



# EDINBURGH GEOLOGICAL SOCIETY



## Annual Report and Proceedings

---

180th Session  
2013-2014

[www.edinburghgeolsoc.org](http://www.edinburghgeolsoc.org)

Charity registered in Scotland SC 008011

# Edinburgh Geological Society

## Report of Council for the Year Ended 30th September 2014

### Table of Contents

Welcome.....	3
Legal and Administrative Information .....	3
Structure, Governance and Management .....	4
Achievements and Performance .....	6
Financial Review .....	11
Independent Examiner’s Report to the Trustees .....	13
Statement of Financial Activities including Income and Expenditure Account for the year ended 30th September 2014 .....	15
Balance Sheet as at 30th September 2014 .....	16
Notes forming part of the Financial Statements .....	17
Obituaries .....	22



Members of the Society examining rocks of the Ards Quartzite in the disused quarry at Lackagh Bridge (C189 278) during the Long Excursion to the North of Ireland in May 2014. © Beverly Bergman

Cover picture: Leader Roger Anderton discussing rocks of the Rhinns Complex with members of the Society at Wemyss Bay during the 2014 Long Weekend excursion to Islay. © Beverly Bergman

## **Welcome**

The Council of the Edinburgh Geological Society takes great pleasure in presenting the Annual Report and Accounts for the year ending 30th September 2014. The Society has had a busy year and has hosted successful and well-supported programmes of lectures and excursions.

### **Legal and Administrative Information**

Charity Name: Edinburgh Geological Society  
Scottish Charity Number: SC 008011  
Revenue & Customs No.: CR 30310  
Registered Office: None  
Official Contact Address: c/o Mr R Morley, Flat 3, 27 Sunbury Street,  
Edinburgh EH4 3BU

### **Council 2014 (Elected 29th January 2014)**

President: Christine Thompson  
Vice-Presidents: Richard Smith, David Stephenson  
Immediate Past President: Graham Leslie  
Secretary: Beverly Bergman  
Treasurer: Bob Morley  
Membership Secretary: Andrew Rushworth  
Lectures Secretary: Graham Leslie  
Excursions Secretary: Mel Farquarson  
Assistant Secretary (Planning & Finance): Lilian D'Mello  
Assistant Secretary (Clough/Awards): Graham Leslie  
Assistant Secretary (Billet): Fiona McGibbon  
Assistant Secretary (Publications): David Stephenson  
Publication Sales Officer: Angus Miller  
Librarian & Archivist: Vacant  
Scientific Editors: Rob Duck, Maarten Krabbendam  
Ordinary Members: Angus Macpherson, Mike Browne, Phil Stone, Colin MacFadyen, Rhona Fraser

### **Independent Examiner**

Julian Cordery of Gibson McKerrell Brown LLP, 14 Rutland Square,  
Edinburgh EH1 2BD

### **Bankers**

Bank of Scotland, 1 Liberton Drive, Edinburgh EH16 6NL

### **Investment Managers**

Brewin Dolphin Securities Ltd, 6th Floor, Atria One, 144 Morrison Street,  
Edinburgh EH3 8 EX

### **Solicitors**

Simpson & Marwick, Albany House, 58 Albany Street, Edinburgh EH1 3QR

## **Structure, Governance and Management**

### **Objectives and Activities**

The Society was founded in 1834, and its objectives are the stimulation and encouragement of public interest in geology and the advancement of geological knowledge by such means as public lectures, symposia, conferences, the reading and discussion of original papers, excursions, exhibitions, the maintenance of a geological library, the publication of the *Scottish Journal of Geology* jointly with the Geological Society of Glasgow, and the production of any other geological publications which may be considered desirable.

### **Governing Document**

The Society is recognised by the Scottish Charity Regulator and HM Revenue and Customs as a Charity.

Its governing document is the Laws of the Society, as amended by the membership of the Society at Special General Meetings called for the purpose. The members of the Council of the Society act as charity trustees, as defined in the Charities and Trustee Investment (Scotland) Act 2005, in having the general control and management of the administration of the Society.

The Laws of the Society were last revised at a Special General Meeting on 2 November 2011.

### **Recruitment and Appointment of Council**

Council is elected at the Annual General Meeting of the Society, held in January each year.

The President and Vice-Presidents each serve on Council for two years, and the President may hold the post of Immediate Past President for up to two years on demitting office.

Other office bearers are elected annually, but there is no limit on the number of years for which they may be re-elected.

There are up to six Ordinary Members of Council who are each elected for three years.

### **Trustee Induction and Training**

A Trustee Induction Pack is given to all new Council members and prospective members, to ensure that they are aware of their duties under the 2005 Act and understand their legal responsibilities as Trustees of the Society. Trustees undergo periodic training to ensure compliance with good governance practice. Office bearers have generally been members of the Society for several years.

## **Risk Management**

The Society aims to break even financially over short periods of years and Council reviews the financial outlook to help achieve this, supported by the Planning and Finance Committee. The portfolio of investments provides a buffer in case of need.

A risk assessment is carried out for each field excursion, and includes a description of the terrain to be encountered and emphasises particular hazards such as uneven ground, slippery or unstable surfaces or sheer drops. Walking distances and the nature of any ascents or descents are also specified. Information on such hazards, and the level of fitness required by participants, is included in the published excursion programme. New guidance on the collecting of specimens on excursions was produced during the year. The Society's risk management policy was reviewed and revised during the 2012-13 Session and is kept under review by Council.

The Society is insured against third party liability arising from claims resulting from the Society's activities during excursions and site work by Geoconservation Group members. This insurance is provided through the Geologists' Association, to which the Society is affiliated.

## **Organisational Structure**

The Society has a Council of 19 members who are responsible for the strategic direction and policy of the Society. All Council members are voluntary and unpaid. The Society has no paid employees. The Planning and Finance, Publications, Excursions and Grants (The Clough Committee) committees manage particular aspects of the Society's work and report to Council.

## **Related parties**

Lothian and Borders GeoConservation, Tayside Geodiversity and Stirling and Clackmannan RIGS are involved in designating, publicising and helping to maintain Local Geodiversity Sites in their respective areas, and are committees of the Edinburgh Geological Society.

