



**Circular 397
July 2012**

Registered Charity No: 503617

President: Brian Jones

www.emgs.org.uk

SUMMER FIELD PROGRAMME 2012

Sunday 2nd September – 10.15 am

**Day trip to the Lincolnshire Wolds
Leader: David Robinson OBE**

Sunday, 7th October (*Please note change of date*)

**Day trip to the Monsal Dale Area
Leader: Peter Gutteridge**

Insurance and Safety

Members are reminded that the Society has only public liability insurance and that personal accident insurance is a matter for individual members to arrange as they consider necessary. Up to date hard hats are obligatory for all field excursions involving quarries or cliff faces and strongly recommended for all trips. High visibility clothing is sometimes required in working quarries. High visibility tabards can be obtained from GA Enterprises, 126 Fleetside, W. Molesey, Surrey KT8 2NQ at £4.70 incl. pp. Members without suitable hard hats may be refused access to certain sites! Hard hats can be obtained from many Builders' Merchants, Wickes, B&Q Warehouse etc. for about £4.

Any non-members attending field excursions will have to pay a temporary membership fee of £2.00 and all participants are reminded that they must comply with any instructions from excursion leaders or, for example, quarry managers or their employees on Health & Safety issues.

Sunday, 2nd September – Day excursion to the Lincolnshire Wolds

Meeting Time: 10.15 am

Meeting Place: Horncastle Market Place

The day trip to the Wolds will take us to an area not only dominated by the Chalk but also of much interest from the Lower Cretaceous and uppermost Jurassic rocks of the inner escarpments in the river valleys within the Wolds. Additionally the influence of the Pleistocene glaciation and the geomorphological features that have resulted, together with post glacial features, will be revealed by our leader who has a lifetime of interest and study of the area.

Sunday, 7th October - Day trip to the Monsal Dale area

Meeting Time: 10.15 am

Meeting Place: Near Litton Mill (Please see details in second paragraph)

We will be looking at the initiation and sedimentation in an intrashelf basin within the Derbyshire carbonate platform. Thanks to the refurbishment of the tunnels along the Monsal Trail through Millers and Monsal Dale, we will be able to examine some new and cleaned up exposures along the former Buxton to Bakewell railway line. In particular, now that the Headstone Tunnel underneath Monsal Head is opened and the section immediately to the east of Monsal Head has been made safe and cleaned up, it will be possible to complete the story showing the transition from carbonate deposition during the Dinantian to clastic deposition during the Namurian.

Meeting place: meet at the car park some 250m to the west of Litton Mill at 10.15 am. Since car parking is limited here and we are doing a linear walk, it should be possible to organise parking at both ends of the trail so we can minimise transfer times along the trail. The walk will finish at Monsal Head. Please bring packed lunches as there is no pub or café along the way.

PLEASE COMPLETE THE ATTACHED BOOKING FORM FOR THE FIELD TRIPS AND RETURN TO IAN SUTTON

AUTUMN/WINTER 2012
LECTURE PROGRAMME

Saturday, 20th October 2012 – 6.00 pm

A Revised Lithostratigraphy for the Triassic Sherwood Sandstone Group of England and Scotland

Speaker: Keith Ambrose

Saturday, 17th November 2012 – 6.00 pm

The Piltdown Forgery – 100 years on

Speaker: David Bate

Saturday, 8th December 2012 – 6.00 pm

56 Years of Aircraft Flying into Ash

Speaker: Colin Small

Saturday, 19th January 2013 – 6.00 pm

Cultural and Historical Geographies of Onshore Oil Exploration in 20th Century Britain

Speaker: Andrew Naylor

Saturday, 9th February 2013 – 6.00 pm
(To be followed by the Society's Annual Dinner)

The Age of Tsunamis

Speaker: David Tappin

Saturday, 20th October 2012 – 6.00 pm

A Revised Lithostratigraphy for the Triassic Sherwood Sandstone Group of England and Scotland

The Sherwood Sandstone Group was formerly designated by Warrington *et al.* (1980) for the basal sandstones of mainly Triassic age in the British Isles. The group crops out in south west England then forms a near continuous outcrop northwards, splitting into two south of the Pennines and extending up the east and west coasts to Teeside and Cumbria. Outcrops occur in southern Scotland, north of the Solway Firth, and on the Isle of Arran. Equivalent occur in the East Irish Sea and North Sea basins.

