



## In this issue.....

**Forthcoming Museum Events Pg.1-2**

**Forthcoming Friends' Events Pg.2-4**

**Forthcoming Cambridgeshire Geology Club Events Pg.4**

**Olympics 2012 in the Museum Pg.5**

**Welcome to Rosie Amos Pg.6**

**Cambridgeshire Landscapes Pg.6**

**Summer 2012 Student Placements Pg.7**

**Summer 2012 Friend's Day Excursions Pg.7**

**Summer 2012 Friend's Field Weekend, Berwick Pg.8**

**Friends' Event Registration Form Pg.9-10**



**IMPRINTS OF NATURE**  
**Thursday 25<sup>th</sup> October 2012**  
**10:30 - 12:30 and 14:00 - 16:00**

Using the fossil collections of the Sedgwick Museum of Earth Sciences as a source of inspiration, join local artist-printmaker Susie Turner to learn how to transform simple drawings of fossilised animals, fish or plant life into colourful original fine art prints using the techniques of Drypoint and Chine Collé.

Suitable for beginners and for those with some experience of printmaking or drawing. Please wear comfortable clothes and bring an apron. All materials will be provided!

Adults Workshop

Arrive on time

Maximum number of participants per workshop – 6. Cost: £5 per person

**Must be booked through Sedgwick Museum** [museumeducation@esc.cam.ac.uk](mailto:museumeducation@esc.cam.ac.uk)

Tel: 01223 333456.



**DROP IN AND DRAW(ER)**  
**Wednesday 31<sup>st</sup> October 2012**  
**10:30 - 12:30**  
**&**  
**Friday 2<sup>nd</sup> November 2012**  
**10:30 - 12:30**

The amazing fossil collections of the Sedgwick Museum fill more than 2000 drawers as well as display cases. Draw your own drawer full of fossils to create your dream collection, and make the most of a chance to find out what's in some of the museum drawers, and why they are usually locked.

Families Age 6 + Children must be accompanied by a parent or carer

Hands-on. Drop in

Free, No need to book!

**The Sedgwick Museum of Earth Sciences, Downing Street, Cambridge CB2 3EQ**

**Opening hours:** Monday – Friday 10 am – 1 pm and 2 pm – 5 pm Saturday 10 am – 4 pm

**Telephone:** (01223) 333456

**Fax:** (01223) 333450

**Email:** [sedgwickmuseum@esc.cam.ac.uk](mailto:sedgwickmuseum@esc.cam.ac.uk)

**Website:** [www.sedgwickmuseum.org](http://www.sedgwickmuseum.org)

**Friends of the Sedgwick Museum Website:** [www.friendsofsedgwickmuseum.com](http://www.friendsofsedgwickmuseum.com)

## THE BIG DRAW



The Campaign for Drawing

## FORTHCOMING MUSEUM EVENTS

**BIG DRAW ON TOUR: Thursday 1<sup>st</sup> November: 10am – 12pm**  
Drop in for drawing games, exploring games and much, much more.  
Families all ages, Children must be accompanied by a parent or carer  
Hands-on. Drop in.  
Free!

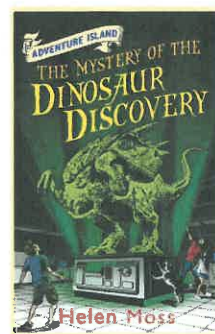
### **DASTARDLY DEEDS, SHADY SHENANIGANS AND THE OVERACTIVE IMAGINATION: Friday 2<sup>nd</sup> November: 3pm- 4pm**

Now working on the fourteenth book in her *Adventure Island* series, writer Helen Moss has plotted more than her fair share of dastardly deeds and shady shenanigans. Helen will talk about harnessing an Overactive Imagination; catching the ideas that lurk everywhere and weaving them into stories, from Boer War gold, Hindu legends, Cambridge spies and Cornish smugglers to rock stars, memory loss, haunted houses and especially dinosaur fossils.

Talk suitable for AGES 7+ families, children must be accompanied by a parent or carer. Booking required. Please book through Festival of Ideas website.

<http://www.cam.ac.uk/festivalofideas/>

Arrive on time. Free!



