



Bulletin of the North Staffordshire Group of the Geologists' Association Number 105 : April 2013



SUMMER FIELD PROGRAMME 2013

Diary Dates:

Saturday 13 April 2013

Headstone Cutting and the Monsal Trail

Note the booking date for this trip is now passed. Attendance may still be possible if you contact field trip leader directly.

Thursday 23 May 2013

Woore Moraine Evening Field Trip

Booking form at the end of this bulletin: Deadline May 9

Weekend 21-23 June 2013

Pembrokeshire

Note the booking date for this trip is now passed. Attendance may still be possible but accommodation must now be booked independently

Tuesday 23 July 2013

British Geological Survey, Keyworth

Booking form at the end of this bulletin : Deadline July 17

Sunday 8th September 2013

Bradgate Park, Charnwood Forest.

Booking form in the next bulletin (July).

Each person attending field meetings does so at their own risk. The NSGGA has public liability insurance through a GA insurance policy that also carries limited personal accident cover for members attending meetings or field trips. Non-members pay £2 to cover temporary membership giving them insurance cover. A field fee of £2 per head is normally charged for members and non-members to cover the leader's expenses.

The NSGGA are delighted to welcome back Steve Alcock as their field secretary whose last tour of duty ended in 2001.

Enquiries regarding field trips should be addressed to:

Steve Alcock

Longfields, Park Lane, Cheddleton, Leek, Staffs, ST13 7JS

Tel: 01538 360431 or 07711 501028

Email: steves261@aol.com

Headstone Cutting & The Monsal Trail

Saturday 13 April 2013

Leader: Eileen Fraser

Meet at Monsal Head Hotel, DE45 1NC at 10:00 a.m.

OS Map 119 or OL24: Grid Ref SK 185 715

(park near the top of minor road opposite the hotel – Little Longstone road).



View from Monsal Head. Image: Eileen Fraser

The re-opening of the tunnels along the route of the old London-Midland railway has revealed some interesting geology especially at Headstone cutting. Known as the Monsal Trail, this well paved route travels high above the Wye valley through the heart of the Peak District from just outside Buxton to Bakewell. On this fieldtrip we will cross the fields on a good level footpath from Little Longstone (just to the east of Monsal Head), to reach the Trail just north of Hassop Station. From there we will walk west along the Trail examining the successions within the Carboniferous and the Headstone Cutting. The Trail passes through this rail tunnel which has a wide, paved surface and is well lit. We will then walk a short way along the trail beyond the tunnel. If weather permits we then hope to look at the fossils at Hobb's House landslip and return to Monsal Head at about 4 p.m. Those who do not wish to continue to Hobb's House can retrace their way across the fields to the cars (about 3 miles in total).

The booking deadline for this field trip has now passed but late availability may still be possible, please contact the leader Eileen Fraser at fraser@fraserco.co.uk or on 01260 271505 or 07712 446417

Woore Moraine Evening Field Trip
Thursday 23 May 2013 at 5.30 p.m.
Leader: Richard Waller

Meet at Dorrington Hall Farm at 5.30 p.m. Grid Ref: SJ 723411 (1:50000 OS Map 118)

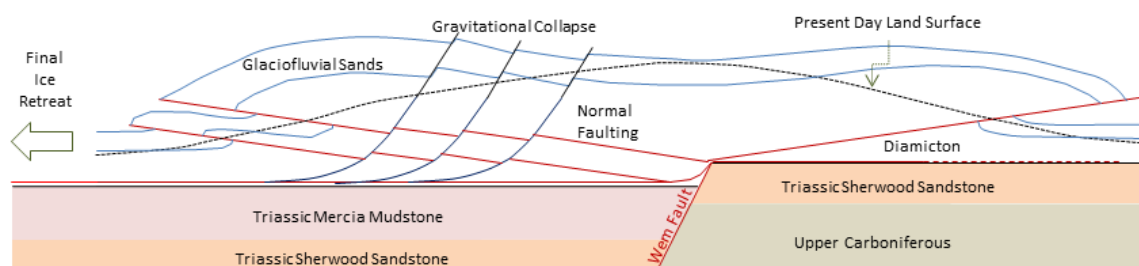
The Woore Moraine is the eastern part of a large moraine complex that crosses the Cheshire Plain from Wrexham to Bar Hill. This evening trip will examine some of the glacial landforms associated with the moraine and discuss the moraine's origin in the context of the British & Irish Ice Sheet.