The *Scottish Journal of Geology* is owned jointly by the Edinburgh Geological Society and the Geological Society of Glasgow. Each Society appoints two scientific editors to sit on the board.

The Society is a founding member of the Scottish Geodiversity Forum, which aims to promote Scotland's geodiversity, and seeks to widen the profile of geodiversity and influence national and local policies. The Society is also affiliated to the Geologists' Association.

## Achievements and Performance

### Overview

The Society had a successful year in pursuing its objectives of the stimulation and encouragement of public interest in geology and the advancement of geological knowledge. The programmes of lectures and excursions were well attended. The Society has continued to support the Scottish Geodiversity Forum and the Edinburgh branch of the University of the Third Age. Our affiliated local geoconservation groups continued to be active, with Lothian and Borders GeoConservation publishing several new leaflets, while others are in preparation. A new grant application process was launched in March 2014; to date, no applications have been received.

### Council

The Council met seven times during the year, and maintained an overview of the full range of activities of the Society. Council members continued to work hard at controlling expenditure, and were able to use surplus funds to support several initiatives including grants totalling £850 to support the reconstruction of Hugh Miller's Cruise of the Betsey, led by the Royal Scottish Geographical Society and the Friends of Hugh Miller. The EGS's contribution part-funded a berth for a young Earth scientist and helped with production of educational materials. The Finance and Planning Committee, under the chairmanship of Lillian D'Mello, considered in detail several issues connected with the smooth running of the Society including the policy for processing requests for grants.

### Membership

Total membership fell from 536 to 519. Twenty new Fellows were elected, 8 died, 12 resigned, and 17 had their membership suspended as a result of non-payment of 2013-14 subscriptions.

The number of Fellows by membership category as at 30 September 2014 was:

Honorary Fellows	6	Senior Fellows	58
Distinguished Fellows	4	Family Fellows	28
Corresponding Fellows	7	Junior Associates	6
Life Fellows	11	Glasgow Associates	18
Ordinary Fellows	381		
		<b>TOTAL</b>	<b>519</b>

## Lectures Programme 2013-2014

The programme, the final one to be organised by Lectures Secretary Kathryn Goodenough before she demitted office, consisted of 11 meetings. They were enthusiastically received, with good attendances. Fellows' Night and the social evening took place on 11 December 2013 at BGS Murchison House, where the audience enjoyed a selection of short presentations followed by a wine and cheese reception, expertly arranged by John Mendum. The Society does not pay a fee to speakers and is very appreciative of the time and expertise that they give so willingly. At the last lecture of the Session, the President paid tribute to Kathryn Goodenough's sterling service to the Society as Lectures Secretary.

- 2013**
- 16 Oct **Andy Dugmore (University of Edinburgh)** Well-adapted, communal practitioners of environmental sustainability, but still extinct: poignant messages from the end of Norse Greenland.
- 30 Oct **Graham Leslie (BGS Edinburgh)** Accretion and tectonic amalgamation in East Avalonia – a geological evolution of Ynys Môn. **President's Lecture.**
- 13 Nov **Mike Bentley (University of Durham)** The Antarctic ice sheet and climate change.
- 28 Nov **Dave Schofield (BGS Cardiff)** The problem with terranes: accretionary tectonics in southern Britain.
- 11 Dec **Fellows' Night**
- 2014**
- 9 Jan **Professor Chris Hawkesworth (University of St Andrews)** The Evolution of the Continental Crust: the isotope legacy . Joint 'celebrity' lecture in Glasgow.
- 15 Jan **Dougal Jerram (DougalEarth Consulting)** In the footsteps of Powell: The Grand Canyon—geology by wooden boat!
- 29 Jan **Professor James Floyd (Heriot Watt University)** A geotourist in St Petersburg.
- 12 Feb **John Crone (formerly Development Geologist, Scottish Coal Company Ltd)** The geology and history of surface mining in east Ayrshire. **Joint Mining Institute of Scotland lecture** hosted by the MIS.
- 26 Feb **Professor Tony Fallick (SUERC)** Planet Earth's Mid-Life Crisis. **Clough Medal Lecture**
- 12 Mar **Professor Jane Evans (NIGL)** Tracing visitors to our shores: the application of isotope analysis to archaeological human migration studies.
- 26 Mar **Dr Kathryn Goodenough (BGS)** The global critical metals hunt.

## Excursions Programme 2014

The programme, arranged by Excursions Secretary Mel Farquharson, comprised five Saturday and five Wednesday evening excursions. One planned Saturday excursion was cancelled for reasons outwith the Society's control. The programme was well attended and all excursions were greatly enjoyed by the participants. The Society does not pay a fee to Leaders and is very appreciative of the time and expertise that they give so willingly. The Excursions were:

- Sat 5 Apr Yellowcraig. Leader: Prof Brian Upton
- Wed 30 Apr Edinburgh New Town. Leader: Andrew McMillan
- Sat 3 May St Abb's Head. Leader: David Stephenson
- Wed 7 May Cramond & River Almond. Leader: Angus Miller
- Sat 10 May Wanlockhead & gold-panning. Leader: Neil Clark
- Wed 4 Jun Pentland Hills—Hare Hill. Leader: Richard Smith
- Sat 21 Jun Pentland Hills—Threipmuir to Flotterstone. Leader: Richard Smith. Joint excursion with the Geological Society of Glasgow
- Wed 25 Jun Joppa Shore. Leader: Bob Gatliff
- Wed 2 Jul In the Footsteps of Hutton. Leader: Beverly Bergman
- Sat 20 Sep Greenburn Surface Mine Revisited. Leaders: Giles Hemmings & David Richardson, Kier Construction (Mining)

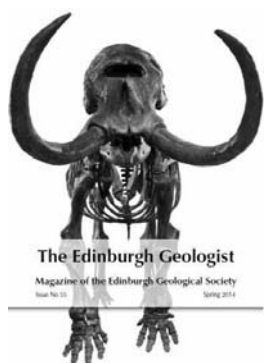
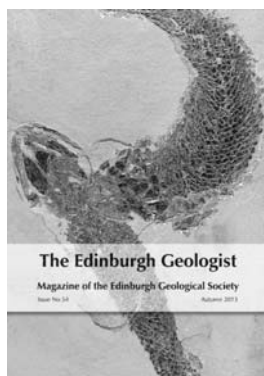
The Long Excursion 2014, under the expert direction of Anne Burgess, set sail on 17 May 2014 for a week exploring the geology of the north of Ireland, led by Immediate Past President Graham Leslie, Brian McConnell, Kirstin Lemon and Mark Cooper. The lively and varied programme, based at two main centres, Dunfanaghy and Donegal Town, was a great success. In September, 30 members of the EGS visited Islay for another excellent long weekend superbly organised by Lillian D'Mello. The leader was Roger Anderton, who educated and entertained us with his wealth of knowledge and stories. The collocation of stromatolites and a distillery at one locality made for a perfect combination, which was much enjoyed by all!