## FRIENDS' FORTHCOMING EVENTS

### **OCTOBER – DECEMBER 2012**

#### **TALKS BY A WELL-KNOWN INTERNATIONAL SPEAKER:**

**Dr. Vic. R. Baker (University of Arizona)**

**Tuesday, 9<sup>th</sup> October, 2012**

- 1) **12.00-12.45** in Department of Earth Sciences, "Megafloods on Earth, Mars and Beyond"
- 2) **4.30pm-5.30 pm** in Department of Earth Sciences, "Geological history of water on an Earth-like Planet". This will be followed by a reception for Department members and Friends

#### **TALK ON "FROM CLIMATE CHANGE TO LIFE ON MARS: WHAT HAVE MAGNETIC MINERALS EVER DONE FOR US?: Tuesday, 16th October, 6.15 for 7.00 pm start**

Dr Richard Harrison (University of Cambridge)

#### **TALK ON "CLIMATE CHANGE BY CREEPS AND JERKS" Tuesday, 6<sup>th</sup> November, 6.15 for 7.00 pm start**

Dr. Luke Skinner (University of Cambridge)

#### **SATURDAY 10TH NOVEMBER, GEOLOGIST'S ASSOCIATION**

**"FESTIVAL OF GEOLOGY 2012"** Talks and exhibitions all day, at University College, London, [www.geologistsassociation.org.uk](http://www.geologistsassociation.org.uk)

**FRIENDS' CHRISTMAS PARTY WITH STUDENT TALKS: Tuesday, 4<sup>th</sup> Dec, 6-8 pm,**  
Varied buffet supper provided by Sue and Ken Rolfe and Margaret Sanderson, with a background of good stories. Friends' raffle (please bring contributions). Please use a copy of our Booking Form (attached and on web-site) to register ([s\\_carol\\_f@yahoo.co.uk](mailto:s_carol_f@yahoo.co.uk) or by post to Carol Franklin, 273 Welbrook Way, Girton, Cambridge, CB3 0GL Tel: 01223-277356) to help us get our catering numbers right. Please send us a cheque for £7 per head when registering, or let us have £9 per head at the door, if you cannot register ahead.

Friends of the



Sedgwick Museum  
of Earth Sciences

## **JANUARY – MARCH 2013**

### **EXPERIMENTAL GEOLOGY PRACTICAL SESSION (HANDS-ON GEOLOGY).**

**"FOLDS": Tuesday, 29th Jan, 6.15 –for 7 pm start** Dr Mike Tuke has kindly agreed to present another of his popular classes, with the numbers limited to twenty. Please telephone Mike on 01480-457068 by 22 January

## **FRIENDS' FORTHCOMING EVENTS**

### **TALK ON "EXPLORING THE LATE PRE-CAMBRIAN CRADLE OF ANIMAL EVOLUTION"**

**Tuesday, 5<sup>th</sup> February. 6.15 for 7 pm start**

Dr. Alex Liu, (University of Cambridge)

The speaker will also be leading our visit to Charnwood Forest planned for Saturday 4<sup>th</sup> May

### **TALK ON "STUDENT FIELD TEACHING ON THE REEFS AND LIMESTONES OF TEXAS"**

**Tuesday 26<sup>th</sup> February, 6.15 for 7.00 pm start**

Dr Tony Dickson (University of Cambridge). Spectacular reef landscapes in a classic area for understanding how limestones form.

### **DEMONSTRATION-TALK "APPING THE ANTE IN GEOLOGICAL EDUCATION"**

**Tuesday 5<sup>th</sup> March, 6.15 for 7.00pm start**

Dr. Douglas Palmer will demonstrate the way that a new Apple Application has brought to life many aspects of his Mitchell Beazley book. "Evolution" on geological aspects of the evidence for evolution.

### **ADAM SEDGWICK ANNIVERSARY DINNER**

**Wednesday 13th March, 7.00 for 7.30 pm, Queens' College.**

We are delighted to announce that Professor Iain Stewart (University of Plymouth), the very successful TV presenter on geological topics, has agreed to be our after-dinner speaker.

