



Quaternary Research Association

**Minutes of the 48<sup>th</sup> Annual General Meeting of the Quaternary Research Association held at Newcastle University on 3<sup>rd</sup> January 2013 at 1800 hours.**

Subject to final approval at the Annual General Meeting in January 2014

The President, Professor Dan Charman chaired the meeting, which was attended by 45 members of the Association:

Ian Candy, Richard Staff, David Evans, Graeme Swindles, Jenny Stanford, Antonia Law, Alison MacLeod, Ian Matthews, Anna Bourne, Sallie Burrough, Andrew Henderson, Louise Taylor, Ian Fairchild, Alice Milner, Emma Pearson, John Lowe, Antony Long, Rick Battarbee, Peter Allen, Siwn Davies, Gareth Tye, Georgina King, Adam Griggs, Helen Mackay, Gine Moseley, Sean Pyle-O'Donnell, Neil Ross, Eleanor Maddison, Louise Callard, Natasha Barlow, Erin McClymont, Geoff Duller, Tim Dawson, Andrea Waitz, Rosemary Sterling, Rachel Smedley, Julie Durcan, Melissa Chapot, Benjamin Petrick, Christopher Ramsey, Takeshi Nakagawa, Trevor Faulkner, Steve Juggins, Dan Charman (Chair), Peter Langdon (minutes).

**1. Welcome and apologies for absence**

The President welcomed members to the meeting. Apologies were received from Sven Lukas, Eleanor Brown, Cynthia Burek, Richard Waller, Barbara Silva, Emrys Phillips, Mary Gagen, Danille Pearce, Julia McCarroll, Tom White, John Gordon and Danille Schreve.

**2. Minutes of the 47<sup>th</sup> Annual General Meeting**

These were accepted as a correct record of the meeting.

**3. Matters arising from the minutes**

There were no matters arising from the minutes.

**4. President's report**

- a) The President thanked a number of individuals who have made excellent contributions to the QRA throughout the year. In particular he thanked all those who have organised and contributed to QRA meetings; the Editor-in-Chief, Assistant and Regional Editors and members of the Editorial Advisory Board for JQS; and the members of the Executive Committee who had completed their terms of office – Peter Allen (Treasurer), Cynthia Burek (Conservation), Siwan Davies (Awards), and David Evans (Vice-President).
- b) QRA 2014 – the 50<sup>th</sup> Anniversary. The President announced that there will be a special meeting in the second week of January to commemorate the 50<sup>th</sup> Anniversary with a theme on Quaternary Revolutions. The QRA hope to be able to subsidise the meeting for all postgraduates.

**5. Honorary Members of the QRA**

The President announced that three members had been nominated by the Executive Committee for Honorary Member status: John Gordon (SNH), John Lowe (RHUL), and Jon Merritt (BGS). These nominations were accepted unanimously by the membership and were announced during the meeting with a citation that will subsequently appear in QN.

## 6. Annual Report of the Secretary

This report covers the period January - December 2012.

### a. Membership

Total membership of the Association stands at **1164**, and this continues the upwards trajectory over the last 4 years.

Census date Category	29/3/06	29/3/07	01/01/08	01/01/09	21/12/10	19/12/11	29/12/12	Change (11-12)
Ordinary Members	599	562	573	545	575	581	602	+21
Postgraduate Members	231	223	269	269	275	331	343	+12
Unwaged/Retired Members	126	131	137	140	145	149	141	-8
Honorary members	15	16	19	22	28	28	29	+1
Institutional members*	40	36	41	33	29	29	29	0
Corresponding members	14	14	14	16	19	19	20	+1
<b>Total Membership</b>	<b>1025</b>	<b>982</b>	<b>1053</b>	<b>1025</b>	<b>1071</b>	<b>1137</b>	<b>1164</b>	<b>+27</b>

\*Includes copyright member

Subscriptions for 2012 were unchanged at £20, with a reduced rate of £10 for students and unwaged members. The institutional membership rate is £35. The online joining facility has been well used, although some members still forget to renew their membership, which Val Siviter chases up. On behalf of the QRA I would like to thank Val Siviter for all the hard work she does for the Association, notably with management of the membership database.

### Honorary Members

Two distinguished scientists were elected as Honorary Members of the Quaternary Research Association at its AGM, held by the University of Southampton in the New Forest in January 2012; Doug Harkness (SUERC) and Brian Moorlock (BGS). Citations were published in *Quaternary Newsletter*, number 126 (February 2012). A list of Honorary Members of the QRA can be found on the website: [www.qra.org.uk](http://www.qra.org.uk)

### b. Meetings

- i) **Annual Discussion Meeting: Quaternary Science and Society** 4-6<sup>th</sup> January 2012.  
Organisers: Pete Langdon & PLUS (Palaeoecology Laboratory University of Southampton) staff and postgraduates.  
Report: Quaternary Newsletter, no. 127 (June 2012)
- ii) **Field Meeting: Caves of Northern England (Jointly with the British Cave Research Association)** 22-25<sup>th</sup> June 2012.  
Organisers: Hannah O'Regan and Trevor Faulkner.
- iii) **17th Annual QRA Postgraduate Symposium**, 29-31<sup>st</sup> August 2012.  
University of Aberdeen  
Organisers: Paul Ledger, James Lea, David Ashmore, Anke Kuttner & Ilse Kamerling
- iv) **Field meeting: Holocene Tephrochronology and its application in SW Iceland** 15-21<sup>st</sup> September 2012.  
Organisers: James Scourse/Jon Eiriksson
- v) **QRA Workshop: Quaternary Extinctions (in association with QUAVER and the Natural History Museum)** 19<sup>th</sup> September 2012.  
Organisers: Adrian Lister and Tony Stuart.

