

Quaternary Research Association

February 2005

CIRCULAR

CONTENTS

1. Subscriptions and *Quaternary Newsletter*
2. New members of the Executive Committee
3. Increased awards for postgraduates
4. Membership list
5. Quaternary Newsletter
6. Joint meeting with the Engineering Group of the Geological Society 'No glaciation south of Watford?' 9th March 2005
7. Annual Field Meeting and AGM, Central Western Ireland, 5th-9th April 2005
8. Joint meeting with the International Association of Sedimentologists, 'Glacial Sedimentary Processes and Products', 23-27th August 2005, University of Wales, Aberystwyth.
9. QRA Annual Postgraduate Symposium, University of Plymouth, August 31st-Sept 2nd 2005
10. Short Field Meeting to Rossendale Forest and Greater Manchester, 8th-11th September, 2005
11. Joint meeting with the Marine Studies Group of the Geological Society, 'Biogeochemical controls on palaeoceanographic proxies', 3-4th October 2005, London
12. QRA Research and Conference Grants
13. Postgraduate QRA meetings awards
14. *Journal of Quaternary Science*
15. *Quaternary Science Reviews* and other journals
16. Calendar of QRA Meetings
17. Other meetings

QRA CIRCULAR: February 2005

1. SUBSCRIPTIONS AND QUATERNARY NEWLETTER

Members are reminded that **subscriptions for 2005 were due on January 1**. Please assist the Treasurer (address below) by EITHER putting in place a STANDING ORDER (see form in this Circular) before this date OR 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 (effective from January 1st 2004) are as follows:

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

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

It's worth noting that we have tightened up a lot on non-payment and will no longer send mailings to members who have not responded to subscriptions reminders!

2. NEW MEMBERS OF THE EXECUTIVE COMMITTEE

As reported in the October 2004 circular, six members of the Executive committee complete their terms of office in April 2005. David Keen (President), Peter Allen (Treasurer), Andy Howard (Publications Secretary), Mark Bateman (Meetings Officer) and Heather Binney (Publicity) have all served the QRA extremely well and have earned a rest! We have managed to convince an equally able group of people to stand for most of these positions for the April 2005 AGM. As there have been no other nominations forthcoming, the following members will join the Executive Committee from the AGM in April 2005:

President:	Prof John Lowe (Royal Holloway)
Treasurer:	Dr Rick Shakesby (Swansea)
Publicity Officer:	Dr Jason Jordan (Exeter)
Meetings Officer:	Dr Simon Carr (Oxford Brookes)
Publications Secretary:	Dr Pete Langdon (Exeter)

Professor Chris Caseldine also joined the Executive Committee from January 2005 as the new editor of *Journal of Quaternary Science*.

3. INCREASES IN POSTGRADUATE RESEARCH AWARDS

In recognition of the importance of postgraduate research in the QRA community, we have now increased the amount available for the New Research Worker Awards to £500. full details of all awards and deadlines are provided elsewhere in this circular.

4. MEMBERSHIP LIST

Members are reminded that the membership list is now available on-line on a password protected area of the QRA website. This will enable us to provide more up to date information and to save the cost of printing and distributing the hard copy of the list. To obtain your password please email Heather Binney (hbinney@geog.ucl.ac.uk), including your name, address and email details. The latter will be used to update the email distribution list. If you do not wish to be included on the email distribution list please mention this in your email. If you do not have access to the internet and would like to receive a paper copy of the membership list please write to the membership secretary, Dr Jen Heathcote, English Heritage, Centre for Archaeology, Fort Cumberland Road, Eastney, Portsmouth PO4 9LD.

5. QUATERNARY NEWSLETTER

Copy for the June 2005 QN should be in the hands of the Newsletter Editor, Dr Tim Mighall (Dr Email: gex043@coventry.ac.uk, School of Science and the Environment, Coventry University, Priory St, Coventry, CV1 5FB, UK), no later than 1st May 2005.

