



# EDINBURGH GEOLOGICAL SOCIETY



## Annual Report and Proceedings

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181st Session  
2014-2015

[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 2015

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EGS member John Mendum endeavouring to simulate Millais’ portrait of John Ruskin at Glen Finglas, May 2015. Photograph © Beverly Bergman

Cover picture: Members of the Society viewing the spectacular Kannesteinen coastal erosional feature at Vågsøy during the Long Excursion to Norway in June 2015. Photograph © 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 2015. 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 2015 (Elected 28th January 2015)**

President: Christine Thompson  
Vice-Presidents: Richard Smith, David Stephenson  
Immediate Past President: Graham Leslie  
Secretary: Beverly Bergman  
Treasurer: Bob Morley  
Membership Secretary: Barbara Clarke  
Lectures Secretary: Graham Leslie  
Excursions Secretary: Mel Farquharson  
Assistant Secretary (Planning & Finance): Andrew Rushworth  
Assistant Secretary (Clough/Awards): Graham Leslie  
Assistant Secretary (Billet): Fiona M<sup>c</sup>Gibbon  
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. The Society also holds indemnity for its Trustees through Catlin Underwriting.

## **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 continued to pursue 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. In July, four EGS members took over 100 delegates at the Euroclay 2015 conference on a guided walk around the geology and natural history of Holyrood Park and Arthur's Seat, and in September six members led walks around Edinburgh for delegates to the XVI Soil Mechanics and Geotechnical Engineering Conference. Our affiliated local geoconservation groups continued to be active, with Lothian and Borders GeoConservation publishing a new leaflet, while others are in preparation.

### 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 part-funding berths for students on a further voyage inspired by Hugh Miller, led by the Royal Scottish Geographical Society and the Friends of Hugh Miller. The Planning and Finance Committee led the formulation of an EGS Strategy and its implementation plan, and advised on bids for grants in support of the Society's objectives. Past President and long-standing Council member Angus Macpherson stepped down towards the end of the year; we thank him for his dedication and valued contribution over many years and send him our good wishes.

### Membership

Total membership fell by 1, from 519 to 518. Twenty-eight new Fellows were elected, 3 became Distinguished, 8 died, 5 resigned, and 16 had their membership suspended as a result of non-payment of 2014-15 subscriptions.

The number of Fellows by membership category as at 30 September 2015 was:

Honorary Fellows	5	Senior Fellows	56
Distinguished Fellows	7	Family Fellows	27
Corresponding Fellows	6	Junior Associates	9
Life Fellows	11	Glasgow Associates	21
Ordinary Fellows	376		
		<b>TOTAL</b>	<b>518</b>

## Lectures Programme 2014-2015

The programme, organised by Lectures Secretary Graham Leslie, consisted of 11 meetings. They were enthusiastically received, with good attendances. Fellows' Night and the social evening took place on 10 December 2014 at BGS Murchison House, notwithstanding inclement weather which restricted attendance by members furth of Edinburgh. 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.

Lectures held during the session were:

- 2014**  
15 Oct **Professor John Parnell (University of Aberdeen)** Evidence for a deep biosphere in the geological record.
- 29 Oct **Dr Maarten Krabbendam (BGS Edinburgh)** Quaternary evolution of glaciated gneiss terrains: pre-glacial weathering vs. glacial erosion (or: How to make a *cnoc-and-lochan* landscape).
- 12 Nov **Dr Simon Cuthbert (University of the West of Scotland)** Eclogites and the fate of subducted continental margins.
- 26 Nov **Professor Colin Ballantyne (University of St Andrews)** Catastrophic landslides in Scotland and Ireland: timing, causes and implications.
- 10 Dec **Fellows' Night**
- 2015**  
14 Jan **Professor Peter Worsley (University of Reading)** The BGS glaciological expedition to Arctic Norway 150 years ago. **Joint 'celebrity' lecture with the Geological Society of Glasgow.**
- 28 Jan **Dr Stuart Clarke (Keele University)** Just a big pile of sand? The sedimentology of the desert system: environmental interactions, effects of climate change and practical implications.
- 11 Feb **Dr John Smellie (University of Leicester)** Antarctic glaciovolcanism.
- 25 Feb **Dr Diarmad Campbell (Chief Geologist Scotland, BGS)** Making better use of the ground beneath our cities; the Glasgow experience is that it helps to ASK . . . **Joint lecture with the Mining Institute of Scotland.**
- 11 Mar **Professor Rob Strachan (University of Portsmouth)** New light on the Caledonides of the Shetland Islands. **Clough Medal Lecture**
- 25 Mar **Professor Stuart Monro (University of Edinburgh)** A geological future in Scotland?