## Publications

Following the success of the revised *Assynt, the geologists' Mecca* book as a download from our website, a printed version is now available for sale. The *Stirling and Perth* excursion guide was completed by Mike Browne and Con Gillen, with diagrams by Angus Miller, and was submitted to National Museums Scotland Enterprises (NMS) in September; publication is anticipated early in 2015. One other excursion guide is in preparation.

Two editions of *The Edinburgh Geologist* were issued, under the editorship of Phil Stone and Bob McIntosh. Publication of the *Scottish Journal of Geology* continued through the Geological Society Publishing House, and two issues, Volume 49, Part 2 and Volume 50, Part 1, were produced. Back numbers of the *SJG*, together with complete *Transactions of the Edinburgh Geological Society* and *Transactions of the Geological Society of Glasgow*, are available online via The Geological Society's *Lyell Collection*. Contact the Membership Secretary for an access code. In common with most smaller academic journals, the *SJG* has been experiencing difficulties in attracting high-quality manuscripts, mainly due to pressures on academic staff to publish only in journals with a high 'impact factor'. Discussions took place with representatives of the Geological Society of Glasgow and the *SJG* Editorial Board to address this and other issues and the board has recently reported a marked increase in both quality and quantity of submissions. Fiona McGibbon edited three *Billets*, which are valuable in keeping members informed about the Society's activities. The GeoConservation Groups continued to produce leaflets, as described on Page 10; a full list can be found on our website at [www.edinburghgeolsoc.org/r\\_download.html](http://www.edinburghgeolsoc.org/r_download.html).



Angus Miller has continued to work hard as Publications Sales Officer. Sales of older EGS publications were slow but returned a straight profit since all stocks have been fully depreciated. The three excursion guides published in recent years in association with NMS continued to sell well, *Moine* and *Rum* having sold over 80% of their original print runs and *North-west Highlands* now well over half-way through its second print run with over 1,800 copies sold.

## **The Clough Medal and Research Grants**

The Clough Medal for 2013-2014 was awarded to Professor Tony Fallick in recognition of his great contribution to isotope geochemistry and its application to both Earth and planetary sciences, and in using isotope stratigraphy to elucidate the early Proterozoic and Neoproterozoic .

A fieldwork grant of £600 was awarded in 2014, being £300 from the Clough Fund and £300 from the Mykura Fund, to Sarah Beijat for sample collection in Shetland, in connection with work on detecting the presence of ophiolite, subduction and arc components within detrital accessory minerals. A further grant of £300 from the Clough Fund was awarded to William Hutchison, who was a previous recipient of a fieldwork award in 2010, for continuing work on silicic volcanoes in the Main Ethiopian Rift.

Brief reports from fieldwork supported by the Society in recent years are posted on our website.

## **Geoconservation Groups**

The Lothian and Borders GeoConservation committee met quarterly and continued its work on the monitoring and designation of Local Geodiversity Sites. The Volunteer Group met monthly during the winter. Leaflets on the River Esk and Cramond were completed and published, and the group continued to work with undergraduate geosciences students at Edinburgh University on leaflet outreach projects. West Lothian Council republished three leaflets: Binny Craig, Petershill and East Kirkton. The Volunteer Group was involved in several public events including Volcano Fun Day in Holyrood Park, and members of the group led a number of evening walks as part of the Society's Excursions Programme. Mike Browne, chair of Lothian and Borders GeoConservation, was re-elected as Chair of the national body, GeoConservation UK, for a 9th year.

## **Sponsored Projects**

The Society continues to support the project to supply free maps and Rock Boxes to schools, to encourage teaching about Scotland's rocks and landscape within the Curriculum for Excellence. Support has also been given to Lothian & Borders GeoConservation to enable publication of additional leaflets.

## **Acknowledgements**

The affairs of the Society are organised entirely by voluntary effort. Members of Council jointly contribute hundreds of hours of time to the running of the Society, much of this in quiet ways behind the scenes. Council is supported by many other people, including lecturers, excursion leaders and organisers. Bob Gatliff, Head of Station, BGS Edinburgh, is thanked for accommodating the Society at Murchison House for lectures and meetings.

## **Financial Review**

The Society's activities were maintained at a similar level to that of previous years. The surplus on revenue account was £2,471 compared with £5,546 in 2012-13 but this overall figure was substantially depressed by expenditure from Restricted Funds (mainly sponsored projects) much of which (as noted in last year's financial review) was received in previous years. There is a surplus of £7,045 on Unrestricted Funds available for the Society's general use (£3,694 in 2012-13). The net assets of the Society rose by £5,431 over the year.

### **Principal Funding Sources**

The Society's principal source of income continues to be membership subscriptions and this is supplemented by tax refunds in respect of members who Gift Aid their subscriptions. Other important sources are sales of the Society's publications and income from the Society's investments and also a substantial donation was received. Income from excursions is used to pay for the costs of the excursions. The Society has also received sponsorship for some special projects.

### **Expenditure**

Expenditure continued at a similar level to last year.

### **Investment Policy**

The Society employs Brewin Dolphin Securities Ltd as its investment manager and they have discretion to manage the portfolio on a day-to-day basis without reference to the Society. Their remit is to provide growth with a medium risk profile, while maintaining investment income at about current levels. At present a little over half of the Society's funds are invested in equities, entirely through composite vehicles, with the remainder being in fixed interest securities, mainly corporate bonds.