The QRA also co-sponsored 2 events in 2012:

- i) **Heinrich Events, Land, Ice, Ocean** 18-19th June 2012.  
National Oceanography Centre, Southampton  
Organisers: Jennifer Stanford & Ian Bailey  
Report: Quaternary Newsletter, no. 128 (October 2012)

- ii) **50 Pressing Questions in Palaeoecology** 13-14<sup>th</sup> December 2012.  
Department of Zoology, University of Oxford  
Organisers: Alistair Seddon, Ambroise Baker, Anson Mackay

The **John Wiley Lecture** for 2012 was delivered during the Annual Discussion Meeting held by the University of Southampton in the New Forest by Tom Webb III (Brown University) on “*Climatically induced vegetation changes: sorting signal from noise*”.

The Executive Committee extends its thanks to the many people who organised meetings, supported the meetings through their participation, and who reported on these activities in *QN* for the information of the wider membership.

### c. Publications

#### *Quaternary Newsletter:*

3 issues: 126 (Feb 2012), 127 (June 2012), 128 (October 2012)  
Editor: Dr Sven Lukas (Queen Mary, University of London)

#### *Journal of Quaternary Science* ([http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-1417](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1417))

Volume 27, 9 issues, containing 98 research papers (including 5 rapid communications, one discussion article and one special issue on *Western Pacific Palaeoceanography and Palaeoclimatology: land-sea linkage and variability of centennial to orbital scales*).  
Editor: Professor Antony Long (University of Durham)

#### **QRA Field Guides**

Two field guides were published in 2012: *Cave archaeology and karst geomorphology in northwest England* (O'Regan and Faulkner) and *Holocene tephrochronology and its application to southwest Iceland* (Caseldine and Scourse) were produced to accompany QRA field meetings in 2012.

The publication of field and technical guides continues to form an important part of the Association's activities and play a major role in raising the profile of the QRA and promoting Quaternary science research. Suggestions for topics for new technical guides or localities for field meetings and accompanying guide books and volunteers to write/edit them are most welcome.

See the Publications Secretary's report for further details.

#### d. QRA Grants and Awards

During 2012, **£15,806** was disbursed by the QRA to its members under its awards schemes.

Fund	No. of applications		No. funded	Total monies requested (£)	Total monies awarded (£)	% funded <sup>1</sup>
<b>NRWA</b>	Jan	5	4	2394.4	2150 <sup>2</sup>	90
	May	6	6	3560	3125	88
	Sept	3	3	2500	1760	70
	<b>Total</b>	<b>14</b>	<b>13</b>	<b>8454.4</b>	<b>7035</b>	83
<b>QCF</b>	Jan	6	4	1400	1275	91
	May	8	7	2781	2275	82
	Sept	3	2	690	690	100
	<b>Total</b>	<b>17</b>	<b>13</b>	<b>4871</b>	<b>4240</b>	87
<b>QRF</b>	Jan	1	1	600	550	92
	May	3	1	560	475	85
	Sept	4	4	1822.07	1800	99
	<b>Total</b>	<b>8</b>	<b>6</b>	<b>2982.07</b>	<b>2825</b>	95
Subtotal	<b>39</b>		<b>32</b>	<b>16307.47</b>	<b>14100</b>	86
<b>ADM 13</b>	2		2	220	220	100
<b>FM 12</b>	2		2	1082	686	63
<b>Bishop</b>	2		1	1760	800	
<b>RLAHA</b>	1		1	–	–	
<b>QUB_C14</b>	9		3	-	-	
<b>Total</b>	<b>55</b>		<b>41</b>	<b>19369.47</b>	<b>15806</b>	82

<sup>1</sup> Refers only to eligible applications

<sup>2</sup> One award returned to QRA.

#### Special grants

The **Bill Bishop Award** was awarded to Marie Busfield (Royal Holloway) who requested assistance for fieldwork in north Norfolk to examine Quaternary glaciectonites as an analogue for deformation structures in Neoproterozoic glacial sediments.

For the first time, three QRA-<sup>14</sup>CHRONO radiocarbon dating awards have been presented. Students wishing to apply for these awards should submit their applications by the May and Sept 15<sup>th</sup> deadline.

#### QRA Prizes

Dr Graeme Swindles (University of Leeds) has been awarded the **Lewis Penny medal 2013**.