6. JOINT MEETING WITH THE ENGINEERING GROUP OF THE GEOLOGICAL SOCIETY 'NO GLACIATION SOUTH OF WATFORD?' 9th MARCH 2005

Note: There is no pre-registration for this half-day meeting which take place at the Geological Society, Burlington House, Piccadilly from 13.15 TO 17.00. The organiser and main contact for the meeting is Paul Fish (FishP@halcrow.com).

No glaciation south of Watford? Exploring the nature, extent and engineering significance of glaciation in southern Britain

Southern England was extensively glaciated during the Quaternary when ice sheets reached as far south as Watford, however, areas further south did not escape from the impacts of ice and instead experienced periglacial conditions where ground ice and freeze-thaw conditions had wide-ranging affects on the landscape. This meeting will explore the limits of Quaternary glaciations and the significance to engineering geology of the periglacial landscape. Contributors include leading researchers in the field of Quaternary geology from academia, the British Geological Survey and consulting engineering geology. The meeting will provide a forum for state-of-the art idea knowledge to be discussed and the application to the wider-engineering geology community of the work presented can be assessed.

Keynote addresses:

Professor Jim Rose (Royal Holloway University of London) *A New Quaternary Map for Britain - applications to engineering geology.*

Dr Julian Murton (University of Sussex) *Chalkland periglaciation of southern England.*

Dr Adrian Humpage (British Geological Survey) *How stable are your slopes? An overview of some periglaciated slopes in southern Britain.*

Discussion papers:

Colin Warren (Halcrow) and **Dr Martin Bates** (University of Wales, Lampeter) *Engineering geology, Quaternary geology and archaeology of the CTRL tunnel site at Swanscombe.*

Professor David Keen (University of Birmingham) *'The Ice Age Network' linking industry and academia: a research service for the rapid investigation of Quaternary and Palaeolithic sites in England.*

7. QRA ANNUAL FIELD MEETING: CENTRAL WESTERN IRELAND 5th-9th APRIL 2005
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The 2005 QRA Annual Field Meeting will be based in western Ireland. Updated information may be obtained at: <http://www.tcd.ie/Geography/IQUA/Index.htm>

Please note that participants must make their own travel arrangements to and from Galway. Airfares are cheap, especially to Dublin, if they are booked well in advance. A regular train service to Galway operates from Heuston Station Dublin see: <http://www.irishrail.ie/home/> and there is a cheap (currently €28 return) and regular bus service from Dublin Airport to Galway (<http://www.citylink.ie/>)

Programme:

In order to make the trip to Ireland even more worthwhile, the organizers offer the possibility of optional excursions before the Meeting. This requires prior notification (see the registration form in the centre of this Circular) and involves participants in slightly more complicated arrangements.

Optional Day Monday 4th April. Starting and ending in Dublin.

1. Newgrange (<http://www.heritageireland.ie/en/HistoricSites/East/BrunaBoinneVistorCentreNewgrangeandKnowthMeath/>)

OR

2. Tour of glacial deltas at Blessington and around the Wicklow Mountains (Leader: Mike Philcox)
Please note that participants taking this optional day will need to arrive in Dublin early on Monday morning (at the latest) and arrange overnight accommodation for Monday night in Dublin.

Optional Day Tuesday 5th April. Dublin.

Dublin Natural History Museum (Nigel Monaghan), Trinity College Dublin (Book of Kells etc.)
Travel to Galway.

Tuesday April 5th

Arrive in Galway. Night in Galway.

Wednesday April 6th. The Burren.

Drive south to the Burren: karst landscape, landscape evolution, Late-glacial and Holocene vegetation and archaeology. Leaders: Michael O'Connell, David Drew, Mike Simms and others.
Night at Galway.

Thursday April 7th Limestone lowlands of east County Galway

After visiting drumlins on the outskirts of Galway city, drive north to the limestone lowlands : karst landscapes and palaeolakes, turloughs, archaeology, Pliocene lignites, and landscape evolution.

Evening: QRA Annual General Meeting

Night at Galway.

Friday April 8th. Connemara

Drive west into the classic Connemara landscape. Landscape evolution, glacial history, nearshore marine sediments (cool water carbonates) and archaeology. Leaders: Michael Gibbons, Alan Lees, Michael O'Connell, Pete Coxon and others
Night at Clifden.

