



LIVERPOOL GEOLOGICAL SOCIETY

NEWSLETTER

16/04/2018

Data Protection Regulations.

On 25th May 2018, the data protection regulations alter. We will only be able to contact you if you have filled in and returned the separate form that is included with this newsletter. An electronic copy is also available on the front page of our website:

www.liverpoolgeologicalsociety.org

Only the Treasurer and the Web Manager hold the data and we only use it to contact you.

Thursday 19th April 2018

PESGB Liverpool Branch Meeting in the Jane Herdman Lecture Theatre, Jane Herdman Building, 4, Brownlow Street, Liverpool, L69 3GP. LGS members are welcome to attend this meeting which starts at 7.00pm. Tea/ coffee will be available before the start of the meeting.

Prof Jonathan Redfern, North Africa Research Group, University of Manchester
'Chasing the Triassic Continental Sandstone Play Fairway across NW Africa:
Characteristics, Challenges and Opportunities'

During the breakup of Pangea, Triassic rift basins developed across North Africa, filled by thick sequences of continental red beds. These sequences comprise ephemeral and perennial fluvial sandstones, aeolian sandstones, alluvial fan conglomerates, playa, floodplain and lacustrine mudrocks. Toward the end of the Triassic many basins experience a transgression with deposition of marine limestones and mudstones, and where the palaeogeography and climatic conditions were conducive, thick sequences of evaporites were deposited that act as a regional super-seal. This interval forms an important reservoir across North Africa, with over a billion barrels discovered in Algeria, Libya and Tunisia.

The Triassic system is now being actively explored in Morocco, with the recent Tendrara wells drilled by Sound Energy testing gas from Triassic sandstones, extending this play fairway to the west. There are many other Triassic rifts along NW African margin where a similar play exists, some undrilled, whose prospectivity is unknown

The talk will review our understanding of the controls and characteristics of the main depositional systems, reservoir distribution and quality, source and seal and implications for the petroleum system. We will discuss challenges for exploration and development and the opportunities for this play along the NW Africa margin.

(PESGB = Petroleum Exploration Society of Great Britain)

Sunday April 22nd 2018 The Roaches

Leader(s): Chris Hunt & Hazel Clark

Geological Mapping for Beginners

To mark Earth Day we shall visit the magnificent Ramshaw Rocks, Hen Cloud and Roaches area of North Staffordshire (recently featured in Britain's Best Walks). We shall walk about 4-5 miles over gritstone moorlands on sometimes steep, sandy paths through heather. Those with mobility problems should be aware that some locations may be challenging – please contact Chris for advice.

This will be a day-long taster of how geological maps are made. We shall look briefly at the sedimentology of the Roaches Grit in the context of “What is a mappable unit?” Then, many questions will be posed and addressed such as – “How do we know where we are on the map?”; “How do we measure structures and mark them on a map?”; “How do we know where a geological boundary is?”

Depending upon the numbers attending, we shall have options of mapping individually, in pairs or in small groups, helped by Chris and Hazel. Please let Chris know at chris1972scfc@outlook.com of your intention to attend so adequate provision for maps can be made and we will wait for your arrival at the meet point.

There is no exact end time but expect to finish around 4pm – weather dependent.

Logistics

Meet at 10am at the Tittesworth Reservoir Visitor Centre (ST13 8SW) where there are toilets. As a travel time guide it takes about an hour and 15 mins from Burtonwood Services. Parking is charged here, so stay with cars as we shall be moving on once everyone has arrived. Parking in some of the field areas is a problem so please share lifts to keep cars to a minimum.

Walking boots, high viz jackets and safety helmets are advised. You will also need to bring a clipboard/map board for mounting your base maps; HB pencil, sharpener, rubber, coloured pencils and a large plastic bag to protect your map if the weather is inclement. A small number of compass clinometers will be available, but should you have one please bring it along. A lunch stop will be taken at the appropriately named Rock Inn. Bring a packed lunch or funds for food in the pub.

If the weather should turn out to be inclement mapping becomes very difficult if not impossible! In this event the trip will concentrate on the sedimentology of the Roaches Grit and will be shorter but may be extended to visit Lud's Church chasm for those prepared to walk a bit further.

There will be sheep and cattle in the area so please leave your dogs at home or keep them on a lead at all times.

To confirm that you would like to take part and to offer or request a lift, contact Maggie Williams Email: williams.maggiee@gmail.com or Telephone: 0151 678 1994

Saturday 12th May 2018

Thanks to an excellent response to an earlier plea for volunteers to help to celebrate GeoWeek 2018, members of Liverpool Geological Society (LGS) and staff from the Geology Department at the University of Liverpool will be offering members of the public a free urban geology fieldwork activity: ‘Rock Around William Brown Street, Liverpool’.

Members of the public interested in discovering some of the building stones in Liverpool – and understanding the stories told by the rocks, fossils and minerals seen in the buildings in William Brown Street, Liverpool are invited to turn up in William Brown Street between 12.00 noon and 4.00 p.m. on Saturday 12th May.

2018 is the pilot year for GeoWeek – a nationwide initiative which seeks to introduce as many members of the public to geoscience as possible, mainly through outdoor activities.

For further details of this activity and activities organised by other organisations in the UK to celebrate GeoWeek 2018 visit:

<http://www.bgs.ac.uk/geoweek/participate.html>