

ISSUE 58 SPRING 2018

resource

The Newsletter of Scotland's National Academy



Photographs of Triennial Dinner © Gary Doak Photography

Her Royal Highness The Princess Royal HonFRSE was Guest of Honour at the RSE Triennial Dinner
Further details on pages 15 & 16

Also featured in this issue:

Whose body is in the grave?

New RSE Award Scheme: Unlocking Ambition

Women in STEM: six years on



*The Royal Society
of Edinburgh*

KNOWLEDGE MADE USEFUL

NEW RSE Unlocking Ambition Enterprise Fellowship Programme



The RSE has now revealed details of a brand new cutting-edge entrepreneurial support scheme. The £4m *Unlocking Ambition Challenge* will be delivered by key stakeholders from Scotland's entrepreneurial network, as part of the *Scotland CAN DO* initiative. Funded by the Scottish Government, the RSE will lead the academic section of the inaugural programme. The new RSE Unlocking Ambition Enterprise Fellowship Programme is based on the highly successful Enterprise Fellowship Programme that the RSE has been running for 20 years. It will invest in 20 early-stage high-potential entrepreneurs and their innovative projects, with the aim of forming start-up businesses in Scotland.

Fellowships will operate over the period of a year and include a host of bespoke benefits, including total grant funding of up to £900,000 (up to £45,000 grant per Fellow, comprising a £25,000 maintenance grant and up to £20,000 from a business development fund).

In addition, a total of over £150,000-worth of comprehensive and cutting-edge training programmes is available, personally tailored to develop business skills and delivered to the highest of international standards; a dedicated mentor for each Fellow; and access to professional, financial and entrepreneurial networks.

Entrepreneurs from Scotland, the UK and around the world are being invited to submit ideas which have the potential to be transformative. Applicants do not have to be Scottish or even in Scotland – applications will be accepted from anywhere in the world. There is no requirement for a pre-existing connection to the RSE. The only condition is agreement to relocate or establish the business in Scotland.

Edward Cunningham CBE FRSE, Chairman, Royal Society of Edinburgh Enterprise Fellowship Programme, said:

“The Royal Society of Edinburgh is delighted to provide support to this worthwhile programme to unlock the ambition of talented entrepreneurs. Since its launch in 1997, the RSE Enterprise Fellowship scheme has supported more than 200 graduates and researchers to develop and launch new businesses. We look forward to supporting and working with this new cohort to help turn their energy and motivation and, of course, their new ideas into a reality.”

The RSE Unlocking Ambition Enterprise Fellowship Programme presents the ideal opportunity for start-up companies by supporting promising ideas which are combined with the necessary skillsets to build them into successful companies.

The deadline for submission of applications is 5 pm on Wednesday 2 May 2018

Pictured above (l-r): Rebekah Widdowfield, RSE CEO; Sydney Chasin, RSE Enterprise Fellow; & Minister for Business, Innovation and Energy, Paul Wheelhouse MSP

Benefits

Successful applicants will form the inaugural Fellowship Programme cohort, thus becoming RSE Unlocking Ambition Enterprise Fellowship Champions. They will benefit from invaluable time to dedicate and focus on their start-ups, with grants and personalised support. An RSE Unlocking Ambition Enterprise Fellowship will be awarded to each of the 20 Fellows, operating over a period of 12* months and consisting of the following elements:

- a total of up to £900,000 grant funding is available, comprising up to £45,000 grant per Fellow – £25,000 maintenance grant and up to £20,000 business development fund;
- a total of over £150,000-worth of comprehensive business training to develop business skills will be delivered to the highest standard of international excellence by individuals with proven track records of commercial success. The cutting-edge programme will be tailored

to fit the requirements of each participant, covering important topics including: financial planning; business planning; the start up and spin-out processes; marketing and sales; securing investment; investor pitching; building your team; and scaling your business;

- access to professional, financial and entrepreneurial networks;
- support of a dedicated mentor throughout the programme from one or more of the stakeholder organisations;
- visiting status within an agreed university or research institute.

*Note: The RSE Unlocking Ambition Enterprise Fellowship is a 12-month programme. Those demonstrating timely progress and a strong case for further support may be eligible to receive support for a further 12 months.

Full terms and conditions apply.



Deadline:
5 pm
Wednesday
2 May 2018

Eligibility – scope:

- Individuals who are ambitious to learn and eager to start-up and scale up their businesses;
- Any industry, sector or start-up idea;
- The company need not be incorporated by the start of the programme
- Open to companies with a turnover or investment to date of no more than £150,000
- New or existing start-ups must be established or located in Scotland, UK
- Application forms, containing business proposals and details of personal entrepreneurial potential, must be submitted by the deadline of Wednesday 2 May at 5 pm (no late submissions accepted).