## Excursions Programme 2015

The programme, arranged by Excursions Secretary Mel Farquharson, comprised seven Saturday and four Wednesday evening excursions. 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 18 Apr    Rouken Glen and Fossil Grove, Glasgow. Leader: Alistair McGowan
- Wed 6 May    Central Edinburgh. Leader: Alistair McGowan
- Wed 20 May   Dunbar Harbour. Leader: Angus Miller
- Sat 23 May    Glen Finglas and Loch Katrine. Leaders: Christine Thompson and John Mendum
- Sat 20 Jun    Burnmouth, Berwickshire. Leaders: David Millward and Tim Kearsey
- Wed 24 Jun   Ravelrig and Dalmahoy. Leader: Richard Smith
- Wed 8 Jul    Grange Cemetery and Marchmont. Leader: Andrew McMillan
- Sat 18 Jul    Spireslack Opencast Coal Site. Leaders: Graham Leslie and Mike Browne
- Sat 22 Aug    Cellardyke, Fife. Leader: Rosalind Garton
- Sat 5 Sep    Trearne Quarry, Beith. Leaders: Alistair McGowan and Gary Hoare. Joint excursion with the Geological Society of Glasgow.
- Sat 26 Sep    Pentland Hills. Leaders: Ken Shaw and Mihaela Trelea-Newton

The Long Excursion 2015, which took place from 5-12 June, was to Western Norway. The group was based in Selje, which proved to be an excellent centre for studying the Western Gneiss Complex. In the course of the week, the group was introduced to spectacular ultra-high pressure metamorphic rocks, subcontinental mantle rocks, the world's biggest ductile shear zone and much else. All agreed that the Society's first venture overseas had been a great success, thanks in no small part to the expert leadership of Simon Cuthbert and, as ever, Anne Burgess's organisational prowess.

The Long Weekend excursion unfortunately could not take place this year.

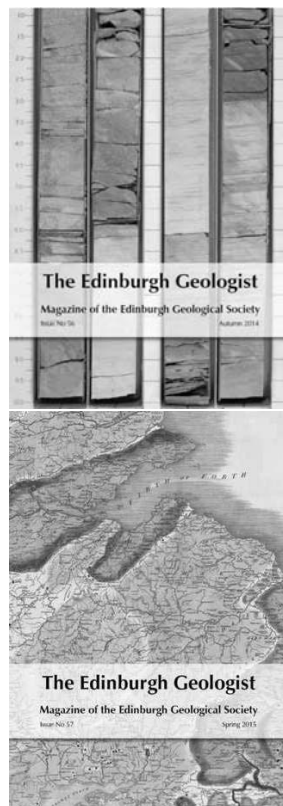


## Publications

The highlight of the year was the publication of the long-awaited Stirling and Perth excursion guide, edited by Mike Browne and Con Gillen, with diagrams by Angus Miller. A revised and updated guide to the the geology of Eigg, by John Hudson and Ann Allwright, originally published by the Isle of Eigg Heritage Trust, is being prepared by Angus Miller for publication by the EGS, and a guide to the geology of Mull, by John Faithfull and others, is in preparation.

Two editions of *The Edinburgh Geologist* were published, 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 50, Part 2 and Volume 51, Part 1, were produced. The marked increase in both quality and quantity of submissions reported by the Editorial Board last year has continued. Most notably, the paper on ichthyosaurs from Skye published in Vol. 51 Part 1 was the most downloaded article from all journals of the Geological Society Publishing House at one stage and was reported in the wider media. Fiona M<sup>c</sup>Gibbon 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 but will be standing down at the AGM after 4 years of valuable service in that role. Sales of older EGS publications continued to return a profit since all stocks have been fully depreciated and excursion guides published in recent years in association with NMS continued to sell well. The North-West Highlands Guide is now almost through its second print run and we are having to consider reprints of both that and possibly the Moine Guide. We have an urgent need to find a new location for the storage of books, due to the imminent relocation of the BGS, who currently store our books, to Riccarton. Depending upon how this is resolved, some rationalisation of stock may become necessary.



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

The Clough Medal for 2014-2015 was awarded to Professor Rob Strachan in recognition of his outstanding contribution to an understanding of the Precambrian and Phanerozoic geology of Scotland, based on unravelling the complex structural, sedimentological, metamorphic and geochronological history of ancient mountain systems and sedimentary basins.