Professor Rick Battarbee (University College London) has been awarded the **James Croll medal 2013**.

Full details of all QRA grants and awards are available on the QRA website:

<http://www.qra.org.uk/grants>

<b>QRA AWARDS 2012</b>			
<b>NRWA</b>			
<b>Name</b>	<b>Institution</b>	<b>Project title</b>	<b>Awarded (£)</b>
Tina Godfrey	Leicester	Fieldwork to the Amazon to collect tree cores from permanent forest plots near Manaus, Brazil. Stable carbon isotopes in Amazonian trees and their response to contemporary climate change.	550
Kimberley Davies	Southampton	Fieldwork in Fairbanks, Alaska to collect lake sediment cores and modern chironomid larvae.	550
Angela McAvoy-McClumpha	Stirling	Reconstruction of Holocene climate and defining the precipitation record for the North Atlantic region	500
Sarah Ward	Southampton	Lead and Caesium dating of three cores from soda lakes in the Kenyan Rift Valley.	550
Geoff Hill	QUB	Can we determine open-ness in the palaeoecological record? Interpreting Holocene landscapes using modern analogues.	525
Paul Ledger	Aberdeen	Fieldwork in the Hornstrandir peninsula, north-west Iceland: evaluation of palaeoecological potential in north-west Iceland	500
Ilse Mirjam Kamerling	Aberdeen	Pb-210 dating of a Sami renvall (reindeer pen) near Jokkmokk, northern Sweden	525
Christopher Darvill	Durham	The timing and nature of Quaternary glacial and environmental change in Tierra del Fuego, southern South America	525
Tom Hurst	Sheffield	The origin and significance of ogives on glaciers	525
Eleri Harris	Swansea	Research expedition investigating marginal glaciation in Jotunheimen, Norway, and the interrelation between climate, topography and glacier dynamics	525
Claudia Mansilla Andrade	Stirling	Reconstructing the Late-glacial/Holocene vegetation history of Fuego-Patagonia (53-55°S)	580
Will Christiansen	Durham	The origin of stratified diamicts in subglacial and submarginal ice sheet settings: A case study of the Cumbrian coast, UK.	600
Jennifer Sherriff	Royal Holloway	Analysis of modern mollusc shell and water $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ composition from four lowland sites	580
<b>QCF</b>			
Peter Abbott	Swansea	Holocene Tephrochronology and its Applications in Southwest Iceland, Iceland	325
Natasha Barlow	Durham	Sea-Level and Adjustment of the Land: Observations and Models (SLALOM), Athens, Greece.	325
Anna Bourne	Swansea	Holocene tephrochronology and its applications in Southwest Iceland, Iceland.	325

Lauren Davies	Royal Holloway	QRA Field Meeting: Holocene tephrochronology and its applications in SW Iceland	300
Samantha Allcock	Plymouth	12th International Paleolimnology Symposium (IPS2012), Glasgow.	325
William Fletcher	Manchester	IPC XIII/IOPC IX 2012 (International Palynological Congress XIII/International Organisation of Palaeobotany Conference IX), Tokyo, Japan.	325
Bethan Davies	Aberystwyth	SCAR (Scientific Committee for Antarctic Research) 5th Open Science meeting	325
Rob Wilson	St Andrews	AGU – Fall Meeting, San Francisco December 2012.	325
David Small	St Andrews	Heinrich Events: Land, Ice and Ocean Workshop 2012 National Oceanography Centre, Southampton	325
Helen Roe	QUB	International Paleolimnology Symposium IPS2012, Glasgow	325
Hannah Mathers	Glasgow	Karhaus Summer School on Ice Sheets and Glaciers in the Climate System, Karhaus, Northern Italy	325
Kate Johnson	QUB	VII Southern Connection Congress, University of Otago, Dunedin, New Zealand.	350
Siddharth Prizomwala	University of Baroda	2nd Young Scientist Meeting and 4th Open Science Meeting PAGES, Goa, India.	340

## QRF

Iain Robertson	Swansea	The baobab as a resource for reconstructing the movement of the ITCZ over the last 1000 years.	550
Iestyn Barr	QMUL	Can moraine surface slope angles be reliably measured from digital elevation model data?	475
Ian Candy	RHUL	“Abrupt climate change during Marine Isotope Stage 11: Are 8.2 ka-like events common in previous interglacials?”	500
Edward Connell	Independent	Sedimentological and stratigraphic analysis of a probable Late Middle - Late Pleistocene sequence at Moss Grey Quarry (NK 064 425), Buchan, Aberdeenshire.	220
Alastair Graham	BAS	Holocene history of Nordenskjöld Glacier, South Georgia, sub-Antarctica	500
Katherine Selby	York	Holocene relative sea-level change along the Cumbrian coast	580

## PMA (Field meetings)

Eliza Cook	Swansea	Holocene tephrochronology and its applications in Southwest Iceland, Iceland.	343
Adam Griggs	Swansea	Holocene tephrochronology and its applications in Southwest Iceland, Iceland.	343