Forms must demonstrate that the following entry criteria are met:

- > Feasibility of the technology proposed and its potential place in the market;
- > Market potential of the opportunity presented;
- > Commercialisation potential of the business idea proposed;
- > Feasibility of getting the proposed product or service to the market;
- > Potential of the individual to become a success in business.

- Be available, if shortlisted for interview, 5-21 June. Also be available during w/c 25 June for the start of the training programme.



Above: Edward Cunningham & Anne Fraser,
RSE Awards Manager;
Below: Sydney Chasin & Paul Wheelhouse



Visit www.rse.org.uk/awards/rse-unlocking-ambition-enterprise-fellowship-programme/ for more information and to apply, or contact: unlockingambition@these.org.uk

Policy Advice from the RSE

Drawing on the expertise of our Fellows, the RSE provides independent evidence and advice to inform public policy decisions and legislative direction. Our contributions support decision makers in the Scottish and UK parliaments and the Scottish and UK governments.

Some recent advice papers include:

Health Advice Papers

In January 2018, the RSE responded to two public health-related policy proposals from the Scottish Government. These focused on the implementation of the Minimum Unit Price (MUP) for alcohol and the Scottish Government's Healthier Future Strategy.

The RSE reiterated its support for the implementation of minimum unit pricing, but highlighted that due to inflation since the minimum price legislation was passed in 2012, there is scope to increase the MUP from 50p to 60p per unit.



The RSE welcomed the Scottish Government's Healthier Future Strategy. This strategy focuses on initiatives intended to tackle obesity and the RSE has recommended a broader approach aimed at promoting a healthy lifestyle, and on addressing health inequalities.

Both responses were chaired by Professor Carol Tannahill FRSE, University of Glasgow, and received considerable media coverage in Scotland's press, including *The Times* and *The Herald*.

www.rse.org.uk/policy/advice-papers/



Migration Advisory Committee Inquiry into the Impacts of International Students in the UK

In January 2018, the RSE responded to the Migration Advisory Committee's call for evidence on the international impacts of international students in the UK.

The RSE's response highlighted the contributions that international students make to university campuses, their role as ambassadors for our universities, and the economic benefits they bring. The RSE comments included the need for the UK Government to take account of Scotland's distinctive demographic challenges to ensure immigration policy can accommodate Scotland's needs. If the consequences of Brexit result in the UK being regarded as a less desirable destination for work and study, then the competitive position of the UK's higher education institutions will be adversely impacted.

The RSE's response received media coverage, including in *The Times*, STV News and *The Herald*.

School Governance Reforms

In February 2018, the RSE Education Committee responded to the Scottish Government's proposals to reform the way schools are governed. The proposals are seeking to devolve greater decision-making responsibility directly to schools. To inform its response, the RSE hosted a roundtable discussion involving primary and secondary headteachers, and representatives from national and local government.

While the Education Committee supports the development of a 'school-led' system, it recommends that the Scottish Government should set out the evidence base for the reforms, particularly in terms of the impact on outcomes for learners. Independent research and evaluation will need to be central to the reforms. Given the intention to transfer significant decision-making responsibility from local authorities to head teachers, lines of accountability need to be unequivocal. However, it is not currently clear how and to whom head teachers will be accountable for the decisions they take.

This response received coverage in *The Herald* and *The Scotsman*.

The Implications of Brexit for Science and Innovation

In February 2018, the RSE responded to the House of Commons Science and Technology Committee's inquiry on the implications of Brexit for science and innovation.

The RSE response made it clear that the internationally-leading standing and competitiveness of the UK's research and innovation base is highly reliant on its ability to attract and retain the highest quality staff from across the globe.

It is crucially important that UK-based researchers can continue to participate in international research collaborations.

Securing the UK's direct participation in Horizon 2020, and the subsequent framework programme, should be a priority for Phase 2 of the Brexit negotiations.

Professor David Cole-Hamilton FRSE, Chair of the RSE working group, was invited to participate in the Science and Technology Committee's summit on Brexit on 22 February 2018.

RSE Reviews Women in Science, Technology, Engineering and Maths (STEM) Report *Tapping all our Talents*

In 2012, the RSE published its report *Tapping all our Talents*, a comprehensive set of recommendations for Scotland aimed at increasing both the proportion of women in the STEM workforce and the number who rise to senior positions in universities, research institutes, government, business and industry.

Six years on, the issues of gender equality and the gender pay gap are higher up the political agenda than ever before; while the economic imperative to retain and promote top talent, regardless of gender, has become starker.

But has this translated into a perceivable shift in culture that encourages women to pursue careers in STEM and enables them to progress at an equal rate to men?