Fieldwork grants of £1200 were awarded in 2015, made up of £415 from the Clough Fund, £185 from the Mykura Fund, and £600 from the EGS. Recipients were Richard Batchelor (Clough), Michael Dunk (EGS), Luke Hepworth (Clough & Mykura) and Amicia Lee (EGS). A further EGS grant was awarded to Rachel Whitty and Isla Simmons to support an attachment to the Icelandic Meteorological Office for work on volcanic monitoring.

The Clough Award for 2014-2015 went to Dr Nick Schofield for innovative work on the evolution of sedimentary basins affected by volcanism and sill complexes in the Faroe-Shetland Basin. 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 twice during the year and continued its work on the monitoring and designation of Local Geodiversity Sites. The Volunteer Group met monthly during the winter. The leaflet on Siccar Point was completed and published. 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, as well as a programme of walks for the 16th European Conference on Soil Mechanics and Geotechnical Engineering. Mike Browne, Chair of Lothian and Borders GeoConservation, stepped down as Chair of the national body, GeoConservation UK, after 9 years in office.

## **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 deficit on revenue account was £1,435 compared with a surplus of £2,471 in 2013-14 but as last year this overall figure was substantially depressed by expenditure from Restricted Funds (mainly sponsored projects) much of which had been received in previous years. Taking into account losses and gains on investments there is a small surplus of £510 on Unrestricted Funds available for the Society's general use (£9,257 in 2013-14). The net assets of the Society fell by £1,731 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. 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 and a major new guide was published towards the end of the 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. During the year the proportion of the funds invested in equities was increased and by year-end three-quarters of the Society's funds were 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 £111,026. 23% of these are Restricted Funds and are set aside for the purposes of those funds. The Unrestricted Funds mainly finance a portfolio of investments that generates income to help support the Society's activities. 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 reserves provide a buffer against unexpected contingencies, together with financial strength

and the ability to take opportunities that may present themselves in the future.

### **Plans for Future Periods**

The Society plans to continue its core programmes of lectures, excursions and publications together with some limited financial support for related activities by others. 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 and geoconservation leaflets continues and is paced and costed carefully.

## **Statement of Council's Responsibilities**

The Council is responsible for preparing the Report of Council and the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).

The law applicable to charities in Scotland, the Charities and Trustee Investment (Scotland) Act 2005, Charities Accounts (Scotland) Regulations 2006 (as amended) and the provisions of the charity's constitution requires the Council to prepare financial statements for each financial year which give a true and fair view of the state of affairs of the charity and of the incoming resources and application of resources, including the income and expenditure, of the charity for that period. In preparing those financial statements, the Council is required to:

- Select suitable accounting policies and then apply them consistently;
- Observe the methods and principles in the Charity SORP;
- Make judgements and estimates that are reasonable and prudent;
- Prepare the financial statements on the going concern basis unless it is inappropriate to presume that the charity will continue in business.

The Council is responsible for keeping proper accounting records which disclose with reasonable accuracy at any time the financial position of the charity and to enable them to ensure that the financial statements comply with the Charities and Trustee Investment (Scotland) Act 2005, the Charities Accounts (Scotland) Regulations 2006 (as amended) and the provisions of the charity's constitution. They are also responsible for safeguarding the assets of the charity and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

The Council is responsible for the maintenance and integrity of the charity and financial information included on the charity's website. Legislation in the United Kingdom governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

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

Christine Thompson, President

9 December 2015

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

**For the year to 30 September 2015**

I report on the Accounts of the Charity for the year ended 30 September 2015 which are set out on pages 15 to 20.

**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 2006 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 independent examiner's statement**

My examination was 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 the course of 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

