



Quaternary Research Association

CIRCULAR

OCTOBER 2009

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Visit the New QRA website at

www.qra.org.uk

Registered Charity no: 262124

This Circular is also available at:

www.qra.org.uk

1. SUBSCRIPTIONS AND MEMBERSHIP INFORMATION

Members are reminded that **subscriptions are due on January 1st** each year. Please pay promptly either by setting up a **STANDING ORDER** before this date or by **SENDING YOUR CHEQUE** punctually. In this way you are reducing the number of reminders and therefore postage costs. Overseas members who have difficulty paying by cheque or standing order can pay by visa (see website for details).

The subscription rates for QRA membership for 2010 are as follows:

Ordinary Members	£20
Student, retired and unwaged members	£10
Institutional Membership	£35

Treasurer: Dr Peter Allen, 13 Churchgate, Cheshunt, Herts, EN8 9NB
peter.allen6@virgin.net

Membership of the Association will be terminated for non-payment of subscriptions.

Membership information, application, standing order and Gift Aid forms can be found on the QRA Website (www.qra.org.uk)

In order that the QRA can maintain an up-to-date and accurate membership database please inform the QRA of any changes to your contact details or your membership status, either by contacting the Secretary (s.lewis@qmul.ac.uk) or the QRA Administrator (val@bethesda.demon.co.uk).

2. NOTICE OF THE ANNUAL GENERAL MEETING OF THE QUATERNARY RESEARCH ASSOCIATION

The 45th Annual General Meeting of the Quaternary Research Association will take place on Wednesday 6th January at 17:30 hours in the Appleby Lecture Theatre, Department of Geography, Durham University
Chair: Professor James Scourse (President)

3. ELECTIONS TO THE EXECUTIVE COMMITTEE OF THE QRA 2010

Six members of the QRA Executive Committee complete their terms of office in January 2010. The Executive Committee has nominated the following people for election to these posts. No other nominations were received by the closing date; therefore the following will begin their terms of office in January 2010.

Vice-President:	Dr David Evans (Durham)	(2010-2013)
Secretary:	Dr Peter Langdon (Southampton)	(2010-2014)
Publications Secretary:	Dr Ian Candy (Royal Holloway)	(2010-2014)
Awards Officer:	Dr Siwan Davies (Swansea)	(2010-2013)
Conservation Officer:	Prof Cynthia Burek (Chester)	(2010-2013)
Ordinary Member:	Dr Eleanor Brown (Natural England)	(2010-2013)

Simon Lewis (Secretary)

4. QRA ANNUAL DISCUSSION MEETING: JANUARY 2010

Sea Level Changes: the Science of a Changing World

Hosted by: The Department of Geography, Durham University, Durham City, UK

Tuesday, 5th January to Friday, 8th January 2010

<http://www.geography.dur.ac.uk/conf/sealevelchanges>

From multiple Quaternary glacial/interglacial cycles to perceptions and predictions of future scenarios, changes in sea level reflect the complex interactions and consequences of our transient Earth – Climate system and, more recently, society. The 2010 QRA Annual Discussion Meeting will address these interactions through themed sessions that aim to explore the different spatial and temporal scales of sea-level change.

The conference format will comprise two full days and one half day of presentations on four themed sessions, each introduced by at least one invited paper from World leaders in the field who will provide a summary of our current state of knowledge and the uncertainty of what we don't know or understand. There will also be an evening "Any Questions" style session on "Sea level science and society: effective communication of our research", with a panel comprising academics and the media to answer questions from conference delegates.

The conference will be hosted by the Geography Department at Durham University, in Durham City in the North East of England, a spectacular cathedral city with an amazing heritage. Narrow cobbled streets wind their way around the rocky peninsula to the majestic Norman cathedral and castle. The cathedral and castle not only dominate the skyline, they are also a designated a World Heritage Site.