### **Reserves Policy**

The Society has accumulated reserves of £112,757. 25% of these are Restricted Funds and are set aside for the purposes of those funds. The Society aims to break even financially over short periods of years and as net income / expenditure is small in relation to activities undertaken,

the remaining reserves provide a most useful buffer against unexpected contingencies, together with valuable investment income.

### **Plans for Future Periods**

The Society plans to continue its core programmes of lectures, excursions and publications. Costs and revenue are always under pressure and require continual care from the Society's Council and Officers. Costs generally continue to rise and the Society seeks to offset this by attracting new members, encouraging the use of Gift Aid and the use of budgetary measures. Production of excursion guides continues and is being paced and costed carefully.

### **Responsibilities of Council**

Council accepts its responsibility for the preparation of financial statements for each financial year which give a true and fair view of the affairs of the Society and of the surplus or deficit for the period. In preparing those financial statements, Council is required to:

- select suitable accounting policies and apply them consistently;
- make judgments and estimates that are reasonable and prudent;
- state whether applicable accounting statements or statements of recommended practice have been followed, subject to any departures disclosed or explained by the financial statements and
- prepare the financial statements on the going - concern basis unless it is inappropriate to assume that the Society will continue in existence.

Council also accepts its responsibility for keeping proper accounting records which disclose with reasonable accuracy at any time the financial position of the Society and enable it to ensure that the financial statements comply with the Charities and Trustees Investment (Scotland) Act 2005 and the Charities Accounts (Scotland) Regulations 2006.

Council is also responsible for safeguarding the assets of the Society and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

## **Independent Examiner**

Mr Julian Cordery of Gibson McKerrell Brown LLP continued as Independent Examiner during the year and has expressed his willingness to continue in that capacity.

**Approved by the Council of the Edinburgh Geological Society and signed on its behalf by**

Christine Thompson, President  
26 November 2014

## **Independent Examiner's report to the Trustees of the Edinburgh Geological Society**

I report on the financial statements of the charity for the year ended 30th September 2014, which are set out on pages 15 to 21.

### **Respective responsibilities of Trustees and Examiner**

The charity's trustees are responsible for the preparation of the accounts in accordance with the terms of the Charities and Trustee Investment (Scotland) Act 2005 and the Charities Accounts (Scotland) Regulations 2006 (as amended). The charity's trustees consider that the audit requirement of Regulation 10(1)(a) to (c) of the Accounts Regulations does not apply. It is my responsibility to examine the accounts as required under section (44)(1)(c) of the Act and to state whether particular matters have come to my attention.

## **Basis of the Independent Examiner's Report**

My examination is carried out in accordance with Regulation 11 of the 2006 Accounts Regulations. An examination includes a review of the accounting records kept by the charity and a comparison of the accounts presented with those records. It also includes consideration of any unusual items or disclosures in the accounts and seeking explanations from you as trustees concerning any such matters. The procedures undertaken do not provide all the evidence that would be required in an audit and, consequently, I do not express an audit opinion on the view given by the accounts.

## **Independent Examiner's Statement**

In connection with my examination, no matter has come to my attention:-

1. which gives me reasonable cause to believe that, in any material respect, the requirements:-

- to keep accounting records in accordance with section 44(1)(a) of the 2005 Act and Regulation 4 of the 2006 Accounts Regulations, and
- to prepare accounts which accord with the accounting records and comply with Regulation 8 of the 2006 Accounts Regulations

have not been met, or

2. to which, in my opinion, attention should be drawn in order to enable a proper understanding of the accounts to be reached.

Julian Cordery FCCA ACA  
Gibson McKerrell Brown LLP  
14 Rutland Square Edinburgh EH1 2BD  
26 November 2014

**Statement of Financial Activities including Income and Expenditure Account  
for the year ended 30th September 2014**

<u>Incoming Resources</u>	Note	Unrestricted Funds - £	Restricted Funds - £	2014 total - £	2013 total - £
<b>Voluntary income</b>					
Members' Subscriptions		9,315	-	9,315	9,535
Gift Aid tax refund		1,310	-	1,310	1,510
Donations		1,791	-	1,791	2,497
<b>Investment income</b>		2,214	748	2,962	3,038
<b>Income from Charitable activities</b>					
Excursions	3	18,575	-	18,575	21,978
Sponsored projects	8	-	580	580	4,700
<b>Fundraising trading:</b>					
Sales of Publications	4	<u>4,085</u>	<u>-</u>	<u>4,085</u>	<u>3,535</u>
<b>Total Incoming Resources</b>		<b><u>£37,290</u></b>	<b><u>£1,328</u></b>	<b><u>£38,618</u></b>	<b><u>£46,793</u></b>
<b>Resources Expended</b>					
<b>Fund management charges</b>					
		<u>480</u>	<u>-</u>	<u>480</u>	<u>480</u>
<b>Fundraising trading:</b>					
Cost of Sales	4	1,738	-	1,738	1,829
Illustrations - new Guide		<u>-</u>	<u>-</u>	<u>-</u>	<u>1,920</u>
<b>Charitable activities:</b>					
Lectures		2,007	-	2,007	2,430
Billet		1,692	-	1,692	1,888
Edinburgh Geologist		2,467	-	2,467	2,460
Excursions	3	18,786	-	18,786	21,954
Grants and Awards		950	1,022	1,972	817
Geological leaflets		270	1,720	1,990	3,634
Sponsored projects	8	-	3,160	3,160	1,388
Administration		979	-	979	788
<b>Total cost of Charitable activities</b>		<u>27,151</u>	<u>5,902</u>	<u>33,053</u>	<u>35,359</u>
<b>Governance costs</b>		<u>876</u>	<u>-</u>	<u>876</u>	<u>1,659</u>
<b>Total Resources Expended</b>		<b><u>£30,245</u></b>	<b><u>£5,902</u></b>	<b><u>£36,147</u></b>	<b><u>£41,247</u></b>
<b>Net Incoming (Outgoing)</b>					
<b>Resources before other recognised gains / losses</b>					
		<b>£7,045</b>	<b>£(4,574)</b>	<b>£2,471</b>	<b>£5,546</b>
Net gains on investments	5	<u>2,212</u>	748	2,960	5,635
<b>Net Movement in Funds</b>		<b><u>£9,257</u></b>	<b><u>£(3,826)</u></b>	<b><u>£5,431</u></b>	<b><u>£11,181</u></b>

*Continues overleaf*

**Statement of Financial Activities including Income and Expenditure  
Account for the year ended 30th September 2014 - continued**

**Reconciliation of funds**

<b>Net Movement in Funds</b>	<b>£9,257</b>	<b>£(3,826)</b>	<b>£5,431</b>	<b>£11,181</b>
Total funds brought forward	<u>£75,313</u>	<u>£32,013</u>	<u>£107,326</u>	<u>£96,145</u>
<b><u>Total funds carried forward</u></b>	<b><u>£84,570</u></b>	<b><u>£28,187</u></b>	<b><u>£112,757</u></b>	<b><u>£107,326</u></b>

The above statement of financial activities includes all gains and losses in the year.