Saturday April 9th. Killary Harbour and Clew Bay

Head north from Clifden to the mountain scenery of central western Ireland; glacial marine (?) deltas at Letterfrack and Leenane. Then drive on to Castlebar and west into Clew Bay: drumlins, ice limits and moraines. Return to Clifden via Murrisk and Killary Harbour. Leaders: Geoff Thomas, Jane Hart, Bob Devoy, Pete Coxon, Michael Gibbons.

Night at Clifden

Sunday April 10th

Drive back to Galway to start the return journey

See the registration form in the centre of this Circular for booking details.

<p>8. JOINT MEETING WITH THE INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS ON GLACIAL SEDIMENTARY PROCESSES AND PRODUCTS 23-27TH AUGUST 2005, UNIVERSITY OF WALES, ABERYSTWYTH</p>
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Sponsor: **International Association of Sedimentologists (IAS)**
Co-sponsors: **International Commission of Snow and Ice (ICSI)**
International Glaciological Society (IGS)
Antarctic Climate Evolution (ACE); Scientific Commission on Antarctic Research
Quaternary Research Association (QRA)
British Geological Survey

The aim of this conference is to promote dialogue between researchers in the fields of contemporary glacial processes, glacial sedimentology and ice sheet modellers in order to advance these fields in an integrated way. Contributions are invited from researchers working on all aspects of glacial sedimentary processes and products in glaciomarine, glaciolacustrine and terrestrial settings, from Archaean times to the present day. Contributions addressing the following themes are particularly encouraged:

1. Contemporary glacial processes

- Debris entrainment and transport by contemporary glaciers
- Depositional processes at contemporary glaciers
- Role of thermal regime in depositional processes
- Ice-marginal, glaciolacustrine and glaciofluvial processes and sediments
- Glacial processes and products in fjordal, continental shelf and deep ocean environments
- Subglacial and proglacial deformation of sediments
- Tectonic controls on glacial sedimentation
- The preservation potential of glacial successions
- The role of catastrophic events in glacial sedimentary environments
- Linking glacial sediments to glacier dynamics

2. The sedimentary record of past glacial systems

- Case studies from a process perspective
- Recognising styles of glaciation in the geological record
- Reconstructing former glacier thermal regimes from sedimentary products
- The role of tectonic setting in glacial sedimentology
- Using mineralogical, geochemical and biological criteria to define glacial sedimentary regimes
- Glacier-volcano interactions
- Applied aspects, e.g. application of glacial sedimentology to hydrocarbon and mineral exploration
- Sedimentary evidence for/against the “Snowball Earth” hypothesis

3. Modelling glacial depositional systems

- Quantitative aspects of sediment delivery to continental margins
- Seismic stratigraphy of glaciated continental margins
- Numerical modelling of former ice sheets and glaciers constrained by geological data
- Modelling interaction between ice streams and subglacial environments, in particular the influence of deformable sediment on ice flow
- Modelling subglacial erosion, sediment transport and long-term landscape evolution

Publication

Delegates are invited to contribute papers to an IAS Special Publication arising from the conference. Papers should be submitted to the Editors by 1 August 2005. Refereeing will follow the guidelines used for the IAS journal *Sedimentology*. Reviewing will take place over the following 6 months. Publication is anticipated by September 2006. Deadlines will be strictly adhered to.

Web site <http://www.aber.ac.uk/visitors/glaciology/>

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FIELD EXCURSIONS

5/6 day pre-conference field excursion to glaciers of southern Iceland, led by Andy Russell (Newcastle)
2 day post-conference trip on glacial sediments and landforms in West Wales
1 day: Castles (Caernarfon, Harlech) and Darwin's glacial landscapes in Snowdonia, North Wales
1 day: Coastal scenery and St David's Cathedral, South Wales

9. QRA ANNUAL POSTGRADUATE SYPOSIUM UNIVERSITY OF PLYMOUTH, AUGUST 31ST – SEPT 2ND

Organisers: Katie Szkornik and Becky Turner, School of Geography, University of Plymouth
E-mail: QRA2005@plymouth.ac.uk

We invite all postgraduate students working within the Quaternary sciences to attend a meeting at the School of Geography, University of Plymouth. The meeting will provide an opportunity for you to discuss your research in a relaxed and informal atmosphere. Over the course of the three days delegates will be given the chance to present their work via a series of oral and poster presentations. There will also be an opportunity to experience the South West first hand through a stimulating field day and a full programme of social activities.

