SCOTLAND'S NATIONAL ACADEMY
New Fellows 2020
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RSE
The Royal Society of Edinburgh
KNOWLEDGE MADE USEFUL

Welcome from our President

As President of the Royal Society of Edinburgh, I am delighted to welcome all the individuals joining the Fellowship in 2020.

The whole of the RSE, Council, Fellows and Staff, are disappointed that, due to current restrictions, we are unable to greet you and give you an opportunity to meet each other in person at this time. Nevertheless, we still wish to mark this happy occasion of our growing membership and provide you with the introductions and information required to begin your affiliation and engagement with our community.

There is no doubt that globally we are facing a most enormous challenge in dealing with COVID-19 and our way of life and economies will be subject to substantial disruption. My hope is that we might use this crisis to think about what sort of society we want to be and that the RSE will be a key organisation in bringing different actors together to offer a positive future for all.

For such a small country, we surpass ourselves with the talent and expertise that exists across our academic, cultural and business landscape. Celebrating and harnessing this breadth of expertise has been core to the RSE since its inception in 1783.

A review of former Fellows is an illustrious roll call of leading scientists and thinkers from Adam Smith to Charlotte Auerbach; Sir Walter Scott to James Watt. Our current membership spans Jocelyn-Bell Burnell to Jim Hough; Anton Muscatelli to Lucinda Bruce Gardyne as well as leading figures from the arts including David Greig and Val McDermid. It is incredibly exciting to see the Fellowship expanding once again this year with a host of individuals from fields as diverse as mental health law, particle physics, theatre direction and gender relations.

This range of expertise enables the RSE to continue delivering its mission of 'knowledge made useful' and respond to the challenges we face in the world today. All of our Fellows are assets, not just to the RSE but to Scotland and the rest of the world.

I wish you all the very best and look forward to meeting you as soon as time allows.

Professor Dame Anne Glover
FRS PRSE

Welcome from our Chief Executive

Let me join the President in both congratulating and welcoming all our new Fellows on behalf of the staff group.

As the Chief Executive of the Royal Society of Edinburgh, it's a privilege to be able to work with and call on such a wide array of talent and expertise.

The RSE was established in 1783 for the 'advancement of learning and useful knowledge' and that remains our mission to this day; deploying knowledge for the benefit of Scotland and the wider world or in the words of our strapline, 'knowledge made useful'.

We deliver on that mission in a number of ways. We:

- **Inspire** and support young talent through a programme of research awards and grants;
- **Engage** the public on key contemporary issues through our outreach programme RSE@ and a wide-ranging programme of public events and talks;
- **Provide** impartial advice and **expertise** to inform policy and practice; and
- Build research collaborations and **promote** Scotland's research base overseas.

Our Fellows are fundamental to the work we do. Whilst we are a fellowship organisation, we are also a volunteering one and we are hugely grateful to our Fellows who give of their time freely in support of the Society's activities. This booklet will introduce you to the work of the RSE and the many ways in which you can use your knowledge and expertise to lend your support.

Over the last couple of years, we have been on a journey of change to enhance our visibility, impact and reach as an organisation. This has involved a wide-ranging programme of activity, focused around four inter-related priorities: being more strategic about the way we work, better communicating what we do, engaging more widely and more effectively, and diversifying the Fellowship. This journey towards increased impact for public good continues with current priorities focused around implementing the recommendations of a recent governance review, doing more things digitally, and developing a regional strategy consistent with our role as Scotland's National Academy.

As a Society of over 230 years standing, we are proud of our history and heritage, but we are also committed to being a modern and outward-looking organisation, relevant to the world in which we live. In that context, a key priority over the coming year will be a significant body of work to support Scotland as it emerges from the coronavirus pandemic. As part of that we have set up a Post-COVID Futures Commission to help identify and address some of the immediate policy implications and challenges arising from the coronavirus outbreak and support thinking around some of the bigger questions it raises.

You join the Fellowship at an exciting time as we continue to develop as a Society and when the need for a National Academy has perhaps never been greater. I hope that the following pages will give you some insight into the work of the RSE and the many ways you can get involved in delivering our mission of 'knowledge made useful'.

We look forward to working with you and hope to see you in person soon.

Dr Rebekah Widdowfield
FRSA

RSE governance

The Royal Society of Edinburgh (RSE) is Scotland's National Academy.

It is an independent body with charitable status. The RSE, working as part of the UK and within a global context, is committed to the future of Scotland's social, economic and cultural wellbeing.

The work of the RSE is guided, advised and supported by a range of committees. These fall into the categories of:

- **Governance Committees**
  Providing scrutiny and supporting the work of Council in delivering its statutory responsibilities (for example, in areas such as finance, audit and governance).
- **Functional Committees**
  Principally acting in an advisory capacity, providing guidance and support to the Executive in the execution of the strategy agreed by Council (for example in terms of international priorities, education and public engagement).
- **Operational Committees**
  Undertaking specific tasks, including assessing applications for awards and prizes or nominations for Fellowship.

The RSE's extensive programme of work is delivered by the CEO and professional staff of the RSE.

Fellows are actively encouraged to engage with the work of the RSE through these committees, and calls for volunteers, or requests to participate, will be made at various points throughout the year.

Council of the Society 2020–2021

President
Professor Dame Anne Glover FRS

Vice-Presidents
Professor David Bell CBE
Arts & Humanities
Professor Marcel Jaspars
International
Professor Mandy MacLean MBE
Life Sciences
Professor Russell Morris
Physical Sciences
Professor Andrew Porter
Business

General Secretary
Dr Alison Elliot CBE

Treasurer
Dr John Brown CBE

Fellowship Secretary
James Boyle

Ordinary Members
Professor Jill Belch OBE
Professor Julian Jones OBE
Professor Sir Mark Jones
Professor Rebecca Lunn MBE
Professor Petra Wend

RSE staff

Chief Executive
Dr Rebekah Widdowfield

Executive Officer
Julie Steele

Director of Programmes
Sarah Skerratt

Public Engagement Manager
Róisín Calvert-Elliott

Public Engagement Programme Lead
Karen Sim

Public Engagement Officers
Hannah Bentley
Nazia Khan
Kate Kennedy
Catriona McDougall

Policy Advice Manager
William Hardie

Policy Advice Officers
Craig Denham
Paul Stuart
Daria Tuhtar

International Relations Manager
Alan Salonika

Regional Strategy Lead (Secondee)
Nuala Gormley

Enterprise Fellowship Manager
Anne Fraser

Enterprise Officer
Hannah Chater

Research Awards Manager (Secondee)
David Nisbet

Awards Officer
Ruth Scott

Fellowship & YAS Manager
Morven Chisholm

Membership Officer
Sarah Quinn

YAS Officer
Marie Montondo

Interim Director of Finance & Corporate Services
Gordon Laidlaw

Financial Controller
Shona O'Brien

Senior Finance Officer
Jean Geoghegan

Finance Officer
Jan Williams

Finance Assistant
Robyn Courtenay

Information Services Manager
Jennifer Cameron

Corporate Services Assistant
Karen O'Neill

CRM/IT Manager
Ciara Nelson

IT Project Support Assistant
Beth Parker

Business Manager
Minante Duncan

Records Management Officer
Laura Earley

Business Support Assistant
Sasha Carcassonne

Senior HR Advisor
Christel Baudère

Director of Development
Vacancy

Legacies & Individual Gifts Manager
Jen McCoull

Venue Manager
Martina Hlinkova

Venue Coordinator
Fiona O'Keeffe

Venue Assistants
Lesley-Ann Lamont
Brian Adie

Receptionist
Rebecca Stabler

Facilities Officers
Brian Scott
George Pendleton

Head of Communications
Sharon Simpson

Senior Communications Officer
Jenny Liddell

Enterprise & Awards Marketing Officer
Hannah Robertson

Digital Communications Officer
Stephen Wilson

Marketing Officer
Vacancy

Aims and objectives

Knowledge made useful

The RSE, Scotland's National Academy, was established in 1783 for 'the advancement of learning and useful knowledge'. Our contemporary mission remains the same – the deployment of knowledge for public good: knowledge that contributes to the social and economic wellbeing of Scotland and its people and the nation's wider contribution to the global community.

