



EDINBURGH GEOLOGICAL SOCIETY



Annual Report and Proceedings

182nd Session
2015-2016

www.edinburghgeolsoc.org

Charity registered in Scotland SC008011

Edinburgh Geological Society

Report of Council for the Year Ended 30th September 2016

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Curvilinear hinge to an isoclinal first fold in a hard sandstone bed within Dalradian Easdale Slate Formation, with Gylen Castle visible in the background. Long Weekend Excursion, 18 September 2016. Photograph © Beverly Bergman

Cover picture: Members of the Society viewing the spectacular Devonian sedimentary rocks at Pease Bay during the Joint Excursion with the Geological Society of Glasgow, 25 June 2016. 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 2016. 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: SC008011

Revenue & Customs No.: CR 30310

Registered Office: None

Official Contact Address: c/o Ms C Ranken, 4 Newbyth Steading, East Linton
EH40 3DU

Council 2016 (Elected 27th January 2016)

President: Stuart Monro

Vice-Presidents: Robert Gatliff, Emrys Phillips

Immediate Past President: Christine Thompson

Secretary: Beverly Bergman

Treasurer: Christian Ranken

Membership Secretary: Barbara Clarke

Lectures Secretary: Graham Leslie

Excursions Secretary: Mel Farquharson

Assistant Secretary (Planning & Finance): Andrew Rushworth

Assistant Secretary (Billet): Fiona M^cGibbon (*resigned 4 July 2016)

Assistant Secretary (Clough/Awards): Graham Leslie

Assistant Secretary (Publications): David Stephenson

Publication Sales Officer: Don Cameron

Librarian & Archivist: Vacant

Scientific Editors: Maarten Krabbendam, Breandán MacGabhann

Ordinary Members: Mike Browne, Richard Smith, Richard Buxton, Alison Tymon, Chris Lofthouse

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 to January 2016 then Spiers & Jeffrey, George House, 50
George Square, Glasgow G2 1EH

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, which is professionally managed externally, 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. Participants are required to abide by all relevant codes of good practice for fieldwork. 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 one paid employee, the Promotion Secretary, appointed in June 2016 on a two-year contract for services to provide an average of one day per week at £5,000 per year. 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 Editorial Board.

The Society is a founding member of the Scottish Geodiversity Forum, which aims to promote Scotland's geodiversity, and which 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, the Ranger Service, and a variety of outreach events. 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 five 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 a number of initiatives which are detailed at page 10, making grants totalling £3,585. A new venture was the appointment of Angus Miller as Promotion Secretary, a paid appointment which aims to raise the profile of the society and boost membership. The Planning and Finance Committee continued to take forward the implementation of the EGS Strategy, and advised on bids for grants in support of the Society's objectives.

Membership

Total membership rose from 518 to 522. There were 27 new Fellows elected, 7 died, 8 resigned and 8 had their membership suspended as a result of non-payment of 2014-15 subscriptions. 12 Ordinary Fellows transferred to Senior Fellow status and 2 joined the Society as Senior Fellows. Online application for membership began in September 2016. The number of Fellows by membership category as at 30th September 2016 was:

Honorary Fellows	5	Senior Fellows	67
Distinguished Fellows	7	Family Fellows	25
Corresponding Fellows	6	Junior Associates	9
Life Fellows	10	Glasgow Associates	19
Ordinary Fellows	374		
		TOTAL	522

Lectures Programme 2015-2016

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 9 December 2015 at BGS Murchison House, the last time this event would be held there prior to the move of BGS. 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:

- 2015**
- 14 Oct **Prof. Euan Clarkson (University of Edinburgh)** The Cambrian Alum Shales of Scandinavia and their extraordinary faunas.
- 28 Oct **Dr Adrian Hall (University of St Andrews)** Glacial erosion of oldlands.
- 11 Nov **Dr Nick Schofield (University of Aberdeen)** A World of Intrusions: From Salisbury Crags to South Australia (and back again). **Clough Award Lecture.**
- 25 Nov **Professor Rachel Wood (University of Edinburgh)** The 'Great Dying': what really happened 252 million years ago?
- 9 Dec **Fellows' Night**
- 2016**
- 13 Jan **Dr Steve Brusatte (University of Edinburgh)** Scotland's Jurassic Park: The Isle of Skye and New Fossil Discoveries by the PalAlba Group
- 27 Jan **Hamish Johnston.** Matthew Forster Heddle, Mineralogist, Mountaineer and former EGS president.
- 10 Feb **Professor Zoe Shipton (Strathclyde University)** The energy trilemma in Scotland: can shale gas help?.
- 24 Feb **Dr Ruth Robinson** (University of St Andrews) Geothermal Project for Heating at Guardbridge.
Joint lecture with the Mining Institute of Scotland.
- 9 Mar **Dr Brian Bell (University of Glasgow)** Palaeogene magmatic evolution of Western Scotland, with a nod to the work of Clough **Clough Medal Lecture**
- 23 Mar **Paul Mellon and Steve Deykin (Forth Replacement Crossing Employer's Delivery Team)** Aspects of Engineering Geology for the Main Crossing, and Ground Model and Associated Ground Improvement Techniques for the Northern Approach Roads.

Excursions Programme 2016

The programme, arranged by Excursions Secretary Mel Farquharson, comprised three Saturday and four Wednesday evening excursions. Unfortunately two other planned Saturday excursions at the start of the programme had to be cancelled at short notice owing to non-availability of leaders, and a mapping weekend planned for September was cancelled owing to lack of support. The remaining 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:

- Wed 20 Apr Corstorphine Hill, Edinburgh Leader: Ken Shaw
- Wed 11 May Mills and medicinal wells: a walk through Stockbridge. Leader: Beverly Bergman
- Wed 22 Jun South Queensferry Shore. Leader: Richard Smith
- Sat 25 Jun Pease Bay & Siccar Point. Leader: Angus Miller. Joint excursion with the Geological Society of Glasgow.
- Wed 6 Jul Local Geodiversity Sites of East Edinburgh. Leader: Alistair McGowan
- Sat 23 Jul Giant Sand Volcanoes, St Andrews. Leader: Rosalind Garton
- Sat 20 Aug Silver Glen, Alva & Mill Glen, Tillicoultry. Leader: Con Gillen

The **Long Excursion** 2016, which took place from 21-28 May, was to Yorkshire. The group was based in Ravenscar which was an excellent base for studying the Jurassic and Cretaceous sedimentary rocks from the Cleveland Ironstone at Staithes down to the Chalk at Flamborough Head. Visits inland to Knaresborough, and a day of 'geology by train' to look at the glacial landscapes and Middle Jurassic along the North York Moors Railway, completed an excellent week. Thanks are due to leaders Steve Livera, Pete Rawson, Doug Holliday and Paul Hildreth and, as ever, to Anne Burgess for expertly pulling it all together.

The **Long Weekend** excursion (16-19 September) was based in Oban, taking in the Slate Islands of Luing, Kerrera, Seil, Easdale and Garbh Eilach. Thanks to leaders Roger Anderton, John Sedgwick, David Stephenson, Richard Smith, Con Gillen and Julian Overnell, we covered an immense amount of geology in the three days. Thanks are due to Christine Thompson for expertly and successfully organising a highly complex programme!

Publications

An extensively revised and updated guide, *The geology of Eigg*, by John Hudson, Angus Miller and Ann Allwright, was published with the collaboration of the Isle of Eigg Heritage Trust. The first edition was published and sold mainly on the island but this second edition, published by the EGS, is much more widely distributed and has been very well received. A reprint of *A geological excursion guide to the North-west Highlands of Scotland* takes its sales into a third print run. Stocks of *An excursion guide to the Moine Geology of the Northern Highlands of Scotland* are low and it is being considered for re-release on a print-on-demand basis.