### **TALK ON "TAMING THE RIVER NILE TO ESTABLISH A HAREM PALACE"**

**Tuesday, 19<sup>th</sup> March, 6.15 for 7.00 pm**

Dr Judith Bunbury (University of Cambridge). Judith's work on the history of the River Nile has revolutionised understanding of aspects of the evolution of Ancient Egyptian cultures.

## **APRIL - SEPTEMBER 2013**

**Arrangements for booking for visits, and other details for the events below will be covered in the next Newsletter (no 26).**

### **VISIT TO CHARNWOOD FOREST**

**Saturday 4<sup>th</sup> May 2013**

Led by Dr. Alex Liu (University of Cambridge), our speaker on 5<sup>th</sup> February 2012. The only exposures of Pre-Cambrian rocks in Midland and Eastern England will be visited with particular emphasis on new work on the late-Pre-Cambrian fossils (the subject of the talk on 5 February).

### **LANDSCAPE TOUR OF CAMBRIDGE'S WESTERN HIGHLANDS PLATEAU AND THE UPPER CAM (RHEE) VALLEY. 25<sup>th</sup> May 2013.**

Led by Peter Friend. The same touring approach that was used for Marston Vale (Bedford) in 2012 will be used to explain the history of these distinctive local topographic features.

## **FRIENDS' FORTHCOMING EVENTS**

Friends of the



Sedgwick Museum  
of Earth Sciences

### **VISIT TO THE ISLAND OF SANTORINI (GREECE)**

One week, Tuesday 4 June – Tuesday 11<sup>th</sup> June. Flying from Gatwick direct to Santorini. Payment for flights required now, made out to "Volcanic Experiences". All arrangements through Dr Mike Tuke (01480-457068). All 25 places are currently taken, but Mike can add further names to his waiting list.

### **FRIENDS REVIEW EVENING AND ANNUAL GENERAL MEETING**

**Tuesday 25<sup>th</sup> June, 6 pm-7.30 pm**

Local Friends, please try to attend this important occasion when Friends and Museum staff review Friends' activities over the past year.

### **WEEKEND VISIT TO THE WELSH BORDERS**

**PROVISIONALLY: Tuesday-Thursday, 17-19<sup>th</sup> September 2013.**

Jean Currie is planning the details of this. We hope to focus on geological sites in Hereford and Worcester which are currently being managed under the very successful local community-led Champions scheme.



## **CAMBRIDGESHIRE GEOLOGY CLUB FORTHCOMING EVENTS**

Cambridgeshire Geology Club meets at the Friends Meeting House, 91-93 Hartington Grove, Cambridge CB1 7UB. Talks start at 7.30 pm, and doors open at 7.00 pm Non members are asked to donate £2.00 per meeting.

### **THE IMPACT OF GEOLOGY AND CLIMATE CHANGE ON 2 MILLENIA OF ENGLISH VITICULTURE Monday 8<sup>th</sup> October 2012**

Professor Ruchard Selley (Imperial College, London)

### **PLATES VERSUS PLUMES: A GEOLOGICAL CONTROVERSY Monday 12<sup>th</sup> November 2012**

Professor Gilliam Foulger (Durham University)

### **GOLDEN SPIKES: GSSPS AND GSSAS : WHAT ARE THEY AND HOW DO THEY WORK? Monday 10<sup>th</sup> December 2012**

Dr Alan Smith (University of Cambridge)

### **GEOCHEMISTRY ON THE ROAD TO MANDALAY AND HOW THE HIMALAYAN RIVERS INFLUENCE CLIMATE CONTROL.**

**Monday 14<sup>th</sup> January 2013**

Dr Hazel Chapman (University of Cambridge)

### **THE DISAPPEARING ICE IN THE ARCTIC OCEAN Monday 11<sup>th</sup> February 2013**

Professor Peter Wadhams (University of Cambridge)

### **Details of the later meetings will be in the next Newsletter (no 26) Title to be announced Monday 11<sup>th</sup> March 2013**

Dr. Laura Porro (University of Chicago)

The following meetings, held on the second Monday of each month, will be on 8<sup>th</sup> April, 13<sup>th</sup> May, 10<sup>th</sup> June, 8<sup>th</sup> July.

One day seminar on Saturday 7<sup>th</sup> September 2013 in Department of Zoology.