We deliver on this mission through our strategic objectives and impacts to:

Inspire

Inspire and support Scotland's most promising young talent across the research, business and public sectors, in order to create value for the economy and society.

Enhance research capacity and leadership in Scotland.

Strengthen Scotland's cross-sector connections and its ability to realise benefits from its research and innovation.

Engage

Engage on key contemporary issues by providing an impartial forum for public debate and discussion.

Enhance the public's contribution to and engagement with contemporary national and global scientific, cultural and economic issues.

Provide Expertise

Provide expertise to ensure that Scotland's policy makers and influencers have access to the best national, and indeed global, expertise.

Inform and influence public policy.

Promote

Promote Scotland's interests and reputation on the global stage.

Raise Scotland's profile and strengthen its connections with the world.

Inspire

Our work

RSE Awards promote innovation and entrepreneurship and support leading research that benefits Scotland's cultural, economic and social wellbeing. These are divided into two distinct programmes: Research Awards and Enterprise Fellowships:

- the RSE Enterprise Fellowship is a leading, UK-wide business creation, development and training programme for the higher education sector that enables researchers to develop into world-class entrepreneurs. The award offers a tailored, equity-free support package worth up to £90,000, including a one-year academic salary; cutting edge business training and professional mentoring; up to £10,000 business support funding; and networking opportunities;
- our Research Awards support researchers from all academic disciplines; facilitate international and multidisciplinary collaboration; and fund research that makes a difference to the real world. A recent survey of our award holders has confirmed that our awards have significant impact supporting an academic's career development, facilitating collaborations, leveraging funding from elsewhere and enabling knowledge exchange. A working group was established in 2019 to design a refreshed programme of awards that most efficiently and effectively delivers on our Inspire aims. Subject to consideration and approval by RSE Council, we anticipate announcing a refreshed programme of awards for 2021.

How Fellows can get involved

Short-term opportunities:

- use academic and business contacts to promote the Research Awards and Enterprise Fellowships
- attend Enterprise Fellow presentations where current Enterprise Fellows update on their progress. Audience members are encouraged to question the Enterprise Fellows on their business proposal and future aspirations
- attend the Entrepreneurs' Club, an informal dinner where members of the Enterprise Fellowship alumni, RSE Business Fellows, mentors and investors have the opportunity to meet and exchange knowledge.

Longer-term engagement may include:

- volunteering to serve on our selection committees
- leading and supporting networking events such as the Celebrating Research and Innovation event or Enterprise Fellowship Networking
- acting as business mentors for our Enterprise Fellows
- making nominations for RSE medals, which include Public Engagement Medals, Early Career and Senior Medals and the Royal Medals (the RSE's highest accolade).

Case study: supporting early career researchers

The support of Fellows is invaluable in identifying awards recipients and facilitating the Inspire programme delivery. In 2019, a 'Visitors to Scotland' grant for Australia-based early-career researcher, Dr Fiona Cousins, enabled her to visit Edinburgh to work with Professor Philippa Saunders FRSE to further their mutual interests in developing novel therapies for endometriosis. This RSE-funded visit fast-tracked Dr Cousins' research by giving her access to an established tissue bank and the opportunity to present her work to Edinburgh endometriosis experts. Both researchers appreciated the face-to-face meetings facilitated by the grant, which have strengthened their collaboration.

Full case study.

Case study: harnessing former Enterprise Fellows experience

Fellows use their expertise and contacts to support the work of the Enterprise Fellowship scheme in a range of ways. One particularly apt example is Professor Andy Porter FRSE, who currently sits on the selection panel to help us chose the next intake of Enterprise Fellows, and was himself an Enterprise Fellow in the past. His experience as a participant in the programme brings useful insight during the selection process; he also acts as a mentor for Enterprise Fellows, including Caroline Barelle of Elasmogen Ltd.

Full case study.

Contact details:

Enterprise Fellowships
enterprisefellowships@therse.org.uk

Research Awards
awards@therse.org.uk

Engage

Our work

Our Public Engagement programme utilises different approaches to engage with the public, including: expert talks; debates/ discussions; Doors Open Days; family days; interactive displays and workshops; activities as part of key Scottish festivals.

These multi- and cross-disciplinary activities attract a cross-generational audience and take place in the RSE building on George Street and at other locations across Scotland.

Our community-focused RSE@ project delivers school and public activities for an extended period of time in a region of Scotland outside the central belt. The current RSE@ Inverness project commenced in 2017 and continues in 2020.

RSE@ Schools Talks and Science Masterclass sessions provide free activities for school-aged children (P6–S6) throughout Scotland. These activities cover a wide range of subjects.

To help us deliver our programme, we seek input from RSE Fellows and other experts.

We also work with a range of partner organisations and collaborators to deliver activities and engage those who may not have ready access to the RSE.

Where appropriate, we harness new technologies and use a range of communication channels to encourage wider participation.

We continually measure and monitor the impact of our programme and use this evidence to inform future work priorities and improve approaches to engagement.

How Fellows can get involved

Short-term opportunities:

- contribute to our Scotland-wide series of Schools Talks which run throughout the school year
- submit an idea for a 'Show' or *Tea & Talk* for *Curious* 2020 (summer programme) on three themes: 'Our Planet', 'Health & Wellbeing', and 'Innovation & Invention'.

Longer-term engagement may include:

- membership of the Public Engagement Advisory Group (meets three times per year)
- propose ideas for RSE public engagement
- provide input and help shape upcoming activities, such as activities on the topic of climate change in the run up to COP26 in 2021.

Case study: sharing knowledge on Scots language

"I give talks on the history of English and of Scots; on spellings and sounds; on book history; and on the language of poetry, drawing on my own areas of research and teaching, and on experiences I have had working with, for example the *Dictionary of the Scots Language*. The talks on Scots are currently very popular; folk have often said – even though they don't quite put it this way – that having an 'outsider' like myself come and talk about their own language, as something worth studying, is an empowering experience for them.

"I've spoken all over Scotland, which has been wonderful. Highlights have included speaking in Kilchoan, to a primary school with a full roll of ten pupils, followed by an address to almost the entire population of the Ardnamurchan peninsula, and at the 'RSE@' initiative in Inverness and environs, including an open event for the local community.

"I've also had the chance to build a few bridges between the 'ivory tower' of universities (as they are sometimes still seen, I fear) and Scottish schools where, too often, still, higher education is not seen as 'something for us'. I have learned a huge amount from the teachers I've worked with, during informal chats and CPD events. This year, I have undertaken return visits to Dumfries, Elgin and Moffat, building special connections between higher and secondary education."

Professor Jeremy Smith FRSE

Contact details:

public_engagement@therse.org.uk

Provide expertise

Our work

We contribute proactively to national discussions around contemporary and emerging issues. Using the RSE's convening power, we organise roundtables and discussions, bringing together a range of perspectives on a particular topic. We look to work in partnership with others where it is appropriate to do so.

We regularly respond to consultations and calls for evidence from various bodies at both Scottish and UK levels. This involves assembling a broad-based working group of Fellows to discuss the issues and inform the development of an advice paper. We engage directly with parliamentary committees and submit debate briefings to members of parliament.

From time-to-time we undertake in-depth and longer-term inquiries into issues of contemporary importance to Scotland.