<b>PMA (ADM 2013)</b>			
Amy Jeffrey	Oxford	ADM: Leads and lags, correlation, comparison and causation	115
Gareth Tye	RHUL	ADM: Leads and lags, correlation, comparison and causation	105
<b>BILL BISHOP</b>			
Marie Busfield	Royal Holloway	Fieldwork in north Norfolk examining Quaternary glaciectonites as an analogue for deformation structures in Neoproterozoic glacial sediments	800
<b>QUB<sup>14</sup> CHRONO AWARD</b>			
Thomas Lawrence	Durham	Constraining the timing and magnitude of the rapid sea-level jumps that preceded the 8.2 ka climate cooling	
Samantha Stein	Sheffield	Understanding Torksey: a landscape, geoarchaeological and micromorphological approach to Viking overwintering camps	
Michaela Radl	QMUL	Recent and Holocene sea-level reconstruction by investigating saltmarsh meiofauna (foraminifera and ostracoda) to gain a better understanding of saltmarsh development and management.	
<b>QRA-RLAHA Luminescence Dating Award</b>			
Tim Lane	Durham	Late-Pleistocene glacial history of Svartenhuk, West Greenland.	
<b>LEWIS PENNY MEDAL 2013</b>			
Graeme Swindles	Leeds		
<b>JAMES CROLL MEDAL 2013</b>			
Rick Battarbee	UCL		

#### e. Research Groups and Study Groups

The Research Group scheme is designed to provide a small quantity of start-up funding over a three year period for specialist Quaternary research groups, with the aim to bring research communities together, foster communication and provide an opportunity for new research projects to be formulated. The scheme has launched a number of significant research collaborations. The QRA currently supports two research groups: GLWG and TIQS:

**Glacial Landsystems Working Group (GLWG):** GLWG is an informal working group which aims to act as a catalyst for research on palaeoglaciological reconstructions, focusing specifically on landform/sediment associations and their application to glaciated landscapes. The group organises a range of field meetings at various locations in glaciated Britain.

[http://www.dur.ac.uk/geography/qec/research\\_groups/glwg/](http://www.dur.ac.uk/geography/qec/research_groups/glwg/)

**Tephra in Quaternary Science (TIQS):** Recent developments in tephrochronology have heralded a new wave of research initiatives that utilise it to tackle significant scientific issues which, hitherto, have been unachievable with the traditional dating techniques. This group brings together individuals and groups with wide-ranging expertise in order to promote cross-group collaborations for optimising and advancing tephrochronology.

<http://www.swansea.ac.uk/geography/research/environmentaldynamicsgroup/tephrainquaternaryscience/>

New proposals for research groups are invited at any time. Ideas and proposals for new research groups may be discussed with the Secretary. These will be put to the membership for approval at the Annual General Meeting.

Study Groups were established with the purpose of enabling small groups of researchers to be associated with the QRA. Study Groups do not receive any funding from the QRA. Anyone interested in forming such a group should contact the Secretary.

#### **f. Outreach**

As a registered charity outreach is an important part of our activities and Barbara Silva has been continuing the good work as our Outreach and External Liaison Officer. The outreach web pages are in the process of being improved and updated and contain tabs linking to talks and events, educational resources, useful websites and sponsorship.

#### **QRA Undergraduate Dissertation Prize**

This year there were 15 entries, which is really healthy for the prize. The examiners were impressed by the quality of the submissions and the winner was Craig Frew (Dundee University) *A Palaeoenvironmental Reconstruction of Cragie Gully, St Michaels Wood, Fife*. An abstract of the winning dissertation will be published in a forthcoming *Quaternary Newsletter*. The Association wishes to thank the examiners Valerie Hall and Colin Whiteman, and the continuing support of Catherine Souch, Lucy Allen and others at the RGS for the administration side of the prize.

#### **QRA Outreach award**

A QRA Outreach Award will be developed. Details of the award will be circulated on the website and circular in the near future but projects are encouraged that will:

- a) Increase public understanding of, and engagement with, Quaternary Science
- b) Stimulate discussion about Quaternary Science and its implications for past, present and future society
- c) Inspire and enthuse people of all ages about the Quaternary, especially those not previously aware of or interested in the subject.

The judging of awards will be decided by a sub-committee to include the Outreach Officer, Treasurer, Secretary, Conservation Officer and either the President or Vice-President.

#### **g. Executive Committee**

Four members of the Executive committee complete their terms of office in January 2013.

Professor David Evans (Vice-President)

Dr Peter Allen (Treasurer)

Dr Siwan Davies (Awards Officer)

Professor Cynthia Burek (Conservation Officer)

The Executive Committee extends great thanks to both for their hard work and significant contributions they have made to the running of the Association throughout their periods in office.



We also welcomed a new postgraduate representative on to the Executive Committee in September, Julia McCarroll (University of Gloucestershire), who will represent the QRA postgraduate community for the next two years.