## EXHIBITION NEWS SUMMER 2012

### Rob Theodore, Collections Assistant



We have been very lucky to have been involved in the amazing Olympic and Paralympic games held in London this year. Working with Cambridgeshire Competes, a local partnership of museums and sports centres, the Sedgwick Museum put on a small display with a unique angle on the games, using our mineralogical collection to focus on some of the materials used in the sports.

On display we had the metal ores used to manufacture iron, titanium and aluminium, and examples of hydrocarbons used to create plastics and carbon fibre. We displayed the metals used to make the medals, including pieces of gold and silver, and we

revealed some surprising facts about their composition. Also on display were some of the pieces of equipment used in the games, such as a discus, a shot put and a tennis racquet. We touched on how the museum's fossil collections link with the town of Wenlock in Shropshire, birthplace of the modern Olympic Games, with examples of fossils from the Silurian Wenlock Limestone and a new piece of artwork by Palaeoartist Bob Nicholls. Lastly, banners and photographs of Cambridgeshire Olympic and Paralympic athletes that were supplied by Cambridgeshire Competes were placed around the museum.

To complement the display we ran a successful hands-on introduction to minerals, with visitors learning about different minerals in everyday life, and tied into the Olympic theme. Visitors designed their own medals using the coloured streaks from various minerals, and also posed doing various sports whilst being silhouetted in gold or silver paper.

We were also delighted to have had the special honour of hosting England's Paralympic flame on its journey to Stoke Mandeville to be united with flames from Wales, Scotland and Northern Ireland, before the combined flame was



taken to London for the start of the Paralympic Games. Contained in a miner's lantern, it was brought to the Sedgwick by former paralympic record-breaking cyclist Dan Gordon. Visitors were invited to have their photo taken with the lantern, and also with an Olympic torch, in the museum's building stones gallery, which is usually closed to the public. The building stones come from over 60 countries taking part in the Olympics, which we highlighted with their flags.



The museum is still working hard to set up an exhibition space for the promotion of the research work taking place in the University's Department

of Earth Sciences. The first exhibition will be based on research being carried out by Dr Tom Harvey on 500 million year old microfossils from Canada. These shed new light on the 'Cambrian Explosion' of ancient life.

**Rob Theodore.** Collections Assistant



**“Working in a museum is such an honour; you are the public face of the researchers and the Department as a whole.”**

## **NEW MEMBER OF STAFF**

### **Rosie Amos**

In July, The Sedgwick Museum welcomed Rosie Amos as its new Museum Education Assistant to support the existing Education Officer, Annette Shelford.

Trained in Environmental Sciences and English Literature, Rosie has spent the last seven years working in both environmental and science education and outreach. Based in Cambridge, Rosie has also worked most recently at The Polar Museum, part of the Scott Polar Research Institute.

Whilst our job in the museum is to communicate the wonderful exhibits and specimens we have here, it is also to best represent the important research the Department is involved in. Annette Shelford has done a wonderful job of providing such a diverse range of resources for families to use in the museum. My role will hopefully enable us to increase the capacity of education and outreach in the museum, building on the existing resources, as well as provide a range of activities to reach a wider range of audiences.”

**Rosie Amos.**

## **CAMBRIDGESHIRE LANDSCAPES**

We have recently been having discussions with the Heritage Lottery Fund about the possibility of running a project to help people understand and enjoy more their local landscapes. The idea is that every area of flat ground and every slope represents events in the geological history of any landscape. The more that people can understand about this, the more they will enjoy the areas that they live in, and the journeys on foot, cycle, or vehicle that they make. So we have been developing this idea in order to reach out to a wider audience.

The Lottery advisers have welcomed this idea but advised us that to be successful in receiving funding, we should select small areas and run a pilot project. Rather than targeting the Eastern Counties as a whole, we should initially take two or three distinct landscape areas and limit these to one county, in our case, Cambridgeshire. The advisers have also suggested that we should build links across the local communities of our pilot small areas, particularly with people in full-time education, eg. teachers and their pupils.

Three possible landscape areas (of different sizes) that we might aim initially to tackle are: 1) Cambridge City and its immediate surroundings, 2) Cambridge’s Western Highland plateau (between Cambridge, Huntingdon and St. Neots (see our Visit of 25 May, 2013), and 3) St Ives and the River Great Ouse Valley (our visit of May 2009).