9 December 2015

**Statement of Financial Activities including Income and Expenditure Account  
for the year ended 30th September 2015**

	Note	Unrestricted Funds - £	Restricted Funds - £	2015 total - £	2014 total - £
<b><u>Incoming Resources</u></b>					
<b>Voluntary income</b>					
Members' Subscriptions		9,239	-	9,239	9,315
Gift Aid tax refund		1,342	-	1,342	1,310
Donations		551	-	551	1,791
Investment income		2,485	763	3,248	2,962
<b>Income from Charitable activities</b>					
Excursions	3	17,580	-	17,580	18,575
Sponsored projects	8	-	600	600	580
<b>Fundraising trading:</b>					
Sales of Publications	4	<u>3,620</u>	-	<u>3,620</u>	<u>4,085</u>
<b>Total Incoming Resources</b>		<b><u>£34,817</u></b>	<b><u>£1,363</u></b>	<b><u>£36,180</u></b>	<b><u>£38,618</u></b>
<b><u>Resources Expended</u></b>					
<b>Fund management charges</b>					
		<u>480</u>	-	<u>480</u>	<u>480</u>
<b>Fundraising trading:</b>					
Cost of Sales	4	1,700	-	1,700	1,738
Illustrations - new Guide		<u>240</u>	-	<u>240</u>	-
<b>Charitable activities:</b>					
Lectures		2,053	-	2,053	2,007
Billet		1,870	-	1,870	1,692
Edinburgh Geologist		2,471	-	2,471	2,467
Excursions	3	18,052	-	18,052	18,786
Grants and Awards		4,269	731	5,000	1,972
Geological leaflets		854	240	1,094	1,990
Sponsored projects	8	-	2,564	2,564	3,160
Administration		801	-	801	979
<b>Total cost of Charitable activities</b>		<b><u>30,370</u></b>	<b><u>3,535</u></b>	<b><u>33,905</u></b>	<b><u>33,053</u></b>
<b>Governance costs</b>		<b><u>1,290</u></b>	<b>-</b>	<b><u>1,290</u></b>	<b><u>876</u></b>
<b>Total Resources Expended</b>		<b><u>£34,080</u></b>	<b><u>£3,535</u></b>	<b><u>£37,615</u></b>	<b><u>£36,147</u></b>
<b>Net Incoming (Outgoing) Resources before other recognised gains / losses</b>					
		<b>£737</b>	<b>£(2,172)</b>	<b>£(1,435)</b>	<b>£2,471</b>
Net (losses) gains on investments	5	<u>(227)</u>	<u>(69)</u>	<u>(296)</u>	<u>2,960</u>
<b>Net Movement in Funds</b>		<b><u>£510</u></b>	<b><u>£(2,241)</u></b>	<b><u>£(1,731)</u></b>	<b><u>£5,431</u></b>

*Continues overleaf*

Statement of Financial Activities including Income and Expenditure Account  
for the year ended 30th September 2015 - continued

Reconciliation of funds

Net Movement in Funds	b/f	<u>£510</u>	<u>£(2,241)</u>	<u>£(1,731)</u>	<u>£5,431</u>
Total funds brought forward		<u>£84,570</u>	<u>£28,187</u>	<u>£112,757</u>	<u>£107,326</u>
Total funds carried forward		<u>£85,080</u>	<u>£25,946</u>	<u>£111,026</u>	<u>£112,757</u>

Balance Sheet as at 30th September 2015

	Notes	£	2015 £	£	2014 £
<b>Investments</b>	5		77,399		78,014
<b>Current Assets</b>					
Stock of Publications	4	3,319		521	
Other Stocks		0		106	
Debtors and prepayments		587		598	
Bank		<u>34,284</u>		<u>37,433</u>	
		<u>38,190</u>		<u>38,658</u>	
<b>Creditors</b>					
Creditors and provisions - amounts falling due within one year	6	<u>4,563</u>		<u>3,915</u>	
<b>Net Current Assets</b>			33,627		34,743
<b>Net Assets</b>			<u>£111,026</u>		<u>£112,757</u>
Representing:					
<b>Unrestricted funds</b>					
General Fund	8		85,080		84,570
<b>Restricted funds</b>					
Permanent endowment	8		25,896		25,933
Sponsored projects	8		50		2,254
<b>Total funds</b>			<u>£111,026</u>		<u>£112,757</u>

The notes on pages 17 to 20 form part of these accounts.

Approved by Council and signed on its behalf by

R Morley, Treasurer  
9 December 2015



## 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 (as amended) 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 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:-

	2014 / 15		2013 / 14	
	Contributions	Cost	Contributions	Cost
	£	£	£	£
Day Excursions	904	1,505	878	1,277
Weekend Excursion	-	-	3,106	3,086
Long Excursion	16,520	16,301	14,315	14,221
Fellows' night	<u>156</u>	<u>246</u>	<u>276</u>	<u>202</u>
Total	<u><b>£17,580</b></u>	<u><b>£18,052</b></u>	<u><b>£18,575</b></u>	<u><b>£18,786</b></u>

### 4. Publications

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 Guides are written off at the greater of 20% pa or pro rata to Sales. No depreciation has been charged this year.

