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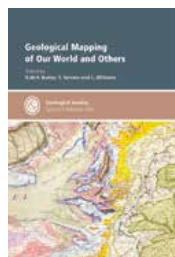
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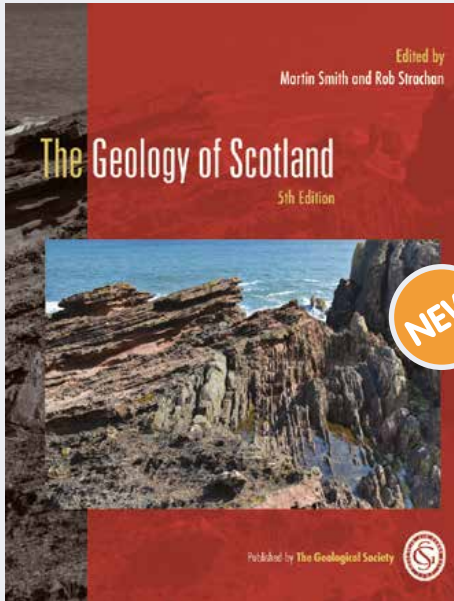
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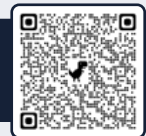
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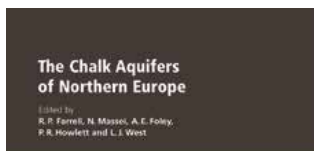
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The Cretaceous Chalk aquifers of Northern Europe underlie and support many sensitive ecosystems whilst at the same time being an important source of drinking water. Understanding, managing and protecting this valuable asset has always been a challenge and this volume brings together 25 papers representing current knowledge of the Chalk across a variety of thematic sections.

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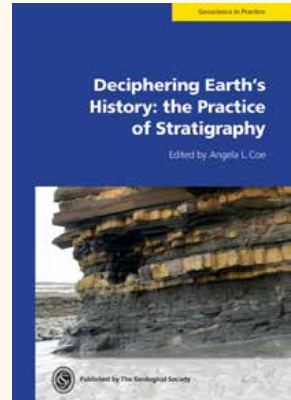
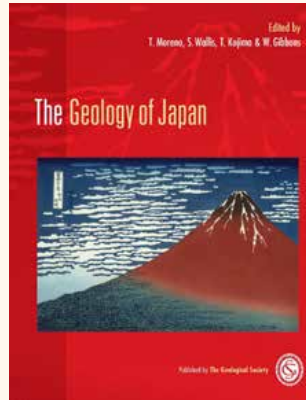
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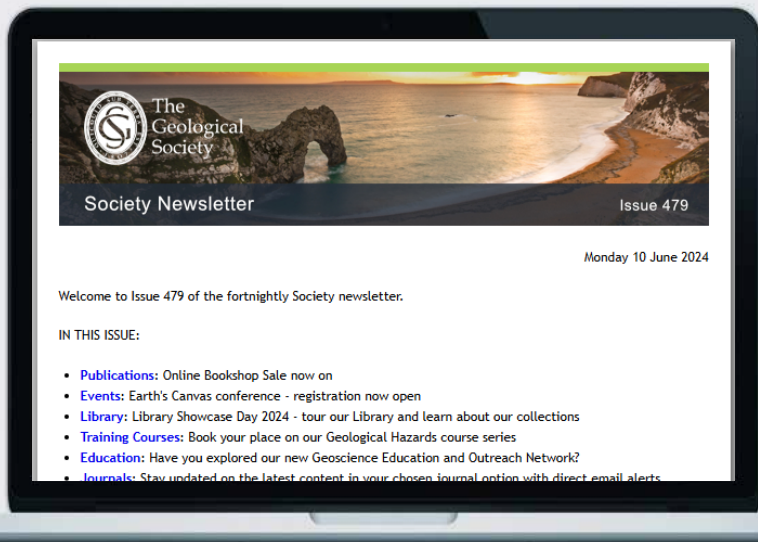
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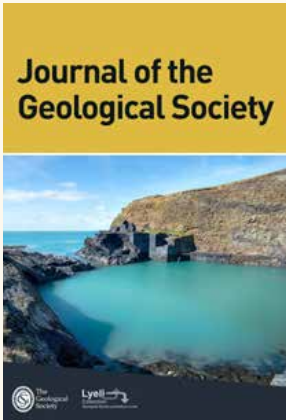
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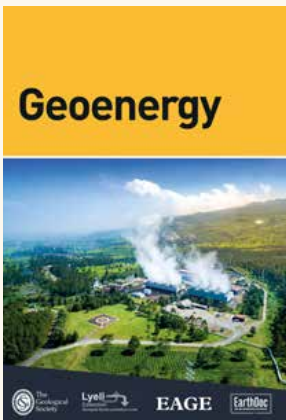