Publication of the *Scottish Journal of Geology* continued in partnership with the Geological Society of Glasgow, through the Geological Society Publishing House. Two issues, Volume 51, Part 2 and Volume 52, Part 1, were produced, with a total of 16 high-quality research papers on a wide variety of subjects and 3 book reviews. See page 11 for a full report. Two editions of *The Edinburgh Geologist* were published, under the editorship of Phil Stone and Bob McIntosh. Beverly Bergman edited an issue of the *Billet* in the spring, and in the autumn the *Billet* was replaced by a new-format *Newsletter*, edited by the Promotion Secretary, Angus Miller. The full-colour *Newsletter* was distributed to members as hard copy but is also available online, via the Society's web site and, in addition to keeping members informed about the Society's activities, it will be used to promote the Society to a wider readership of non-members. Items intended for members only will be included in future in a separate publication to be distributed with the Annual Report. The GeoConservation Groups continued to produce leaflets, as described on Page 12; a full list can be found on our website at www.edinburghgeolsoc.org/r_download.html.



Don Cameron replaced Angus Miller as Publication Sales Officer in January 2016. Volumes of book sales have been close to the 5-year average. The new edition of *The geology of Eigg* accounted for more than 20% of book sales and the 4 titles published jointly with National Museums Scotland have continued to sell well. However, sales of some of the older publications (*Building stones of Edinburgh*, *Geology of Fife and Angus*, *Lothian geology - an excursion guide*) have dropped significantly this year. In previous years, the British Geological Survey has provided free storage for the EGS stock of books and geoconservation leaflets, but this is no longer available following the BGS relocation to the Heriot-Watt campus. Hence in December 2015, the entire stock was transferred to secure rental storage in Bonnington. Storage is currently costing the Society approximately £1,200 per year and the search continues for an alternative.

Grants

The EGS Council's grant scheme received a number of applications during the year. The following were approved, to a total of £3,585.

Northwest Highland Geopark	£785	The second EGS contribution to the provision of interpretation boards at the "Rockstop" visitor centre near Kylesku
Rocks for Schools	£600	Funding of a further 10 rock kits
PalAlba Group	£500	Contribution towards fieldwork on Skye
Lochaber Geopark Association	£500	Contribution towards a new interpretation board at Kentallen
Dynamic Earth	£500	Contribution to funding a 2-day event in October on careers in Earth and Space Sciences
Gairloch High School	£350	For purchase of 6 clinometers as part of initiative to introduce an A-level geology course as a pilot in Scotland
LaBGC	£350	Contribution to urgent repair of the vandalised Witchcraig Wall

Scottish Journal of Geology

Editor's Report December 2016

This has been a difficult year for the SJG. Members will already be aware that issue 52/1 was slim and regrettably 52/2 will be the same. Although our readership has risen dramatically as a result of our exposure in both the Lyell Collection and Geoscience World (Steven Brusatte's paper on trackways had 2351 readers in a matter of days!), and our impact value is now a respectable 0.87, formidable barriers remain. Not least among these is the shift in emphasis of how the performance of professionals is measured in universities and other institutions. Members of staff are advised that only papers in high impact journals will count towards their assessment.* This tenet is apparently applied across the board and as a result we are ignored by staff and our offers of mentoring for students wishing to publish remain ignored. Apart from our specific problems, the fear is that this will result in a loss to science because papers that might otherwise be suitable for publication in SJG and similar journals will remain unwritten. A substantial number of papers published in recent years have been by retired persons who thankfully cannot be influenced in this way. We are grateful for their contributions but remind readers that we are also open to submissions from others. Geology is prominent among sciences where amateurs can become experts, but where are the papers?

The composition of the Board has changed dramatically in the last year. Robert Duck retired at the end of last year, after many years of service, and has been replaced by Martin Kirkbride (University of Dundee); Alan Stevenson has also retired, again after long service, and is replaced by Heather Stewart (BGS Edinburgh); Breandán MacGabhann has stepped down and we are currently seeking a palaeontological replacement. Finally, Sally Oberst, who has provided sterling service as our Production Editor at the Geological Society Publishing House, has resigned and is replaced by Patricia Pantoş. Fortunately this did not all happen at once. The next year, 2017, promises to be challenging.