Conference Organisers

Ian Shennan (ian.shennan@durham.ac.uk)

Antony Long (a.j.long@durham.ac.uk)

Dave Roberts (d.h.roberts@durham.ac.uk)

Sarah Woodroffe (s.a.woodroffe@durham.ac.uk)

Provisional Programme

Tuesday 5th January 2010

5.30 pm Conference Registration opens at the Department of Geography

6.00 pm Ice breaking session – Drinks reception (with nibbles) at the Department of Geography

7.30 pm Delegate free evening in Durham City

Wednesday 6th January 2010 - Scientific Programme – Day 1

8.30 am Registration recommences at the Department of Geography

9.00 am Conference Opening – Appleby Lecture Theatre, Geography West Building

4.00 pm Poster session

5.30 pm Drinks reception prior to 'Any Questions' session

6.00 pm 'Any Questions' session with academic panel

Thursday, 7th January 2010 - Scientific Programme – Day 2

9.00 am Conference scientific session resumes

7.00 pm Conference Dinner, Great Hall, Durham Castle

Friday 8th January 2010 - Scientific Programme – Day 3

9.00 am Conference scientific session resumes

1.00 pm Lunch, delegates depart

Abstract Submission

Delegates are invited to submit an abstract for either a presentation or poster. All standard presentations will be 15 minutes in length (including questions and answers). Posters are A0 size, landscape and will be on display during the relevant poster session. Further information on abstract submission can be obtained from the QRA ADM 2010 website:

<http://www.geography.dur.ac.uk/conf/sealevelchanges>

Please use the Word-template provided on the website and name the file adm_lastname_inst.doc (lastname and inst. referring to the first author's last name and institute) and send the abstract to Kathy Wood – email kathy.wood@durham.ac.uk by **Friday, 2nd October 2009**.

The four themes of the conference are listed below. When completing your registration form, please indicate which category you feel best describes your presentation/poster.

1. Modelling sea-level change: global to local scales
2. Quaternary sea-level change, past people and their environments
3. Resolving ice-sheet and sea-level interactions
4. Sea-level change 2000 BP to 2100 AD.

Registration

The registration fee for the whole conference is £85.00. This includes lunch and refreshments on each day of the conference (Wednesday 6th, Thursday 7th and Friday 8th January), and an ice breaker reception on Tuesday 5th January. Delegates can also register for individual days of the conference at £35.00 per day if they wish (this includes lunch and refreshments).

There will be a conference dinner at Durham Castle on Thursday 7th January, at a cost of £40.00 per person.

Deadline for Registration: 13th November 2009

Accommodation

There is accommodation available for conference delegates at Hatfield College within the University, which is available on a first-come, first-served basis as follows:

Single occupancy (single room), with ensuite. £39.50 per night

Single occupancy (single room), no ensuite. £28.50 per night

Twin occupancy, with ensuite. £70 per night (based on 2 sharing)

Twin occupancy, no ensuite. £51 per night (based on 2 sharing)

Please note that the above costs include breakfast.

There are also many alternative accommodation options in Durham city, within walking distance of the University (please make your own accommodation arrangements if you would prefer to stay in one of these hotels):

Three Tuns Hotel (Swallow hotels)

<http://www.swallow-hotels.com/hotels/three-tuns-hotel.aspx>

Royal County Hotel (Marriott)

<http://www.marriott.co.uk/hotels/travel/xvudm-durham-marriott-hotel-royal-county/>

Durham Radisson SAS Hotel

<http://www.durham.radissonsas.com/>

Travelodge

http://www.travelodge.co.uk/search_and_book/hotel_overview.php?hotel_id=204

Premier Travel Inn

<http://www.premierinn.com/pti/hotelInformation.do?hotelId=26617>

Travelling to Durham University

By road

Durham city centre is only two miles from the A1(M). Leave the motorway at Junction 62 on the A690 Durham - Sunderland road and follow signs to Durham City Centre. Durham is 264 miles from London, 187 miles from Birmingham, 125 miles from Edinburgh and 67 miles from York. There are several express coach services daily from most major cities. Durham is well served by both regional express services and the local bus network. From the city bus station - a short walk from the railway station - a bus service runs every 15 minutes past the Colleges on South Road.