All incoming resources and resources expended derive from continuing activities

**Balance Sheet as at 30th September 2014**

	<b>Notes</b>	<b>2014</b>		<b>2013</b>	
		£	£	£	£
<b>Investments</b>	5		78,014		75,633
<b>Current Assets</b>					
Stock of Publications	4	521		1,289	
Other Stocks		106		214	
Debtors and prepayments		598		777	
Bank		<u>37,433</u>		<u>34,205</u>	
		<u>38,658</u>		<u>36,485</u>	
<b>Creditors</b>					
Creditors and provisions - amounts falling due within one year	6	<u>3,915</u>		<u>4,792</u>	
<b>Net Current Assets</b>			<u>34,743</u>		<u>31,693</u>
<b>Net Assets</b>			<u>£112,757</u>		<u>£107,326</u>
Representing:					
<b>Unrestricted funds</b>					
General Fund	8		84,570		75,313
<b>Restricted funds</b>					
Permanent endowment	8		25,933		25,460
Sponsored projects	8		<u>2,254</u>		<u>6,553</u>
<b>Total funds</b>	8		<u>£112,757</u>		<u>£107,326</u>

The notes on pages 17 to 21 form part of these accounts.

Approved by Council and signed on its behalf by

R Morley, Treasurer  
26 November 2014



# Notes forming part of the Financial Statements

## 1 Accounting Policies

The principal accounting policies are summarised below. The accounting policies have been carried through consistently throughout the year and in the preceding year.

### (a) Basis of Accounting

The accounts have been prepared under the historical cost convention, as modified by the inclusion of investments at market value, and in accordance with the Charities and Trustees Investment (Scotland) Act 2005, the Charities Accounts (Scotland) Regulations (2006) and Statement of Recommended Practice: Accounting and Reporting by Charities (2005).

### (b) Fund Accounting

Unrestricted funds are available for use at the discretion of the trustees in furtherance of the general objectives of the charity.

Restricted funds are subjected to restrictions on their expenditure imposed by the instructions or will of the donor.

### (c) Incoming resources

Subscriptions are credited in the period to which they relate. No provision is made for arrears.

Sales of publications are credited in the period to which they relate.

All other income is credited when received.

The gross income from investments and bank interest received during the year has been apportioned to the various funds in the ratio of their opening balances, together with net gains (losses) on investments.

### (d) Resources expended

Expenditure is recognised on an accrual basis as liability is incurred and includes VAT.

Charitable expenditure comprises those costs incurred by the charity in the delivery of its activities to its beneficiaries.

Governance costs comprise those costs associated with meeting the constitutional and statutory requirements of the charity and include the independent examiner's fee (£564) and costs linked to the strategic management of the charity.

All costs are allocated between the expenditure categories of the Statement of Financial Activities on a basis designed to reflect the use of the resource.

## 2. GeoConservation Groups

Lothian and Borders GeoConservation, Stirling and Clackmannan RIGS and Tayside Geodiversity Groups are constituted as committees of the Society but have their own office-bearers and bank accounts. Their financial results are included in these accounts.

## 3. Excursions

Particulars of the Society's excursions etc are as follows:-

	2013 / 14		2012 / 13	
	Contributions	Cost	Contributions	Cost
	£	£	£	£
Day Excursions	878	1,277	888	1,200
Weekend Excursion	3,106	3,086	6,875	6,638
Long Excursion	14,315	14,221	14,015	13,900
Fellows' night	<u>276</u>	<u>202</u>	<u>200</u>	<u>216</u>
<b>Total</b>	<b><u>£18,575</u></b>	<b><u>£18,786</u></b>	<b><u>£21,978</u></b>	<b><u>£21,954</u></b>

## 4. Publications

Sales and the cost of sales comprise:

	2013/14	2012/13
	£	£
<b>Sales</b>	<b><u>£4,085</u></b>	<b><u>£3,535</u></b>
Cost of Sales	1,738	1,501
Depreciation	<u>-</u>	<u>328</u>
<b>Total cost of Sales</b>	<b><u>£1,738</u></b>	<b><u>£1,829</u></b>

Stocks of publications have been valued at the lower of cost and net realisable value after making due allowance for obsolete and slow-moving items. Older stocks have now been fully depreciated and the more recent Rum, Moine and NWH Guides are being written off at the greater of 20% pa or pro rata to Sales.

## 5. Investments

### Analysis of Movements of Investments

	£
Carrying value (market value) at beginning of year	75,633
Add: Additions to Investments at cost	10,403
Less: Disposals at carrying value	-10,883
Add: Net gain on revaluation	<u>2,861</u>
Carrying value (market value) at end of year	<b><u>£78,014</u></b>
Note - Net gain realised during the year	99
Gain on revaluation	<u>2,861</u>
Net gain on Investments	<b><u>£2,960</u></b>

## 6. Creditors and Provisions

	2014	2013
	£	£
Loan by Chairman of S&C RIGS Group	2,180	2,180
Miscellaneous	<u>1,735</u>	<u>2,612</u>
Total	<b><u>£3,915</u></b>	<b><u>£4,792</u></b>

## 7. Trustee Remuneration and Related Party Transactions

No members of Council received any remuneration during the year. Costs incurred in entertaining lecturers after the public lectures (£307) were refunded to 4 members of Council, and other costs totalling £1,885 incurred on behalf of the Society were refunded to 6 members of Council.