There are also standing committees on education and economy and enterprise which have more specialised remits.

How Fellows can get involved

Short-term opportunities:

- contribute to advice papers and other working groups
- provide oral evidence to parliamentary committees when invited
- participate in policy-related discussions and events
- identify new or evolving issues and topics to which the RSE could add value through expert advice.

Longer-term engagement may include:

- contribute to inquiries and longer term areas of work
- expand and strengthen the RSE's relationships with academia, business, and other sectors
- join a standing RSE committee.

Case study: advising on Scotland's energy future

"I recently participated on a discussion panel on *Scotland's Energy Future: No Easy Options*, a fringe event organised by the RSE at the SNP Conference in Aberdeen in October 2019. The panel addressed key themes from the RSE's Inquiry into Scotland's Energy Future. I have also contributed to a working group response to the Scottish Government's consultation on its *Draft Offshore Wind Policy Statement*.

"The RSE panels and consultations I have been involved with have had a diverse and extremely well-balanced composition, enabling them to produce high-quality and relevant outputs. I have had the opportunity to interact with experts from fields different from mine with whom, otherwise, I would not have had the opportunity to work. As an engineer who strongly believes that engineering solutions must reflect wider societal values and needs, such opportunity is invaluable. Contributing to RSE policy activity has enabled me to expand my professional network and consider policy questions from new angles.

"I would like to encourage all new Fellows to get involved with RSE policy activities. Our contribution is key to supporting the RSE mission of Knowledge Made Useful. The work is aided by extremely professional support provided by the excellent RSE staff."

Professor Raffaella Ocone FRSE

Contact details:

publicpolicy@therse.org.uk

Promote

The RSE was represented at the 'British Council Going Global: Scotland-Germany Partnerships' organised by Connected Scotland partners in Berlin, May 2019

Our work

RSE International activity plays a vital role in facilitating and supporting international collaborations between Scotland and other countries. Through the RSE strategic partnerships with prominent academies around the world and working with our Fellows (including our Corresponding Fellows), we are able to raise awareness overseas of the world-class research and innovation being undertaken in Scotland.

We are working hard to redevelop some of our core activity both at the RSE and globally with partners during this challenging time for all. Development work continues with our Africa Working Group as the RSE prepares to initiate partnerships on that continent whilst supporting our committed activity with China, Germany, Italy and Japan over the next 12 months. The RSE, at any one time, has a global footprint across 21 countries through its various activities or funding and we deliver on our aims through:

- building links and strategic partnerships with academies and learned societies across the world
- facilitating and participating in joint workshops and projects with partners overseas
- funding an international exchange programme and enabling international collaborations
- harnessing the knowledge and international networks of our Fellows both in Scotland and overseas.

How Fellows can get involved

- International workshop lead or speaker
- International themed roundtable participant
- International Committee member
- All European Academies (ALLEA) working group participation
- Mobility funding such as bilateral visits and two-year joint projects
- Incoming delegation visits
- Vice-President International (three-year term).

Case study: Scotland-Taiwan workshop on global challenges

In October 2019, Professor Chris Philo FRSE lead a team of eight experts to participate in a joint Scotland–Taiwan workshop in Taipei. He scoped and developed a workshop around global challenges, focusing on the social sciences of contemporary global change.

Chris was instrumental in supporting international collaborations, research development, subsequent joint project funding, and the overall success of the workshop. He developed the thematic approach in order that the workshop could identify economic, political, social and cultural dimensions of global change.

The workshop identified – and found original angles on – a cluster of issues, concerns and problems that can drive new agendas in academic research with potential relevance for public policy, corporate governance and community practice.

Contact details:

Alan Salonika,
International Relations Manager
asalonika@therse.org.uk

Young Academy of Scotland

The RSE Young Academy of Scotland (YAS) brings together young professionals from all sectors to work together on projects that benefit Scotland and the world. By sharing its members' expertise and research, YAS investigates pressing social issues, informs public debate, amplifies marginalised voices, and drives transformational change.

YAS was set up by the RSE in 2011, as part of an international movement which is seeing National Academies worldwide setting up Young Academies, to engage a younger generation of researchers and professionals in their public benefit work.

YAS has around 120 members, who range in age from mid twenties to early forties. Members are selected by application and remain for a period of five years.

Our work

YAS delivers member-led projects, around six core societal themes, and five grand challenges, which are set out in its strategic plan;

Current projects include:

- creating a Charter for Responsible Debate which sets out principles for disagreeing with each other and yet achieving common ground in an increasingly polarised world
- maintaining our Research the Headlines blog, which examines the way academic studies are portrayed in the news
- holding an annual YAS–MSP Pairing scheme to bring together young professionals and policymakers to build bridges for future evidence-based policy collaborations.

How Fellows can get involved

Short-term opportunities:

- join the mailing list for the quarterly YAS public newsletter. This provides an update on YAS activities and ways to engage with YAS
- volunteer to act as a mentor for a YAS member (all members are offered the opportunity for mentoring, if they wish it).

Longer-term engagement may include:

- membership of YAS advisory board
- engage with specific YAS projects as these develop
- act as a reviewer for YAS membership applications (the next recruitment round will open in January 2022).

Fellows and YAS working together

Fellows have been involved in supporting the development of YAS since it was established in 2011. As members of the RSE Scotland SCIO (the predecessor to the YAS Advisory Group) Fellows have advised YAS on its direction, focus, priorities and financial position, and their guidance has helped YAS to grow and to increase its impact. Fellows also act as mentors to our YAS members, and this has been incredibly valuable to members, and rewarding to Fellows.

We are now seeing YAS alumni being elected to the Fellowship of the RSE, which shows the excellence within the YAS membership, and further strengthens the connections between YAS and the RSE.

Contact details:

Marie Montondo, YAS Officer
mmontondo@therse.org.uk

RSE YOUNG ACADEMY OF SCOTLAND

Fundraising

The RSE's fundraising aims: strengthening our future

The RSE holds a unique place in society as we bring together the best contributions across academia, the arts, public service, business and industry. The RSE is the vehicle that allows excellence of contribution to be channelled into society for societal impact.

We are proud of the work that we do but ambitious to do more. Whilst we are grateful for the core support we receive from the Scottish Funding Council, this funding is allocated on a short-term basis and for specific activities. As we strive to make a greater impact, our goal is to increase and diversify funds that the RSE uses to support its current programme of activity and develop new initiatives that meet our future ambitions, whilst holding true to our values.

How we will achieve this

As Scotland emerges from the global coronavirus pandemic, the RSE's body of experts and work is more important than ever. There is an urgent need to expand our reach and impact for the benefit of the people of Scotland and the wider world.

The RSE's four strategic objectives: to engage; provide expertise; inspire; and promote, continue to shape our philanthropic opportunities. We are at an exciting stage of development and actively seeking funding from and partnerships with individuals, companies, trusts and foundations.

How Fellows can get involved

As a Fellow, you have an opportunity to play a crucial role in protecting and growing the work of the RSE for the benefit of Scotland, its people and the wider world – now and in the future. There are several ways to contribute:

- making a regular donation
- connecting us to companies or trusts and foundations with which you have contact
- contributing your time and expertise to philanthropic initiatives
- remembering the RSE in your will.

Click here to
Support us

Contact details:

Jennifer McCoull,
Fundraising Manager
jmccoull@therse.org.uk

Other information

ASM and Ordinary Meetings

The Annual Statutory Meeting normally takes place on the last Monday of October each year. All Fellows are encouraged to attend this meeting to hear about the work of the RSE in the preceding year, discuss plans for the future, and approve any governance or laws changes.