By rail

60 InterCity trains from most major centres in the country call at Durham daily including 14 trains from London. The National Express high speed service takes under 3 hours from London King's Cross on the main East Coast line. Links to train timetables and ticketing arrangements can be found by visiting www.nationalexpress.com/

By air

Durham is 30 minutes drive from Newcastle Airport and about 40 minutes from Durham Tees Valley airport. Both have regular domestic and international flights. Durham is linked to Newcastle Airport by rail and metro. Travellers into Durham Tees Valley can take advantage of the free Sky Express bus service that links the airport to Darlington railway station, with regular connections to Durham.

QRA Publications

The QRA currently has field guides to over thirty destinations available for purchase. Recent additions to the series include:

***The Quaternary of the Solent Basin and West Sussex Raised Beaches*
(Briant *et al.*) 2009**

***The Quaternary of Northern East Anglia* (Candy *et al.*) 2008**

***The Quaternary of the Trent Valley and adjoining regions* (Bridgland *et al.*)
2007, available in 2009**

***The Quaternary of Glen Roy and vicinity* (Palmer *et al.*) 2008**

***The Quaternary of the North of Ireland* (Whitehouse *et al.*) 2008.**

The Technical Guide series includes:

No. 10 *The Identification and Use of Palaeoartic Chironomidae larvae in Palaeoecology.* (Brooks *et al.*) 2007.

No. 7 *The Description and Interpretation of Quaternary Stratigraphic Field Sections*
(Jones *et al.*) 1999 (Digitally reprinted version).

More details on QRA publications and an order form can be found on the website
(www.qra.org.uk).

If you are interested in producing a technical guide please contact the Publications Secretary. If you have a suggestion for a field meeting and accompanying guide book please contact the Meetings Officer.

5. QRA FIELD MEETING: FAR NORTHWEST SCOTTISH HIGHLANDS: APRIL 2010

QRA FIELD MEETING

The Quaternary of the far NW Scottish Highlands

28th April – 3rd May 2010

Organisers: Sven Lukas (Queen Mary, University of London), Tom Bradwell (BGS, Edinburgh)

Background

The western part of this remote area of Britain was last visited by the QRA in 1995; the area inland of Assynt (i.e. the interior of Sutherland) has received little research attention until recently. Since the last meeting, a large amount of recent research has led to considerable advances in our understanding of the chronology and dynamics of Late Quaternary ice masses and palaeoecology (see below) that have implications for other areas of the British mainland and offshore. It is thus timely to revisit this spectacular area.

Preliminary programme

The meeting will focus on the late Quaternary of the far NW Highlands and adjacent (offshore) areas. Three and a half field days are planned, and the provisional programme will contain:

Day 1:

The influence of bedrock lithology and structure on Quaternary landform formation; subglacial sediments related to ice-streaming (Allt an Strathan); P-forms, outwash terraces and sea-level evidence (Keanchulish, Strathkanaird); megagrooves (Rhidorroch, Elphin); ice-sheet thickness (Quinag).

Day 2:

Cosmogenic isotope dating of Late Devensian deglaciation (Loanan Valley); speleothems, ¹⁴C and U-Th dates from the Assynt Bone Caves (Allt nan Uamh); karst and post-glacial weathering (Inchnadamph); Holocene peat profiles and environmental change (Inchnadamph).

Day 3:

Rogen moraines and pre-Younger Dryas readvance limits (Loch Shin); Geomorphological evidence of extensive Younger Dryas glaciation, glacier reconstruction and palaeoclimatic significance (Loch Shin, Loch a'Ghriama, Loch More); Younger Dryas "hummocky" moraine sedimentology and glaciodynamic significance (Bealach nam Meirleach).