*[*There is generally an inverse relationship between a journal's impact factor and its level of interest to a wide general readership. High impact journals tend to be aimed at the specialist reader. Ed.]*

The Clough Medal and Research Grants

The Clough Medal for 2015-2016 was awarded to Dr Brian Bell in recognition of his exceptional contribution to Scottish geology through his research and teaching, his interaction with the hydrocarbon industry, and as one of the editors of the *Scottish Journal of Geology*.

Fieldwork grants of £900 were awarded in 2016, made up of three grants of £300 from the Clough Fund. Recipients were Anna Bidgood (Oxford), Guohui Chen (Edinburgh) and Anastasia Polymeni (Heriot-Watt). No awards were made from the Mykura Fund as no applications were eligible. The biennial Clough Memorial Award for 2016-2017 goes to Hannah Watkins for work on the Moine Thrust Zone.

During the year, the Mykura Fund has benefited from a generous donation of £10,000 from the Estate of the late Alison Mykura who was a long-standing member of the Society.

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 Dunbar was completed and published. The Volunteer Group was involved in several public events including Volcano Fun Day in Holyrood Park and the Craigmillar Castle Craft Skills Festival, part of the Edinburgh Traditional Buildings Festival. Members of the group led a number of evening walks as part of the Society's Excursions Programme.

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 predominantly by voluntary effort, assisted by one paid part-time independent contractor.

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 until the building was vacated in early 2016, and for his valued support since then.

Financial Review

The Society's activities were maintained at a similar level to that of previous years. The surplus on revenue account was £8,665 compared with a deficit of £1,435 in 2014-15; this included a donation to the Restricted Funds of £10,000 from the Estate of the late Alison Mykura. The net assets of the Society increased by £18,746 over the year (Unrestricted £6,391; Restricted £12,335). The overall surplus of £6,391 on Unrestricted Funds is entirely accounted for by the £6,855 gain on revaluation of Unrestricted Funds investments; there is a net excess of expenditure over income (overspend) in year of £464 (2014-15: £1,435 overspend).

Principal Funding Sources

The Society's principal source of income continues to be membership subscriptions and this is supplemented by Gift Aid tax refunds. Gift Aid for 2016 has not yet been claimed. Other important sources are sales of the Society's publications and income from the Society's investments. Income from excursions is used to meet the costs of the excursions. The Society has also received sponsorship for some special projects.

Expenditure

New major expenditure in-year included £1,194 for storage charges and £976 remuneration to the Promotion Secretary (included under Administration).

Investment Policy

The Society's investment manager was changed from Brewin Dolphin Securities Ltd to Spiers and Jeffrey Ltd, as a result of a planned substantial increase in the fees of the former. 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. Approximately three-quarters 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 £129,772. 29% 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 public outreach and grant-giving activities. Future ongoing expenditure will include approximately £1,200 annually for storage of the Society's publications following the recent loss of access to the former cost-free storage facility. A Promotion Secretary has also been appointed, a two-year time-limited post at up to £5,000 per year. 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:

Stuart Monro, President

25 January 2017

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

For the year to 30th September 2016

I report on the Accounts of the Charity for the year ended 30th September 2016 which are set out on pages 17 to 22.