### 5. Investments

Analysis of Movements of Investments

	£
Carrying value (market value) at beginning of year	78,014
Add: Additions to Investments at cost	11,169
Less: Disposals at carrying value	(11,518)
Less: Net loss on revaluation	<u>(266)</u>
Carrying value (market value) at end of year	<u><b>£77,399</b></u>
Note - Net loss realised during the year	(30)
Loss on revaluation	<u>(266)</u>
Net loss on Investments	<u><b>(£296)</b></u>

### 6. Creditors and Provisions

	2015	2014
	£	£
Loan by Chairman of S&C RIGS Group	2,180	2,180
Miscellaneous	<u>2,383</u>	<u>1,735</u>
Total	<u><b>£4,563</b></u>	<u><b>£3,915</b></u>

## **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 (£183) were refunded to 2 members of Council, and other costs totalling £872 incurred on behalf of the Society were refunded to 7 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 Endowment Funds Sponsored				Total
	Funds	Clough	Mykura	Projects	
	£	£	£	£	
Investment income	2,485	575	188	-	3,248
Sponsored Projects	-	-	-	600	600
Other incoming resources	<u>32,332</u>	-	-	-	<u>32,332</u>
<b>Total incoming resources</b>	<b><u>£34,817</u></b>	<b><u>£575</u></b>	<b><u>£188</u></b>	<b><u>£600</u></b>	<b><u>£36,180</u></b>
Grants and Awards	4,269	546	185	-	5,000
Sponsored Projects	854	-	-	2,804	3,658
Other outgoing resources	28,957	-	-	-	28,957
<b>Total outgoing resources</b>	<b><u>£34,080</u></b>	<b><u>£546</u></b>	<b><u>£185</u></b>	<b><u>£2,804</u></b>	<b><u>£37,615</u></b>
Loss on investments	<u>(227)</u>	<u>(52)</u>	<u>(17)</u>	-	<u>(296)</u>
<b>Net movement in Funds</b>	<b>£510</b>	<b>(£23)</b>	<b>(£14)</b>	<b>(£2,204)</b>	<b>(£1,731)</b>
Funds brought forward	84,570	19,553	6,380	2,254	112,757
<b>Funds carried forward</b>	<b><u>£85,080</u></b>	<b><u>£19,530</u></b>	<b><u>£6,366</u></b>	<b><u>£50</u></b>	<b><u>£111,026</u></b>

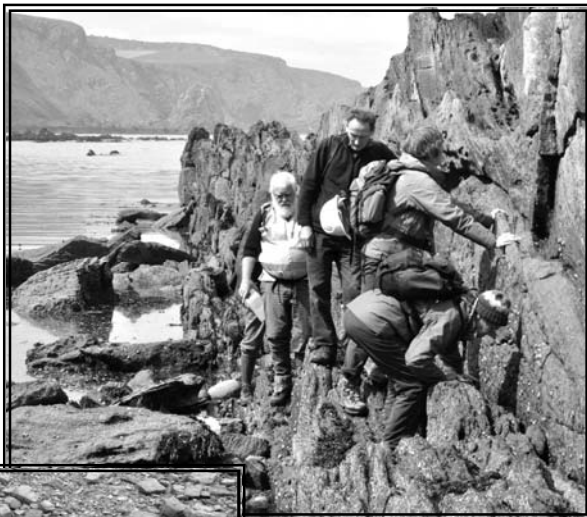
represented by:

Investments	59,235	13,695	4,469	-	77,399
Current assets	30,408	5,835	1,897	50	38,190
less - Current liabilities	<u>(4,563)</u>	-	-	-	<u>(4,563)</u>
<b>Net assets</b>	<b><u>£85,080</u></b>	<b><u>£19,530</u></b>	<b><u>£6,366</u></b>	<b><u>£50</u></b>	<b><u>£111,026</u></b>



View of Selje, Norway from above the hotel.  
EGS Long Excursion June 2015.  
Sketch © Alison Kerr.

**RIGHT**  
EGS members search for tetrapod fossils at Burnmouth, under the watchful eye of leader David Millward. Saturday 20 June 2015



**BELOW**  
EGS members Richard Smith and David Blythe examine one of the 'Cellardyke Funnels'. Saturday 22 August 2015



**A SELECTION  
OF VIEWS  
FROM EGS  
EXCURSIONS  
SUMMER 2015**

**RIGHT**  
'Geology in 3D'  
EGS members view spectacular dykes and faulting in the 1.3km long exposed face at Spireslack open-cast coal site. Saturday 18 July 2015



Photographs  
© Beverly Bergman

## Obituaries (compiled by Ian Jackson)

During the year we recorded with the greatest regret the deaths of Honorary Fellow, Professor Gordon Craig, of Corresponding Fellow, Ingenieur Bob Hageman, of Ordinary Fellows, Dr Russ Evans, Mr Andy Hunter and Mrs Alison Mykura, and of Senior Fellows, Mr David Grinly and Mr Alyn Jones.