The RSE, in conjunction with the Young Academy of Scotland and Equate Scotland, has established a Working Group, chaired by Professor Lesley Yellowlees CBE FRSE, to review the progress that has been made on these issues over the last six years. The Review will also broaden its scope to consider the journey that girls and young women take into STEM careers, from primary education through to the range of paths available across further and higher education.

The Review was formally launched with an event at the RSE on 19 March 2018, at which Professor Yellowlees and a panel lead a discussion with the audience on:

- what has been done to tackle the challenges facing women in STEM in recent years;
- how both the landscape and understanding of issues have evolved; and
- what remains to be done.

An open call for evidence, seeking the views and experiences of stakeholders is available on the RSE website. Evidence received will inform a report of findings and recommendations that will be published in late Summer 2018.

To submit evidence, visit:

bit.ly/RSECallforEvidenceTAOT



Minister for Further Education, Higher Education & Science, Shirley-Anne Somerville MSP is pictured at the launch (right) with Professor Yellowlees

RSE@ INVERNESS

The Debate: whose body is buried here?



On 9 April 1747, Simon Fraser, the 11th Lord Lovat and notorious Clan Chief nicknamed the 'Old Fox', was the last man to be beheaded in the UK.

After being executed, official sources had it that his remains were buried in the Chapel at the Tower of London. However, his Clan has maintained that the body was intercepted by his own supporters and returned to Scotland in a casket and buried at the family mausoleum in Wardlaw, near Inverness. But to date, no one has ever proved the whereabouts of Lord Lovat's remains.

The debate has continued over the centuries, culminating in a detailed investigation into the remains found at Wardlaw Mausoleum in what was identified as Lord Lovat's casket.

On Thursday 18 January 2018, an audience gathered at Kingsmill Hotel, Inverness in eager anticipation of the revelation as to whether or not the remains are those of the notorious Lord Lovat.



The audience was welcomed by Sir Andrew Cubie FRSE, patron of the RSE@ Inverness programme. Also present were representatives of the Fraser family and the Wardlaw Trust, who look after the Wardlaw Mausoleum.

The Mausoleum is situated in Wardlaw Graveyard at the top of Wardlaw Road in Kirkhill, eight miles west of Inverness. It was built in 1634 as the burial place for the Lovat Frasers on the end of the original parish church. The roof of the mausoleum was raised and a tower added in 1722 by the then Lord Lovat, the 'Old Fox' of the Jacobite Rebellion, who was later allegedly buried in the crypt. It was used by the Lovats until the early 19th Century.

The building then fell into disrepair until the 1990s, when the Wardlaw Mausoleum Trust was formed to rescue it. This led to a restoration project with Historic Scotland and Lottery funding. The mausoleum is listed as Grade 'A' by Historic Scotland, the highest level of importance.



Beginning the expert discussions, Sarah Fraser, historian and author of the award-winning *The Last Highlander*, a biography of the 11th Lord Lovat, gave a brief overview of the historical setting and context of the 11th Lord Lovat and how the mystery of the whereabouts of his remains came about.

Sarah Fraser (*pictured top right*) married into the Fraser clan of the 11th Lord Lovat, giving her a particularly keen interest in the investigation. A natural storyteller, Sarah's passionate telling of the history of the clansman set the atmosphere for the evening.

The tension was maintained as the audience was treated to a short video documentary from historian and TV presenter, Dan Snow's global history channel, *HistoryHitTV*. The video featured footage of the forensic investigation into the caskets and gave more background to the history of the 11th Lord Lovat.

Dr Lucina Hackman, (*2nd top right*) Senior Lecturer in Human Identification at the University of Dundee, who had worked alongside Professor Dame Sue Black OBE FRSE on the investigations, then gave the audience a perspective from her forensic anthropological background. Going through all the different bones and parts found, Lucina explained the different processes she and Sue had undertaken at the mausoleum. She stopped short, however, of revealing the answers – keeping the audience on their toes.

Once the scene had been set and with the excitement tangible, Professor Black (*3rd right*) who is Director of the Centre for Anatomy and Human Identification at the University of Dundee, took to the stage and revealed the answer for which the audience had waited throughout the evening

Sue revealed that she could say with “absolute certainty” that the headless skeleton found in the casket is not the body of Simon Fraser, but that of a young woman aged around 25 years old.

A lively Q & A session followed, with attendees eager to find out who the headless woman in the casket was, whether the experts could confirm the location of Simon Fraser's skeleton, and whether more work would be done with the results.

The question as to whether or not Simon Fraser's remains lay in this particular casket has been answered, but there are still many questions and the location of the remains the 'Old Fox' is still a mystery.