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

25 January 2017

**Statement of Financial Activities including Income and Expenditure Account
for the year ended 30th September 2016**

	Note	Unrestricted Funds - £	Restricted Funds - £	2016 total - £	2015 total -£
<u>Incoming Resources</u>					
Voluntary income					
Members' Subscriptions		8,925	-	8,925	9,239
Gift Aid tax refund		-	-	-	1,342
Donations		725	10,000	10,725	551
Investment income		2,139	730	2,869	3,248
Income from Charitable activities					
Excursions	3	14,000	-	14,000	17,580
Sponsored projects	8	-	-	-	600
Fundraising trading:					
Sales of Publications	4	<u>3,468</u>	-	<u>3,468</u>	<u>3,620</u>
Total Incoming Resources		<u>£29,257</u>	<u>£10,730</u>	<u>£39,987</u>	<u>£36,180</u>
<u>Resources Expended</u>					
Fund management charges		<u>240</u>	-	<u>240</u>	<u>480</u>
Storage		<u>1,194</u>	-	<u>1,194</u>	-
Fundraising trading:					
Cost of Sales	4	3,001	-	3,001	1,700
Illustrations - new Guide		<u>200</u>	-	<u>200</u>	<u>240</u>
Charitable activities:					
Lectures		1,725	-	1,725	2,053
Billet		961	-	961	1,870
Edinburgh Geologist		2,091	-	2,091	2,471
Excursions	3	14,296	-	14,296	18,052
Grants and Awards		2,685	750	3,435	5,000
Geological leaflets		-	-	-	1,094
Sponsored projects	8	600	-	600	2,564
Administration	7	1,626	851	2,477	801
Total cost of Charitable activities		<u>23,984</u>	<u>1,601</u>	<u>25,585</u>	<u>33,905</u>
Governance costs		<u>1,102</u>	-	<u>1,102</u>	<u>1,290</u>
Total Resources Expended		<u>£29,721</u>	<u>£1,601</u>	<u>£31,322</u>	<u>£37,615</u>
Net Incoming (Outgoing) Resources before other recognised gains / losses					
		£(464)	£9,129	£8,665	£(1,435)
Net gains (losses) on investments	5	<u>6,855</u>	<u>3,226</u>	<u>10,081</u>	<u>(296)</u>
Net Movement in Funds		<u>£6,391</u>	<u>£12,355</u>	<u>£18,746</u>	<u>£(1,731)</u>

Continues overleaf

**Statement of Financial Activities including Income and Expenditure Account
for the year ended 30th September 2016 - continued**

Reconciliation of funds

Net Movement in Funds	b/f	<u>£6,391</u>	<u>£12,355</u>	<u>£18,746</u>	<u>£(1,731)</u>
Total funds brought forward		<u>£85,080</u>	<u>£25,946</u>	<u>£111,026</u>	<u>£112,757</u>
Total funds carried forward		<u>£91,471</u>	<u>£38,301</u>	<u>£129,772</u>	<u>£111,026</u>

Balance Sheet as at 30th September 2016

	Notes	£	2016 £	£	2015 £
Investments	5		94,606		77,399
Current Assets					
Stock of Publications	4	4,648		3,319	
Other Stocks		851		0	
Debtors and prepayments		757		587	
Bank		<u>32,982</u>		<u>34,284</u>	
			<u>39,238</u>	<u>38,190</u>	
Creditors					
Creditors and provisions - amounts falling due within one year	6	<u>4,072</u>		<u>4,563</u>	
Net Current Assets			35,166		33,627
Net Assets			<u>£129,772</u>		<u>£111,026</u>
Representing:					
Unrestricted funds					
General Fund	8		91,471		85,080
Restricted funds					
Permanent endowment	8		38,251		25,896
Sponsored projects	8		50		50
Total funds			<u>£129,772</u>		<u>£111,026</u>

The notes on pages 19-22 form part of these accounts.
Approved by Council and signed on its behalf by

C Ranken, Treasurer
25 January 2017

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 (£592) 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:-

	2015 / 16		2014 / 15	
	Contributions	Cost	Contributions	Cost
	£	£	£	£
Day Excursions	524	965	904	1,505
Weekend Excursion	485	468	-	-
Long Excursion	12,754	12,651	16,520	16,301
Fellows' night	237	212	156	246
Total	<u>£14,000</u>	<u>£14,296</u>	<u>£17,580</u>	<u>£18,052</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. Depreciation has been charged for the new Stirling and Perth Guide in this, its first year.