Please note the following deadlines, especially with regard to booking accommodation.

Registration deadlines:

Registration with accommodation:	30th May 2005
Registration only:	30th June 2005

Abstract deadline:	30th June 2005
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Further details, costs and registration form can be found online at: www.geog.plym.ac.uk/QRA2005

10. QRA SHORT FIELD MEETING TO ROSSENDALE FOREST AND GREATER MANCHESTER, 8TH-11TH SEPTEMBER, 2005
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Organisers: Dick Crofts, Ed Hough, Adrian Humpage and Simon Price, British Geological Survey, Keyworth.

Provisional Programme

Travel to Oldham.

Travel by car - Five miles from Junction 22 of M62. Parking for c. 15 cars at hotel. Other free public car park close by (150 metres).

Travel by Rail - The nearest railway station at Shaw and Crompton, 2 miles from Grains Bar. North West First trains run 4 trains an hour from Manchester Victoria or Rochdale. Journey time 20-30 minutes from Manchester, 10 minute from Rochdale. Pick-ups at Shaw and Crompton can be arranged.

Day 1 (Thursday 8th September)

Arrival, dinner and evening introductory talk

Day 2 (Friday 9th September) – Meltwater channels, buried channels and associated deposits – Rossendale Forest. Leaders Dick Crofts, Ed Hough and Adrian Humpage

- Cliviger Gorge/Walsden Channel – major “low-level” subglacial melt-water channel at limit of Devensian ice sheet transferring meltwater from west to east through Pennines into Yorkshire Calder; associated landslips – overview from car park and high level route
- Shedden Plantation - Limestone boulder rich Ribblesdale Till (?pre Devensian) deposited in a channel fill and site of 18th century lime industry locally referred to as Hushings. Dean Scout to examine prominent bog burst/solifluction lobe - 2km walk round trip
- Haslingden Landslips – Evidence for pro-glacial lake, “Lake Rawtenstall”, with laminated clay having caused massive landslide - 0.5km round trip walk
- Waterfoot Gorge- Outlet of “Lake Rawtenstall” cut rock gorge - 0.5km round trip walk
- Rushy Hill – succession of Glacial Drainage Channels cut into sandstone dip slope during early southerly retreat stage of ice from Rossendale Uplands - 1km round trip walk

Day 3 (Saturday 10th September) – Glacial deposition during deglaciation of the Manchester embayment. Oldham/Greater Manchester Leaders Dick Crofts, Ed Hough, Simon Price and Adrian Humpage

- Tandle Hill–Crompton Moraine – northeast-southwest orientated moraine ridges with south facing ice-contact slope and ?esker and surrounding kettle/kame complex - 3km round trip walk
- Slattocks- Fluvioglacial sheet deposits/kame terrace with neo-tectonics overlying Lodgement/ Deformation Till (?Stockport Formation) - 1km round trip walk
- Heaton Park-Middleton-Chadderton Moraine and Medlock Valley – northeast - southwest orientated moraine ridges with south facing ice-contact slope adjacent to valley sandar. Latter probably deposited in Loch Lomand Stadial - 3km round trip walk
- Boggart Hole Clough – ?glaciolacustrine deposition with stone-free clay overlying massive sand unit formerly classified as Upper Boulder Clay/Middle Sands of the tripartite succession -1km round trip walk
- Evening talk on 3D mapping, interpretation and Quaternary history of Manchester City Centre

Day 4 (Sunday 11th September) – Glacial deposition during deglaciation of the Manchester embayment (continued) and Flandrian deposits. Greater Manchester/Chelford. Leaders: Dave Wilkinson, Peter Worsley, Simon Price and Adrian Humpage