During the late Devensian large areas of both the British Isles and Ireland were covered by the confluent British-Irish ice-sheet. The major landform resulting from the presence of a lobe of ice within the Cheshire Basin is the Bar Hill-Whitchurch-Wrexham (BHWW) Moraine Complex. The moraine complex stretches from the Pennine Margins westwards as a discontinuous double-arcuate loop to the Welsh Borders, the centre impinging up on the mid-Cheshire ridge. The BHWW moraine is a nationally significant landform and it is one of the largest moraines within the UK and Ireland. However, the BHWW moraine has received little attention and its origin, age and glaciological significance remained unclear until recent work near Woore by Drs Waller, Parkes & Stimpson at Keele University.

The session will start with a short presentation that will showcase the broader context of the moraine and some of the geophysical investigations undertaken by staff at Keele. The excursion itself will involve a short walk of roughly 2 miles across undulating farmland.

Booking form at the end of the bulletin. Deadline: May 9, 2013



Schematic NW-SE model for the Woore Moraine (not to scale) from Parkes *et al.* 2009

Pembrokeshire Weekend 21-23 June 2013

Leader: Ian Stimpson

The NSGGA weekend field trip for 2013 is the weekend of Friday 21 – Sunday 23 June, 2013. The weekend will start a lecture on the Friday evening in the field trip hotel, the Silverdale Inn, Johnston on the geological evolution of Pembrokeshire. On Saturday we will visit the spectacular Marloes Sands examining the Silurian volcanics and sediments and Sunday morning will be spent on the beach at Broad Haven looking at the Upper Carboniferous sediments and the intense Variscan deformation.

Bookings have now closed for this field weekend but if you arrange your own accommodation you are still welcome to come and join us. Please contact the field secretary if you are interested.



Three Chimneys, Marloes Sands & Den's Door, Broadhaven. Photos Ian Stimpson

British Geological Survey, Keyworth**Tuesday 23 July at 14:00****Leader: David Bailey****Meet at BGS Reception at 2.00 p.m.**

Grid Ref SK622317 Landranger Sheet 129.

Directions: Follow the A 52 eastwards on the south side of Nottingham. At the A 606 roundabout turn right, signposted Melton Mowbray. After 4 km there is a dedicated right turn, signed BGS. As you enter the village BGS is on your left. Go past the back gate, turn left, then left. Stop at the barrier, turn left for the car park. Reception is on the right.



Image: BGS

See the following web pages for more info on visiting the walk or travelling to BGS:

<http://www.bgs.ac.uk/contacts/sites/keyworth/geologicalWalk/home.html>

An afternoon visit to the BGS Headquarters at Keyworth. A guided tour of their facilities should last for an hour or so followed by the opportunity to browse the new geology walk at your leisure (leaflet provided). Visit the Tesco-esque Rock Store (mind the fork-lift trucks), view type specimens, maps, field notebooks and other treasures, and see how virtual specimens are created for on-line use [Holo-types??]. The shop will be open till 5.

Please complete and the booking form at the end of the bulletin before July 17 at the latest since the BGS require a list of visitors' names in advance.

Bradgate Park, Charnwood Forest.**Sunday 8th September 2013 at 11:30 a.m.****Leader: Dr Keith Ambrose**

A joint field trip with the Stamford Geological Society. Leader: Dr Keith Ambrose.