In addition, Ordinary Meetings are held throughout the year, and increasingly in different venues around Scotland. Recent meetings have included discussions on improving young people's mental health, the historic connections between the RSE and Russia and the Young Academy of Scotland's (YAS) At-Risk Academic/ Refugee membership initiative. These provide an opportunity to bring Fellows together to discuss topics of interest and are also often an opportunity to engage with external experts and YAS members.

Other Fellow events

A variety of events for Fellows run throughout the year including regular coffee and discussion meetings, Fellow receptions and regional events. We are always keen to hear ideas for new events and from Fellows interested in volunteering as Regional Champions, as part of our Regional Strategy.

Regional Strategy

In 2020, the RSE is developing a regional strategy to ensure that the benefits of the organisation reach the whole of Scotland. As the Fellowship represents the RSE's greatest asset, we are keen to support new Fellows in meaningful engagement with communities across Scotland. As we design further place-based programmes and nationwide activities, we aim to connect Fellows, YAS members and award recipients with the activity, to generate a stronger RSE presence and sharing of expertise.

Please consider which places across Scotland you have a connection to (e.g. by birth, by family) or association with (research location, archive location) and we can explore how you can shape our plans, and we can connect you with RSE activity there.

For more information, please contact Nuala Gormley: ngormley@therse.org.uk.

Funding

The RSE offer grants specifically for Fellows to support their academic activities. These include: funding to support meetings; travel assistance; visitors to Scotland; support for publications; and university/ industry liaison. For more information please see our website or contact the Awards team: awards@therse.org.uk.

Nominations

New Fellow nominations open in February and close on 31 May each year. The assessment process is then carried out from July until the end of November and the final list of candidates approved by the RSE Council in December. Proposed new Fellows are then put to a ballot of the Fellowship. Successful candidates will be informed in the spring.

All Fellows are welcome to get involved in this process, acting as nominators or assessors, and Fellows may also be invited to join nominations groups and sectional committees.

Fellows Room

Fellows are welcome to use the Fellows Room in the RSE building (situated off the Reception Hall) at any time the building is open (normally Monday–Friday, 8.30 am –5.30 pm). The room has tea and coffee facilities, daily newspapers and Wi-Fi, so is suitable for working, relaxing and informal discussions. For more formal meetings, Fellows are asked to contact the Fellowship Team or Venue Team who will normally be able to arrange alternative meeting space for you. This room is also made available to YAS members.

Venue discount

Rooms within the RSE can be hired for conferences, dinners, meetings, receptions, seminars and celebratory occasions, and Fellows who do so are entitled to a 25% room hire discount. For more information, please visit our website or contact the Venue team: rooms@therse.org.uk.

Communication

We keep the Fellowship updated on the activities and opportunities through our monthly Fellows bulletins, the *ReSourcE* magazine and direct communication from different departments about upcoming projects.

Policies

Fellows are asked to familiarise themselves with the RSE's policies, which include an anti-bribery policy, whistleblowing policy, and our procedure for responding to complaints and allegations of misconduct. The policies can be found on our website and regular reminders will also be included in the Fellows Bulletin.

If you have any further questions, please contact the Fellowship team: fellowship@theRSE.org.uk.

Honorary Fellows

CUMMING Alan OBE

Actor, Producer, Singer, Author and Activist

Alan Cumming OBE is an internationally-recognised screen and theatre actor, author, social activist, and – most recently – bar owner, based in New York City. Alan got his start as a student at the Royal Conservatoire of Scotland and has since gone on to perform – both in character and as himself – in films, television and on stages all over the world. His memoir *Not My Father's Son* became a #1 *The New York Times* bestseller. Alan's activism for civil rights, sex education and social justice causes has earned him over forty humanitarian awards. His portrait hangs in the Scottish National Portrait Gallery.

Of his Honorary Fellowship, he said: "We are at a time in history when more than ever before we need to talk, debate, and conclude. It is such an honour to be asked to join such a great group of thinkers and I am so excited to meet the RSE fellows."

FERGUSON Niall

Milbank Family Senior Fellow, Hoover Institution, Stanford University, USA

Niall Ferguson is deeply interested in past, present and future relationships between Scotland, England, Europe and the rest of the world; this is a common theme across his vast spectrum of work as an historian. Niall holds the positions of Milbank Family Senior Fellow at the Hoover Institution and Senior Faculty Fellow of the Belfer Center for Science and International Affairs at Harvard, as well as holding a visiting professorship at Tsinghua University, Beijing. He is the author of fifteen books, an award-winning filmmaker, newspaper columnist, and the founder and managing director of the advisory firm Greenmantle LLC.

Of his Honorary Fellowship, he said: "The RSE can trace its origins back to the 18th-Century Enlightenment, a time when Scottish thinkers collectively achieved some of the greatest intellectual advances in human history. It is a humbling honour to become a Fellow of this extraordinary institution. I relish the opportunity to help maintain the great tradition of innovation in Scotland."

Corresponding Fellows

BATES David

Chief of the Division of General Internal Medicine,
Brigham and Women's Hospital, Boston, USA

Dr Bates is an internationally-renowned expert in health information technology, patient safety, and quality. His work has focused on improving clinical decision making, patient safety, quality-of-care, and cost effectiveness. He is Chief of the Division of General Internal Medicine at Brigham and Women's Hospital in Boston, a Professor of Medicine at Harvard Medical School, and a Professor of Health Policy and Management at the Harvard School of Public Health, where he co-directs the Program in Clinical Effectiveness. He has been elected to the Institute of Medicine and is past Chairman of the Board of the American Medical Informatics Association.

CORDINER Joan

Professor of Process Engineering and External Engagement,
University of Sheffield

A thirty-year veteran of the Chemical Engineering industry, Joan recently switched careers and moved back from the USA to continue her lifelong passion for people development as a Professor of Chemical Engineering at the University of Sheffield. In her industrial career, Joan was as a Technology Manager and Global Risk Lead for Syngenta, previously Astra Zeneca and ICI, and she was a leading researcher in physical property prediction. Her work changed industry design practices through advanced techniques used to model molecules, products, and processes. Joan is also an Honorary Professor at Heriot-Watt University and a Fellow of the Royal Academy of Engineering.

COWMAN Alan

Deputy Director – Science,
The Walter and Eliza Hall Institute of Medical Research, Victoria, Australia

Professor Alan F Cowman is an expert in the field of malaria and his work has determined how malaria parasites evade lethal effects of important antimalarial drugs. This knowledge allowed detection of drug resistant malaria parasites to understand prevalence and spread of drug resistance, important for developing public policy on antimalarial use. He developed tools to manipulate the parasite genome and constructed genetically attenuated parasites as novel avenues to develop vaccines which have progressed to human clinical trials. His work has identified new targets in the malaria parasite for the development of antimalarials.

CURRAN Tom

Executive Director and Chief Scientific Officer,
Children's Research Institute, Kansas City, USA

After receiving a BSc in Biological Sciences from Edinburgh University in 1978 and a PhD from University College London in 1982 for studies carried out at the Imperial Cancer Research Fund (now Cancer Research UK), Tom Curran moved to the United States. Working in industry and academia, his research spans the fields of cancer, signal transduction, brain development and neurobiology. He developed a particular interest in translating scientific discoveries into medical advances for children. His work contributed to a new cancer treatment that shows promise in pediatric brain tumors and was approved for advanced basal cell carcinoma. Currently, he is building a new pediatric research institute in Kansas City, Missouri.

Corresponding Fellows

DAHLAN Malik
Principal and Chief Lawyer,
Institution Quraysh for Law & Policy

Professor Dr Malik R Dahlan is the founder and Principal of Institution Quraysh; Chair of International Law and Public Policy at Queen Mary University of London; Fellow in residence at Harvard; senior research Fellow of the RAND Corporation; and Fellow of the Chartered Institute of Arbitrators. Dahlan is a qualified lawyer and accredited mediator. His legal career includes heading the Middle Eastern practice of Covington & Burling and advising Twitter, Inc. His latest work focused on building up a Peace Mediation Support Group to explore pressing current global negotiation topics such as Jerusalem negotiations, Eurasian energy dynamics, the Belt & Road Initiative, and Investor–State mediation.

