

JAMES CLERK MAXWELL FOUNDATION

ANNUAL REPORT AND SUMMARY ACCOUNTS

Year ended 31 December 2016

JAMES CLERK MAXWELL FOUNDATION

(Scottish Charity Number SC015003)

Trustees' Annual Report and Accounts for the year ended 31 December 2016

HONORARY PATRON

Professor Peter Higgs CH FRS FRSE

CURRENT TRUSTEES

David O.Forfar, MA FFA MMath DipStats FSS FIMA CMath FRSE (Chairman)

Professor David S. Ritchie, MA FRMetS FRSE (Honorary President)

Professor Peter M. Grant, OBE PhD HonDEng LFIEEE FEng FRSE (Secretary)

Dr John W. Arthur, BSc PhD FInstP FIET SMIEE FEng FRSE (Property)

Professor J. Chris Eilbeck, BA PhD FRSE (Meetings)

David N. Peacock, IEng FIET (WWW master)

Sir Michael Atiyah, OM HonDSc HonFEng HonFMedSci HonFFA PastPresident(PP)RS PPRSE

Dr Richard C. Dougal, BSc PhD CPhys FInstP

Professor T. Alastair Gillespie, BA PhD HonDSc FRSE

Professor Neil B. Graham, BSc PhD FRSC FIM FRSE

Professor Malcolm S. Longair, BSc MA PhD HonLLD FRS FRSE

Professor A. David Milne, OBE PhD HonDEng HonDSc FIET SMIEE FEng FRSE

Dr Susie P. Mitchell, BSc PhD

Professor Roland A. Paxton, MBE MSc PhD HonDEng CEng FICE FRSE

Dr James Rautio, BSEE MS PhD FIEEE

Dr John S. Reid, PhD FInstP CPhys MLitt FRAS FRMetS

Professor John F. Roulston, OBE DEng HonDSc FEng FRSE

Dr Walter G. Scott, BSc PhD FRSE

Treasurer: Bruce K. C. Lee, MA CA

Contact address

James Clerk Maxwell Foundation, 14 India Street, Edinburgh, EH3 6EZ.

Recruitment and appointment of Trustees

Trustees are selected from suitably qualified persons who have an interest in James Clerk Maxwell.

Governing document

Deed of Declaration of Trust (registered 11 February 1977).

Charitable purposes

As set out in Deed of Declaration of Trust, 4th Schedule.

Activities and achievements

See Trustees Report for the year ended 31 December 2016.

Reserves

At 31 December 2016 the Foundation had bank account funds of £98,606.

Trustees' Report for the year ended 31 December 2016

TRUSTEES

The Foundation appointed a further 'Friend of the Foundation': Dr Iain Lindsay from Edinburgh. Together with Prof Alan Shotter, Dr Lindsay has agreed to assist with visitor hosting.

CHARITABLE GRANTS AWARDED

Berlinn partial support for publishing "Brilliant Lives the Clerk Maxwells" book.
Supporting Edinburgh International Science Festival Maxwell lecture by Professor David Payne.
Maxwell Prize (awarded jointly with the Mackinnon/Macneill Trust) to an outstanding student in science or engineering from the West of Scotland on entering university.
Dumfries & Galloway Archives, Maxwell of Middlebie Catalogue.
Scottish Mathematics Council.
Scottish Mathematics Masterclass.
Taylor and Francis Philosophical Magazine early career writers prize.
Edinburgh Academy Prize.

UPKEEP OF THE HOUSE

There was further continuing significant expenditure in 2016 on: upgrading security and fire alarms, refurbishing and painting the middle and ground floor windows; repairing the front door railings, and other sundry repairs.

FINANCIAL POSITION

The statement of accounts for the year ended 31 December 2016 shows an overall income of £32,060 (predominately rental) including donations totalling £1,971. Our total expenditure of £33,431, included charitable donations totaling £9,244, Foundation development and outreach activities (such as display material, hosting events, newsletter production and distribution) of £4,722, and running and maintenance costs of £19,465, giving an excess of expenditure over income of £1,371. The balance at the banks at 31 December 2016 amounted to £98,606.

NEWSLETTER

The Seventh (Autumn 2016) Edition included articles on *Maxwell's Equations: The Tip of an Iceberg* by our Patron, Nobel Prizewinner Prof Peter Higgs and on *Maxwell and Control Theory* by Prof Rodolphe Sepulchre from the University of Cambridge. It is appreciated by the Foundation that the printing of the newsletters (which are available on our website.) was undertaken, pro bono, by LEONARDO, Crew Toll Edinburgh (formerly called SELEX Galileo).

MAXWELL'S FAMILY, LIFE and TIMES

In an independent activity, partly supported by the Foundation, Dr John Arthur, one of our Trustees, launched his book: *Brilliant Lives: The Clerk Maxwell's and the Scottish Enlightenment*, published by Birlinn.

VISIT to INDIA STREET by the PRESIDENT of the IEEE

On the occasion of the award of the IEEE/RSE Maxwell Medal to Professor Geoffrey Hinton, the President of the IEEE, Professor Barry L. Shoop visited the museum on the 8th of December. Earlier, Professor Dudley Herschbach (Nobel Laureate, Chemistry 1986) and guests visited the museum on 27th of June.

OUTREACH

Copies of the new wall panel displays within 14 India Street on Maxwell's scientific achievements (available at www.clerkmaxwellfoundation.org/html/media_library.html) were supplied to Edinburgh Academy, George Watson's College, and Stewart Melville. Furthermore, both the School of Engineering and the School of Physics & Astronomy at the University of Edinburgh now display a selection of these new wall panels for visitors, staff and students.

MEETINGS AND EVENTS HOSTED AT 14 INDIA STREET

16/3/16: "Pioneers of the Highland Railway Tracks", evening talk by Anne-Mary Paterson to the Panel for Historical Engineering group, Institute for Civil Engineers.

4/5/16: Reception to launch new display material in the house.

29/10/16: Visit of a group from Mayfield Salisbury Church.

16/11/16: "Union Chain Bridge 1820 – its origin, significance & future", evening talk by Roland Paxton to the Panel for Historical Engineering group, Institution of Civil Engineers.

28/11/16: Institution of Civil Engineers Scotland AGM

12/12/16: Clerk Maxwell Cancer Research Fund AGM

FUTURE PLANNING

We are still in the process of attempting to secure permission to mount explanatory plaques to accompany the George Street statue to James Clerk Maxwell to better highlight Maxwell's importance.

PRESENTATIONS

Presentations on James Clerk Maxwell were made to various groups who visited the house.

Four of our Trustees gave external presentations on Clerk Maxwell:

David Forfar on 27 January to Newcastle University Electromagnetics interest group;

David Ritchie and David Forfar on 15 April to the Haddington Historical Society;

Peter Grant on 14 May in London was invited as guest of honour to address the ABTA Doctoral Research Award Ceremony; and

John Arthur on 23 September in Edinburgh to the Cockburn Association.

VISITS

The number of visitors to the birthplace exceeded 360 with a very significant increase in those from the USA. Major visit groups included 150 people who visited on the Edinburgh Doors Open Day. In addition, the trustees conducted over 70 individually guided visits, for which the visitor profile was:

| | | |
|-------------|-----------|---------------|
| Australia 3 | Italy 1 | Sweden 4 |
| Austria 2 | India 1 | Sri Lanka 1 |
| Brazil 2 | Korea 1 | USA 60 |
| Canada 2 | Japan 2 | UK & other 80 |
| France 2 | Nigeria 3 | |
| Germany 4 | Russia 3 | |