Meet at 11.30 at the Hunts Hill car park [SK523116], the one nearest the Old John Tower. This is near the bottom edge of OS Landranger sheet 129

Expect to see Precambrian/Cambrian rocks: Bradgate Formation at Old John Tower, the Sliding Stones Slump Breccia, South Charnwood Diorite (originally known as Markfieldite), Stable Pit Quartzite, Triassic Mercia Mudstone Group, and Swithland Slate.

About 7km walking with a few steep stretches. Keith will bring copies of BGS booklets for sale.

The booking form will appear in the next issue.

Other Societies

Black Country Geological Society

Indoor meetings are held at Dudley Museum & Art Gallery, St James's Road, Dudley

Monday 29 April @ 20:00

The Oxford University Museum of Natural History -
Prof. Paul Smith

More details at www.bcgs.info

East Midlands Geological Society

Indoor meetings are held at lecture theatre B3, Biology building at the University of Nottingham

Saturday 13 April @ 18:00

The problems of Chirotherium and the Triassic Environment – Geoff Tresise (Honorary Curator Geology of the National Museums Liverpool)

Sunday 19 May (Field)

The Roaches - Albert Benghiat

Wednesday 19 June (Field)

The Geology Walk at BGS – David Bate

Wednesday 3 July (Field)

Ticknall – Keith Ambrose

More details at www.emgs.org.uk

East Midlands Regional Group of the Geological Society

Indoor meetings are held at BGS, Keyworth

Tuesday 30 April @ 19:00

3D Fossils – Dr Mike Howe (BGS)

More details at [www.geolsoc.org.uk/en/Groups and Networks/Regional Groups/East Midlands](http://www.geolsoc.org.uk/en/Groups%20and%20Networks/Regional%20Groups/East%20Midlands)

Liverpool Geological Society

Indoor meetings are held at James Parsons Building, Liverpool JMU, Byrom Street, Liverpool, L3 3AF

Saturday 20 April (Field)

Silverdale (Trowbarrow Quarry and Gaitbarrow Nature Reserve)- Joe Crossley and Hazel Clark
Dudley Canal, Dudley Museum & Wren's Nest -
Graham Worton (Dudley Museum).

Saturday 11 May (Field)

Weekend 17-19 May (Field)

Anglesey - Jonathan Wilkins (Secretary North Wales Geological Association).

More details at liverpoolgeologicalsociety.org.uk

Manchester Geological Association

Indoor meetings are held at the Williamson Building, University of Manchester

Saturday 18 May (Field)

The Namurian of Dinckley Gorge (River Ribble, near Ribchester) and the Quaternary of Brockholes - Jennifer Rhodes

Sunday 16 June (Field)

Limestones of the southern margin of the Derbyshire Platform - Dr Cathy Hollis (University of Manchester)

Sunday 7 July (Field)

Lymm Dam and Helsby Hill Quarry - Fred Owen

More Details at www.mangeolassoc.org.uk

North West Regional Group of the Geological Society

Indoor meeting held at Williamson Lecture Theatre, Manchester University, Oxford Road, Manchester

Thursday 18 April

Evaporites and Dissolution – David Wilshaw

More details at [www.geolsoc.org.uk/en/Groups and Networks/Regional Groups/North West](http://www.geolsoc.org.uk/en/Groups%20and%20Networks/Regional%20Groups/North%20West)

Shropshire Geological Society

Indoor meetings are held at The Shire Hall, Shrewsbury

Saturday 6 July (Field)

Grinshill - Mike Rosenbaum and Tony Thorp

More details at www.shropshiregeology.org.uk/SGS/SGSintro.html

Warwickshire Geological Conservation Group

Indoor meetings are held at The Lammas Room, Hill Close Gardens, Bread and Meat Close

Warwick, CV34 6HF

Wednesday 17 April @ 19:00

The syenite intrusion of Ben Loyal - Thomas Barrett, a Birmingham MSci student and first holder of the WGCG Holloway Bursary