**Gordon Younger Craig**, palaeoecologist, Emeritus Professor of Geology at the University of Edinburgh and editor *par excellence* of Scottish geological literature for over 40 years, died aged 89 on 3<sup>rd</sup> October 2014. Gordon also played a substantive role in Society affairs for over 65 years. He was the joint longest elected member (joining in the 1947-48 session, subsequently serving as an Ordinary Member of Council and convenor of the Excursions Committee (both 1949-53), Vice-President (1961-64) and President (1967-69); he was a Clough Medallist (1986-87 session), and was elected Honorary Fellow in the 1996-7 session). He also edited the Society excursion guide *The Geology of the Lothians and South East Scotland*, the forerunner of the present-day *Lothian Geology*, and between 1969 and 1981, led five Society excursions.

He was born on 17<sup>th</sup> January 1925 in Milngavie and graduated from the University of Glasgow in 1946 (BSc, Geology); after a further 12 months there as a demonstrator, he was appointed Lecturer in Geology at the University of Edinburgh, converted to a lectureship in Palaeontology on gaining his PhD in 1951. His PhD, undertaken during full time employment, inspired two concise but oft-cited papers in UK palaeoecological literature - on *Lingula*, and on the marine benthonic faunas of the Top Hosie Shale at Kilsyth. Later (1956) he published accounts of the neglected Dinantian outliers of Kirkbean, Colvend and Rerrick on the north Solway coast.

After a sabbatical at the University of Colorado in 1958, he plunged into an investigation, assisted by Ken Walton, of the structure, sedimentology (turbidite sole marks) and Silurian graptolite biostratigraphy of the Kirkcudbrightshire coast, in which their recognition of numerous strike faults anticipated the later accretionary prism model. Promotion to Senior Lecturer and Reader followed in 1960, and he was elected FRSE in 1964; his prolific research output in the years 1962-72 focussed on ecological studies of shelly marine communities, both ancient and modern.

The *Scottish Journal of Geology (SJG)*, first issued in 1965, was Gordon's brainchild (with guidance on finance from Douglas Grant), and successfully

merged the existing *Transactions* of the Glasgow and Edinburgh geological societies; Gordon was the last editor of *TEGS* (1954-64) and the first *SJG* editor (1965-66). *The Geology of Scotland* also first appeared in 1965 with Gordon as sole editor, a prodigious feat that he embraced with two succeeding editions (1983, 1991).

Fittingly, in view of later events, Gordon was appointed the first James Hutton Professor of Geology (1967-84) and was later Head of Department (1981-84); research opportunities were limited by administrative duties. Following the chance unearthing by the Clerk family of Penicuik in 1968 of the 'lost drawings' of Hutton's third volume of the *Theory of the Earth*, Gordon, together with Charles Waterston and Donald McIntyre studiously tracked down the depicted localities and produced a sumptuous folio, with Gordon as senior author of the explanatory text (1978). Together with Jean Jones, he compiled *A Geological Miscellany* in 1985 (and recently reprinted) - a potpourri of humorous prose and sketches highlighting the idiosyncrasies of the geological profession.

In retirement after 1984, Gordon rigorously pursued his interest in the history of geology; from 1984-89 he was President of the International Commission on the History of Geological Sciences, and in 1990 received the annual History of Geology award from the Geological Society of America. In 1997 together with John Hull, he organised a Geological Society of London conference commemorating the bi-centenary of Hutton's death, and he also edited the published proceedings. He contributed to the text and design of early exhibits at Our Dynamic Earth of which he was a founder Trustee (1995-2001). Golf and his garden at Lasswade were his leisure interests. Longer obituaries can be found in Vol 51, *SJG* and on the Royal Society of Edinburgh website, by Euan Clarkson and Stuart Monro respectively.

**John Russell Evans**, seismologist, Head of Geophysics and Marine Geosciences at the British Geological Survey (BGS), Edinburgh, was born in 1949 and brought up in Monmouthshire. He graduated from King's College, Cambridge (BA, Pure Mathematics) in 1971, then proceeded to an MSc in Maths at Warwick University and a geophysics PhD (1976) at Cambridge - on the variation of Earth strain tides across the UK. Following an invitation from Stuart Crampin during a two-year post-doc fellowship at the Carnegie Institution, Washington DC, he joined the Global Seismology Unit of the then Institute of Geological Sciences in Edinburgh in 1978.