No trustee or other person related to the charity had any personal interest in any contract or transaction entered into by the charity during the year.

## **8. Funds**

### **Endowment Funds**

The purpose of the Clough Memorial Fund is to provide a medal annually to a geologist whose original work has materially increased the knowledge of the geology of Scotland and the North of England, and to award grants for fieldwork. Two grants were made from the Clough Fund during the year, one of them jointly with the Mykura Fund.

The Mykura Fund is to support fieldwork in Scotland. One grant was made during the year jointly with the Clough Fund.

### **Restricted Fund: Sponsored Projects**

The Society sponsors a number of special projects and invites donations specifically to fund them. Current projects are the provision of kits of geological specimen rocks for use as teaching aids in schools, and the production and publication of leaflets describing the geology of locations of geological interest in and around Edinburgh.

### **Accounting**

The gross income from investments and bank interest received during the year, together with net gains (losses) on disposal or revaluation of investments, has been apportioned to the various Endowment funds in the ratio of their opening balances.

The assets of the Society have been apportioned to the various Endowment funds in the ratio of their closing balances.

The Sponsored Projects funds carried forward are held in cash.

## Funds - continued

	Unrestricted Funds	Endowment Clough	Funds Mykura	Sponsored Projects	Total
	£	£	£	£	£
Investment income	2,214	563	185	-	2,962
Gift Aid	1,310	-	-	-	1,310
Sponsored Projects	-	-	-	580	580
Other incoming resources	<u>33,766</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>33,766</u>
<b>Total incoming resources</b>	<b><u>£37,290</u></b>	<b><u>£563</u></b>	<b><u>£185</u></b>	<b><u>£580</u></b>	<b><u>£38,618</u></b>
Grants and Awards	950	722	300	-	1,972
Sponsored Projects	270	-	-	4,880	5,150
Other outgoing resources	<u>29,025</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>29,025</u>
<b>Total outgoing resources</b>	<b><u>£30,245</u></b>	<b><u>£722</u></b>	<b><u>£300</u></b>	<b><u>£4,880</u></b>	<b><u>£36,147</u></b>
Gain on investments	<u>2,212</u>	<u>563</u>	<u>185</u>	<u>-</u>	<u>2,960</u>
<b>Net movement in Funds</b>	<b><u>£9,257</u></b>	<b><u>£404</u></b>	<b><u>£70</u></b>	<b><u>-£4,300</u></b>	<b><u>£5,431</u></b>
Funds brought forward	<u>75,313</u>	<u>19,149</u>	<u>6,310</u>	<u>6,554</u>	<u>107,326</u>
<b>Funds carried forward</b>	<b><u>£84,570</u></b>	<b><u>£19,553</u></b>	<b><u>£6,380</u></b>	<b><u>£2,254</u></b>	<b><u>£112,757</u></b>
<b>represented by:</b>					
Investments	59,705	13,804	4,505	-	78,014
Current assets	28,780	5,749	1,875	2,254	38,658
less - Current liabilities	<u>-3,915</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-3,915</u>
<b>Net assets</b>	<b><u>£84,570</u></b>	<b><u>£19,553</u></b>	<b><u>£6,380</u></b>	<b><u>£2,254</u></b>	<b><u>£112,757</u></b>



*"The Cruise of the Betsey"* 6-12 September 2014.  
The EGS part-sponsored a berth for a young Earth scientist.  
Image © Simon Cuthbert

## Obituaries (compiled by Ian Jackson)

During the year we recorded with the greatest regret the deaths of Honorary Fellows, Professor Howel Francis and Dr Douglas Grant, of Life Fellow, Professor Laing Ferguson, of Ordinary Fellows, Mr James Heatlie, Mr John Hull and Professor David Vincent, and of Senior Fellows, Mr William Taylor and Dr Robert Wilson.

**Laing Ferguson**, palaeoecologist and Emeritus Professor of Geology at Mount Allison University, Sackville, New Brunswick, Canada, was born in Dunfermline on 25<sup>th</sup> April, 1935. He obtained both his first degree (BSc, 1957) and PhD (1960) from the University of Edinburgh; for the latter, he investigated the palaeoecology of the shale directly underlying the Second Abden (= Hurllet) Limestone in Fife. In 1960 he emigrated to Canada, taking up a 2-year fellowship in Edmonton, Alberta, and joining the Society just before his departure. On completion, he was appointed Associate Professor at Mount Allison University, later Head of the Geology Department (1973-95) and then Emeritus in 1999.

In 1964, Laing's chance discovery of an extensive trackway made by a giant (2m long) myriapod, *Arthropleura*, at the classic Westphalian exposures of Joggins, Nova Scotia, led to a lifelong interest in this historic section, and his palaeoecological studies of the remarkable preservation of early tetrapod fauna in fossilized tree stumps. His acclaimed book *The Fossil Cliffs of Joggins* was published in 1988, and latterly, he played a key role on committees in the designation of Joggins as a UNESCO World Heritage site in 2008. Away from geology, Laing was a Rotarian and human rights activist; he co-founded the Canadian section of Amnesty International in 1973 and was its second President (1976). Hobbies included gardening and philately. He became a Life Fellow of the Society in the 2000-01 session, and died aged 78 in Sackville on 25<sup>th</sup> December 2013. See *The Scotsman* obituary ([scotsman.com/new/obituaries/obituary-dr-laing-ferguson](http://scotsman.com/new/obituaries/obituary-dr-laing-ferguson)) for further details.

**Edward Howel Francis**, field geologist, petrographer, Assistant Director with the Survey, Emeritus Professor of Earth Sciences at the University of Leeds, achieved considerable renown for his work in both soft rock and hard rock geology. He was born on 31<sup>st</sup> May, 1924 at Cwmavon, West Glamorgan and educated in Port Talbot. Studies at University College, Swansea were interrupted by army service (1944-47) before graduation (BSc) in 1949. Later that year, he started work with the field staff of the Geological Survey of Great Britain in Edinburgh; he joined the Society in the 1950-51 session. Thenceforth until 1962, his field seasons were spent in mapping

Carboniferous (the Clackmannan Coalfield ) and Devonian (the western Ochils) rocks on the old Stirling (39) Sheet; an equally important task, at a time of conspicuous exploration in the coal industry, was the logging of NCB boreholes (including, in the Firth of Forth, the first UK underground offshore coalfield boreholes), new shaft sinkings and subsurface mine sections in the Fife and Midlothian coalfields. In the winter months he carried out thin section petrography on his field specimens; he added relevant thin-section illustrations to his research papers examining the complex relationships between sedimentary and pyroclastic rocks in the Scottish Carboniferous - a neglected topic at that time. He was also the sole or lead author (e.g. the Stirling memoir, 1970) for two of the three Survey memoirs and the Coalfield Paper arising from this field work.