We are looking for people with interest in local history, land use and topography. We particularly also need people with interest in developing our package of computer-based mapping methods. We want to help people analyse local topography and develop it as an educational tool in schools as a support for education in geography and geology. Please do not hesitate to contact me with ideas and names on [pff1000@cam.ac.uk](mailto:pff1000@cam.ac.uk)

**Peter Friend.** September 2012

## SUMMER STUDENTS IN THE MUSEUM

Each year the Friends award two students from the Department of Earth Sciences paid work placements in the Sedgwick Museum. It's a fantastic opportunity for the students to gain experience handling collections and engaging with visitors, which will prove invaluable if they choose to pursue a career in museums when they graduate.

The students help with the continued development of the Museum's research collections and education resources, helping with projects that the Museum staff would not have the time to accomplish otherwise.

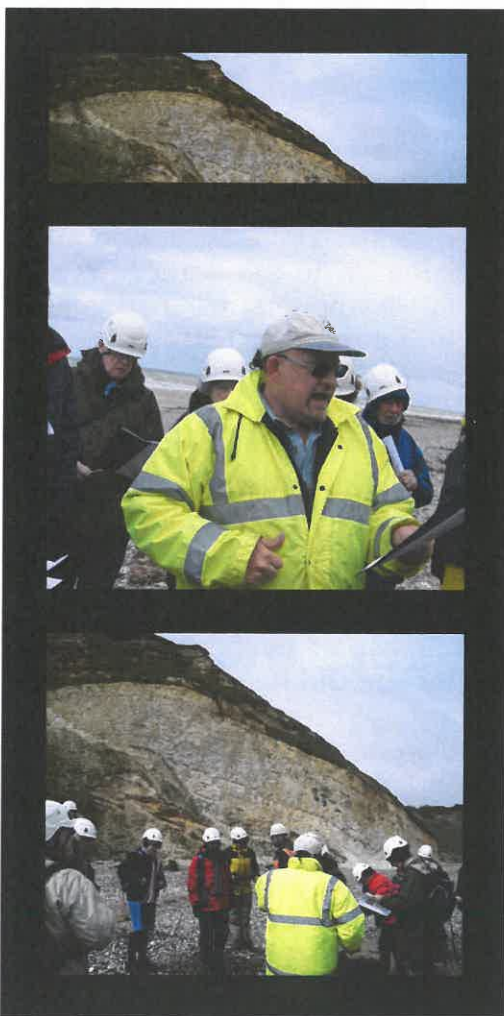
This year (2012) David Arnold has been curating our Education Handling Collection – used in schools loan boxes and for public events - and Zsofia Dobo has been helping to check our inventory, re-house and scan in 3D our type fossils - the original fossils used to describe and name new species.

The Museum staff and students would like to thank the Friends for their continued support in this endeavour.

**Matt Riley.**

Collections Assistant, Palaeontology.

## SUMMER 2012 FRIEND'S DAY EXCURSIONS



The Friends enjoyed two separate Saturday bus tours, involving very different approaches to understanding episodes that occurred during the last million years of the Ice Age.

On 5 May, we travelled to North-East Norfolk near Cromer, where Steve Boreham (Geography) provided a vivid commentary (see photo) on the cliff and beach evidence of early coastal and river sedimentation followed by ice sheet bulldozing.

Two weeks later, Martin Whiteley (Bedford) and Peter Friend led a landscape tour of Marston Vale near Bedford, where the topography provides evidence of catastrophic slope collapse and erosion under freeze-thaw conditions after the main Anglian glaciation.

## GALLERY VOLUNTEERS

In recent years, members of the Friends have acted as Gallery Volunteers in the Museum, and found the job really rewarding. The Museum is looking for more volunteers, and invites people to find out more by contacting Sarah Hammond (Museum Administrator, [snh30@cam.ac.uk](mailto:snh30@cam.ac.uk)) or Peter Friend (Friends' Chairman, [pff1000@cam.ac.uk](mailto:pff1000@cam.ac.uk)), or writing to either.