- Morleys Sand Pit – Sandpit in Permo-Triassic sandstone dissected by buried/tunnel valley.
- Chat Moss – Late Devensian/Flandrian lake sediments and peat development – Pollen, history and restoration
- Chelford Sands – Early Devensian fan with distinctive soil horizon and stratotype for Chelford Interstadial

See booking form in this circular and on website

<p>11. JOINT MEETING WITH THE MARINE STUDIES GROUP OF THE GEOLOGICAL SOCIETY BIOGEOCHEMICAL CONTROLS ON PALAEOCEANOGRAPHIC PROXIES 3-4 OCTOBER 2005, BURLINGTON HOUSE, GEOLOGICAL SOCIETY, LONDON</p>
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First announcement

Convenors: Dr Rachael James (Open University), Dr Bill Austin (St Andrews), Dr Leon Clarke (School of Ocean Sciences, Wales) and Dr Ros Rickaby (Oxford)

The aim of this meeting is to bring together palaeontologists, geochemists and palaeoceanographers who can contribute evidence that must be considered together to better constrain proxies that are used for palaeoclimate reconstruction. The information that is provided by these proxies is crucial for the evaluation of climate models. As these models are the ultimate tool for predicting climate response to greenhouse gas build-up, a meeting that will help to elevate confidence in them is imperative. The meeting will consist of three sessions.

(1) Palaeontological studies. The aim of this session is to focus on the link (ecology-palaeoecology) between modern and fossil organisms - how well do we understand the modern biology and how does an improved understanding aid interpretation of the palaeo-record? Speakers include Joan Bernhard (WHOI, Kate Darling (Edinburgh), Andy Gooday (SOC) and Jeremy Young (NHM, London).

(2) Biomineralization. This session aims to develop a mechanistic understanding of the "vital effects" imposed upon trace metal and isotopic proxies captured in biogenic carbonates. Speakers include Colin Brownlee (Plymouth) and Bob Williams.

(3) Constraining proxy relationships. This session will focus on experimental (field and laboratory) and theoretical studies of those factors that influence elemental and isotopic proxies, i.e. temperature,

salinity, carbonate ion etc., as well as assessment of the impacts of post-depositional dissolution and diagenesis on primary proxy relationships. A key element will be validation of novel proxies. Speakers include Anton Eisenhower (GEOMAR), Harry Elderfield (Cambridge), Andreas Mackensen (Alfred Wegner Insitut), Paul Pearson(Cardiff) and Ann Russell (UC Davis).

Contact: Dr Bill Austin (St Andrews) for further information wena@st-andrews.ac.uk

12. QRA RESEARCH AND CONFERENCE GRANTS

Details of all QRA grants and application forms are available on the website (www.qra.org.uk).

The Bill Bishop Award

The award should be open to registered **full or part-time M.Phil/PhD students** but not to one year MSc students, to those taking a taught course or to undergraduates. It is not a requirement for applicants to be current members of the QRA but any applicant accepting an award must join the Association at least for the duration of the research (one year minimum). The award is designed 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

One award will be made annually in the order of £800 and can be used for any purpose deemed suitable by the awards panel. Typical claims might be to fund travel expenses to a field site or to hire equipment. Successful applicants will be expected to provide a statement of expenditure within 3 months of completing their field research and to submit a full-length article to *Quaternary Newsletter* in the 12 months that follow, which will be subject to the normal refereeing procedure. Members intending to apply for further awards should note that their applications will not be considered until at least 12 months have elapsed since receipt of the report resulting from any previous award. Suitable acknowledgement should be made to the QRA and the Bill Bishop Award in any resulting publications. The next closing date is **15th January 2006**.

Lewis Penny Medal

Nominations are invited for the Lewis Penny Medal for 2006 with a closing date of 15th November 2005. A nomination form is available on the QRA web site – www.qra.org.uk.

The Medal and £100 prize money will be awarded to a young (normally less than 35 years old) or new research worker, who has been a member of the QRA for at least 3 years, and who has made a significant contribution to the Quaternary stratigraphy of the British Isles and its maritime environment. This is notionally taken to mean Britain, Ireland and surrounding offshore areas but adjacent areas of continental Europe that have relevance to the British Isles may also be taken into account. Quaternary Stratigraphy is considered here to include both Pleistocene and Holocene records and to be broad-based, encompassing lithostratigraphy, chronostratigraphy, biostratigraphy or other relevant fields.