Howel rose rapidly through the ranks and moved to the Survey's Leeds office in 1962, after promotion to District Geologist (DG) of the North-Eastern District (later Unit), before sidestepping in 1967 to become DG of the North Wales Unit. Howel was made Assistant Director in 1971, responsible for all activities (including offshore surveys) in Northern England and North Wales. He entered academe for the first time in 1977, taking up the Chair of Earth Sciences at the University of Leeds and, despite the drastic 1980s restructuring of geology teaching in the UK, by the time he retired as Emeritus in 1989, the department had prospered significantly under his leadership and vision.

Howel's publications output was prodigious, with penetrating insights on the subject under discussion; his oeuvre was multi-regional, spanned the geological column (Ordovician to Rhaetian) and cross-disciplinary. His contributions to 12 books include two commanding chapters in the first three editions of *Geology of Scotland*. Of his two Presidential Addresses to the Geological Society of London, the 1981 address discussing emplacement of the Midland Valley and Whin sills is a *tour de force*.

Consequently, Howel received many honours and awards during his lifetime - FRSE (1962), DSc (Wales, 1969), President of the Geological Society of London (1980-82), Honorary Fellowship of the Society (our 1984-85 session) and of University College, Swansea (1989), as well as achievement medals from the London (1989), Yorkshire (1983) and Edinburgh (Clough Medal, 1982-83) geological societies. He served on many prestigious committees - 3 for the Royal Society of London, 6 for NERC (from 1971 to 1993) and 7 (including working parties) for the Geological Society of London (e.g. The Phanerozoic Time-scale, Professional Recognition for Geologists, Geology in Higher Education).

A keen cricketer in his early years and a keen golfer and birdwatcher in his later years, he returned to his native South Wales in 1997, where he died aged 89 in Bridgend on 22<sup>nd</sup> May 2014. Truly, a geological polymath. My thanks to Susan Fowell for her help; see also the obituary (but contains errors) at [www.geolsoc.org.uk/About Us/History/Obituaries-2014](http://www.geolsoc.org.uk/About%20Us/History/Obituaries-2014).

**Douglas Grant**, born in January 1918 and elected FRSE in 1949, was the Society's publisher from 1971 to 1990. He joined the Society in the 1952-53 session while working for the publishers Oliver & Boyd (O&B) in Edinburgh; at that time, he was a member of the Society of Master Printers of Scotland, becoming President of their Edinburgh Association during the 1960s. Throughout the entire 1950s and 1960s at O&B, he supervised all editorial matters and publishing ventures relating both to Society journals (the *Transactions of the Edinburgh Geological Society* and the first 6 volumes of the successor *Scottish Journal of Geology (SJG)*), and to the excursion guides (*Assynt District* and *Edinburgh Geology*). In 1962, the *Financial Times* acquired O&B, and two years later Douglas was appointed Managing Director to sort out their financial problems. Over that same two-year period, he was instrumental in advising the Edinburgh and Glasgow geological societies on sources of funding and publication constraints pending the launch of the *SJG* in 1965.

In 1970, Douglas left O&B to become Managing Director of his own company, Scottish Academic Press (SAP) which, in addition to titles in geology and outdoor studies, also published widely in the fields of mathematics, education and theology. SAP later published several Society excursion guides (*Moine*, *Scottish Borders*, *Lothian*), and from 1971 until 1990, also published the *SJG*; despite his managerial commitments, Douglas always chaired the journal's editorial board meetings. Farther afield, in 1971 he rescued the Geological Society of London (GSL) from a calamitous financial position and facing a large production backlog of delayed books and journal issues; until 1979, SAP published the GSL journals together with many significant geological titles and conference volumes (e.g. *The Caledonides Reviewed* in 1979). SAP went into receivership in May 1991, though Douglas later became a director of Dunedin Academic Press, which continues to publish titles in the same subjects as SAP, including geology.

He was awarded an Honorary DLitt in 1986 from the University of St Andrews. Douglas was convenor of the Society's Publications Committee from 1954 until 1990 - one of the longest periods of unbroken Society service in recent years; he was elected an Honorary Fellow in the 1997-8 session. As others have commented, the UK geological community (and the Society in particular) owes a debt of gratitude to Douglas Grant. He retired to North Berwick and died aged 96 on 25<sup>th</sup> July 2014.



**James William Macrea Heatlie** of Edinburgh joined the Society in the 2006-7 session and died in early 2014. A chemist by profession, he worked initially in the research division of ICI and later at Edinburgh Pharmaceutical Industries; he co-authored two research papers on amidrazones with collaborators at the University of Dundee in the 1970s. After leaving industry and retraining, he taught at Broughton High School and then Telford College. In retirement, he took a keen interest in gemmology - especially diamonds - and obtained Fellow and Diamond diplomas from the Gemmological Association of Great Britain; he was an active member of the Scottish Mineral and Lapidary Club. With thanks to Mrs Heatlie for supplementary biographical information.

**John Hewett Hull**, President of the Society from 1999 to 2001, and Assistant Director and Head of Station of the British Geological Survey in Scotland, died in Edinburgh aged 79 on 12<sup>th</sup> March 2014. Born in Manchester on 18<sup>th</sup> June 1934, he obtained both a BSc and MSc from the University of Birmingham; his early Survey career was characterized by several switches in specialism - from onshore to offshore geological mapping, to the assessment of bulk mineral resources. He was posted to the Leeds office of the then Geological Survey of Great Britain in 1958, where as a member of the North-Eastern District he was engaged in mapping cyclic Yoredale facies (mostly Namurian) and Westphalian measures across the Barnard Castle (32) and Brough-under-Stainmore (31) sheets; he was co-author of the Barnard Castle memoir.