#### **h. Postgraduate activities**

Postgraduate activities continue to be an important part of the activities of the Association. The annual postgraduate symposium series continued, with the 2012 event held at the University of Aberdeen at the end of August. The meeting ran very well and a full write-up will appear in QN in 2013. Postgraduates are represented on the Executive Committee (two positions, both lasting two years) and make an important contribution to the Executive on behalf of the postgraduate community.

#### **i. Publicity**

There have been great improvements in functionality to the website over recent years, notably the map function, online store, members directory and educational resources. In terms of further strategic development, and value for money, we are exploring a range of options for hosting of the website. Coupled to this, we are also exploring developing an advertising strategy, encompassing advertising in QN, the website and possibilities of meeting sponsorship.

#### **j. Conservation**

The Conservation Officer, Cynthia Burek, has undertaken a range of activities to forward the understanding and raising awareness of the importance of Geoconservation to Quaternary Science:

- i. An article was published on this topic in QN 126, highlighting the latest legislation, ideas on implementation and an explanation of terms. The article is being well cited, and Quaternary conservation has been added to the curriculum in some Geography departments, typically around Geohazards and Conservation.
- ii. The main emphasis of the Conservation Officer this year has been the Marine Act implementation. The conservation officer has continued to attend the meetings to inform the government on the pMCZs (Marine Conservation Zones) and reference areas that are to be designated and to keep the profile of Quaternary geology on the agenda. This is now due for public consultation and the QRA will make a reply at the appropriate time.
- iii. Natural England has a 'Conservation Enhancement Scheme' to grant aid landowners in order to undertake work on SSSIs to maintain or restore favourable condition. This is initially being looked at on Four Ashes Pit SSSI. If QRA members wish to put forward other English Quaternary SSSIs for consideration please contact Natural England and/or the new QRA Conservation Officer, John Gordon.

The Secretary's report was accepted by the membership.

## **7. Treasurer's Report**

This Report covers the period 1 August 2011 to 31 July 2012

### **a. Introduction**

Two unusual items of income inflate this year's accounts, but underlying that the Association's financial activities have been comparable to previous years and we remain healthy and stable.

### **b. Income**

Income from membership subscriptions shows a decline from £15,362 to £12,998. The figure is an under-representation as there is money in our PayPal account that has not been transferred to our bank account. For the same reason, income from books sales (£1,689, down from £3254) is an under-representation.

Royalties from Wiley rose from £41,802 to £44,386, again a pleasing and welcome increase.

Banking interest has risen slightly to £54 (from £44 last year).

The Association is fortunate to have taken over a trust fund of £85,500 from the Royal Society, to support delegates attending INQUA meetings. The Association also recovered £6899 from the Bank Scotland, repaying monies wrongly debited from one of our accounts in previous years. Thus our accounts show a 'bonus' of £92,399.

When considering our total income of £157,486, this exceptional income should be taken into account and a more realistic figure is c.£65,500, comparable to last year (£67,200).

### **c. Expenditure**

Day-to-day running costs have increased from £14,719 to £16784, mostly due to increased postage costs. The cost of running the Executive (travel, room hire) was £1502 (£1638 last year), which is approximately 2.5% of total expenditure.

Our usual support activities through grants, awards and sponsorship remains at c.£21,000. It is notable that the Postgraduate Meetings Awards (PGMA), designed to assist post-graduate members attend QRA meetings, now has a good take-up (£1701). Eligible members are encouraged to use this fund.

### **d. Bank Errors**

Bank errors by the Bank of Scotland of £4,905.24 (2009-10) and £1,879.92 (2010-11) have been recovered and an ex gratia payment of £250 was made for the inconvenience caused. However, further errors are occurring (since August 2012). Moving the account is being considered.

### **e. Income vs Expenditure**

Running income (£12998) against running expenditure (£16784) shows a deficit, mostly due to increased postal costs.

Our running costs in relationship to membership income are reasonably stable and I propose that we do not need to increase the subscription fees.

**Quaternary Research Association (Registered Charity No. 262124)**

*Provisional Income and expenditure on Treasurer's Account for 1 August 2011 - 31 July 2012.*

	£	£
<b><u>INCOME</u></b>	<b><u>2010 - 11</u></b>	<b><u>2011 - 12</u></b>
Subscriptions	15362.80	12998.65
<b>Total Running Income</b>	<b>15362.80</b>	<b>12998.65</b>
Book sales	3253.95	1688.85
<b>Total Publications Income</b>	<b>3253.95</b>	<b>1688.85</b>
Surplus on Meetings	500.00	
Interest Received on Treasurer's + Publications accts	44.62	53.55
Royal Society: INQUA Subscription Support	4292.00	5414.00
Royal Society: support for delegates to INQUA Conf	0.00	
Publisher's Royalties Received	43055.00	44386.00
Donations	346.44	346.44
Other income	338.98	200.00
		85500.00
		6898.86
<b>Total Other Income</b>	<b>48577.04</b>	<b>142798.85</b>
<b><u>TOTAL INCOME</u></b>	<b><u>67193.79</u></b>	<b><u>157486.35</u></b>
<b><u>EXPENDITURE</u></b>		
Newsletter & Circular printing	6259.26	2640.40
Newsletter postage		3928.74
Admin support	6000.00	6000.00
Postage & stationery	191.79	2023.31
Executive Committee Costs	1637.72	1502.69
Insurance	630.00	689.00
<b>Total Running Expenditure</b>	<b>14718.77</b>	<b>16784.14</b>
<b>Publications Account</b>		
Printing	5485.00	4725.00
Bank charges	529.19	0.00
<b>Total Publications Expenditure</b>	<b>6014.19</b>	<b>4725.00</b>
<b>Grants/Awards/Support</b>		
Grants		
NRWA	7165.00	6175.00
QRF	6450.00	3680.00
QCF	3155.00	1835.00
PGMA	0.00	1701.00
Support for delegates to INQUA Congress, Australia	18449.00	1027.85
C14	641.25	0.00
bursaries		
Lewis Penny Award	244.70	591.40
Bill Bishop Memorial Fund Award (inc. bank transfer fee)	800.00	800.00
Croll Medal (Travel)	0.00	49.80
C14	0.00	0.00
bursaries		
Postgraduate Conference	0.00	500.00