Day 4:

Large-scale rock-slope failure (Bealach nam Meirleach, Ben Hee); ¹⁴C-chronology (Loch Stack).

Accommodation

The meeting will be based at the Inchnadamph Hotel and Inchnadamph Lodge, Inchnadamph. The venues are both well equipped to cater for the group in all aspects (food, well-stocked bar); a large meeting room for evening presentations and a range of accommodation are also available.

Indicative costs per night per person are c. £17 for bunkhouse accommodation, £25-35 per single or shared twin/triple room, bed and breakfast included and c. £45-50 for a single room including dinner, bed and breakfast. Both en-suites and shared facilities are available. Registration costs will be around £80 (standard) and £40 (students/unwaged members).

Access

It should be noted that, due to the widespread absence of roads and usable tracks, all days of this field meeting will involve long walks across mountainous, partly difficult and possibly water-logged ground. Inchnadamph does not have any alternative facilities, and although we will pass local shops on some days, we would encourage participants planning not to have dinner at the hotel to bring provisions for the whole meeting based on previous experience.

Travel

Transport during the meeting will be in University minibuses, BGS and private vehicles, and we will aim at keeping the number of vehicles to a necessary minimum due to available parking space. The majority of roads in this area of the Highlands are single-track, so that larger buses for group transport are not a feasible option due to road widths.

The closest railway station to the area is Lairg, about an hour's drive south of the proposed meeting place, and pick-up from the station can be arranged if required. For everyone's convenience, we would offer to organise lifts for participants who do not travel to the venue as part of a group.

Further details on the field trip can be obtained by contacting either

Sven Lukas (email: S.Lukas@qmul.ac.uk; Tel.: 020 7882 8417) or

Tom Bradwell (email: tbrad@bgs.ac.uk; Tel.: 0131 650 0284).

6. QRA POSTGRADUATE SYMPOSIUM: AUGUST 2010

The 15th QRA Postgraduate Symposium will take place between the 25th and 27th August 2010. It will be hosted by the School of Geography at the University of Exeter and a call for papers will take place in early 2010.

The QRA Postgraduate Symposium provides an excellent opportunity for postgraduate students to meet in an informal environment to discuss their research. Participation is encouraged from students at all stages of their postgraduate studies, who wish to gain valuable experience in presenting to a friendly audience and foster links (both academic and social!) with like-minded Quaternary Scientists.

Further details of the symposium, including registration information, will appear on the QRA website and in the Circular soon. We are looking forward to welcoming you to Exeter!

Contact: Thomas Roland (QRA2010@exeter.ac.uk)

QRA Postgraduate Web pages

The QRA web site now has pages devoted to news and information of interest to postgraduate students. The QRA postgraduate blog can be found at www.qra.org.uk/blog and it provides a place where information can be posted reporting on recent QRA activities or announcing forthcoming meetings and other events. For more information on how to post items to the postgraduate blog contact Gunnar Mallon (g.mallon@soton.ac.uk).



7. RESEARCH GROUPS AND STUDY GROUPS OF THE QRA

Research Groups

The QRA currently has a Research Groups scheme that is intended to bring together researchers in the UK and elsewhere and act as a forum for discussion of research findings, new research initiatives and enable publication of research results. Research Groups receive a small amount of “pump priming” funding (c. £500 p.a. for three years) to assist with these activities.

A number of research groups have been set up since 1995, all of which have been successful and produced a range of outcomes including published research outputs. These include:

- Fluvial Archives Group (FLAG)
- Cryostratigraphy Research Group
- Palaeopeatlands Research Group (PalPeat)
- Quaternary vertebrates Research Group (QUAVER)
- Isotopes and Biogenic Silica Research Group (IBiS)

Study Groups

This new scheme is designed to enable small groups to affiliate to the QRA. Study Groups are approved by the Executive Committee of the QRA for a period of three years, after which time they must reapply or their affiliation will be terminated. Study Groups will not receive any financial support from the QRA.

