From: Peter Williams <newsletter@liverpoolgeologicalsociety.org>
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Cc:
Subject: Newsletter 24th January 2017

158th Session

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LIVERPOOL GEOLOGICAL SOCIETY

NEWSLETTER

24/01/2017

The Honorary Secretary Joe Crossley would like to have any nominations of members to be on the Society's council for 2017/2018.
You can contact him at lgshonsec@gmail.com

or at:
Joe Crossley
Honorary Secretary
Liverpool Geological Society
School of Natural Sciences and Psychology
Liverpool John Moores University
Byrom Street L3 3AF

31st Jan 2017: Dr Rob Duller, University of Liverpool. Department of Earth, Ocean and Ecological Sciences
Delayed response of sediment transport during the PETM in northern Spain

The Palaeocene-Eocene thermal maximum (PETM) represents an abrupt episode of global warming. This event is marked in the terrestrial and marine sedimentary record as a negative δ13C excursion, which is concomitant with an increase in the amount and size of detrital material. However, the precise temporal relationship between the δ13C marker horizon and the onset of increased detrital material is unknown. Detailed analysis of a terrestrial and marine section within the same sediment routing system suggests that the production and transport of detrital material from mountain catchments to these sites lags behind the negative δ13C marker horizon by ca. 10-15 ka. A number of mechanisms could be responsible for this lag and these shall be discussed. Crucially, the identification of a time lag between the carbon release event and the onset of increased sediment calibre might tell us something fundamental about timescale of coupling between the climate and landscape system. If the anthropocene is indeed analogous to the rates of increase of global warming experienced during the PETM, our results indicate that we may have to wait 10 ka before its full effects are transmitted to the sedimentary record.

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Herdman Society Symposium:
Bold Ideas in Earth Sciences 2017

Saturday 25th February 2017 - registration from 9.30 talks from 10.00
Central Teaching Hub - University of Liverpool

This year the talks promise a fantastic insight into contemporary advances in the Earth Sciences.
This year the speakers will be:

Dr Guillem Anglada (QMU)- 'Proxima and detection of small planets around nearby stars'
Dr Hugh Tuffen (Lancaster)- 'Rhyolitic Magma on the Move'
Dr Kate Hendry (Bristol) - 'Beautiful fossil sponges and the reconstruction of ocean chemistry'
Prof Sarah Davies (Leicester) – 'The rise of a new terrestrial ecosystem in the early Carboniferous'
Prof Stuart Haszeldine (Edinburgh)- 'Fossil fuels, and the use of Carbon Capture and Storage in the UK'
Dr Marion Holness (Cambridge) – 'Igneous Microtextures and the movement of melts'.

Ticket Price (£15.00): includes Talks, Abstracts, Refreshments, Buffet Lunch and Wine Reception

(Reductions for students, members of the Herdman Society and School/ College groups)

Advance Registration Essential - please go to http://tinyurl.com/h9osh62

Society's Annual Dinner

The Annual Dinner will take place at the Villa Romana Restaurant, 6 Wood Street, Liverpool 1 on March 14th 2017.
A menu and booking sheet is available at:
http://www.liverpoolgeologicalsociety.org/index_htm_files/lgsdinner2017.pdf

Please return your choices and cheques to the Honorary Treasurer Gary T. Billington
at the address on the Booking form.

Refreshments

Tea & coffee will now be served at the front of the lecture theatre, from 7pm. We will need to make sure that we leave no debris behind when we have finished. (The library will also be available in the same location.)

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