Sub-group support	IBiS	0.00	0.00
	GLWG	0.00	0.00
	TIQS	500.00	0.00
		<b>37404.95</b>	<b>16360.05</b>
Outreach	Undergraduate Dissertation Award	650.00	250.00
	GeoSuffolk		750.00
	Rep at EAQua		394.95
	T. Lane		500.00
	Other	586.97	0.00
		<b>1236.97</b>	<b>1894.95</b>
Sponsorship	Soton - ADM		500.00
	St Andrews - Marine Tephro Conf		250.00
	Soton - Heinrich Events Workshop		500.00
	Other	1000.00	0.00
		<b>1000.00</b>	<b>1250.00</b>
<b>Total Grants/Awards/Support</b>		<b>39641.92</b>	<b>19505.00</b>
Refund/reimbursement		140.00	105.00
Meetings expenditure		0.00	1000.00
INQUA subscription		0.00	11164.59
Web Site costs		10557.38	4330.00
Other expenditure		241.93	358.80
Medals - striking/engraving		5664.00	1460.16
<b>Total other expenditure</b>		<b>16603.31</b>	<b>18418.55</b>
<b>Bank errors</b>		<b>1879.92</b>	<b>0.00</b>
<b><u>TOTAL EXPENDITURE</u></b>		<b><u>78858.11</u></b>	<b><u>59432.69</u></b>
<i>Treasurer</i>			
<b>NET SURPLUS(+)/DEFICIT(-)</b>		<b>+ 11664.32</b>	<b>+ 98053.65</b>

#### **f. Year-end financial status**

At the end of July 2012, we held

£ 22,143.36 in our Bank of Scotland Treasurer's Account,  
£ 21,519.15 in the Bank of Scotland Publications Account,  
£ 51,245.82 in our HSBC Community Account,  
£ 60,376.90 in the HSBC Manager's (savings) Account and  
£ 30,000.00 in an HSBC bond

We started the 2011-12 year with £87,231.57 and ended with £185,285.23. However £15,254.52 is held in trust for the Bill Bishop Awards and £85,500 for INQUA delegates. Further sums are ring-fenced: £5000 for the Lewis Penny Medal, £30,000 to meet any unexpected liabilities. This leaves c.£50,000 to carry forward, in addition to an anticipated income of £60,000, for our activities. Anticipated expenditure is £17,000 for running costs, £12,000 INQUA subscription, £600 website, £20,000+ for grants/awards/support.

#### **g. Auditing**

The finances have been audited internally by Mr T. White, but await external auditing and are submitted to this meeting subject to the approval of the external auditor.

## **h. Assets and Liabilities at 31<sup>st</sup> July 2012**

### **ASSETS**

<b>31 July 2011</b>		<b>31 July 2012</b>
£ 3,354.66	Bank of Scotland Treasurer's Account	£ 22,143.36
£ 20,300.05	Bank of Scotland Publications Account	£ 21,519.15
£ 7,508.51	HSBC Community Account	£ 51,245.82
£ 26,068.35	HSBC Manager's (Savings) Account	£ 60,376.90
£ 30,000.00	HSBC Investment Account	£ 30,000.00
<b>£ 87,231.57</b>	<b>Total assets</b>	<b>£ 185,285.23</b>

### **LIABILITIES**

£ 1,868.65	Uncashed cheques	£ 6,287.90
<b>£ 1,868.65</b>	<b>Total liabilities</b>	<b>£ 6,287.90</b>

### **NET ASSETS**

£ 69,838.80	Unrestricted	£ 78,242.81
£ 15,524.52	Restricted	£ 100,754.52
<b>£ 85,363.32</b>	<b>TOTAL NET ASSETS</b>	<b>£ 178,997.33</b>

The Treasurer's report was accepted by the membership.