The event was live-streamed on Facebook and watched by many people in Scotland and further afield. The video recording is available at: www.rse.org.uk/events/past/

RSE@Inverness is a two-year programme of talks and activities for schools and the public. Details of other forthcoming events can be found at: www.rse.org.uk/events/rse-at



The RSE is grateful to the following organisations for supporting the RSE@ Inverness programme:

- Hugh Fraser Foundation
- Inverness Common Good Fund (The Highland Council)
- James Weir Foundation
- Lydia Michael Trust
- Moray & Nairn Educational Trust (The Moray Council)
- Royal Celtic Society
- Fleck Bequest Fund
- Sillitto Fund
- Scottish Book Trust
- Scottish Historical Review Trust

International Relations

How can national academies work together to tackle global issues?

On Thursday 25 January 2018, RSE President, Professor Jocelyn Bell Burnell, welcomed representatives of national academies, and other learned societies, from Canada, Australia and many parts of Europe, for a day of discussion about how national academies could help tackle a series of key global issues. The agenda covered climate change, refugees and migration, the ageing population and sustainable development.

Professor Marian Scott OBE, RSE Vice-President (International), who chaired the event, said bold action is needed to tackle a series of global issues and that national academies have a valuable role to play, but they need to revolutionise what they do and show leadership for the sake of current and future generations.

The morning was given over to a series of presentations around the identified global issues; the afternoon sessions considered the key question through a presentation and two panel discussions.

Session 1: Key Global Challenges

Climate Change

Professor Gabi Hegerl FRSE, FRS, Professor of Climate System Science, University of Edinburgh

Refugees and Migration

Professor Alison Phipps OBE FRSE, UNESCO Chair, University of Glasgow

The Ageing Population

Siobhan O'Connor, Lecturer at the School of Health and Social Care, Edinburgh Napier University and Member of the Young Academy of Scotland

Sustainable Development

Professor Roger Crofts CBE FRSE, Chair of the Royal Scottish Geographical Society

Session 2: Global Public Health

Challenges and Leadership

Professor Peter Boyle FRSE, Former Director, International Agency for Research on Cancer

Session 3: How can national academies work together to tackle global issues?

ALLEA's role in terms of tackling global challenges

Professor Antonio Loprieno, incoming President of ALLEA (the European Federation of Academies of Sciences and the Humanities).

The day began with the signing of a Memorandum of Understanding (MoU) between the RSE and the Australian Academy of Science to promote and strengthen co-operation between the Academies and between researchers in Australia and Scotland. (l-r) Professor Marian Scott; Professor Andrew Holmes; Professor Jocelyn Bell Burnell

Panel sessions

How can national academies rally their own fellows, individually and across disciplines, to engage with global challenges?

Convenor – Sir Emyr Jones Parry, Learned Society of Wales; Professor Andrew Holmes, Australian Academy of Science; Professor Peter Samuely, Slovak Academy of Sciences; Professor Peter Kennedy, Royal Irish Academy; Professor Jerry Duszyński, Polish Academy of Sciences.

How can national academies work together effectively to engage with global challenges?

Convenor – Professor Ole Sejersted, Norwegian Academy of Science and Letters; Professor Chad Gaffield, The Royal Society of Canada; Professor Eva Zazimalova, Czech Academy of Sciences; Professor Tadej Bajd, Slovenian Academy of Sciences and Arts; Professor Jaak Jarv, Estonian Academy of Sciences.

In concluding the business of the day, Professor Scott summed up the discussions by saying they had highlighted several themes, including lack of leadership on tackling global challenges, lack of trust in science and a feeling of disenfranchisement of communities all around the world.

Professor Scott said there is a huge challenge over how to reach out to people of different ages, genders and cultural backgrounds. Part of this involves doing more to diversify membership – including attracting more women and younger people.

Together, the academies form a huge group of citizens; their greatest resource is people and they need to work harder to activate their energy and enthusiasm. Between them, they are in a position to offer leadership in the search for solutions to global challenges.

A summary report of the presentations and discussions is available on the RSE website at:

www.rse.org.uk/international/visits/



Spotlight on Legacies

For over 200 years, the RSE has played a significant role in Scotland's development. Since its foundation, it has been fortunate to receive many legacy gifts from Fellows and other interested individuals. These important donations have grown and nurtured the RSE and continue to shape its work in Scotland and beyond.

Shaping the Future

Every gift left to the RSE, whether large or small, supports future generations.



Tailored Gifts

- > Mechanical Engineering PHD student, Neil Macdonald Wight, received funding from the J M Lessells Scholarship, a legacy gift from Professor Lessells to fund scholarships abroad.

“Without the RSE Lessells Scholarship it is difficult to imagine how my research project could have delivered the successes it did. The funding proved to be a powerful catalyst, allowing me to generate numerous and wide-ranging opportunities at national and international level.

These will continue to bring benefits over the coming years and, as an early career researcher, will be invaluable. Without the support of the RSE and the J M Lessells Committee, none of this would have been possible.”