MIPANDO Mwapatsa
Principal of the College of Medicine,
University of Malawi

Mwapatsa Mipando has a special interest in building local academic and research leadership capacity that is locally relevant whilst being internationally competitive. He has managed a number of institutional grants/projects that have benefited the College of Medicine in building a critical pool of trained Malawian academics. Mwapatsa has sat on a number of advisory boards including the Medical Education Partnership Initiative (MEPI), Sub-Saharan Africa Medical School Study (SAMSS) and the WHO Expert group on developing Guidelines for Health Professional Training. He has an interest in Medical Education research and non-communicable diseases with a focus on the usage of traditional medicine in cardiovascular diseases. He is currently leading the establishment of a centre of excellence in non-communicable diseases with funding from NIH and the Scottish government.

MOHAN Viswanathan
Director,
Madras Diabetes Research Foundation

Dr Mohan is one of India's leading physician/scientists and his area of speciality is Diabetology. Dr Mohan has contributed 1250 research papers and chapters to text books, with a h-index of 123, and over 110,000 citations. His areas of expertise are epidemiology of diabetes, complications of diabetes, genomics of diabetes, fibrocalculous pancreatic diabetes and monogenic diabetes. He runs a chain of over 50 diabetes centres across India and has trained hundreds of diabetologists in India. He contributes extensively to charity by running several free diabetic clinics.

OSTENDORF Mari
Professor of Electrical & Computer Engineering,
University of Washington

Mari Ostendorf joined the University of Washington in 1999. She is an Endowed Professor of System Design Methodologies in the Electrical & Computer Engineering Department, as well as Associate Vice-Provost for Research. She is a Fellow of the IEEE, ISCA and ACL, a member of the Washington State Academy of Sciences, and a former Australian–American Fulbright Scholar. Professor Ostendorf's research is in speech and language processing. She explores dynamic models for understanding and generating speech and text, particularly in multi-party contexts, with a current focus on conversational AI. Her work contributes to a variety of applications, from education to clinical and scientific information extraction.

Fellows

ABRAMS Lynn
Professor of Modern History,
University of Glasgow

As an historian of the modern world, Professor Abrams' research has been primarily concerned with advancing understanding of the nature of gender relations focusing, in particular, on intimacy and the self and to contributing to innovative methodological approaches, notably personal testimony in all its forms. She has expertise in the history of the child welfare system in Scotland, has published extensively in the field of Scottish social and cultural history including on housing, masculinities, and gendered identities and currently leads a project on the economies and cultures of knitted textiles in Scotland.

ALLEN Rosalind
Professor of Biological Physics,
University of Edinburgh

Professor Allen is a biological physicist who uses mathematical models and experiments to find better ways to control, manipulate and kill bacteria. She has built a new understanding of how antibiotics work, as well as of how microbes drive the natural environment. Professor Allen has a broad scientific background, having obtained her PhD in theoretical chemistry before making a transition to biological physics. As well as her work on microbes, she also developed a widely-used computational method for simulating rare events. Professor Allen previously held an RSE Personal Research Fellowship and was a member of the Young Academy of Scotland.

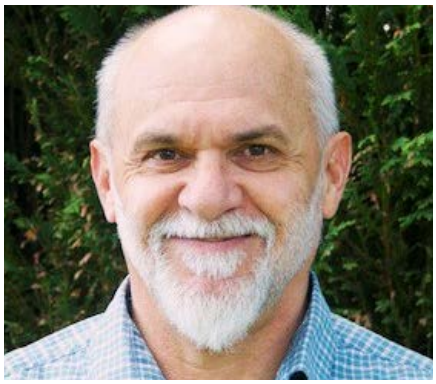
ANDERSON Annie
Professor of Public Health Nutrition,
University of Dundee

Professor Annie Anderson is a Public Health Nutritionist and dietitian. She is co-director of the Scottish Cancer Prevention Network, President of the UK Society for Behavioural Medicine (UKSBM) and Fellow of the Royal College of Physicians (Edinburgh). She is past Chair of the National Prevention Research Initiative (NPRI) scientific committee for the UK Medical Research Council. Her research interests lie in understanding individual and policy-level factors that influence lifestyle change (principally diet and obesity) and the impact of theory-based, behaviourally-focused dietary and obesity interventions in relation to cancer and other chronic disease risk reduction.

BELL Keith
ScottishPower Professor of Smart Grids, University of Strathclyde
and a co-Director of the UK Energy Research Centre

Keith Bell studied electrical engineering as an undergraduate and, by chance, became involved in the planning and operation of the power system, something he studied for his PhD and as a post-doctoral researcher. This took him into being interested in decarbonisation of the power system, grid integration of renewables and risk in electricity supply. Before joining Strathclyde in 2005, he worked in the electricity supply industry for a number of years. His interests over the last decade have broadened to wider questions of energy policy. He became a member of the Committee on Climate Change in April 2019.

Fellows



BORCHERS David
Professor of Statistics,
University of St Andrews

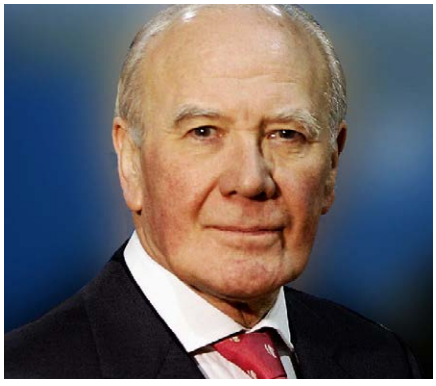
Professor Borchers is a statistician at the University of St Andrews, specialising in the development and use of statistical methods to solve problems in ecology. His statistical research is motivated by conservation issues relating to the distribution, abundance and conservation status of various wildlife populations across the globe. He obtained a PhD from the University of Cape Town in 1996 and worked for the International Whaling Commission, the University of Cape Town, and Biomathematics and Statistics Scotland before moving to St Andrews. Professor Borchers is currently Director of the Centre for Research into Ecological and Environmental Modelling.

BORLAND Christine
Artist

Christine Borland is an artist whose work explores our physical and psychological sense of self in relation to society's institutions of: science, medicine, museology and academia. Over the last 30 years, her work, which makes people and practices, usually inaccessible, visible to the general public, has been exhibited nationally and internationally in galleries, museums and public spaces. Christine lives and works from her studio in Kilcreggan. She was shortlisted for the Turner Prize in 1997, is a Professor of Art at Northumbria University, Newcastle and was awarded a D.Litt from Glasgow University/Glasgow School of Art in 2017.

CAMPBELL Melfort OBE
Director,
Imes Group Limited

Melfort Campbell founded his first business in 1985 and continues as a non executive, with interests in renewable energy and marine industries. Melfort has long focused on innovation and business; university engagement, which he is now applying to the decarbonisation of the UKCS energy industry through his involvement with the Energy Transition Strategic Leadership group; and other boards focused on research and innovation. Melfort is a board member of Scottish Enterprise; former chair of CBI Scotland and the Robert Gordon University Board of Governors; and is a Stipendiary Professor of Engineering at the University of Strathclyde.



CAMPBELL The Right Honourable Lord Menzies of Pittenweem
Chancellor,
University of St Andrews

Menzies Campbell is an advocate, politician, and former Leader of the Liberal Democrats. His practice at the Scottish Bar, from which he has now retired, was in both criminal and civil law, latterly with an emphasis on large-scale planning and licensing of all kinds. He was the MP for NE Fife for 28 years, retiring in 2015 and in the same year being appointed to the House of Lords. In Parliament, his interests have principally been in foreign affairs and defence. He has served on various Select Committees, such as Foreign Affairs, Defence, Intelligence and Security, and National Security. He continues to maintain a keen interest in sport, having competed in the 1964 Tokyo Olympic Games, captained the UK Athletics Team, and held the British 100m record.