## **8. Publications Secretary Report**

### **a. QRA Field Guide production 2012**

Two field guides were produced in 2012 (see below). One of these produced in the traditional QRA style (published and printed as an A5 book). This was the guide to accompany the June meeting: "*Cave archaeology and karst geomorphology in northwest England*", Hannah O'Regan and Trevor Faulkner

Compared to recent guides this was relatively inexpensive, consequently I have started contacting other printers for quotes so that we have a much wider range of publishing options. This should keep costs to a minimum.

The Iceland field guide ("*Holocene tephrochronology and its application to southwest Iceland*", Chris Caseldine and James Scourse) was produced as an A4 ring bound guide. The aim was produce to a traditional A5 guide but due to unforeseen circumstances this was not possible. It is hoped that a professionally produced guide will be produced in 2013.

### **b. QRA Field Guide production 2013**

Currently field guides are planned for both of the two scheduled field meetings for 2013.

*April 2013* - The Quaternary of the Monadhliath Mountains and Great Glen (Clare Boston)

*September 2013 – The Quaternary of Northumberland, Durham and Yorkshire (Lynda Yorke)*

A one day field meeting will be organised by John Catt, Julian Murton and Della Murton in May “The Quaternary history of the Chilterns”. The field guide will be available as an online only guide.

#### **c. Technical Guides update**

No new guides have been produced this year but several are still in production. The “Chironomids” guide has now sold out (with the exception of a few copies in the publications secretaries store). The aim will be to produce another print run in 2013 prior to a new edition

#### **d. History of the QRA**

As part of the 50 year anniversary Prof John Catt has been asked to produce a “History of the QRA” book. The volume progresses well, John Catt’s section has been completed, we have received a large number of photographs of field meetings from the past 50 years and a number of QRA members have been asked to contribute sections to the guide. The aim is to have a draft ready for late spring/early summer 2013. With publication to coincide with the 2014 ADM.

#### **e. Digitisation**

10 out of print field guides have been digitised and should be available to buy on line in the next few months.

#### **f. Next publications sub-committee**

The next meeting will be held in February 2013 (committee membership consists of Publications Secretary, QN editor, JQS editor, Meetings secretary and Vice-president).

The Publication Secretary’s report was accepted by the membership.

### **9. Meetings Officer’s Report and Programme**

#### **a. Recent Meetings**

The Meeting’s Officer reported on the successes of a number of recent meetings, all of which had been very well organised and were enjoyed by the delegates.

A report on the Holocene tephrochronology and its applications in south Iceland meeting (September 2012) has been submitted to the editor of QN and the meetings officer (EP) has contacted the organisers (James Scourse) requesting a brief report on the meeting and a copy of the accounts to submit to the Treasurer. Prof Scourse said that he will not be in a position to finalise the accounts until the final field guide has been produced by his Icelandic colleagues. Production of the guide is scheduled for early 2013.

#### **b. Forthcoming Meetings**

Three QRA field meetings are currently on the books for 2013: (1) The Quaternary of the Monadhliath Mountains and Great Glen, date(s) - 17/04/13 – 20/04/13, venue - Fort Augustus; (2) Quaternary history of the Chilterns, date - 11/05/13, venue - Little Heath and Marsworth; and (3) Quaternary of Northumberland, Durham and Yorkshire. The first two meetings are currently advertised on the QRA web site and Face Book page, and an e-mail alert had been sent out to the members. The meeting officer (EP) has contacted the organisers of the Quaternary of Northumberland, Durham and Yorkshire meeting and requested further details and registration form so that an advert for this meeting can also be placed on the web site and Face book.

In the minutes of the last Executive Committee meeting the meetings officer (EB) stressed the need for more field and workshop meetings, as the current programme beyond 2013 is looking relatively thin. An e-mail will be sent early in the new year to all members asking for ideas and offers to lead/convene

future QRA meetings. A proposal for a field meeting to Anglesey and North Wales is currently in preparation (organisers Emrys Phillips, Jon Lee, James Scourse and others) and will be submitted to the Executive committee in due course. The possibility of a Norfolk meeting to coincide with the end of AHOB and the 50<sup>th</sup> anniversary was reported in minutes of the last Executive Committee meeting. Several other suggested lines of enquiry for field and workshop meetings have been made by members of the Executive Committee and these are being investigated.

One issue which needs to be raised is the continuing problems with uploading Word files onto the meetings pages of the web site and also access to the e-mail section of the web site. Both EB and EP have encountered problems in this area which has lead to slight delays in advertising forthcoming meetings and impending registration deadlines.

#### **c. Revised meetings guide**

EB provided EP with an up to date copy of the revised meetings guide and other meetings related forms.

#### **d. Co-sponsorship of meetings**

No proposals for co-sponsorship meetings are currently ready for consideration by the Executive committee. However, a proposal is currently in preparation for a co-sponsored meeting on the Thames basin area and will be submitted in due course.

#### **e. QRA insurance cover certificate**

The National Trust, who own Little Heath, requested to see a copy of the QRA's Public Liability Insurance. The Treasurer (PA) obtained an electronic copy of the insurance cover certificate for 2012-2013. A copy was then sent to Bob Davis at the National Trust and the meetings officer (EP) has retained a digital copy in case of an future requests by landowners to see a copy of the QRA's Public Liability Insurance.