- > Physics and Astronomy Masters student, Magdalena Menz, received a six-week scholarship from the Robert Cormack Bequest.

“The scholarship was a fantastic opportunity for me to gain new research experience. I could freely explore a field that was completely new to me. It was great to do this without the time constraints of coursework during the academic year. This knowledge helped me with my Masters course and to get my PhD place.”

Unrestricted Gifts

In recent years, general legacies have helped to support many new activities, including the launch of the RSE Young Academy of Scotland. Without these gifts, this important and ambitious initiative might not have been created. An unrestricted gift allows the RSE to support the areas of greatest need, to build on our strengths and to maintain world-class standing.

Your Choices

If you are thinking about leaving a gift to the RSE, let your experiences guide you to help decide how your legacy can support the next generation. It is individuals, such as Neil and Magdalena, who will make future ground-breaking discoveries and have major impact and influence in the

world of physical sciences and technology, life sciences, arts, humanities, social sciences, business, public service and civil society.

The RSE welcomes the opportunity to work with benefactors, to ensure that their gift is used as they intended. The RSE is constantly evolving, so we may be able to advise you on the best use of your gift: or you may wish to make an unrestricted gift, allowing the RSE to spend funds where they are most needed and will have the greatest impact.

Celebrating our Benefactors

A legacy gift is the most significant donation a person ever makes. It is a way to continue to make a positive influence on progress and change; remember a life well lived; or commemorate a loved one.

Jennifer McCoull, RSE Legacies Manager, explains, *“Leaving a gift in your will is a tremendous demonstration of your appreciation of the RSE’s work. Being able to thank people now for the gift they have planned is a pleasure”.*

The RSE is delighted to recognise individuals who leave a gift in their will by:

- inviting you to exclusive donor-only events and receptions;
- creating a ‘certificate’ of recognition for gifts of £10,000 or more
- keeping you informed about the difference your support makes;
- publicly recognising your contribution (where appropriate and with permission).

Next Steps

If you are interested in finding out more about this way of giving, please contact Jennifer directly at: jmccoull@therse.org.uk, 0131 240 5023. All discussion will be in complete confidence.

You can also find out more information on our website: www.rse.org.uk/support-us/leave-gift-will/

New Fellows welcomed to the RSE

Leading figures from academia, public services, business and the arts have recently been elected to join the Fellowship of the RSE.

These new Fellows will help the RSE to continue its work of: providing independent and expert advice to policymakers; supporting aspiring entrepreneurs; developing research capacity and leadership; and engaging with the public through its many and varied events.

The RSE is committed to diversifying its Fellowship and, with that in mind, is delighted that 41% of the new Fellows are female. Also joining the Fellowship are six current and former Young Academy of Scotland members, bringing the total number of former or current YAS members in the RSE Fellowship to 12.

Commenting on the new Fellows, outgoing President, Jocelyn Bell Burnell DBE, (pictured) said, "Each year we welcome a selection of extraordinary individuals into the Fellowship and this year is no exception. The diverse range of achievements of these individuals will be an asset to the RSE and I am sure they will strengthen the



RSE's standing as a national academy committed to providing public benefit to Scottish society. I also welcome the increasing number of female Fellows to the RSE, something we have focused on improving in past years as part of our wider commitment to diversity."

HONORARY FELLOWS

BROWN, The Rt Hon Gordon
Office of Gordon and Sarah Brown

COLBURN GRIGOR, Carol
Trustee, Dunard Fund

KANDEL, Eric Richard
University Professor, Columbia University

WEIR, Judith
Composer, Master of the Queen's Music

CORRESPONDING FELLOWS

BIRKS, Hilary Helen
Professor Emerita in Quaternary Palaeoecology and Palaeoclimate Research, University of Bergen

DALRYMPLE, William Hamilton
Writer and Historian

FEDOSOV, Dmitry
Senior Research Fellow, Russian Academy of Sciences

FRAZER, Ian Hector
Head, Cancer Immunotherapy Program, University of Queensland

GORDON, Douglas
Artist

LAI, Ying-Cheng
Professor of Physics and Chair Professor of Electrical Engineering, Arizona State University

TANG, Man-Chung
Chairman of the Board, T.Y. Lin International

FELLOWS

BEST, Philip Neil
Professor of Extragalactic Astrophysics, University of Edinburgh

BOWIE, Ronald
Partner, Hymans Robertson

BREWARD, Christopher John
Director, Collection and Research, National Galleries of Scotland

BROWN, Jessica
Professor of Philosophy, University of St Andrews

BURMAN, Michele
Professor of Criminology, Head of School of Social and Political Sciences, University of Glasgow