More details at www.wgcg.co.uk

West Midlands Regional Group of the Geological Society

Tuesday 14 May

A Thermogeological Journey: 150 years on from Kelvin, 100 years on from Zoelly and 50 years from Sumner - David Banks – Holymoore Consultancy Ltd at University of Wolverhampton

More details at [www.geolsoc.org.uk/en/Groups and Networks/Regional Groups/West Midlands](http://www.geolsoc.org.uk/en/Groups%20and%20Networks/Regional%20Groups/West%20Midlands)

Western Institute of Mining and Minerals

Indoor meetings are held at the William Smith Building, Keele University

Monday 22 April @ 19:00

Coal Mining in the Waterberg Region, South Africa - Marco Maestri (Parsons Brinckerhoff)

More details at www.iom3.org/wimm

NSGGA - Next Committee Meeting:**Thursday 11 April @ 19:00**

In room WS1.44, the William Smith Building, Keele University

Contacts List: NSGGA Committee 2013-14**Chairman: Dr Patrick Cossey**

22 Heath End Road, Alsager, Cheshire, ST7 2SQ. Tel. 01270 872002

e-mail: patrick.cossey@yahoo.com**Vice-Chairman: David Osborn**

Stretton, 2 Croyde Place, Meir Park, Stoke-on-Trent, ST3 7XD. Tel 01782 396692

email: david.d.osborn@talktalk.net**General Secretary: Eileen Fraser,**

47 Longdown Road, Congleton, Cheshire CW12 4QH Tel. 01260 271505

email: fraser@fraserco.co.uk**Treasurer: Brenda Kay,**

9 Copthorne Drive, Audlem, Crewe, Cheshire, CW3 0EQ Tel. 01270 811650

email: r.peter.k@gmail.com**Membership Sec.: Gerald Ford,**

Woodville, Tower Road, Ashley Heath, Market Drayton, Shropshire TF9 4PU Tel.

01630 673409 e-mail: gford@btinternet.com**Speakers Sec.: Diane Lawrence,**

9 Brickfield Close, Hixon, Stafford, ST18 0NY Tel. 01889 207195

e-mail: diane.lawrence1@gmail.com**Field Sec.: Steve Alcock**

Longfields, Park Lane, Cheddleton, near Leek ST13 7J

Tel. 01538 360431 or mobile 07711 501028

e-mail: steves261@aol.com**GeoConservation Staffordshire Liaison Officer: Dr Ian Stimpson,**

Geography, Geology & the Environment, Keele University Tel. 01782 733182

e-mail: i.g.stimpson@keele.ac.uk**Bulletin Sec.: Dr Ian Stimpson,**

Geography, Geology & the Environment, Keele University Tel. 01782 733182

e-mail: i.g.stimpson@keele.ac.uk**Executive Committee** (honorary):

Dr. Colin Exley; Terry Jones; David Thompson; Ted Watkin.

Honorary Life Member: Ann Myatt**Executive Committee** (elected):

Dr Lloyd Boardman; Dr Stuart Egan; Janet Osborn (Minutes Secretary); Vicky Tunstall (John Myers Awards);

Executive Committee (co-opted):

Don Steward, John Reynolds; Sophia Hunt (Keele GeoSoc).

NSGGA web pages: www.esci.keele.ac.uk/nsgga

NSGGA Fieldtrip to British Geological Survey Booking Form

Tuesday July 23, 2013 at 2 p.m.

Leader: Dr David Bailey

Meet at BGS Reception at 2.00 p.m. Grid Ref SK622317 Landranger Sheet 129.
Directions: Follow the A 52 eastwards on the south side of Nottingham. At the A 606 roundabout turn right, signposted Melton Mowbray. After 4 km there is a dedicated right turn, signed BGS. As you enter the village BGS is on your left. Go past the back gate!!. Turn left, then left. Stop at the barrier, turn left for the car park. Reception is on the right.