5. Investments

Analysis of Movements of Investments

	£
Carrying value (market value) at beginning of year	77,399
Add: Additions to Investments at cost	60,407
Less: Disposals at carrying value	(50,263)
Add: Net gain on revaluation	7,063
Carrying value (market value) at end of year	<u>£94,606</u>
Note - Net gains realised during the year	3,018
Gain on revaluation	7,063
Net gain on Investments	<u>£10,081</u>

6. Creditors and Provisions

	2016	2015
	£	£
Loan by Chairman of S&C RIGS Group	-	2,180
Miscellaneous	4,072	2,383
Total	<u>£4,072</u>	<u>£4,563</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 had any personal interest in any contract or transaction entered into by the charity during the year. One member of the Society entered into a contract for services to provide promotion activity to the Society.

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. Three grants were made from the Clough Fund during the year; no awards were eligible for the Mykura Fund, which supports fieldwork in Scotland.

The Mykura Fund benefited from a generous donation of £10,000 from the Estate of the late Mrs Alison Mykura during the year. This has been invested and the income will be used to enhance the grants available.

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.

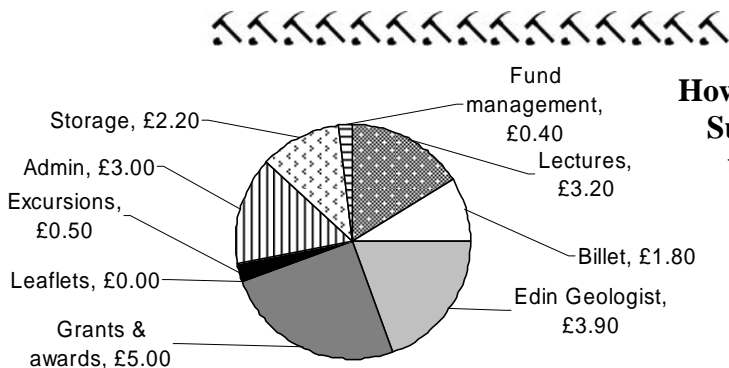
The Sponsored Projects funds carried forward are held in cash.

Funds - continued

	Unrestricted Endowment Funds Sponsored				Total
	Funds	Clough	Mykura	Projects	
	£	£	£	£	£
Investment income	2,139	494	236		2,869
Sponsored Projects					
Other incoming resources	<u>27,118</u>	-	<u>10,000</u>	-	<u>37,118</u>
Total incoming resources	<u>£29,257</u>	<u>£494</u>	<u>£10,236</u>		<u>£39,987</u>
Grants and Awards	2,685	750		-	3,435
Sponsored Projects	600	-	-	-	600
Other outgoing resources	26,436	851	-	-	27,287
Total outgoing resources	<u>£29,721</u>	<u>£1,601</u>	<u>-</u>	<u>-</u>	<u>£31,322</u>
Gain on investments	<u>6,855</u>	<u>1,613</u>	<u>1,613</u>	-	<u>10,081</u>
Net movement in Funds	<u>£6,391</u>	<u>£506</u>	<u>£11,849</u>	<u>-</u>	<u>£18,746</u>
Funds brought forward	85,080	19,530	6,366	50	111,026
Funds carried forward	<u>£91,471</u>	<u>£20,036</u>	<u>£18,215</u>	<u>£50</u>	<u>£129,772</u>

represented by:

Investments	64,707	14,971	14,928	-	94,606
Current assets	30,836	5,065	3,287	50	39,238
less - Current liabilities	<u>(4,072)</u>	-	-	-	<u>(4,072)</u>
Net assets	<u>£91,471</u>	<u>£20,036</u>	<u>£18,215</u>	<u>£50</u>	<u>£129,772</u>



**How each £20 EGS
Subscription was
used in 2015-16**

Obituaries (compiled by Ian Jackson and members of the Society)

During the year we recorded with the greatest regret the deaths of Life Fellow, Mr George Downie, of Ordinary Fellows, Mr Mike Dean, Mr Charles Pearson and Dr John Roberts, and of Senior Fellows, Mr Fred Brownlee and Mr Bill Davies.