He transferred to the Leeds-based Continental Shelf Unit I, when that unit was founded in 1967, and with others, pioneered the use in UK waters of sea bed sampling and coring techniques to map drift deposits and the bedrock geology; John participated in the Humber Estuary and North-east Irish Sea surveys and wrote the geology sections of the resultant reports. When the Mineral Assessment Unit was set up in 1971, he switched and was nominated head of the Leeds sub-unit investigating limestone resources in the Peak District, but with managerial responsibility for sand and gravel assessment throughout Northern England. He moved with the unit to Keyworth when the Leeds Office closed in 1976, and then in 1981 relocated to Edinburgh on promotion to District Geologist of the North Lowlands Unit, joining the Society in the same year.

The following year he was appointed Assistant Director, initially for onshore field surveys covering Scotland, Northern England and Northern Ireland. His time as Assistant Director from 1982 to 1994 was marked by repeated structural change in the Survey's reorganization, and for a short period John was Programmes Director for all land and marine activities in the northern

UK, though from 1991 until retirement in 1994, his remit shrank (!) to the Petroleum Geology, Geophysics and Offshore Surveys division. In 1994 he was elected FRSE, and in the same year accepted the Society's Clough Medal on behalf of the Survey, following completion of the Offshore Regional Mapping Project (the UK was the first country in the world to publish geological solid and drift maps covering its entire offshore area); John played a major role in that enterprise.

**William Tait Taylor**, who joined the Society in the 1983-84 session and became a Senior Fellow in the 1997-98 session, died in Edinburgh in November 2013.

**Ewart Albert Vincent** (but known always as David), mineralogist, geochemist and Professor of Geology for 20 years at the University of Oxford, was born in 1919, educated in Reading, and graduated from the University of Reading in 1940. His war years were spent in Scotland working in a laboratory on the analysis and testing of explosives. His PhD (1950), from Durham University under Prof LR Wager, examined the mineralogy and fractional crystallisation of Tertiary dykes from Skaergaard, East Greenland. In 1951 he joined Wager, by now at Oxford, as a University Demonstrator, with responsibility for petrology and setting up a silicate analysis laboratory. Throughout the 1950s and early 1960s, he investigated the geochemistry and mineralogy of layered cumulates from the Skaergaard Intrusion - particularly the sulphide and opaque iron-titanium oxide minerals; by 1956 he had been made Reader in Mineralogy, following his developmental work using gravimetric and neutron activation analysis and ore microscopy to augment the basic geochemical data for rare elements (e.g. cadmium and palladium). He was awarded the Wollaston Fund from the Geological Society of London in 1961. During his highly productive 5 years' spell (1962-67) as Professor of Geology at the University of Manchester, he expanded the department enormously, while also pursuing his mineralogical interests in esoteric igneous rocks from Skye (ferrodiorite and marscoite) and from Skaergaard; he joined the Society in the 1964-5 session.

In 1967, David returned to Oxford, succeeding Wager as Professor of Geology; there he became heavily involved with administrative duties and expanding the facilities for geophysics and geodesy teaching, and for isotope research and age dating. His research output was limited to joint papers with students on the more exotic elements (gallium, mercury) in Skaergaard rocks. Retiring in 1986 to Wytham near Oxford as Emeritus Professor, he later published a history of the Oxford geology department. David's non-geological interests were diverse - chemistry, photography, classical music, and European linguistics (he translated two textbooks - one geology, one

geochemistry - from the German). The palladium-platinum mineral vincentite,  $(\text{PdPt})_3\text{As}$ , is named after him. He died aged 93, on 24<sup>th</sup> December 2012 at Oxford, though the Society has only recently been notified of his death; for further information see the comprehensive obituary with portrait, in *Geoscientist* Vol 24/8 (September 2014).

**Robert Bryden Wilson**, palaeontologist with the British Geological Survey in Scotland, graduated (BSc) from the University of Glasgow, and in 1951 joined the field staff of the Geological Survey of Great Britain in London where, until 1953 he was tasked with mapping the Jurassic rocks of the East Midlands ironstone fields on the Northampton (185) and Bourne (143) sheets. He joined the Society in the 1955-56 session, shortly after he transferred to the Palaeontological Department in Edinburgh, where he spent the remainder of his career. There, his primary task was to complement the field mapping by identifying the Tournaisian to Namurian macrofauna, and use this to refine stratal correlations and stage dating of successions across southern Scotland. Between 1956 and 1988 he contributed the palaeontological sections to 11 Survey memoirs and two Coalfield Papers detailing Carboniferous successions in the Midland Valley and the Solway and Tweed basins; with Survey colleagues, he co-authored papers documenting the stratigraphy and palaeontology of both deep Survey boreholes (e.g. Archerbeck and Spilmersford) and shallower NCB boreholes (e.g. in the Douglas and Sanquhar coalfields). His most useful booklet *A History of the Geological Survey in Scotland* was published in 1977.

In the late 1950s and early 1960s, Bob redescribed, and in some cases reclassified, several type specimens of mostly marine Carboniferous bivalves from southern Scotland, correcting the mistakes in taxonomy of earlier workers and designating lectotypes where appropriate. His later studies concentrated on the distribution and composition of neritic shelf faunas in marker horizons (limestones and marine shales) in the Dinantian (e.g. the Macgregor Marine Bands and the Neilson Shell Bed) and Namurian successions. He served on the Geological Society of London Working Groups for the Dinantian (1976) and Silesian (1978) Special Reports, and compiled the Tournaisian, Viséan and Namurian sections for Scotland. Bob was elected FRSE in 1966 and awarded a DSc from the University of Glasgow in 1967. He retired in the mid-1980s, and died in Edinburgh on 26<sup>th</sup> March 2014. His finale, published in 1989, traced the correlation of 8 marine Lower Carboniferous marker horizons from Ayrshire to East Lothian. Bob's meticulous work underpinned the later refinement of Lower Carboniferous correlations both across southern Scotland and with the more precisely dated equivalents (especially Yoredale sequences) in Northern England.

