

**From:** Peter Williams <newsletter@liverpoolgeologicalsociety.org>  
**Sent:** Tuesday, November 15, 2016 5:46:39 AM  
**To:** <tjpeter.williams@gmail.com>  
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**Subject:** 15th November LGS newsletter

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## LIVERPOOL GEOLOGICAL SOCIETY NEWSLETTER

18/10/2016

The following will be proposed for membership of the Society at the 22nd November meeting:  
Auwalu Yola Lawan.

22nd November 2016  
7.30pm at Lecture Theatre 137,  
Liverpool John Moores University  
Byrom Street L3 3AF

A Lecture by Professor Douglas Mair, Head of the School of Environmental Sciences, University of Liverpool. Title:  
"Reconstructing 1000 years of tidewater glacier advance and retreat in SW Greenland: links to climate change and  
impacts on Norse settlement."

Our ability to predict the future stability of the Greenland Ice Sheet depends on understanding the long-term relationship between climate and mass loss by iceberg calving from tidewater glaciers. This talk provides an overview of ongoing research around the most dynamic tidewater glacier in SW Greenland where a unique combination of glacial geomorphology, marine biology and archaeology (remnants of Norse settlements) is being used to reconstruct this glacier's advance as well as retreat over the last one thousand years. This unique long-term record will be used to validate models that link calving to climate and provides insights into the resilience of Norse settlement in the face of climatic deterioration.

**Tuesday 29th November 6.30 - 9.00**

## Minerals, Fossils, Machines and Microscopes.

**A practical session at the Central Teaching Laboratories, University of Liverpool with Maggie, Peter, Jim and co.**

This practical session will enable participants to follow the 'life story' of some sedimentary rocks from deposition to deep burial. You will use state-of-the-art microscopes to study surface features and fossils and to delve into the mineral cements which bind the sediments into solid rocks. We will demonstrate the use of research-level electron microscopy, geochemical mapping and cathodoluminescence: bombarding the sediments with electrons, making them glow in the dark and reveal more secrets.

Together we will reconstruct the history of the sediments and gain an understanding of the 'hole' truth. Why do some sediments make great reservoirs for oil, gas and water and others have talents elsewhere?!

*Please bring a memory stick if you want to capture pictures that you have taken during the evening.  
Tea/coffee will be available at 'half-time' during the evening.*

**Admission: 6.15 - 6.25 pm only** - please be prompt; the doors will be locked behind us!

Number of Participants limited to 36 (session may be repeated in future if there is sufficient demand).

To book a place: : **please email or phone Jim Marshall (isotopes@liv.ac.uk ; 0757 060 5659)**

**FIRST COME, FIRST SERVED.**

Location map on the LGS website [www.liverpoolgeologicalsociety.org/meetings.htm](http://www.liverpoolgeologicalsociety.org/meetings.htm)

6th December 2016

### FUN QUIZ NIGHT

Room G33 Liverpool John Moores University, Byrom Street L3 3AF

Please note 7pm start

- Cheese & Wine
- Prizes
- Teams of four (ish)

This is the last newsletter of 2016

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Liverpool Geological Society · 2 Hazelwood · Wirral, Outside US or Canada CH49 2RQ · United Kingdom