From 1979-1987, but particularly until 1984, Russ played a pivotal role in setting up radio-linked seismometer arrays around the Marmara Sea in Turkey (and simultaneously becoming fluent in Turkish). This Turkish Dilatancy Project was the first ever to prove crack-induced shear-wave splitting; its success led to his later collaboration (up to 1991) with university research projects refining the wave analysis in other seismically active areas (southern California, and around Lake Bogoria in the Kenya Rift). Russ was also a skilled computer programmer and the first BGS person to develop his own website.

Russ joined the Society in the 1991-2 session, and in 1992 moved sideways to take charge of the Regional Geophysics Group in Edinburgh. He managed the editorial board of *Geophysical Journal International* from 1997-2008, having obtained an MBA qualification in 1994. In 2000 he was promoted to a managerial post, as Head of Geophysics and Marine Geosciences throughout BGS, responsible for staff mentoring and project management. Despite this, his contributions to published studies ranged from the 1999 earthquakes of Athens and Izmit, to crustal velocity variations adjacent to the Iapetus Suture, and modelling ultra-sensitive variations in the Earth's gravity gradient.

From 2010 onwards, Russ fronted the BGS involvement in the Preparatory Phase of the European Plate Observing System project, which aims to integrate earth science research infrastructure across Europe. He also assisted in a study to predict the regional maximum magnitude of earthquakes across the UK. His outside interests included rugby and music (both jazz and playing the keyboard). He died, aged 65 in Edinburgh on 1<sup>st</sup> December 2014. A more complete tribute by David Kerridge appears in Vol 56, *Astronomy & Geophysics*.

**David Grinly**, a teacher of geography and geology at Wallace High School, Stirling, died at Alva, Clackmannanshire on 28<sup>th</sup> April 2015. He joined the Society in the 1986-87 session, and in 1996 co-authored an account with Mike Browne on the Geology of Clackmannanshire (for the *Forth Natural History*).

**Bob Pieter Hageman**, Quaternary stratigrapher, Director of Rijks Geologische Dienst (RGD, Netherlands Geological Service), was born on 19<sup>th</sup> August 1924 at Zoeterwoude, near Leiden. In the 1960s he devised the 'profile' method of portraying Holocene marine, tidal and alluvial sequences on state geological 1:50k maps, based on his mapping of the large Goeree-Overflakkee delta island and adjacent parts of the Maas estuary. In the 1970s and 1980s, he championed the use of thematic engineering geology maps of Quaternary sediments and their value in the environmental planning of Dutch coastal areas.



Throughout his career he took a keen interest in Holocene stratigraphy worldwide, but especially the marine intervals in the Dutch succession. He was Chairman of the Holocene Commission from 1965-74, and his report to the VIII INQUA (International Union of Quaternary Research) congress in Paris in 1969, made the momentous proposal to define the base of the Holocene chronometrically, at 10,000 years BP. During his time at Haarlem as Director of RGD (1975-86), he co-edited the definitive Cenozoic-Palaeozoic stratigraphic nomenclature scheme for the Netherlands (1980). In the Society's Sesquicentennial Year (1984-85), he attended the 4<sup>th</sup> Meeting of European Geological Societies (MEGS 4) co-organised by the Society and held at BGS Murchison House and, was nominated as a Corresponding Fellow by Council in recognition of his contribution to geological mapping and engineering geology in the Netherlands; he delivered the Society's James Wright Memorial Lecture the following year.

Bob served as Treasurer of INQUA from 1987 to 1991, and co-edited the Applied Quaternary Research volume stemming from the XII INQUA congress at Ottawa in 1987. In the late 1980s, he produced reports for the government on the disposal of radioactive waste in rock salt formations in the Netherlands. He died at Leiden on 17<sup>th</sup> May, 2015, aged 90. With thanks to his son, Robbert Jan Hageman, for biographical details.

**Michael Andrew Richard Hunter**, who enjoyed a rich and varied life as a community and social care manager, charity fundraiser and donor, local activist, professional storyteller and tour guide, was born in Hereford on 1<sup>st</sup> November 1954. He did not enjoy his time at prep school nor at Eton College, and he shunned the opportunity to manage and farm the family estate at Michaelchurch Escley, Herefordshire. After securing an agricultural qualification from Harper Adams Agricultural College (now University) at Newport, Shropshire, he spent a year at Barony Agricultural College near Dumfries in the late 1970s.