Individuals who are members of a study group do NOT become members of the QRA (though they may already be so), they are not entitled to receive QRA publications (QN, Circular) and they do not qualify for any reduced rates offered to QRA members. Members of study groups are not covered by the QRA’s insurance on field excursions.

Application Procedure

If you are interested in forming a Research Group to promote an area of research activity and to foster new research linkages and activity, or if you are involved in small but active research organisation that might benefit from affiliation to the QRA please discuss your ideas with the Secretary in the first instance who can also provide details on the application process.

Simon Lewis
Secretary,

8. QRA WEBSITE AND MEMBERS’ DIRECTORY

The new QRA website can be found at www.qra.org.uk where you will find news, details of meetings, publications and other information about the QRA.

Members’ Directory: The QRA website now has a significantly enhanced members’ directory, in which your contact details will be held securely and you will be able to update your address and contact details. You will also be able to search the directory for other QRA members. Please visit the Members’ Directory to check your details are correct and make any necessary changes. Log-in and password details were distributed by email in February 2009. You should change the password to make access to your information more secure.

9. QRA RESEARCH AND CONFERENCE GRANTS

Please note: Full details of all QRA grants and application forms are available on the website (www.qra.org.uk). Applicants for awards should read the details carefully before submitting an application.

If you require a hard copy, please contact Dr Mick Frogley at:
Department of Geography, University of Sussex, Falmer, Brighton, BN1 9QJ
email: M.R.Frogley@sussex.ac.uk
tel: 01273 873237

Quaternary Research Fund

Purpose: To foster research in any area of Quaternary studies
Eligibility: Members of the QRA of at least one years standing (NB postgraduates should apply to the New Research Workers' Awards)
Deadlines: 15th January, 15th May and 15th September
Awards: £50-500

New Research Workers' Awards

Purpose: To foster research in any area of Quaternary studies by postgraduate students
Eligibility: Postgraduate student members of the QRA of at least 6 months standing
Deadlines: 15th January, 15th May and 15th September
Awards: Up to £500

Quaternary Conference Fund

Purpose: To assist attendance at Quaternary science conferences and field meetings.
Eligibility: Members of the QRA of at least one years standing
Deadlines: 15th January, 15th May and 15th September
Awards: Normally up to £250

The Bill Bishop Award

Purpose: To provide support for field-based research in the subject of geology and related sciences in the fields of (i) Cenozoic stratigraphy, palaeoenvironments and chronology in relation to hominid evolution and (ii) British Quaternary stratigraphy, palaeoenvironments and geomorphology
Eligibility: Full and part time PhD and MPhil students
Deadline: 15th January annually
Award: £800 (maximum)

Lewis Penny Medal

Purpose: Awarded to a young or new research worker, and who has made a significant contribution to the Quaternary Stratigraphy of the British Isles and its maritime environment.
Deadline: Nominations should be submitted by **15th May** annually.

QRA-RLAHA Luminescence Dating Award

Purpose: Set up in collaboration with the Research Laboratory for Archaeology and the History of Art at Oxford University, up to six optically-stimulated luminescence dates (from Pleistocene or Holocene sediments) will be awarded.
Eligibility: PhD students
Deadline: January 15th annually.