## Earth's earliest forest: fossilized trees and vegetation-induced sedimentary structures from the Middle Devonian (Eifelian) Hangman Sandstone Formation, Somerset and Devon, SW England

By Neil S. Davies, William J. McMahon, and Christopher M. Berry

The evolution of trees and forests through the Devonian Period fundamentally changed Earth's land biosphere, as well as impacting physical environments and geomorphology by stabilizing sediment and interacting with flowing air and water. From the mid Givetian Age onwards, lignophyte flora are known to have been key parts of the machinery in the 'Devonian Landscape Factory', but the impact of earlier forests, dominated by less woody cladoxyloids, is not as well understood.

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## Lithium: critical, or not so critical?

By Nicholas J. Gardiner, Simon M. Jowitt, and John P. Sykes

Some metals necessary to deliver renewable energy are considered critical. Metal criticality is a major factor in achieving energy decarbonization, leading to efforts to make metals uncritical. Among the most critical is lithium which, like many critical metals, represents a small-scale market experiencing significant demand increase causing price and supply volatility, thereby hindering necessary transformative investment.

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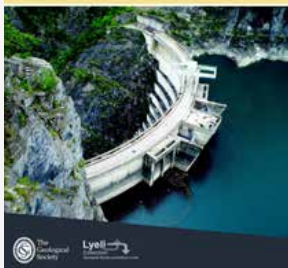


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Quarterly Journal of  
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## The 18th Glossop Lecture: variability and ground hazards: how does the ground get to be 'unexpected'?

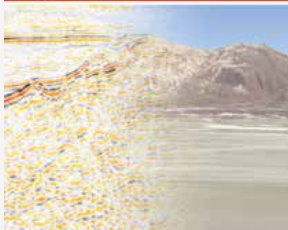
By *J. A. Skipper*

Understanding why the ground is variable is vital to the successful and safe undertaking of civil engineering projects. Yet investment in quality ground investigation and ground modelling is still often woefully underfunded given the hazards that can result. This paper seeks to explain how basic preconceptions can lead to a lack of geological understanding, and how by looking at why the ground is variable can help us anticipate ground risks, and explain them better to others.

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**The Impacts of Igneous Systems  
on Sedimentary Basins and  
their Energy Resources**

Edited by  
B. Kibbala, S. Hofford, D. Gardiner, S. Gozzard,  
L. Layfield, C. McLean, S. Thackrey and D. Watton



## Greenstones as a source of hydrogen in cratonic sedimentary basins

By *Ian P. Hutchinson, Owain Jackson, Andrew E. Stocks, Andrew C. Barnicoat, and Stephen R. Lawrence*

A model is presented for the generation of natural hydrogen from cratonic basement rocks and its migration into the sediments of overlying cratonic basins. It is based on the 'discovery' of hydrogen at Bourakebouguou in the Taoudeni Basin of Mali. In the 'Cratonic Greenstone Model', hydrogen is generated by the serpentinization of olivine-rich, ultramafic rocks contained within Precambrian 'greenstones'.

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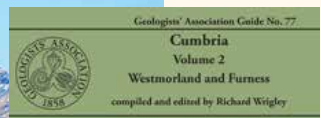
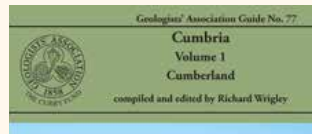
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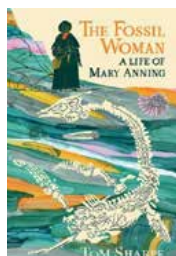
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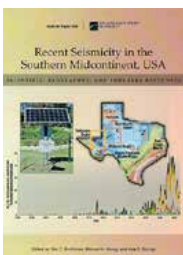
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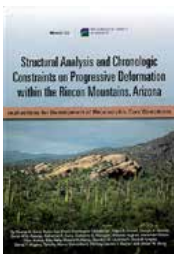
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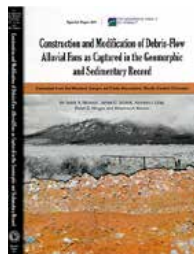
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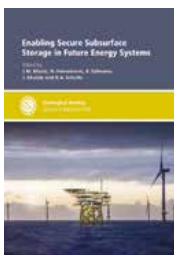
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