CAIRNS, Douglas Laidlaw
Professor of Classics, University of Edinburgh

CALLUM, Ian Stuart
Director of Design, Jaguar

CAMERON, Peter Jephson
Professor of Mathematics, University of St Andrews

CAMPBELL, Colin
Chief Executive and Director, The James Hutton Institute

CHANDRAN, Siddharthan
MacDonald Professor of Neurology, University of Edinburgh

COIA, Dame Denise Assunta
Chair, Healthcare Improvement Scotland

CROMBIE, Sir Alexander Maxwell
Chairman, Amicus Resolution Ltd

CUMBERFORD, Audrey
Principal and Chief Executive, West College Scotland

CURTIS, Sarah
Professor Emerita, Durham University
and Honorary Professor, University of Edinburgh

DAVIES, Michael Evan
Jeffrey Hamilton Collins Professor of Signal and Image
Processing, University of Edinburgh

DESMULLIEZ, Marc Philippe Yves
Deputy Head of Institute of Sensing, Signals and Systems
and Director of Microsystems Engineering Centre,
Heriot-Watt University

DZIERZAK, Elaine
Professor of Haematological Regeneration,
University of Edinburgh

FAULDS, Karen Jane
Professor of Pure and Applied Chemistry,
University of Strathclyde

FELDMANN, Joerg
Head, Department of Chemistry,
University of Aberdeen

FFRENCH-CONSTANT, Charles
Professorial Fellow, University of Edinburgh

FINLAYSON, William Alexander
Founder, MBM Commercial LLP

GADHIA, Jayne-Anne
Chief Executive Officer, Virgin Money

GILLIES, Crawford
Chairman, The Edrington Group Ltd

GILLIES, John Calum MacDonald
Deputy Director, Scottish School of Primary Care

GRAY, Muriel Janet
Presenter, Broadcaster, Author and Businesswoman

HAMMOND, Giles Dominic
Professor of Experimental Gravitational Physics,
University of Glasgow

HARDINGHAM, Giles Edward
Professor of Molecular Neurobiology,
University of Edinburgh

HARRIS, Zinnie
Playwright, Screenwriter and Theatre Director

HENDERSON, Robert Kerr
Professor of Electronic Imaging,
University of Edinburgh

HEVIA, Eva
Professor in Pure and Applied Chemistry,
University of Strathclyde

HEYMANS, Catherine
Professor of Observational Cosmology,
University of Edinburgh

HIGGINS, Bernard
Chairman, National Galleries of Scotland

JACKSON, Peter
Professor of Global Security, University of Glasgow

JAMIE, Kathleen
Professor of Creative Writing, University of Stirling

KING, Ruth
Thomas Bayes' Professor of Statistics,
University of Edinburgh

KUENSSBERG, Nicholas Christopher
Chairman, Social Investment Scotland
and the Royal Conservatoire of Scotland

LANE, Barbara
Director, Ove Arup & Partners Ltd

LEAN, Michael Ernest John
Professor of Human Nutrition, University of Glasgow

MACDONALD, Angus Donald MacKintosh
Independent Businessman and Investor

MACKAY, Fiona
Professor of Politics; Director, genderED,
University of Edinburgh

MASSIMI, Michela
Professor of Philosophy of Science,
University of Edinburgh

MURRAY, Alison Dorothy
Roland Sutton Professor of Radiology,
University of Aberdeen

O'NEIL, Deborah Antoinette
Chief Executive Officer and Chief Scientific Officer, Novabiotics

PONTING, Christopher Paul
Professor of Medical Bioinformatics,
University of Edinburgh

POWELL, Wayne
Principal and Chief Executive, SRUC, King's Buildings Campus

PRICE, Martin Francis
Director, Centre for Mountain Studies, Perth College,
University of the Highlands and Islands

RINTOUL, Gordon Charles
Director, National Museums of Scotland

SHAW, Jo
Salvesen Professor of European Institutions,
University of Edinburgh

SIGSWORTH, David
Chairman, Sigma Capital Group plc

STANLEY-WALL, Nicola Ruth
Professor of Microbiology, University of Dundee

STUART-SMITH, Jane Helen
Professor of English Language and Linguistics,
University of Glasgow

SUDLOW, Cathie L M
Professor of Neurology and Clinical Epidemiology,
University of Edinburgh

VAN HEMERT, Jano Ilja
Research Director, Optos Plc

WALLACE OF TANKERNES, The Rt Hon Lord James
Member, House of Lords

WHYTE, Moira
Director, MRC Centre for Inflammation Research
and Sir John Crofton Professor of Respiratory Medicine,
University of Edinburgh

Congratulations to Fellows Recently Honoured

Fellows listed in Her Majesty The Queen's New Year Honours List 2018

Knight Bachelor

Professor John Kevin Curtice FBA FAcSS
Professor of Politics, University of Strathclyde
For services to the Social Sciences and Politics