The name replaced the long standing 3-fold division of Pebble Beds (later named the Bunter Pebble Beds by Bonney, 1900), Upper Mottled Sandstone and Lower Keuper Sandstone of Hull (1860). The original SSG included beds of questionable Permian age such as the Lenton Sandstone and Kinnerton Sandstone formations whilst other similar units, such as the Bridgnorth, Penrith and Collyhurst Sandstone formations were not included.

Over the years the SSG has had many local names applied to the constituent formations reflecting a number of factors. In recent years the desire of the British Geological Survey to produce seamless geological maps and 3D models has led to the need to critically review the lithostratigraphy of many groups of rocks. The Mercia Mudstone Group was the first of the Triassic successions to be covered and, more recently, the Sherwood Sandstone Group has been looked at for England, Wales and Scotland. This review focussed on the need to adequately describe lithological variability, provide a stable nomenclature and minimise confusion. Three options were considered: status quo, clean slate and compromise. The clean slate option has been chosen, with three formation names applied to the original names proposed by Hull (1860). Some established names have been retained as members. The review has also led to a redefinition of the Sherwood Sandstone Group, citing the incoming of the fluvial facies as the base of the group. Thus all underlying aeolian sandstones, variously labelled in the past as Permian or Triassic, are now no longer included in the Group.

Whilst the lack of fossil evidence in the Group and underlying formations is a constraint on correlation the use of geophysical logs, mainly gamma-ray and sonic velocity, has greatly assisted in the correlation of the group between the various basins.

Saturday, 17th November 2012 – 6.00 pm

The Piltdown Forgery – 100 years on

On 21st November 1912 the *Manchester Guardian* broke the news of a '*Remarkable discovery in Sussex – a skull millions of years old*'. The newspaper felt sufficiently confident to assert that '*There seems to be no doubt whatever of its genuineness, and more than a possibility of its being the oldest remnant of a human frame yet discovered on this planet*'. Thus was the tiny hamlet of Piltdown thrust rudely upon the world stage where it remains, if somewhat uncomfortably, to this day. In 1912 England would proudly claim to be the cradle of mankind: for the Piltdown Man, the *Earliest Englishman*, was clearly the missing link between man and ape. Yet from the outset there were detractors who considered this creature's ape-like jaw to be at odds with his relatively well-

developed cranial capacity, quite apart from his ability to fashion a cricket bat from the tusk of an elephant! Over the next forty years Piltdown Man became increasingly marginalised as finds of early man from Asia and Africa demonstrated that the evolution of the jaw, and thus the ability to vocalise, had preceded the development of the human intellect, rather than the other way round. Then, during 1953-55, the entire Piltdown assemblage was shown to be fraudulent. Piltdown Man found new fame as one of the world's greatest scientific forgeries, spawning a vast literature from experts and amateur sleuths in the quest to discover who it was, all those years ago, that made a monkey out of the scientific establishment.

Saturday, 8th December 2012 – 6.00 pm

56 Years of Aircraft Flying into Ash

Between 1953 and 2009 there have been 129 known encounters of aircraft with volcanic clouds. Of these, 94 events were confirmed as aircraft having encountered a volcanic cloud, with 79 reporting some degree of airframe and engine damage. 26 of these encounters were severe and caused significant engine and airframe damage, with 9 involving engine shutdown in flight. Since 1976 encounters are running at approximately 2 per year and are becoming more widely reported.

This talk will review the nature of volcanic ash clouds and why they are a hazard, and summarise the history of aircraft encounters with them. It will also look at why the encounters happen, typical effects on the aircraft, and the resulting effects on the travelling public, and will conclude by looking at what is being considered to help the airlines mitigate the effects and to keep aircraft flying.

Saturday, 19th January 2013 – 6.00 pm

Cultural and Historical Geographies of Onshore Oil Exploration in 20th Century Britain

(Details in next Circular)

Saturday, 9th February 2013 – 6.00 pm

The Age of Tsunamis

Do we live in the 'age of tsunamis'? With the Indian Ocean event of 2004 where 220,000 people died, the 2006 Samoa tsunami and the 2010 event in Chile, it certainly seems like it. The massively destructive tsunami that struck Japan in March last year is another such event. The impact was a surprise because usually natural disasters strike the third world and Japan is considered to be the best prepared country in the world to deal with these events. This talk presents on the different tsunami sources and then focuses on the 11th March 2011 Japan event.

The speaker has researched tsunamis for 14 years, beginning in 1998 with the devastating event in Papua New Guinea that killed 2,200 people. Since then he has worked on numerous tsunamis, including that of the 2004 Indian Ocean. He has visited Japan three times since 11th March studying the tsunami impact.