Fred C Brownlee joined the Society as an Ordinary Fellow in the 1976-77 session when he was living in Blackhall, Edinburgh and transferred to Senior Fellow in 2001-02. After graduating BSc in Horticulture he worked with the Parks Department in Edinburgh and various related positions before retiring early from Livingston Development Corporation to live his dream in the Highlands. He moved north to Dornie with his wife and dogs in the early 1980s and joined Her Majesty's Coastguard. In the 1990s they moved to Glenmoriston, continuing to embrace his interests, and finally to Kildary, Invergordon, where after 10 happy years he died on 23 February 2016. His wife Irene predeceased him in 2008. A keen and knowledgeable mineralogist, model-maker and gardener, Fred was also an enthusiastic participant in the Week excursions of the 1970s and 1980s, hosting with his wife, the social for the 1984 Week excursion to Wester Ross at their Dornie home (pictured below).



Fred Brownlee (back row, 2nd from left, wearing tie) and EGS members

After obtaining his MA degree, **Thomas William (Bill) R Davies**, of Duns gained Chartered Engineer status with the Institute of Mechanical Engineers later in his career. On joining the Society in 2000 as an Ordinary Fellow, he soon became interested in the local geology and archaeology and attended local Society excursions in the Borders as well as weekend excursions. He transferred to Senior Fellow in 2002-3. Among his many other interests, Bill was a member of the Duns Bridge Club; he died at Duns on 13th December, 2015.

John Michael Dean. Doug Fettes writes:

Mike Dean was born in Mirfield, Yorkshire in July 1937. An early school trip to the Lake District fostered his love of the hills and geology. Subsequently he gained a scholarship to Leeds University to study geology and graduated in 1960. He then joined the North Lowlands unit of the Geological Survey. Here he worked mainly on coalfield geology which included assisting Bill Read with some of the early applications of computers to analyse borehole data and determine sedimentary facies variations.

In the late 1970s Mike moved to the Hydrocarbons and Continental Shelf unit based in the Grange Terrace Office. At this time the unit was largely involved in servicing a contract with the Department of Energy at a time of great expansion in off-shore exploration and development. Mike became head of the unit in 1990. This was a time of considerable change: the DEN contract was split and awarded to several organisations. Although BGS retained some of the work there was a need for the unit to diversify its programme and maintain its funding. The new programme included joint work with the UK Offshore Operators Association to erect a new lithostratigraphic nomenclature for the entire UK Continental Shelf, extending the series of UK Offshore Regional Reports to the deep water areas and working with the Falklands Islands Government to provide them with licensing and exploration advice. In 1993 the Grange Terrace office closed and Mike and the unit moved to Murchison House. Shortly afterwards Mike took advantage of a programme of early retirement and left aged 57. Mike was a keen hill walker and sportsman. In his younger days he played hockey, tennis and squash and latterly, after his

retirement, was a regular on the golf course. Also, perhaps true to his Yorkshire roots, he was an enthusiastic cricket follower and a member of Carlton Cricket Club.

He was a Fellow of the Society for 55 years and served as Honorary Secretary from 1994 until 2007.

He died, following a period of ill health, in May 2016.

George Downie. Stuart Monro, EGS President writes:

George Downie was a north-east of Scotland man through and through. Born and brought up in the fishing village of Rosehearty, he was of the generation that did National Service and throughout his life he was renowned for his ability to get up steep mountainsides at break neck speeds! Hence the nickname he was often given "SAS George".

My first encounter with George Downie was during the 1963 meeting of the British Association for the Advancement of Science in Aberdeen. I recall as a schoolboy, him sitting me down in front of a petrological microscope and demonstrating a gabbro in thin section. When he inserted the Nicol Prism (no Polaroid in those days) the colours and textures were amazing and the rest, as they say, is history!