The award will be presented at the Easter AGM. The successful candidate will be invited to receive their award in person from the President. Travel costs and one night's accommodation (if required) will be made available from QRA awards funds. The recipient will be expected to submit a short summary of his or her research for publication in *Quaternary Newsletter*.

QRA-RLAHA Luminescence Dating Award

This award has been 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 once a year and the deadline for application is January 15th. Due to the length of time required to process the samples, the scheme is open to Ph.D students only, and only one award will be made to each successful applicant during their degree. It is not open to undergraduate researchers or to those registered for a Masters degree. To be eligible for the scheme you must have been a QRA member for **at least 6 months by the time of application** and must **not** already hold a doctoral degree or a tenured academic position. Applicants must read the following guidelines carefully before applying:

1. The successful applicant will be expected to take the samples themselves in the field following prior consultation with RLAHA. RLAHA will supply full sampling kit and instructions as required.
2. Although it is possible to produce dates from samples taken without *in situ* gamma spectrometry, spectrometer readings should ideally be taken in order to obtain more reliable and high-precision dates. If this course is adopted, this will require the presence of a member of staff from RLAHA on site for one day. The applicant should therefore ensure that they have funding to pay the travel expenses (and one night's basic accommodation, if required) for a RLAHA staff member to visit their site for a day to take measurements (UK sites only).
3. The successful applicant has the option to process all or part of the samples themselves in Oxford, under the supervision of RLAHA, if this is considered to be a desirable aspect of their Ph.D training. In this case, the applicant should ensure that they have adequate funds to support their stay in Oxford for the required period. Alternately, RLAHA will undertake to process all the samples and will provide the applicant with the dates.
4. Applicants for this award may **not** apply to the New Research Workers Awards for the same project in the same year.

A letter of support from the applicant's PhD supervisor must accompany the application. Successful applicants will be expected to submit a brief report (500 words) for publication in *Quaternary Newsletter* during the 12 months following the award. Applicants are encouraged to submit full-length articles to *Quaternary Newsletter*, which will be subject to the normal refereeing procedure for *QN* articles. Applicants submitting full-length articles are not required to submit the brief report in addition. RLAHA and the QRA should be acknowledged in all resulting publications.

Quaternary Research Fund

The Quaternary Research Fund is available to all members of the QRA of at least **one year's** standing, irrespective of age and status, to foster research in any area of Quaternary studies (**NB postgraduates should apply to the New Research Workers Awards**). Grants will normally be in the range £50 to £500 and can be used for any purpose deemed suitable by the awards panel. Typical claims might be to fund field expenses, purchase dates (although applications for radiocarbon dates are normally expected to be routed through NERC), hire equipment to clean sections etc. Successful applicants will be expected to submit a brief report (500-800 words) for publication in *Quaternary Newsletter* during the 12 months following expenditure of the grant. Applicants are encouraged to submit full-length articles to *Quaternary Newsletter*, which will be subject to the normal refereeing procedure for *QN* articles. Applicants submitting full-length articles are not required to submit the brief report in addition. Members intending to apply for further awards should note that their applications will not be considered until at least 12 months have elapsed since receipt of the report resulting from any previous award.

New Research Workers' Awards - INCREASED MAXIMUM AWARD OF £500

Within the QRA grants, funds are set aside for younger research workers in Quaternary science. A similar scheme to this has been running successfully for over ten years and has supported many postgraduate research activities. Typical awards are to support field expeditions, geological surveys, coring activities, visits to laboratories, purchase of essential field equipment and laboratory analyses. These awards are aimed at researchers studying for higher degrees and preference will be given to those who have no source of fieldwork funding or whose access to such funds is limited. To be eligible for the scheme you must have been a QRA member for **at least 6 months by the time of application** and must **not** hold a doctoral degree or a tenured academic position. A letter of support from the applicant's PhD supervisor must accompany the application. The scheme is not open to undergraduate researchers. Grants are normally for sums up to £500. Successful applicants will be

expected to submit a brief report (500-800 words) for publication in *Quaternary Newsletter* sometime during the 12 months following expenditure of the grant. Applicants are encouraged to submit full-length articles to *Quaternary Newsletter*. These will be subject to the normal refereeing procedure for *QN* articles. Applicants submitting full-length articles are not required to submit the brief report in addition. Members intending to apply for further awards should note that their applications will not be considered until at least 12 months have elapsed since receipt of the report resulting from any previous award.

