the UK and globally, to achieve the existentially important target of net-zero carbon emissions.



## Dr David Walls

TownRock Energy - COO & Senior Geothermal Geologist

After being enamoured by the vast potential of geothermal potential from a high school trip to Iceland, David obtained an Earth Science degree from University of Glasgow in 2017 to pursue a career in geothermal energy. From here he joined TownRock Energy as a geothermal geologist and since then has completed a PhD with the University of Strathclyde, identifying and quantifying mine water geothermal resources across Scotland.

Between his research and work at TownRock Energy, David has gained rare experience in geothermal project planning and execution, resource characterisation, risk mitigation and maintenance. David now leads the operation and maintenance of the UK's first two multi-megawatt mine water geothermal heating schemes in Gateshead, and has been pivotal when organising and planning other projects in the earlier stages of development.



## Steve Brown

Brave Within

Chemical engineer with 20+ years' experience in transforming governance in energy, utilities and green technology sectors.



## Michael Palmer

SRK Consulting (UK) Ltd – Senior Hydrogeologist, MSc, CGeol FGS

Michael Palmer is a Senior Hydrogeologist and Chartered Geologist at SRK Consulting. With over 15 years of experience, Michael's career began in Australia, where he worked on mining projects across the Pilbara and Goldfields. Since joining SRK in 2011, he has focused on mine water management studies from scoping through feasibility to operational stages and providing specialist input to ESAs. His work encompasses a diverse range of geographical and geological environments across Europe, Africa, the Middle East, and Fennoscandia. In recent years, Michael has applied his mining industry expertise to deep groundwater exploration and characterisation for geothermal lithium brine projects in the UK.







## Isobel Hammond

Environmental Resources Management Ltd - Managing Consultant

Isobel is a Managing Consultant at ERM, working across the built environment, networks and energy infrastructure planning. She specialises in the heat network sector where she is experienced in designing low carbon energy infrastructure. Her particular expertise in techno-economic modelling allows for effective assessment of scenarios across a project's lifetime that deliver the most cost-effective low carbon solutions.

Isobel has delivered a wide range of geothermal projects from feasibility studies through to detailed design for clients in both the public and private sector. Isobel joined ERM in 2024, after six years as an Energy Engineer with Buro Happold, working in London and New York. She has an MEng in Renewable Energy from Exeter University's Penryn Campus.



## Efkan Elmas

Halliburton - Sr. Technical Advisor, Artificial Lift

Efkan is a Senior Technical Sales Advisor for artificial lift systems, with Summit ESP, a service offered by Halliburton, specialising in wellbore pump (ESP) systems and surface pumps (HPS) systems.

He has an MSc in Management Engineering and is responsible for projects in Europe and Turkey.

Prior to Halliburton, Efkan spent 14 years in the geothermal and oil & gas (O&G) sectors, and five years in renewable energy, waste heat recovery and energy efficiency.



## Stuart Sinclair

Consortium Drilling - CEO

Stuart Sinclair is CEO of Consortium Drilling Ltd, the UK's leading onshore deep drilling contractor and proud recipient of the Best Technology Business award. With over 17 years of experience in the energy sector and a double master's degree from Sheffield University, Stuart has led the company to the forefront of the energy transition—supporting geothermal energy, lithium extraction, and green hydrogen storage projects across the UK and internationally.

Under his leadership, Consortium Drilling has become a recognised technology leader, delivering award-winning, high-performance drilling systems focused on safety, innovation, and sustainability. Backed by a senior leadership team with over a century of hands-on practical experience, the company brings unmatched operational expertise to complex subsurface energy projects.

Consortium Drilling's work in geothermal energy plays a key role in unlocking clean, baseload heat and power, essential for achieving net-zero goals. The company also supports the critical minerals supply chain through lithium drilling operations and is a strong advocate for the responsible development of indigenous subsurface resources—ensuring that domestic capability plays a central role in the UK's clean energy future. A strong advocate for practical, scalable solutions, Stuart brings operational insight and strategic vision to the evolving energy landscape.







## Anne Murrell

UK Geopower Ltd - CEO

Anne's passion for geothermal energy was ignited during her work as a geothermal project developer in Bavaria. She acted at city, state and national level in Germany to extend opportunities for geothermal development, whilst working closely with the local community to realise deep geothermal projects. Anne is currently at the centre of a network accelerating geothermal in the UK. Her focus areas are advocacy, raising awareness and enabling funding.



## Kevin Gray

Black Reiver

Kevin has over 35 years in the drilling industry and more than 5,000 days of rig-site operational experience in the geothermal sector. He is a lead member and founding contributor to the IADC Geothermal Committee steering group, where he was instrumental in developing the IADC geothermal well classification system and initiating the IADC Geothermal Drilling Conference. He is also a founding member of the UK's APPG on Deep Geothermal, helping shape policy and standards across the sector. His expertise has been shared globally through speaking engagements at geothermal conferences in Vienna, Taiwan, Hawaii, and London, and he is an established training provider for Geothermal Rising.



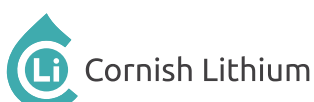
Kevin, also a published author, provides geothermal operators, developers and investors with technical training, asset evaluation, drilling performance optimisation and due diligence. He supports geothermal startups and contributed to the Geo-Lok geothermal wellhead system, now being commercialised by Oil States Renewables.



## Mike King

Cornish Lithium plc - Vice President Business Development & Government Relations

Mike has over 20 years' experience in oil and gas exploration, business development, commercial and production project management in the USA, UK and other international markets. He has spent time in senior government roles and as Executive Director in the Welsh Development Agency (2001-2005) before working in the Government of Jersey (2005-2017).







## Notes



# Geothermal Forum

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Event organised by