George's geological career centred on the Geology department at Aberdeen University, graduating BSc there in 1952 and thereafter continuing as a lecturer with a focus on teaching. It was not uncommon for the Professor and Head of Department, Prof Tom Phemister to give George his lecture notes, leaving George to deliver the teaching while the professor attended some meeting. George was undoubtedly at his best in the field where he inculcated generations of students with the skills necessary to be a real field geologist. And woe betide anyone who left their hammer in the bus - they were promptly dispatched back to retrieve it, even if they were half way up a mountainside! In the lab, first year students will always recall the joys of plotting the poles to the crystal faces on a stereographic projection to determine the Millers Indices and the crystal system of the legendary topaz crystal. For honours students the interpretation of X-ray photographs of minerals and the complex mathematical equations associated with them may still cause them to wake in a cold sweat.

George and his wife Jean were like surrogate parents to successive honours year students. Frequently their house was the location for some memorable parties that truly fostered the close relationship between

the staff and honours students in the department. George and Jean were keen country dancers and always insisted that an eightsome reel had to be done properly. They were also enthusiastic cross-country skiers with George always at least 30 yards ahead of Jean, sufficient distance, according to Jean, so that he could not hear her cursing!

Away from the University, George used his geological and leadership skills through the work of the British Schools Exploring Society, now called British Exploring Society. He was Chief leader on the 1974 expedition to Arctic Sweden and on the 50th Anniversary expedition to East Greenland in 1984. George also supported many other expeditions, looking after the scientific aspects of the expedition. From personal experience, I know that all who took part in these activities saw them not only as an opportunity to do science in some remote environments but also where young people from a wide variety of backgrounds develop into adulthood.

George died on the 31st May 2016 and with his passing the geological community lost a great field geologist, an engaging teacher, a staunch friend and just a super bloke!

Charles Arthur Pearson, of Delny, Invergordon was born in 1940 and educated at Invergordon Academy; after obtaining his MA degree he returned to Invergordon as a teacher, also immersing himself in the local history and archaeology of the Nigg Peninsula and the Black Isle. Charles identified an extremely valuable early 18th century marble bust of local landowner Sir John Gordon of Invergordon discovered by chance in 1998, and was an acknowledged expert on the stewardship and various relocations of the Hilton of Cadboll Class II Pictish stone. He died earlier in 2016, having joined the Society as an Ordinary Fellow in 1980.

John Cole Roberts of Port Stewart, Northern Ireland, was a field geologist and senior lecturer in the School of Environmental Studies at the University of Ulster in Coleraine. He was born in 1935 in Mountain Ash, South Wales and grew up in the valleys around Dowlais. After his schoolmaster recognised his interest and aptitude in earth science, he became the first boy in his district to take 'O' Level and 'A' Level

Geology. He progressed to Swansea University where he graduated and then obtained a PhD in Geology in 1961. His thesis on joint and fracture studies in strata of the South Wales coalfields made him an expert in feather fracture and the mechanics of rock jointing. He started lecturing at Aberystwyth University and there met his future wife Susan Davies. In 1962, John joined the staff at Magee College, Derry and was one of the first academics to move to the Coleraine campus of the New University of Ulster in 1968. He became Senior Lecturer in Environmental Science and was its longest serving staff member before he retired from Ulster University in 2001. In Ireland his geological research focussed on the Inishowen Peninsula of County Donegal and he led many geological students and interested parties on excursions in the area. In retirement he volunteered on the local Causeway Hospital radio team and his local Probus club. He died on 30th September 2016.



Photograph © Beverly Bergman

The War Memorial on Oliver's Mount, Scarborough, visited by members of the EGS during the Long Excursion on 22 May 2016. The memorial is in the form of an obelisk, 75ft in height and 14.25ft in width at the base, tapering to 4.5ft at the top. It is constructed of hard Yorkshire sandstone from the Crosland Moor quarry. The memorial, which was designed by the Borough Engineer and architect Harry W Smith, was unveiled on 26 September 1923.

From the top of Oliver's Mount, there are fine panoramic views of the Scarborough area from which the topography can be appreciated.