See the following web pages for more info on visiting the walk or travelling to BGS:
<http://www.bgs.ac.uk/contacts/sites/keyworth/geologicalWalk/home.html>

Meeting overview: An afternoon visit to the BGS Headquarters at Keyworth. A guided tour of their facilities should last for an hour or so followed by the opportunity to browse the new geology walk at your leisure (leaflet provided). Visit the Tesco-esque Rock Store (mind the fork-lift trucks), view type specimens, maps, field notebooks and other treasures, and see how virtual specimens are created for on-line use [Holo-types??]. The shop will be open till 5.

Please complete and return by July 17 at the latest as the BGS require names to: -

John Reynolds (excursion co-ordinator) jr.reynolds1@virginmedia.com
Or post to John Reynolds, 18 Gardiner Drive, Longton, Stoke-on-Trent. ST3 2RQ
Any queries please contact by e-mail or on 01782 327068

I would like to attend the field trip to the BGS on Tuesday 23 July 2013

Name(s): _____

Home Telephone: _____

Mobile Telephone: _____

Address: _____

Email address: _____

Name and details of person to be contacted in case of emergency during the trip:

Name: _____

Contact Number: _____

NSGGA Fieldtrip to the Woore Moraine Booking Form

Thursday 23 May 2013 5.30 p.m.

Leader: Dr Richard Waller

Meet at Dorrington Hall Farm at 5.30 p.m. Grid Ref: SJ 723411 (1:50000 OS Map 118)

Meeting overview: The Woore Moraine is the eastern part of a large moraine complex that crosses the Cheshire Plain from Wrexham to Bar Hill. This evening trip will explore the glacial geomorphology of what is one of the country's largest relict glacial landforms and discuss the moraine's origin in the context of the British & Irish Ice Sheet and the geology of the local area. The session will start with a short presentation that will showcase the broader context of the moraine and some of the geophysical investigations undertaken by staff at Keele. The excursion itself will involve a short walk of roughly 2 miles across undulating farmland.

Please return the booking form to:

Steve Alcock (our new Field Secretary) as soon as possible, either by e-mail (steves261@aol.com), or by post to Steve Alcock at Longfields, Park Lane, Cheddleton, Leek ST13 7JS. Any queries please contact Steve by e-mail or on 01538 360431 or 07711 501028.

Please return the form by **May 9, 2013 at the latest.**

I would like to attend the field trip to the Woore Moraine on Thursday 23 May 2013

Name(s): _____

Home Telephone: _____

Mobile Telephone: _____

Address: _____

Email address: _____

Name and details of person to be contacted in case of emergency during the trip:

Name: _____

Contact number(s): _____

Remember to renew your NSGGA membership for 2013

NSGGA Membership Form 2013



Fossils, Rocks & Minerals
Summer Field-Trips
Winter Talks
Site Conservation
Regular Newsletters

Name.....

Address.....

.....

.....

Postcode..... **Telephone**.....

e-mail address

Would you be willing to receive your Bulletins by e-mail yes no

- | | | |
|--------------------|--------|--------------------------|
| Ordinary (Full) | £13.00 | <input type="checkbox"/> |
| Family * | £15.00 | <input type="checkbox"/> |
| Retired/Unemployed | £10.00 | <input type="checkbox"/> |
| Student ** | £ 3.00 | <input type="checkbox"/> |

John Myers Award Fund*** contribution of £.....

** For insurance purposes, please list the names of all members of the household to be included:*

*** Students please name your **full-time** course:*

Cheques should be made payable to the: "**NSGGA**" and sent to:
Gerald Ford, NSGGA Membership Secretary,
Woodville, Tower Road, Ashley Heath, Market Drayton, Shropshire TF9 4PU
Telephone 01630-673409 **e-mail** gford@btinternet.com

For our records, are you currently a member of the national GA ? yes no

*** Two John Myers Awards (together with runners up) are presented annually to students at Keele University who produce the best piece of coursework in the view of the independent NSGGA awards committee.