



**21<sup>st</sup> October 2024**

**LGS Newsletter 166.3**

Information about indoor meetings for the 166<sup>th</sup> session is now available on the LGS website at:

<https://liverpoolgeologicalsociety.org/indoor-meetings>

All talks will take place in Lecture Theatre C in the Central Teaching Hub, University of Liverpool.

## Liverpool Geological Society events

**Tuesday 29<sup>th</sup> October**

**Lecture by Dr Peter Hommel, University of Liverpool**

**Title: 'Geology of Early ceramics'**

Dr Peter Hommel from the Department of Archaeology, Classics and Egyptology is an archaeological scientist specialising in the study of ancient technologies and materials with extensive research expertise in the archaeology of northern Eurasia and a passion for public engagement.

In his lecture this evening, Dr Hommel will discuss how clay and human societies connect and how geology has helped us address some key questions about human development.



**Dr Hommel preparing for another day of Magnetometry at Soyo (Khovsgol Province, Mongolia)**

**Tuesday 12<sup>th</sup> November**

**Lecture by Dr David McNamara University of Liverpool**

**Title: Drilling the Mid Atlantic Ridge**



**David is a Senior Lecturer in Geology, current Head of the Earth Sciences Research Group (ESRG), and Deputy Director of the Scanning Electron Microscopy Shared Research Facility (SEM SRF) at the University of Liverpool.**

In a 2 month expedition in the summer of 2023, the International Ocean Discovery Program drilled a transect of wells perpendicular to the Mid-Atlantic Ridge. A team of international scientists, including Dr David McNamara from the University of Liverpool, went to sea for eight weeks aboard the JOIDES Resolution, where they worked in its floating laboratory to analyse drill core of contourite drift sediments draped across the Atlantic seafloor, as well as investigate the basaltic lavas forming the top of the Atlantic Oceanic crust.

Dr McNamara will talk about his experience on this remarkable scientific expedition and present some of the team's early findings on when Arctic waters first entered the Atlantic Oceans and how the basaltic Atlantic crust has hydrothermally interacted with the ocean over the last ~60 million years.

## A reminder about the retirement of the LGS Programme Secretary

Chris Hunt has announced that he intends to step down as Programme Secretary at the end of the 2024-2025 session. Council is seeking a replacement to shadow Chris this session and take over the planning of the programme of talks for 2025/6. Chris has produced a brief description of the Programme Secretary's role.

**LGS members interested in finding out more about this post should email Maggie Williams (Secretary) at [lgssecretary19@gmail.com](mailto:lgssecretary19@gmail.com)**

## Two gentle reminders from the Treasurer

### 1. Subscriptions for the 2024 - 2025 session

Subscriptions are due on the 1st of October 2024.

Subscription rates are: £15 for full members and £5 for student members (full time students).

All enquiries about membership of the Society should be sent to the Honorary Treasurer at [g.t.b\\_lgs@hotmail.co.uk](mailto:g.t.b_lgs@hotmail.co.uk)

*(Please note that Gary's email address has an underscore between b and lgs)*

Those wishing to take advantage of a Standing Order Mandate to pay their subscriptions and save worrying each year about paying their subscriptions should also contact the Honorary Treasurer, who will provide you with our bank details. You can complete the Standing Order Mandate online or by visiting your bank.

### 2. Gift Aid - boost your donation by 25p of Gift Aid for every £1 you donate!

Liverpool Geological Society reclaims **Gift Aid** from the tax you pay for the current tax year. Your address is needed to identify you as a current UK taxpayer. A Gift Aid Form is available from the Honorary Treasurer and at LGS meetings. Completed Gift Aid forms should be returned to Mr Gary T Billington, Honorary Treasurer, Liverpool Geological Society, 4 Lewisham Road, Liverpool L11 1EF

Email: [g.t.b\\_lgs@hotmail.co.uk](mailto:g.t.b_lgs@hotmail.co.uk)

## Dates for your diary: University of Liverpool event

Wednesday 4<sup>th</sup> December

**Climate and Ecology: Off the Rails - Liverpool Regional Presentation**

**Location:** Jane Herdman Lecture Theatre, Williams Brown Street, Liverpool, L69 3GP.

**Time:** from 6.00pm until 7.45pm.

This is a hybrid event, which can be attended in person, or online via Zoom.

The link to this event and the place where you can book your free ticket is here:

<https://www.geolsoc.org.uk/12-Climate-and-Ecology-Off-The-Rails-Liverpool>



Everyone is welcome. The hope is to have a productive discussion on all aspects of climate change at all levels. A panel is being set up consisting of 5 or 6 members from around the School of Environmental Sciences. The plan is to cover key topics facilitated by the panel members, with the aim of fostering engaging interaction with the audience. After this - discussion in the pub.

Please join the Geological Society, in partnership with the University of Liverpool, for this instalment in the Climate Off the Rails series.

This event will comprise a presentation titled 'How do sedimentary layers record information about past climate change?' by Dr Robert Duller, followed by a structured discussion.

Over the past several billion years, climate change has left its signature on Earth's sedimentary layers (strata), offering vital clues about how our atmosphere, oceans and landscapes have and will respond to climatic shifts. This response is not straightforward; it can be immediate, or time lagged, short-lived or long-lived depending on the nature of processes in operation and how system components interact. So how do strata record information about climate change?

We will discuss well-known examples and place these in context of our current thinking of the complex link between climate change and strata. This understanding is crucial for building a consensus on the impact of climate change on our planet in the past, and for developing strategies to manage the impact of present-day anthropogenic climate change in the future.

## Dates for your diary: Herdman Society events

**Tuesday 12<sup>th</sup> November - Prof. Andy Biggin, University of Liverpool**

Title: Stanger Fields: When GeoMag Goes Mad

**Tuesday 19<sup>th</sup> November - Megan Udy, University of Leeds**

Title: Satellite detection of explosive volcanic eruption impacts on forests

**Tuesday 26<sup>th</sup> November - Prof. Richard Holme, University of Liverpool**

Title: Modelling the magnetic field of Jupiter

*These lectures will take place in 502 Building (room TBA), University of Liverpool Campus  
from 5:30pm-6:30pm and will be free to attend.*

## Dates for your diary: Herdman Symposium 2025

**Saturday 8th February 2025 - University of Liverpool's 52nd Herdman Symposium**

The symposium theme is "Precipice: Earth Sciences in the Anthropocene".

Here is the list of speakers.

**Please note** that the text in italics outlines the speaker themes, not the titles of the talks.

**The 52nd Herdman Symposium**

# Precipice

**Earth Sciences in the Anthropocene**

<b>Prof. Richard Worden</b>	University of Liverpool
<i>Carbon Capture and Storage (CCS)</i>	
<b>Prof. Mark Maslin</b>	University College London
<i>How humans caused the Anthropocene</i>	
<b>Dr. Munira Raji</b>	University of Plymouth
<i>Sustainable energy and science diplomacy</i>	
<b>Dr. Babette Hoogakker</b>	Heriot-Watt University
<i>Ocean oxygenation and climate tipping points</i>	
<b>Dr. Claus-Dieter Hillenbrand</b>	British Antarctic Survey
<i>Geological record of ice sheet tipping points</i>	
<b>Prof. Chris Jackson</b>	WSP
<i>Geocommunications</i>	

**8th February 2025**  
**Central Teaching Hub,**  
**University of Liverpool**



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