### **Meetings programme**

#### **2013 Meetings**

##### **January 2013. Annual Discussion Meeting: Leads and lags: correlation, comparison and causation**

Venue: Great North Museum, Hancock <http://www.twmuseums.org.uk/greatnorthmuseum/>  
Organisers: Steve Juggins, Takeshi Nakagawa, Emma Pearson (Newcastle University)  
Contact: Steve Juggins [[stephen.juggins@newcastle.ac.uk](mailto:stephen.juggins@newcastle.ac.uk)]  
Details: 2 - 4 January 2013 <http://www.qra.org.uk/meetings/76>

##### **April 2013. Co-sponsored Meeting. Holocene Climate Change.**

Venue: Geological Society, Burlington House, London  
Organisers: Dan Charman (Exeter) and others  
Contact: Dan Charman [[d.j.charman@exeter.ac.uk](mailto:d.j.charman@exeter.ac.uk)]  
Details: 4 – 5 April 2013. <http://www.geolsoc.org.uk/gsl/events/listings/holocene13>

##### **April 2013. Field Meeting: Monadhliath Mountains, Central Highlands, Scotland**

Venue: Fort Augustas  
Organiser: Clare Boston (Exeter), Sven Lukas (QMUL), Jon Merritt (BGS Edinburgh)  
Contact: Clare Boston [[c.m.boston@exeter.ac.uk](mailto:c.m.boston@exeter.ac.uk)]  
Details: Glacier dynamics, geomorphology and sedimentology of the Monadhliath Mountains. Limit of 40 participants. 16 – 21 April 2013  
<http://www.qra.org.uk/meetings/74>

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### **May 2013 1 Day Field Meeting: Quaternary of the Chilterns and Site Conservation**

Organisers: John Catt (UCL), Julian Murton (Sussex), Eleanor Brown (Natural England)  
Contact: [j.catt@ucl.ac.uk](mailto:j.catt@ucl.ac.uk)  
Details: Saturday 11 May 2013. 1 day field meeting to Little Heath Pit SSSI and Pitstone Quarry SSSI (Marsworth) <http://www.qra.org.uk/meetings/78>

### **August/September 2013: QRA Postgraduate Symposium**

Venue: University of Southampton  
Organiser: Helen Mackay [[H.Mackay@soton.ac.uk](mailto:H.Mackay@soton.ac.uk)]

### **September 2013. Field Meeting: Quaternary of Northumberland, Durham and Yorkshire**

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Venue: Durham University  
Organisers: Lynda York, Bethan Davies, David Roberts, David Bridgland, David Evans, Colm Ó Cofaigh  
Contact: [lly@aber.ac.uk](mailto:lly@aber.ac.uk)  
Details: 35 – 40 participants. Early September 2013.

### **2014 Meetings**

#### **January 2014. ADM: 50<sup>th</sup> Anniversary of the QRA**

Venue: RGS, London  
Organisers: Dan Charman (Exeter), James Scourse (Bangor), Antony Long (Durham), Danielle Schreve (RHUL), John Catt (UCL) and Catherine Souch (RGS-IBG)  
Contact: Dan Charman [[D.J.Charman@exeter.ac.uk](mailto:D.J.Charman@exeter.ac.uk)]  
Details: Monday 6<sup>th</sup> – Thursday 9<sup>th</sup> January 2014

#### **Field Workshop: Palaeogeography and dynamics of glacial processes in north-central Poland: sedimentary and geomorphic signatures.**

Venue: Joint Meeting with the Association of Polish Geomorphologists (AGP)  
Department of Biology and Earth Science, Nicolaus Copernicus University, Torun  
Organisers: Matt Strzelecki, Dave Evans (Durham), Wojciech Wysota (Torun)  
Contact: [m.c.strzelecki@durham.ac.uk](mailto:m.c.strzelecki@durham.ac.uk)  
Details: Dates TBC, spring/early summer 2014. 1 day workshop, 3 days field meeting.

The Meeting Officers report was accepted by the membership.

### **10. Election of new Executive members**

The following people have been nominated to succeed retiring members of the Executive Committee. Nominations were published in the June 2012 Circular. No other nominations were received by the closing date and so the following were duly elected:

Vice President: Danielle Schreve (Royal Holloway)  
Treasurer: Tom White (Cambridge)  
Awards Officer: Erin McClymont (Durham)  
Conservation Officer: John Gordon (Scottish Natural Heritage)



## **11. Any other business**

- a. The President encouraged the QRA membership to contact current Executive Committee members if they were keen to serve on the Executive Committee.
- b. The President raised the issue of providing more information to the membership prior to the AGM meeting, so the AGM could be used more as a discussion forum rather than mainly going through annual reports from Executive Committee officers. A straw poll suggested that most members found the meeting useful, but that providing more information prior to the meeting would be useful.

The meeting finished at 18.55.

Minutes taken by Dr Pete Langdon (Secretary)

3<sup>rd</sup> January 2013