Fellows

CROSSMAN David
Dean of Faculty of Medicine,
University of St Andrews

David Crossman is a cardiologist, clinician scientist. His first academic appointment was Professor of Clinical Cardiology at the University of Sheffield in 1994. He has research interests in the inflammatory basis of coronary artery disease, vascular biology and clinical trials in cardiology. He has wide experience in research management and working with Government on policy and research funding. He has been a Dean of Medical Schools both in Scotland and England for nine years and has extensive experience of medical research and education. He is currently Chief Scientist, Health at Scottish Government.

DOBSON Simon
Professor of Computer Science,
University of St Andrews

Simon Dobson works on adaptive systems, especially those driven by sensors. He has concentrated recently on how to make robust decisions from sensor data as the sensor system degrades, which is a critical foundation for making best use of the torrent of data coming from the 'Internet of Things'. He is also interested in complex processes such as how epidemics spread in a population and how urban transport networks function, where mathematical models need to be complemented by repeatable and validated computational experiments.

FIELDING Penny
Grierson Professor of English Literature,
University of Edinburgh

Penny Fielding formerly held posts at the University of Bristol and Trinity College Dublin. Her research interests are in Scottish Literature, 1750 to the present; space and place; and modern and contemporary spy fiction. She is co-director of the *Writing the North* project with the Shetland Museum and Archives, General Editor of the New Edinburgh Edition of *Robert Louis Stevenson*, and co-director of *Edinburgh Spy Week* – an annual series of public events about espionage fiction and history. Her publications include *Scotland and the Fictions of Geography and The 1880s* (co-edited with Andrew Taylor).

FROST Robert
Burnett Fletcher Professor of History,
University of Aberdeen

Professor Frost is interested in the history of Poland–Lithuania from the 15th to the 19th Century; the history of Scandinavia, in particular Sweden, in the early modern period; the history of political unions; and the history of early modern warfare. His current project is a history of the Polish–Lithuanian Union from 1385 to 1815 for Oxford University Press. *Volume 1: The Making of the Polish-Lithuanian Commonwealth, 1385-1569* was published in 2015. It was awarded the Pro Historia Polonorum Prize for the best book on Polish history by a foreign author published between 2012 and 2017.

Fellows

GEIGER Sebastian

Energi Simulation Chair and Director of the Institute of GeoEnergy Engineering, Heriot-Watt University

Professor Sebastian Geiger was previously the Director of Research for the School of Energy, Geoscience, Infrastructure and Society, Heriot-Watt University. He received his PhD degree from ETH Zurich and spent time as a visiting researcher at the Australia National University, Imperial College London and Aramco Research Centre in Houston. His research focuses on the development of innovative technologies that enable the sustainable use of subsurface energy to support the transition to a low-carbon energy future. He received the 2017 Alfred Wegener Award from the European Association of Geoscientists and Engineers for his pioneering research.

GILBERT Ian

Head, Division of Biological Chemistry and Drug Discovery, and Professor of Medicinal Chemistry, University of Dundee

Professor Gilbert is a medicinal chemist with an interest in drug discovery for infectious diseases, particularly those affecting low- and middle-income countries, such as malaria, visceral leishmaniasis, Chagas' disease, tuberculosis and cryptosporidiosis. His research interests also include understanding the molecular mechanisms by which compounds are active against the pathogens that are being targeted. Professor Gilbert is keen to investigate new ways of carrying out drug discovery; for example, using new computational methods. Recently, he has started working with scientists in low- and middle-income countries to try to develop drug discovery capabilities in their own countries.

GILLINGWATER Thomas

Chair of Anatomy, University of Edinburgh

Tom graduated in Human Biology [Anatomy] from the University of Leeds before moving to Edinburgh to undertake a PhD. He was appointed to a lectureship in Anatomy at the University of Edinburgh in 2004, promoted to a personal chair in 2010, and became the 15th Professor of Anatomy in 2015. Tom's research focuses on understanding cellular and molecular mechanisms that regulate the form and function of the nervous system in health and disease. He has been Editor-in-Chief at the *Journal of Anatomy* since 2011. Tom also has overall responsibility for the wide range of anatomy teaching and outreach activities at the University of Edinburgh.

GOSS Rebecca

Professor of Organic Chemistry, University of St Andrews

Rebecca Goss' research is focused at the chemistry–biology interface. She leads a team working toward the discovery and engineering of solutions from nature. Specifically, they seek novel, microbially-produced bioactives, including antibiotics, and pioneer approaches for discovery of enzymes for sustainable production of agrochemicals and pharmaceuticals. Her team has pioneered the GenoChemetic approach to natural product analogue generation. Rebecca's work is recognised through national/international awards, including an ERC consolidator grant and over 150 invited/plenary lectures internationally. She is highly invested in inspiring and mentoring the next generation to embark on exciting careers in science. In addition to her laboratory research and teaching, Rebecca is working on other projects, including toward company spin-out and toward a regular 'BioEngineering in Business' networking event to promote translation and growth of biobusiness in Scotland.

Fellows

GUTHRIE Bruce

Professor of General Practice,
University of Edinburgh

Bruce Guthrie is an academic GP who researches healthcare quality and safety, particularly in relation to multimorbidity, polypharmacy and prescribing. His research spans the spectrum from epidemiology, through the development and evaluation of complex interventions, to working with health and social care to implement and evaluate improvement interventions at scale. To facilitate translation, he collaborates with the NHS in much of his research and has served on a number of national committees including chairing the guideline development group of the National Institute for Health and Care Excellence Multimorbidity clinical guideline.

HAMPSON Katie

Wellcome Senior Research Fellow,
University of Glasgow

Katie Hampson is based at the University of Glasgow working on the dynamics and control of infectious diseases and focusing on the elimination of rabies. She completed her BA in Biological Sciences at the University of Oxford and PhD at Princeton University, USA. Her research combines fieldwork with quantitative analyses, involving close collaboration with international organisations and governments in Africa, Asia, Latin America and Europe. In Tanzania, she has established a long-term contact tracing and genomic study of rabies transmission and surveillance to support and evaluate large-scale control efforts.

HARE David

Independent Non-Executive Director

David Hare is an actuary with a keen interest in ensuring pension savers receive value for money and are equipped to make financial sense of their futures. After 26 years of in-house actuarial roles with various life companies, David finished his executive career as a partner with Deloitte. He now has a portfolio of non-executive roles in insurance and pensions, whilst pursuing his other keen interest in music. David has a wide range of governance experience, including being President of the Institute and Faculty of Actuaries (2013–2014) and a member of the Board of Regents of Bethlehem University. He is married, with a grown-up son.

HENDERSON Ailsa

Professor of Political Science and Head of Politics and International Relations,
University of Edinburgh

Ailsa Henderson (BScSoc Ottawa, MSc Edinburgh, PhD Edinburgh) conducts research on comparative sub-state voting behaviour and political culture, including how national identity affects the choices people make about whether and how to vote in elections and referendums. She currently leads the Scottish Election Study and co-directs the Future of England Survey. She is also Deputy Chair of the Local Government Boundary Commission for Scotland and a Commissioner on the Boundary Commission for Scotland which, together, set ward and constituency boundaries for elections in Scotland. A keen advocate of research methods training for undergraduates, Professor Henderson teaches quantitative methods, data analysis and survey design. She is a frequent media commentator on elections, voting behaviour and public opinion polling in the UK and Canada.