## 2012 FIELD WEEKEND IN BERWICK-UPON TWEED



**A group of the Friends at Siccar Point**

The Eleventh Annual Field Weekend took place over the 15<sup>th</sup> – 17<sup>th</sup> June 2012 when fifty seven Friends travelled from all over the UK to the Border town of Berwick on Tweed. In a summer of torrential downpours we had mixed weather – but the members are a hardy bunch and the intermittent rain did little to dampen spirits.

The party split into two groups one led by Phil Stone and Mike Tuke; the other by Peter Friend. The coastal scenery was magnificent and the range of sites visited provided an insight into the geological development of the area.

There were two particular highlights, both evidence of the main Caledonian mountain building. Firstly we visited Siccar Point, where – in 1788 James Hutton visited and worked out the correct sequence of events that formed what we now call an unconformity. This separates the Old Red Sandstone [345 million year old Devonian], overlying vertical layers of greywacke [425 million year old Silurian]. The second was the spectacular volcanic bird-cliffs near St. Abbs Head, and the nearby spectacular folding at Pettico Wick.

On Saturday night we met for our customary dinner – the last minute change of venue did not hamper our enjoyment and a good time was had by all.

**Margaret Sanderson.**





## JOIN THE FRIENDS...

Membership is open to anyone!

## CONTACT DETAILS

The Friends of the Sedgwick Museum  
Downing Street  
Cambridge, CB2 3EQ

Department reception:  
01223 – 333400

Chairman e-mail: [pff1000@cam.ac.uk](mailto:pff1000@cam.ac.uk)

Event leaders may be contacted before and during events on the events mobile: 07754 592439

## KEY WEBSITES:

### FRIENDS OF THE SEDGWICK MUSEUM

[www.friendsofsedgwickmuseum.com](http://www.friendsofsedgwickmuseum.com)

### SEDGWICK MUSEUM

<http://www.sedgwickmuseum.org/>

### SEDGWICK MUSEUM BLOG

<http://sedgwickmuseum.org.uk/blog/>

### CAMBRIDGESHIRE GEOLOGY CLUB

<http://www.cambridgeshiregeologyclub.org.uk/>

## APPLICATION FORM

Please use block capitals and return the form, with your cheque, to the membership secretary.

Name (Dr, Mr, Mrs, Miss, Ms) *(delete as applicable)*

.....

Address.....

.....

.....Postcode.....

Telephone.....

Email.....

Age (if under 18).....

### Subscriptions (please tick)

- Individual: £12 per annum (Over 18 years)
- Family: £18 per annum (Two or more members living at the same address)
- Young person: £6 per annum (Members under the age of 18)
- Concession: £8 per annum (Full time students, unemployed or over 60s)

*Membership is for one year and expires on 31<sup>st</sup> March. Members joining after 31<sup>st</sup> December will have the last quarter's membership included in the following year.*

- I attach a cheque for £..... made payable to The Friends of the Sedgwick Museum.

Signed.....Date.....

**Gift Aid Scheme.** Because the Friends is a registered Charity (No. 101911393) we can claim an additional amount on any subscription or donation, provided that you are a UK tax payer. Your signature below will allow us to increase the value of each payment you make for the benefit of the Friends.

**Gift Aid Declaration.** I am a UK tax payer. I would like the Friends of the Sedgwick Museum to treat all membership fees and donations as Gift aid donations from the date of this declaration until I notify otherwise.

Signed.....Date.....