Quaternary Conference Fund

The Quaternary Conference Fund is available to all members of the QRA, of at least one year's standing, to assist attendance at conferences and field meetings. Priority will be given to those with limited alternative sources of funding (particularly postgraduate students). Priority will also be given to QRA sponsored conferences and field meetings. Applications from postgraduates must be accompanied by a letter of support from their supervisor. Grants will normally be in the range £50-250. Successful applicants will be required to provide a statement of expenditure and activities undertaken **within 3 months** after the event has taken place. Members intending to apply for further awards should note that their applications will not be considered until at least 12 months have elapsed since receipt of the statement resulting from any previous award.

General rules and procedures

1. No more than one award in all categories will be made to an individual QRA member in any one calendar year (see also note 5 below).
2. All applications will be considered by a panel drawn from the QRA Executive Committee, and normally consisting of a nominated ordinary member, the Vice President and the Treasurer.
3. For administrative simplicity, applications for the awards can be submitted at any time (unless specified above) and will be considered three times a year. Deadlines are 15th January, 15th May and 15th September. Results of each grant round will normally be available within 1 month of the deadline.
4. Successful applicants who do not provide the written reports requested cannot be considered for future awards until the reports have been received.
5. No further applications will be considered until 12 months have elapsed from the time of receipt of written reports or statements of expenditure resulting from previous awards.
6. Completed application forms (available at www.qra.org.uk) should be submitted as hard copies or electronically to:

Dr Danielle Schreve
Department of Geography
Royal Holloway
University of London
Egham
Surrey
TW20 0EX
Email: danielle.schreve@rhul.ac.uk

13. POSTGRADUATE QRA MEETINGS AWARDS

Aim:

These awards are provided to enable a greater number of postgraduates to attend QRA meetings.

Eligibility:

Any registered postgraduate who has been a member of the QRA for more than **6 months** is eligible to apply for funding. Postgraduates are not permitted to apply for funds to attend the QRA Postgraduate Symposium, since this meeting already receives financial support from the QRA.

Eligible costs:

The awards normally cover 50% of the costs of the meeting (excluding travel to the venue). The other 50% must be found from other sources.

Number of awards:

There will be up to a total of 15 awards available per annum normally to be distributed as follows:

- six awards for the Annual Field Meeting
- six awards for the Annual Discussion Meeting
- three awards for the Short Field Meeting

Application procedure:

1. Applications for the awards should be made to the Awards Officer on the Postgraduate QRA Meetings Awards form.

2. Applications should be made by the following deadlines:

To attend Easter Annual Field Meeting or May Short Field Meeting: **January 15th**

To attend September Short Field Meeting: **May 15th**

To attend January Annual Discussion Meeting: **September 15th**

3. A brief supporting letter from your supervisor must be attached.

Decisions on the applications will be made by the QRA Awards Officer (currently Danielle Schreve, Royal Holloway) in discussion with the meeting organisers. The main criteria for distribution of awards will be a) relevance to research topic, b) financial need. Decisions will be made approximately 1 month after the deadline.

Danielle Schreve

See application form on the QRA website (<http://www.qra.org.uk>)

14. JOURNAL OF QUATERNARY SCIENCE
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John Wiley offers *Journal of Quaternary Science* to members of the QRA at £58.00 per year for the eight issues of 2005. Postgraduate member rates are even lower at £29 for the year. This represents outstanding value for money for the Association's major international journal.

