

From: Peter Williams <newsletter@liverpoolgeologicalsociety.org>
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LIVERPOOL GEOLOGICAL SOCIETY NEWSLETTER

31/01/2017

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

**7th Feb 2017: Professor Hugh Rollinson, Head of Geosciences, University of Derby.
The growth and recycling of the continental crust**

New model growth curves for the continental crust, based upon the study of radiogenic isotopes, suggest that large volumes of felsic continental crust were present in the very early part of Earth history. However, these models sit uncomfortably with estimates of the volume of ancient crust preserved today and could imply that the large volumes of crust that were created early in Earth history are now lost. And yet, there is no evidence from modern mantle geochemistry that very large volumes of early continental crust have been recycled into the mantle. In contrast significant volumes of Archaean crust may have lost their identity through being reworked into younger crust during melting and metamorphism, although there is little evidence that this process took place in the earliest part of Earth history. Further, there is no evidence for large volumes of very early felsic crust in the detrital zircon record, instead geochemical proxies for Eo-Archaean and Hadean crust strongly suggest that the earliest crusts on Earth, some of which may have been subaerial, were mafic. A lack of very early felsic crust on Earth calls for a re- evaluation of current crustal growth curves and geodynamic models for the start of plate tectonics, the role of supercontinents in early continent formation and the role of the subcontinental lithosphere in continent preservation. The earliest felsic rocks on Earth may have taken the form of oceanic plagiogranites or ocean- island potassic granites as found in the modern.

Lecture starts at 7.30pm in lecture room 137 of Liverpool John Moores University, Byrom Street L3 3AF

L.G.S Council Meeting

The next Council meeting will be held on Tue 28th February from 6.30 to 7.30. (This short meeting is immediately before Hazel Clark's lecture: "Iceland 2016")

**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 members of the Liverpool Geological Society)

Advance Registration Essential - please go to:

<http://tinyurl.com/h9osh62>

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