Fellows

HILL Dominic
Artistic Director,
Citizens Theatre

Dominic is a theatre and opera director. Over the past 17 years he has worked as Artistic Director of Dundee Rep Theatre, the Traverse Theatre in Edinburgh and, since 2011, the Citizens Theatre in Glasgow. He has also directed *Macbeth*, *Falstaff*, and *A Midsummer Night's Dream* for Scottish Opera. Dominic has directed the work of a wide range of playwrights – from Aeschylus to contemporary Scottish writers such as Zinnie Harris FRSE and Chris Hannan. He has a particular interest in and love of the works of Shakespeare.

HUXHAM Mark
Professor of Teaching and Research in Environmental Biology,
Edinburgh Napier University

Mark Huxham works on the ecology of coastal ecosystems, with particular expertise in mangroves, having spent many years striving to conserve and restore these remarkable forests. After researching how mangroves trap and store carbon, he helped establish the world's first community-based mangrove conservation project to be funded by the sale of carbon credits. Mark also researches teaching and learning in higher education, looking at new models of partnership between teachers and students and how to use feedback and assessment to encourage deep learning.

KAISER Ralf
Professor of Physics, University of Glasgow,
and Managing Director, Lynkeos Technology

Ralf Kaiser's research has been focused on the fundamental structure of matter and on the design and construction of radiation detectors. Currently, he is most interested in the practical applications of nuclear technology. He has served as Head of Physics at the International Atomic Energy Agency in Vienna, which included the responsibility for the IAEA programmes on nuclear fusion and nuclear instrumentation, as well as numerous missions to Fukushima. Lynkeos Technology, the company he founded in 2016, deployed the worldwide first muon imaging system for nuclear waste containers at Sellafield in 2018.

KEITH Deborah
Chair,
James Hutton Ltd.

Dr Deborah Keith has worked in the science and technology sector for all of her career, culminating in leadership of corporate R&D with Syngenta, a global agri-business. Following an early career in academic research in plant genetics, and in international development in Bhutan, she has spent the majority of her time focused on the commercialisation of R&D innovation, leading global teams to build strategic partnerships between academia and commercial enterprises. Dr Keith is currently a non-executive Director of various commercial and public organisations including as Chair of James Hutton Ltd., splitting her time between London and Wester Ross.

Fellows

LINEHAN Fergus

Festival Director & Chief Executive,
Edinburgh International Festival

Fergus was appointed Festival Director of the Edinburgh International Festival in 2014. He graduated English and Classics at University College Dublin and began his career in the theatre, producing shows and going on to direct the Dublin Theatre Festival from 2000 to 2004. From 2004 to 2009 he was Chief Executive and Artistic Director of the Sydney Festival. From 2010 to 2012, Fergus was Head of Music at Sydney Opera House, where he refreshed the year-round music programme and directed Vivid LIVE, a festival of music and digital art. He has served on advisory boards for the Abbey Theatre and the Dublin Fringe Festival and is a Trustee of IMPACT Scotland. He lives in Edinburgh with his family.

LUCAS Margaret

Director, Centre for Medical and Industrial Ultrasonics,
University of Glasgow

Margaret Lucas is a mechanical engineer working in the research area of high-power ultrasonics. She is currently the founding Director of the Centre for Medical and Industrial Ultrasonics in the James Watt School of Engineering at the University of Glasgow. Margaret is particularly known for her work in high power ultrasonic surgical devices, making significant contributions to the characterisation and control of device dynamics. This research has led to many innovations in ultrasonic surgical tools, especially for bone surgeries. Margaret has built research activity across additional sectors, including manufacturing, oil and gas, and space exploration technologies, with extensive industrial links.

McCRIMMON Rory

Dean, School of Medicine,
University of Dundee

Rory McCrimmon is a Professor of Experimental Diabetes and Metabolism, and Dean, School of Medicine, University of Dundee. His laboratory research interests are in brain regulation of glucose homeostasis in type 1 and 2 diabetes. He is actively involved in clinical trials and is Lead Clinician for the Scottish Diabetes Research Network (SDRN) and a member of the SDRN epidemiology group. Professor McCrimmon serves on Editorial Boards of *Diabetologia* and *Diabetes*, and as a panel member for MRC PSMB, the International Hypoglycaemia Study Group, and a non-executive member of NHS Tayside Health Board.

McMILLAN Iain

Member,
Competition Appeal Tribunal

Sir Iain McMillan was a senior banker prior to joining the Confederation of British Industry (CBI) in 1993. He held the position of Director, CBI Scotland for 19 years until 2014. Sir Iain is currently Chairman of the University of Strathclyde Business School Advisory Board; a Member judge of the Competition Appeal Tribunal; and a Member of the Scottish Future Growth Council. Sir Iain is also Honorary Air Commodore of 602 (City of Glasgow) Squadron, Royal Auxiliary Air Force. He enjoys reading adventure novels and political history and walking on the Isle of Arran where he has his home.

Fellows

MEER Nasar
Professor of Sociology,
University of Edinburgh

Professor Nasar Meer is based at the University of Edinburgh and works on a number of related topics, mainly to do with how societies frame unity and diversity. This includes the study of racial inequalities, global migration, how national identities are constructed and what makes up the thing we call citizenship. This work is 'multi-scalar' (which means it focuses on the local, the national and cross-national) and rests at the interface between social science research and public policy. He works closely with third sector groups and has previously worked with UK and devolved governments, as well as international bodies including the United Nations (UN).

MONTGOMERY Lindsay CBE
Visiting Professor, School of Law,
University of Strathclyde

Dr Montgomery is active and interested in several fields. He promotes access to justice and legal aid as Visiting Professor in the School of Law at Strathclyde and Vice-Chair of the International Legal Aid Group, having been Chief Executive of the Scottish Legal Aid Board (1999–2015). He has conducted reviews of access to justice in various jurisdictions for the Council of Europe. Dr Montgomery's work in public service includes: Chair of the Scottish charity regulator, OSCR; Chair of Community Justice Scotland; and Chair of the Scottish Government's Central Government Digital Transformation Board. In the environmental sector, he is Chair of the environmental charity Keep Scotland Beautiful.

MORRISON Jill
Clerk of Senate and Vice-Principal,
University of Glasgow

Professor Jill Morrison is the 48th Clerk of Senate (first woman) and Vice-Principal at the University of Glasgow, with responsibilities for academic governance. Jill is Professor of General Practice and conducts research in primary care and medical education. She has contributed to key policy reports (e.g., *The National Framework for Service Change/ Kerr Report*), including leading the Long Term Conditions' Action Group, and the Temple Working Group on Medical Careers. Previously Head of Glasgow Medical School, she has chaired the West of Scotland Additional Cost of Teaching Group for NHS Education since 2007, and the Steering Group for the Scottish Learning Disability Observatory since 2020.

MORROW Joe CBE QC
President,
Mental Health Tribunal for Scotland

In 2008, Dr Morrow was appointed as President of the Mental Health Tribunal for Scotland, which deals with over 5,000 cases a year. Prior to that, for eight years he was Commissioner for Mental Welfare, during which time he chaired two public inquiries, one of which radically altered the delivery of forensic services in Scotland. As a QC, he dealt with complex legal issues and formed part of mental health law in Scotland in a complex area of civil life. As Lord Lyon (appointed 2014), Dr Morrow has a constitutional role as a Great Officer of State for Scotland, as well as being Head of the Heraldic Executive for Scotland.

Fellows

MUDD Simon
Professor of Earth Surface Processes,
University of Edinburgh

Professor Mudd is a geomorphologist: a scientist who tries to understand why the landscape looks the way it does and how it changes. Landscapes are formed by interactions between climate, the size and frequency of earthquakes, changes in sea level, vegetation, and the formation, erosion, and deposition of soil. Professor Mudd's research has included using topographic data to detect places where faults are particularly active, determining the return frequency and mechanics of landslides and how salt marshes buffer our coastlines against the worst effects of sea level rise.