The Executive Committee of the QRA urges all members to consider supporting JQS, the journal of the QRA. A subscription to JQS has always been a very good deal and an excellent means of extending your support for the Association. The Association gains financially from JQS subscriptions and this is an important means of generating funds for members' scientific activities (see the section on funding). Therefore, we hope that you will give the matter of a JQS subscription very serious consideration.

For further subscription details, go to the subscription form on the QRA website (<http://www.qra.org.uk/journals.htm#JQS>).

15. QUATERNARY SCIENCE REVIEWS AND OTHER JOURNALS
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Elsevier offer *Quaternary Science Reviews* to members of the QRA at reduced rates.

For further subscription details contact Elsevier Science, Regional Sales Office, Customer Support Department, P.O. Box 211, 1000 AE Amsterdam, The Netherlands. Tel: +31 20 485 3757; Fax: +31 20 485 3432; e-mail: nlinfo-f@elsevier.nl

The Holocene and *Boreas* are also available at lower rates. Full details and contacts are available on the journals page of the QRA website - <http://www.qra.org.uk/journals.htm#JQS>.

16. CALENDAR OF QRA MEETINGS

NOTE: Offers to arrange meetings are always welcome and should be forwarded to the Meetings Officer, Dr Mark Bateman, Department of Geography, University of Sheffield, Western bank, Sheffield, S10 2TN; Tel: 0114 2324784; Fax: 0114 2797912; E-mail: m.d.bateman@sheffield.ac.uk

9th March 2005

Joint Meeting with the Engineering Group of the Geological Society

Venue: Geological Society, London

Organiser: Paul Fish

Email: FishP@halcrow.com

Details: See this circular for programme and timing (no pre-booking necessary)

5-9th April 2005

QRA Annual Field Meeting and AGM West Ireland (joint meeting with IQUA)

Venue: Galway City

Organisers: Pete Coxon and Michael O'Connell

Contact: Pete Coxon: pcoxon@tcd.ie

Details: See this circular for details and booking form

23-27th August 2005

Joint meeting with the International Association of Sedimentologists on Glacial Sedimentary Processes and Products

Venue: University of Wales, Aberystwyth

Organisers: Michael Hambrey, Neil Glasser, Bryn Hubbard

Contacts: mjh@aber.ac.uk, nfg@aber.ac.uk, byh@aber.ac.uk

Website:

8th-11th September, 2005

Short field meeting to Rossendale Forest and Greater Manchester

Venue: Manchester

Organisers: Dick Crofts, Ed Hough, Adrian Humpage and Simon Price (BGS, Keyworth)

Contact: r.crofts@bgs.ac.uk

January 2006

QRA Annual Discussion Meeting 'Isotope (radiogenic, cosmogenic and stable) and noble gas analysis in Quaternary research.'

Venue: Glasgow

Organiser: Prof Marian Scott, Prof Paul Bishop (University of Glasgow), Prof Tony Fallick, (SUERC), Dr Charlotte Bryant (NERC); Prof Mike Summerfield (Edinburgh).

Contact: marian@stats.gla.ac.uk

April 2006

Annual Field Meeting, Somerset

Venue: Bath Spa University

Organisers: Chris Hunt and Simon Haslett

Contact: c.o.hunt@hud.ac.uk

May 2006

Short field Meeting, Isles of Scilly

Venue: TBA

Organiser: James Scourse, Rob Scaife

Contact: James Scourse, j.scourse@bangor.ac.uk

**Regular updates and details of meetings of interest to the QRA are available, along with links to sites of interest to Quaternary scientists, on the WWW at: <http://www.qra.org.uk> ,
Web master: h.binney@ucl.ac.uk**

16. OTHER MEETINGS

A new section of the web site includes links to other meetings of interest to QRA members. You can find this at http://www.qra.org.uk/more_meet.htm. This is not intended to be comprehensive but if you would like to promote a non-QRA meeting to QRA members, please send in details. Recent additions to the page are:

- History of Geological Speleology and Cave Finds, 21st to 24th April 2005, Torquay (History of Geology Group, Geological Society)
- MESO 2005: The 7th International Conference on The Mesolithic in Europe, 29th August - 2nd September 2005, Belfast.

QRA Circular compiled for QRA members by

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