The Very Rev Professor Iain Richard Torrance
Pro-Chancellor, University of Aberdeen
For services to Higher Education and Theology

Dame Commander of the Order of the British Empire (DBE)

Dr Susan Rice CBE
For services to Business, the Arts and Charity in Scotland

Order of the British Empire: Commander (CBE)

Professor David Nevin Fraser Bell
Professor of Economics, University of Stirling
For services to Economics and Public Policy

Professor Richard Ludlow English
Pro-Vice-Chancellor and Professor of Politics,
Queen's University Belfast
For services to the Understanding of Modern Day
Terrorism and Political History

Professor Andrew David Morris FMedSci
Professor of Medicine and Vice-Principal Data Science,
University of Edinburgh
For services to Science in Scotland

Benjamin John Paget Thomson
Chairman, Inverleith LLP
For services to Arts and Culture in Scotland

Order of the British Empire Officer (OBE)

Professor Margaret Catherine Frame FMedSci
Professor of Molecular Cell Biology, Cancer Research
UK Edinburgh Centre
For services to Cancer Research

Professor Kathryn Anne Whaler
Professor of Geophysics, University of Edinburgh
For services to Geophysics

Order of Saint Michael and Saint George (CMG) (Diplomatic Service and Overseas List)

Professor William George Stirling CorrFRSE
Director, Institut Laue-Langevin, Grenoble, France
For services to British science and international
science collaboration.

Professor Tariq Durrani OBE FIET FIEEE FREng

Elected
a Foreign
Member of the
US National
Academy of
Engineering
on 7 February
2018. The
honour was
conferred
on him in
recognition
of innovations
in key areas
of signal
processing
and leadership
in engineering.



Professor Durrani is a Research Professor at the University of Strathclyde. He served on RSE Council, 2003–2006; as Vice-President, Physical Sciences, 2007–2010; and as Vice-President, International, 2012–2015.



Professor Roger Crofts CBE

Awarded Honorary Fellowship of the Royal Canadian Geographical Society at its Fellows' Dinner and AGM in Quebec on 16 November 2017. Professor Crofts is Chairman of the Royal Scottish Geographical Society (RSGS).

Professor Crofts delivered the annual Scottish Consortium for Rural Research (SCRR) Peter Wilson Lecture at the RSE on Tuesday 27 February 2018 on *Scotland's Land: Successes and Failures, Challenges and Solutions*. Prior to giving his lecture, Professor Crofts presented an Honorary Fellowship of the RSGS to RSE CEO, Dr Rebekah Widdowfield (*pictured above*).

Read the summary report of Professor Crofts lecture at: www.rse.org.uk/events/past

RSE – Out and About

In a recent initiative, the RSE invited a number of Fellows living in different localities around the country to act as 'Regional Champions', with the aim of broadening the reach of RSE activities. The role of these champions varies, depending on the region, but mainly involves organising local activities which will be a mixture of 'outreach' events for the general public and events aimed at strengthening involvement with RSE Fellows. The first of these events took place in late 2017.

The Glasgow and Southwest Scotland group met in Irvine on 9 November 2017. In the afternoon, champions, Professor Gerard Carruthers FRSE and Professor Colin Suckling FRSE, along with invited speaker Professor Sir Tom Devine FRSE, visited Greenwood Academy. They discussed with fifth and sixth year pupils how Scotland in the 18th Century helped define the modernity of the world in both culture and science; the key ideas of this period; significant inventions; and the legacy of this intellectual activity today. This was followed by a public talk by Sir Tom Devine, who examined why the Scottish Enlightenment happened. Over 130 people attended these events (*pictured below*).



Professor Richardson introduces the event in Oxford, (below)



(above l-r) Allen Paterson, then President of the Irvine Burns Club; Professor Sir Tom Devine FRSE; Professor Colin Suckling FRSE, Freeland Professor of Chemistry, University of Strathclyde and Regional Champion for Glasgow and Southwest Scotland

On the afternoon of 15 December, the London and Oxford champions held the first regional event outside Scotland at Queen's College, Oxford. Attended by almost 50 people, their inaugural symposium, entitled *Scottish Enlightenment and the Royal Society of Edinburgh: Genesis and Legacies* provided the opportunity to hear about some of the major figures of the Scottish Enlightenment.

The opening address was given by Vice-Chancellor Professor Louise Richardson FRSE, who then introduced the speakers, who included:

- Timothy Williamson FRSE, Wykeham Professor of Logic, University of Oxford, on David Hume;
- Dr Matthew Eddy, Associate Professor in the History and Philosophy of Science and Society, Durham University, on Joseph Black; and
- Dr Alexander Stoddart FRSE, Sculptor in Ordinary to Her Majesty The Queen in Scotland, on creating the sculptures of David Hume, Adam Smith and James Clerk Maxwell.