Postgraduate QRA Meetings Awards

- Purpose:** To enable a greater number of postgraduates to attend QRA meetings.
- Eligibility:** Any registered postgraduate who has been a QRA member for more than **6 months**
- Deadlines:** For Easter Annual Field Meeting or May Short Field Meeting: **January 15th**
For September Short Field Meeting: **May 15th**
For January Annual Discussion Meeting: **September 15th**
- Awards:** 50% of the costs of the meeting (excluding travel to the venue); six awards for the Annual Field Meeting, six awards for the Annual Discussion Meeting and three awards for the Short Field Meeting

Radiocarbon Dating Short Course Bursaries

- Purpose:** To enable members to participate in the annual two-day radiocarbon dating short course run jointly by NERC, AHRC and the University of Oxford.
- Eligibility:** The scheme is open to any QRA member (except undergraduates) regardless of length of membership, though preference will initially be given to first year PhD students who are not funded by either NERC or AHRC.
- Deadline:** 15th January annually
- Awards:** Up to three bursaries will be awarded annually and will cover course fees only. Any other attendant expenses must be met by the applicant. Further details about the short course can be found at www.conted.ox.ac.uk/courses.

10. JOURNAL OF QUATERNARY SCIENCE

The *Journal of Quaternary Science* is the Association's journal, founded in 1986 and published on behalf of the QRA by Wiley-Blackwell. JQS currently publishes eight issues per year, including two special issues. In 2008 the Impact Factor for JQS increased to 2.5, placing it among the top multidisciplinary geoscience journals. The journal continues to develop in the Americas, Asia and Australasia, while continuing to represent the wide range of Quaternary science research in Europe. JQS publishes original papers on any field of Quaternary research and aims to promote a wider appreciation and deeper understanding of the earth's history during the last two million years. Papers of international interest from a wide range of disciplines appear in JQS including archaeology, botany, climatology, geochemistry, geochronology, geology, geomorphology, geophysics, glaciology, limnology, oceanography, palaeoceanography, palaeoclimatology, palaeoecology, palaeontology, soil science and zoology.



The QRA benefits directly from the success of JQS through the annual royalty it receives from Wiley-Blackwell. This income has allowed the Association to expand its range of grants schemes, in particular to support postgraduate researchers, to fund over thirty scientists to participate in the recent INQUA Congress in Cairns, Australia and undertake development of its web site to enhance the on-line presence of the QRA.

With the continued development of on-line publishing, the income to the journal is increasingly determined by the subscription packages purchased by institutional libraries in the UK and elsewhere. It is therefore important that:

- Academic and related organisations continue to include JQS in their library's subscription packages,
- On-line usage of JQS is increased by maximising the number of downloads of articles from the Wiley InterScience® web site,

- QRA members consider JQS as an outlet for their research and encourage colleagues and co-workers to submit papers to JQS.
- Organisers of meetings or conferences include publicity materials to promote JQS to meeting delegates. Please contact Genevieve Eastwood at Wiley-Blackwell (geastwoo@wiley.com) to discuss your requirements.

The QRA Executive Committee also continues to encourage individuals to take advantage of the very significant reduction in subscriptions to receive the print edition of JQS which are offered to all QRA members by Wiley-Blackwell.

<http://www3.interscience.wiley.com/cgi-bin/jhome/2507>

The top ten cited articles in JQS for 2007 are:

1. Alloway, BV; Lowe, DJ; Barrell, DJA; Newnham, RM; Almond, PC; Augustinus, PC; Bertler, NAN; Carter, L; Litchfield, NJ; McGlone, MS; Shulmeister, J; Vandergoes, MJ; Williams, PW. Towards a climate event stratigraphy for New Zealand over the past 30 000 years (NZ-INTIMATE project).
2. Charman, DJ; Blundell, ACCROTELM Members. A new European testate amoebae transfer function for palaeohydrological reconstruction on ombrotrophic peatlands.
3. Pearce, NJG; Denton, JS; Perkins, WT; Westgate, JA; Alloway, BV. Correlation and characterisation of individual glass shards from tephra deposits using trace element laser ablation ICP-MS analyses: current status and future potential.
4. David, B; Roberts, RG; Magee, J; Mialanes, J; Turney, C; Bird, M; White, C; Fifield, LK; Tibby, J. Sediment mixing at Nonda Rock: investigations of stratigraphic integrity at an early archaeological site in northern Australia and implications for the human colonisation of the continent.
5. Bridgland, DR; Demir, T; Seyrek, A; Pringle, M; Westaway, R; Bieck, AR; Rowbotham, G; Yurtmeni, S. Dating quaternary volcanism and incision by the river Tigris at Diyarbakir, southeast Turkey.
6. Holmgren, CA; Norris, J; Betancourt, JL. Inferences about winter temperatures and summer rains from the late Quaternary record of C-4 perennial grasses and C-3 desert shrubs in the northern Chihuahuan Desert.
7. Bowen, DQ; Gibbard, PL. The Quaternary is here to stay.
8. Pyne-O'Donnell, SDF. Three new distal tephras in sediments spanning the Last Glacial-Interglacial Transition in Scotland.
9. Asrat, A; Baker, A; Mohammed, MU; Leng, MJ; Van Calsteren, P; Smith, C. A high-resolution multi-proxy stalagmite record from Mechara, Southeastern Ethiopia: palaeohydrological implications for speleothem palaeoclimate reconstruction.
10. Brauer, A; Wulf, S; Mangili, C; Moscariello, A. Tephrochronological dating of varved interglacial lake deposits from Pianico-Sellere (Southern Alps, Italy) to around 400 ka.

11. QUATERNARY NEWSLETTER

Copy deadlines for *QN* are: 1st of January, May and September each year. Material should be submitted to the Editor:

Dr Mark Bateman
 Department of Geography,
 University of Sheffield
 Sheffield, S10 2TN
M.D.Bateman@Sheffield.ac.uk

12. CALENDAR OF QRA MEETINGS

Offers to arrange meetings are always welcome. Please contact the Meetings Officer: Dr David Roberts (d.h.roberts@durham.ac.uk) to discuss your proposal.

5th - 8th January 2010

Annual Discussion Meeting: “Sea Level Changes: Science of a Changing World”

Venue: Durham University

Organisers: Ian Shennan, Prof Antony Long, Dr Sarah Woodroffe, Dr Dave Roberts

Contact: Ian Shennan: Ian.Shennan@durham.ac.uk

See details and registration form in this Circular and on the QRA website

28th April - 3rd May 2010

QRA Field Meeting

Far North West Scottish Highlands

Organisers: Sven Lukas, Tom Bradwell

Contact: Sven Lukas (s.lukas@qmul.ac.uk)

See details in this circular

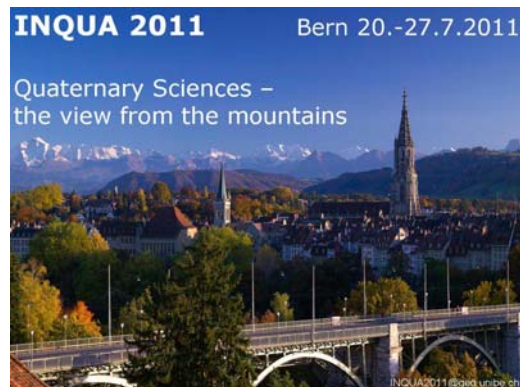
25th - 27th August 2010

15th QRA Postgraduate Symposium

Venue: University of Exeter

Organisers: Tom Rowland

Contact: QRA2010@exeter.ac.uk



September 2010

Field Meeting: Solway Firth

Venue: Solway Firth

Organiser: Dave Evans, Colm O’Cofaigh, Antony Long, Stephen Livingstone

Contact: Dave Evans: d.j.a.evans@durham.ac.uk

January 2011

Annual Discussion Meeting: Theme: Palaeohydrology

Venue: University of Liverpool

Spring 2011

Field Meeting: Devon and Dorset

Contact: Laura Bassell (Southampton)

September 2011

Field Meeting/Workshop: Norfolk Glaciotectonics

Contact: Jon Lee (BGS)

Details of all QRA meetings are also available on the website: www.qra.org.uk

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