## FRIENDS SCRAPBOOK 2012

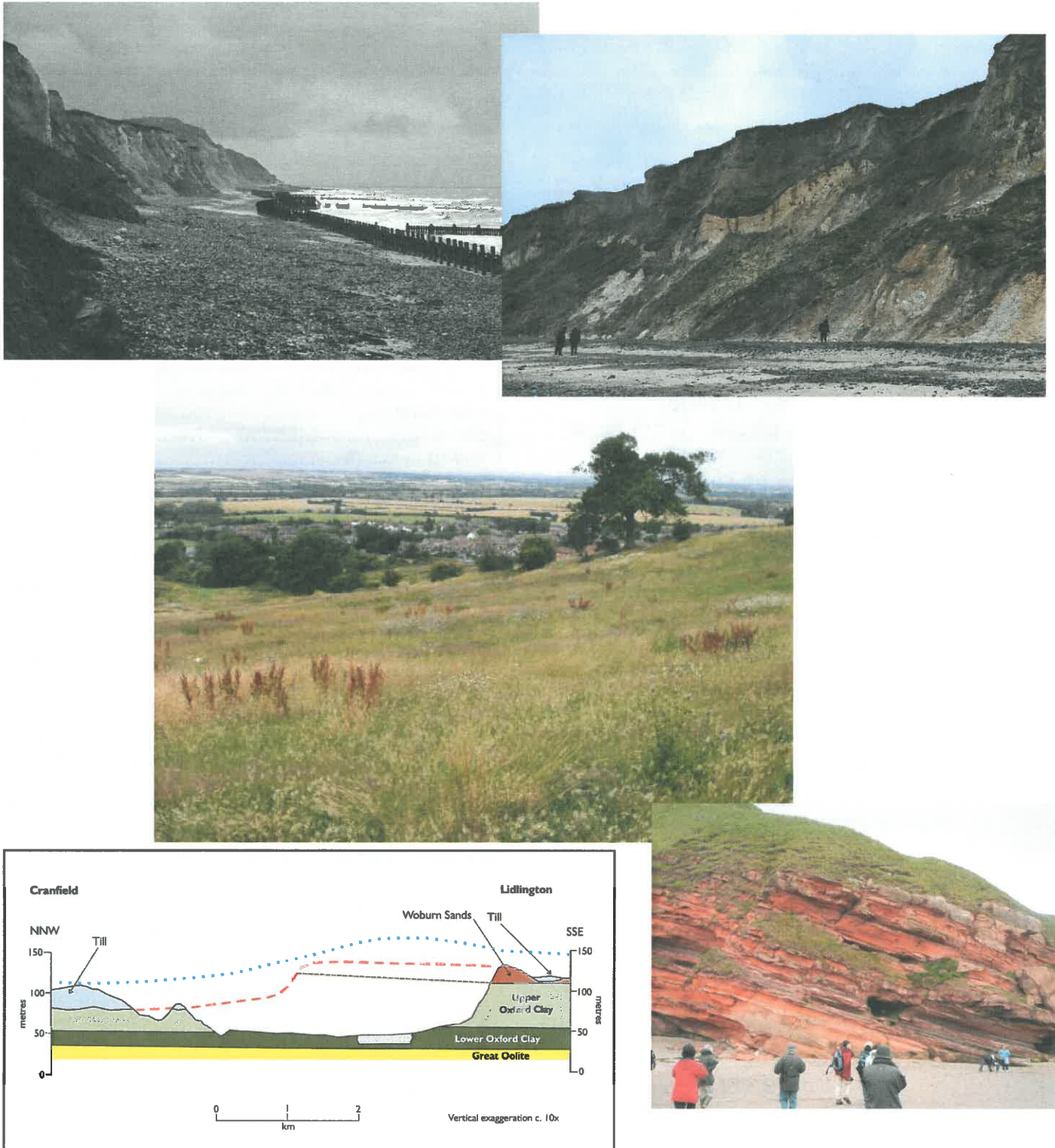


Fig. 7.

### Captions: Left to right

- Dramatic weather in North Norfolk with cliffs of bulldozed chalk (*Benoit Mautravers*)
- Marston Vale formed by spectacular collapse of the sides of the Great Ouse Valley under periglacial conditions (*Tim Holt Wilson*)
- Red Beds on the Berwickshire coast (*Steve Jordan*)

Friends of the



Sedgwick Museum  
of Earth Sciences

## FRIENDS OF THE SEDGWICK MUSEUM

### BOOKING FORM

<b>Date/event</b>
-------------------

<u>Contact details – please print</u>
<b>Name(s)</b>
<b>Email</b>
<b>Telephone</b>
<b>Address</b>

**Please enclose cheque for the appropriate amount made payable to 'The Friends of the Sedgwick Museum' and send to the person indicated on the programme**

**Enclosed cheque for \_\_\_\_\_**

**Signed \_\_\_\_\_**

**Details will be emailed to you unless you indicate otherwise**

**Further copies of this booking form may be obtained from Friends webpage:**  
**<http://friendsofsedgwickmuseum.com/page17.htm>**