The presentations clearly illustrated the way in which the close connections and regular meetings between principal figures in the Enlightenment were hugely significant in leading to the foundation of the Royal Society of Edinburgh in 1783.

RSE Regional Champions are organising events in Spring 2018 in Dumfries, Belfast and Aberdeen. Guests will include Fellows, members of local organisations and members of the public.

Friends of the RSE

The RSE is grateful to its corporate members for their ongoing support. Together, we will continue to explore areas of mutual interest and benefit. From business innovation and policy to supporting entrepreneurs and international links, the RSE is strengthened by its engagement with businesses.

Find out more online at: www.rse.org.uk/support-us



Lily Atiyah

Dr Lily Atiyah died peacefully, in her sleep, in Edinburgh, aged 90, on Tuesday 13 March 2018.

Married to Professor Sir Michael Atiyah OM, (President of the RSE, 2005–2008) for nearly 63 years, Lily was a mathematician and a teacher, as well as wife, mother and grandmother.

A private burial, at Binning Memorial Wood, took place in March.

Lily is pictured with Sir Michael at the *Michael and Lily Atiyah Portrait Gallery of Mathematicians*, which they created in April 2013.

Situated in the James Clerk Maxwell Building, on the King's Buildings campus of the University of Edinburgh, the Gallery houses portraits of 70 mathematicians, 19 of whom are past or present Fellows of the RSE. An online version of the Gallery can be viewed at: bit.ly/AtiyahMathematiciansGallery



A memorial celebration of Lily's life will be held in the Playfair Library of the University of Edinburgh on Friday 20 July 2018.

In Honour of Jocelyn Bell Burnell DBE



The RSE Triennial Dinner is held once during the three-year term of each Presidency, usually towards the end of the tenure. The Dinner in honour of Jocelyn Bell Burnell was held on Wednesday 24 January 2018 at the Assembly Rooms, George Street, Edinburgh. As pictured on the front cover, the Guest of Honour was Her Royal Highness, the Princess Royal.

Many Fellows and their partners attended, along with civic dignitaries and eminent guests from Scotland and around the world, including representatives of several national academies and other learned societies who were participating in a meeting of national academies at the RSE on the following day (featured on p. 8).

Professor Bell Burnell and Princess Anne are pictured below with (*l-r*) Professor Peter Kennedy, Royal Irish Academy; Professor Andrew Holmes, Australian Academy of Science; and (back view of) Professor Chad Gaffield, The Royal Society of Canada



Princess Anne in conversation (*above*) with the first female President of the RSE, Professor Bell Burnell and the first female CEO, Dr Rebekah Widdowfield, and below with the new RSE President, Professor Dame Anne Glover, who took up office on 1 April 2018.



RSE Triennial Dinner 2018



At the beginning of the evening, some RSE business was conducted, including the formal admission of Professor Michael Baker, (*top right*), (elected to the Fellowship in 1995 but had never signed the Roll).



Dr Alison Elliot took up her new role as RSE General Secretary on 1 April 2018. She is pictured (*right*) with Lady Brown, wife of past RSE Treasurer, Sir Ewan Brown.



Her Royal Highness then presented an RSE Royal Medal to Donald Runicles OBE, Chief Conductor, BBC Scottish Symphony Orchestra. Mr Runicles had been unable to attend the presentation of Royal Medals in July 2017. He was awarded the honour for his outstanding contribution to the art of music at the highest international level.

Following the Dinner, Professor Bell Burnell gave the Loyal Toast. Her Royal Highness then gave a toast to the RSE and its Guests and Sir Emyr Jones Parry, President of the Learned Society of Wales, replied on behalf of the Guests.

The evening was drawn to a close by Piobaireachd music performed on the Highland Bagpipe by Professor Joshua Dickson, Head of Traditional Music at the Royal Conservatoire of Scotland.



COPY

Please send any copy to the Editor (Jenny Liddell) at the Society – jliddell@theRSE.org.uk
ReSourceE: ISSN No 1473-7841

The Royal Society of Edinburgh, Scotland's National Academy, is Scottish Charity No. SC000470
The RSE Scotland Foundation is a connected charity, registered in Scotland as Scottish Charity No. SC024636
The RSE Scotland SCIO is a connected charity, registered in Scotland as Scottish Charity No. SC043194

ADDRESS

22-26 GEORGE STREET
EDINBURGH, SCOTLAND
EH2 2PQ

INFORMATION

website: www.rse.org.uk
bit.ly/rsescotlandfoundation
Tel: 0131 240 5000
Fax: 0131 240 5024
Events ticketline: 0131 240 2780