

ENERGY GROUP

GEOLOGICAL HYDROGEN: BUILDING THE EVIDENCE BASE

7TH – 8TH JULY 2027

The Geological Society, Burlington House, Piccadilly, London & Online

CALL FOR ABSTRACTS NOW OPEN | Deadline: Wednesday 31st March 2027

Since the Geological Society's first meeting on natural hydrogen in 2023, the field has moved on quickly. Early work centred on seeps and surface emissions. It then moved to describing the hydrogen system (source, migration, reservoir and seal), and more recently to defining exploration plays and choosing drilling locations, for both naturally occurring and stimulated hydrogen.

Drilling results are now starting to come through. For the first time, ideas tested mainly through laboratory experiments and theoretical models can be checked against subsurface data. But that data is still limited, unevenly shared and of variable quality, and it hasn't always been collected with scientific questions in mind.

This two-day meeting, focused purely on the geoscience, asks the community four questions:

1. Where should research and data collection focus next?
2. What measurements are needed, and to what standard?
3. Which open questions matter most?
4. How can the community build a solid evidence base for this emerging resource?

We invite abstracts on the following themes:

- **Generation and Stimulation** – current research into natural and stimulated hydrogen generation processes.
- **Retention and Loss** – reservoirs, seals and sinks, including microbial and abiotic consumption.
- **Data Quality and Acquisition** – sampling, measurement and analytical methods that give valid hydrogen data.
- **Characterising the Resource** – shows versus pay, free gas versus dissolved, pure versus mixed gas streams.
- **Lessons from the Field** – results from drilling, surveys and exploration campaigns.
- **Future Directions** – key challenges and the research needed to address them.

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For further information please contact: energygroup@geolsoc.org.uk

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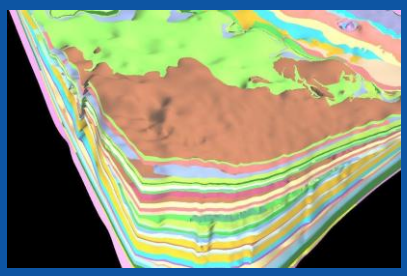





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