Andy changed direction completely in 1980, moved to Edinburgh, and worked briefly for the Edinburgh Cyrenians, and then the Scottish Association for Mental Health, assisting with horticultural work schemes for the mentally impaired. In 1981 together with a friend, he became founder and benefactor of the Edinburgh Community Trust (now the Forth Sector charity) supporting the unemployed. After retraining as a social worker, he returned to the third sector in the early 1990s, and for the next 18 years was employed by Garvald Edinburgh, latterly as a manager, providing services for those with learning disabilities.

Andy was a keen naturalist and forager, who cared deeply about the environment. In 2008 he again changed direction, and combined three of his passions (the outdoor life, use of sustainable transport - cycling - and storytelling) by forming Story Bikes, and guiding cycle tours around Edinburgh and southern Scotland. As raconteur, he interwove local history, heritage and folk tales into the day's itinerary, and this whetted his appetite for geology and landscape and led to his membership of the Society in the 2011-12 session.

Outside formal employment, Andy pursued numerous activities, e.g. humanitarian and philanthropic causes such as Network for Social Change funding; he co-founded the Life Stories Project (visiting the elderly), and provided employment for the underprivileged via his guest house purchase in Edinburgh. He lobbied and campaigned in protest movements (from Greenham Common to cycle lanes in Edinburgh), was treasurer of the Scottish Storytelling Forum, organiser for the Guid Crack Club in Edinburgh, a chorister, wood-carver and a member of the Magic Circle. He died unexpectedly on 5<sup>th</sup> January 2015, aged 60, while cycling in Herefordshire near the family estate. An illustrated obituary appeared in *The Scotsman* of 27<sup>th</sup> March 2015.

**Alyn Robert Lindsey Jones**, coal geologist with the National Coal Board (NCB), was born in Manchester in 1927 into a family with a strong geological tradition. His grandfather was an avid specimen collector; both parents were professional geologists - his father, RCB Jones, had a long and distinguished Geological Survey field career in NW England and Scotland, and his mother lectured briefly at Ann Arbor, Michigan - and his younger sister also gained a geology degree. Alyn experienced the rigours of field work at a very early age when, as a 6 week-old baby he was uprooted from Manchester to Orkney, while his father mapped North Ronaldsay!

The family moved to Berkhamsted, Herts in 1937, but surprisingly Alyn's teenage schooling was spent at Strontian and then Clachan, Kintyre, when in 1940 his mother elected to remain on Ardnamurchan to avoid the London Blitz. His university education was halted by National Service, and he opted to become a mining engineer Bevin Boy (1946-48) in the Denbigh Coalfield around Wrexham. After graduating from the University of Edinburgh (BSc Geology) in 1953, and joining the Society in the 1953-54 session, he took a job at Leadhills for the next two years reassessing the economic viability of the old lead mines.

Then in 1955 he joined the NCB, initially prospecting sites for the Opencast Executive from their Wrexham office. In 1958 he transferred to the deep mines division at Stoke-on-Trent, and after several office relocations returned to Stoke in 1966 with geological responsibility for coalfields in North Wales, Cumberland and Lancashire. He moved to Ashby-de-la-Zouch in 1976, as Area Geologist for the Leicestershire, Warwickshire and Kent coalfields; in 1984, he co-authored a definitive treatise on procedures in coal mining geology for the NCB.

Following retirement in 1986, he made five annual visits to India consulting on their coal developments. He left Ashby in 2001 and moved to Dunoon, becoming a regular contributor to *The Edinburgh Geologist*. Alyn was using computers for data storage and retrieval as early as 1966; he was President of the Liverpool Geological Society (1964-66), and was elected as one of the 20 Founding Fellows of the Institution of Geologists "college" in 1985. Away from geology, he enjoyed sailing (especially off the Scottish west coast), walking, music, and in retirement, caravanning. He died, aged 87 at Dunoon on 19<sup>th</sup> November, 2014. With grateful thanks to his widow, Alison, for persuading Alyn to pen an autobiography that she kindly copied to the Society, and for providing extra biographical detail.

**Alison Fleming Mykura** was born on 17<sup>th</sup> June 1926 and joined the Society in the 1983-84 session. She was the widow of the Survey geologist, the late Walter Mykura, and served as an Ordinary Member of Council from 1989-91. Alison regularly attended lectures and Society excursions, including the week excursion, in the 1980s and 1990s. She died aged 89 in Edinburgh on 29<sup>th</sup> August 2015.



Memorials to James Bryce (1806-1877), who was "killed by a fall of rocks while geologizing" at Inverfarigaig, Loch Ness. He is buried at The Grange, Edinburgh and his grave was visited by members of the EGS during a Wednesday evening excursion on 8 July 2015.

Photographs © Andrew McMillan