LECTURE VENUE

Indoor meetings will take place in lecture theatre B3 of the Biology building at the University of Nottingham. If you require to use the lift to B3, please speak to the security attendant who will assist you. B3 is equipped with induction loop hearing assistance. If you are attending meetings or joining a coach at the University of Nottingham, enter from the South Entrance on University Boulevard. Cars should be parked in the car park on the bend in the road just beyond the security

point after Science Road. The entrance to the Biology building is at the right hand side of the rear of this car park.

EMGS Council

With apologies for the incomplete information being given in the last Circular, listed below are the members elected to serve on Council for the coming year:

President - Brian Jones
Vice-President - Tim Colman
Secretary - Janet Slatter
Treasurer - Colin Bagshaw
Editor - Tony Waltham

Other members of Council are: Richard Hamblin (Indoor Meetings Secretary), Sue Miles (Newsletter Editor), Ian Sutton (Outdoor Meetings Secretary), Keith Ambrose, Vanessa Banks, David Bate, Albert Benghiat, Sue Cotton, Gerry Shaw, Geoff Warrington and Rob Townsend (Webmaster).

SUBSCRIPTION RATES FOR 2012

Please note the subscription rates are now as follows:

Ordinary member - £18.00

Joint member - £22.00

If you have not yet done so, please let the Treasurer have your subscription as soon as possible. If you pay by standing order please can you check the amount which was paid from your account as a number of payments at the old rate have been received. If your subscription is one of those, please can you let the Treasurer have a cheque for the difference and ensure your standing order instruction is amended for next year.

Other Events

Nottingham Geotours - Programme for 2012

Geology of Angus and Fife

23rd - 28th September 2012

Further information from Ian Sutton on 0115 923 2360 or ian.sutton035@btinternet.com

New Members

Mr Richard Parkinson, Ticknall, Derbyshire
Mrs Louise Ringer, Woodborough, Nottingham

Information for Other Societies

We hold information of lectures and field meetings for other local societies such as the NSSGA, Black Country Geological Society and Leicester Lit & Phil Society. If you would like details of any of these, please contact the Secretary.

Society Publications

- (1) **Leicester Building Stones Guide;**
- (2) **East Midlands Field Guide;**
- (3) **Sandstone Caves of Nottingham** (new full colour edition)

Copies available by contacting the Secretary or at Indoor Meetings.

EMGS Website

The publications page on the Society website (www.emgs.org.uk) has been tidied up and updated. It now includes links to two archives:

One is the archive of the early Mercian Geologists where scanned copies of complete issues are being diligently prepared thanks to the hard work of David Bate. This is still being added to (with successive volumes) and will eventually reach volume 12 for 1991.

The other is the archive of papers and reports in the more recent issues. These will go onto the webpage two years after they appear in the paper issues of the Mercian. Currently only the 2009 material is online, but files will be extracted and posted, working backwards as far as 1992, and this takes time. Files for 2010 onwards are already prepared and will go online on their second birthday.

Marketing the Society's Publications

We are still in need of a volunteer to promote the marketing of the Society's publications such as the East Midlands Field Guide, Leicester Building Stones Guide and the Sandstone Caves of Nottingham books. If you have any expertise in this field, or even if you haven't but would like to volunteer to help, please contact the secretary or any other member of Council.

The National Stone Centre

Are looking for volunteers for guiding and other activities on the site at Wirksworth. If you can help, please contact Ian Thomas on 01629 824833 or ian@nationalstonecentre.org.uk

e-mail addresses

To minimise postal costs and photocopying charges which amount to approximately £4.00 each year for every member who still receives their Circular by post, we would very much like to send you your Circular by e-mail. If you have not already done so, please send your e-mail address to the Circular Editor, sue.miles@freethcartwright.co.uk.

Please can you also confirm your name and address when sending your e-mail so we can correlate these details with our membership listing.

The next Circular will be published in September 2012.

The next Council Meeting will be held on 13th September 2012.

Secretary: Mrs Janet Slatter, 100 Main Street, Long Whatton, Loughborough, Leicestershire LE12 5DG e-mail: janet.slatter@btinternet.com . tel. no. 01509 843297.

Treasurer: Mr Colin Bagshaw, 150 Scalpcliffe Road, Burton-on-Trent, Staffordshire DE15 9AD, e-mail: Colin.bagshaw@yahoo.co.uk tel. no. 01283 564520