MUQIT Miratul
Professor of Experimental Neurology,
University of Dundee

Miratul Muqit is Professor of Experimental Neurology at the University of Dundee and Consultant Neurologist at Ninewells Medical School Hospital in Dundee. His laboratory aims to elucidate fundamental mechanisms and pathways underlying Parkinson's disease. In 2004, he played a major role in the discovery of PINK1 gene mutations in heritable forms of Parkinson's and his lab has made advances in understanding the function of PINK1. His lab also works with companies to exploit PINK1 biology for new therapeutic approaches to treat Parkinson's. He remains clinically active and has an interest in mentoring young clinician scientists.

MURRAY Scott MBE
Emeritus Professor of Palliative Care in the Community,
University of Edinburgh

Professor Scott Murray is passionate that early palliative care may be universally available in the community and requested by patients and their family carers to prevent suffering. He has helped doctors and nurses in every continent to deliver palliative care as part of their daily work through chairing national, European and international committees. Scott has made videos in many languages to explain how most people die nowadays, so that dying may be better understood and less feared: he considers that planning ahead lets people have the best last phase of life possible. Scott believes that remembering we all die, helps us live life to the full.

MUTAPI Francisca
Professor of Global Health Infection and Immunity,
University of Edinburgh

Professor Francisca Mutapi is a Professor in Global Health Infection and Immunity, and Deputy Director of the NIHR Global Health Research Unit Tackling Infections to Benefit Africa (TIBA), both at the University of Edinburgh. She conducts and leads basic scientific research that has had an extraordinary impact on the policy, practice and implementation of Neglected Tropical Diseases (NTD) control. She sits on several advisory bodies including those of the WHO Africa Regional Director, the UK Government's Department for International Development (DFID), UKRI GCRF, African Academy of Sciences and the board of Uniting to Combat NTDs. She is also an accomplished visual artist.

Fellows

NAIRN Sandy
Investment Partner and CEO/Chairman,
Edinburgh Partners

Sandy founded investment firm Edinburgh Partners in 2003. Prior to this he held a range of senior positions in fund management. He has a degree in economics and engineering and a PhD in economics from the University of Strathclyde. Whilst professionally an investor in listed equities, he has been personally involved in numerous start-up businesses and retains a strong interest in new business creation. In 2019, he established a charitable trust to provide assistance to less well-off students entering further education.

OLIVER Neil
Broadcaster and Author

As an archaeologist, Neil's fieldwork experience covers everything from the early Stone Age in Scotland to the examination of the World War II coastal fortifications of Kent and Northern France. He also trained as a journalist, and provided stories for publications such as *The Scotsman*, *The Herald*, *The Guardian*, *The Edinburgh Evening News* and *The Daily Record*. Since 2002, Neil has risen to prominence as a television broadcaster, presenting several BBC historical and archaeological documentary series, including *Vikings*, *Coast* and 2018's *Rise of the Clans*. Neil has continued writing and has published various books. On the back of his latest book, Neil toured across UK, speaking at over 69 venues explaining what British History means to him and why we need to cherish and celebrate our wonderful countries.

OSOWSKA Francesca OBE
Chief Executive,
Scottish Natural Heritage

Francesca Osowska has had a distinguished career in the public sector, beginning in 1993 as an economist in the UK Government. Francesca has held a number of posts in the Scottish Government since 1997, most recently the Director for the Commonwealth Games and Sport, to overseeing the delivery of the Glasgow 2014 Commonwealth Games, for which she received an OBE. Francesca led the Scotland Office of the UK Government from January 2015 and was appointed Chief Executive of Scottish Natural Heritage on 1 October 2017. Francesca holds degrees from Cambridge University (MA economics) and the College of Europe (MA European economics).

PELLONI Beatrice
Professor of Mathematics and Head of School,
Heriot-Watt University

Beatrice Pelloni is a mathematician, interested in the rigorous study of models of fluid dynamics and, in particular, the study of equations that model water waves and atmospheric flows and that must obey certain physical constraints. She has presented her work at high-level international meetings, as the Olga Taussky-Todd Prize Lecturer at the International Congress of Applied and Industrial Mathematics in 2011, and was the Mary Cartwright Lecturer for 2019. After studies in Italy and the US, she worked at Imperial College and the University of Reading, before coming to Scotland in 2016 as Head of the School of Mathematical and Computer Sciences at Heriot-Watt University.

Fellows

PENADÉS CASANOVA José

Professor of Microbiology,
University of Glasgow

In July 2020, José R Penadés will take up the roles of Director of the MRC Centre for Molecular Bacteriology and Infection, and Chair of Microbiology at Imperial College. He is currently Professor of Microbiology at the University of Glasgow. Research in the Penadés lab has focused on the molecular basis of bacterial virulence, deciphering the mechanisms underlying the transfer of different mobile genetic elements (MGEs) involved in pathogenesis. Seminal contributions from his lab include the identification of a widespread family of MGEs, the Phage-Inducible Chromosomal Islands (PICIs), and discovery of the most powerful mode of phage transduction described to date: lateral transduction.

ROBSON Aidan

Professor of Particle Physics,
University of Glasgow

Having been part of the search for and discovery of the Higgs boson, Aidan Robson is continuing work on its characterisation at the Large Hadron Collider, and on planning and optimising the next generation of collider and experiment. This has the aim of discovering phenomena that go beyond the Standard Model of particle physics. He currently leads the Compact Linear Collider Detector & Physics Collaboration at CERN. He has set up a wide programme of public engagement and widening participation in STEM in Glasgow, and is proud to be one of the University of Glasgow's first LGBT 'role models'.

ROWE Alexandra

Professor of Molecular Medicine,
University of Edinburgh

Professor Alex Rowe is a malaria expert who trained in medicine (University of Sheffield) and parasite biology (University of Oxford; National Institutes of Health, USA) before moving to Edinburgh as a research Fellow, becoming Chair of Molecular Medicine in 2009. Throughout her career, she has worked closely with scientists from malaria-endemic countries including Papua New Guinea, Kenya, Mali and Uganda. She is known for identifying human genetic factors such as blood group types that influence susceptibility to life-threatening malaria, and for identifying parasite virulence factors that are potential targets for new drugs or vaccines.

SHERIDAN Alison

Emerita Principal Archaeological Research Curator,
National Museums of Scotland

Dr Alison Sheridan is an archaeologist, specialising in the Neolithic (New Stone Age), Chalcolithic (Copper Age) and Bronze Age of Scotland and the rest of Britain and Ireland, setting the evidence within its broader European context. Her interest is in identifying 'big story' and more detailed narratives, covering issues such as the arrival of farming as a way of life and the subsequent arrival of the so-called 'Beaker People' around 2500 BC. Dr Sheridan focuses on material culture, including Alpine jadeitite axeheads, pottery, and ornaments of jet, gold, faience and amber. Recently retired as a Principal Curator, Department of Scottish History & Archaeology, National Museums Scotland, she was part of the team that created the Early People displays.

Fellows

SOULSBY Chris
Professor of Hydrology,
University of Aberdeen

Professor Soulsby's research aims at understanding the movement of water and its interactions with the landscape. His work focuses on using isotopic and other environmental tracers to understand the movement of water through catchments of various sizes and in different geographical settings. His work has made fundamental scientific contributions by integrating intensive field data with 'state of the art' models. Over the past 25 years, Professor Soulsby has led the development of the University of Aberdeen as an international centre of excellence in catchment hydrology. He was Deputy Head of the School of Geosciences 2005–10, then Head of School 2010–14. He is also a founding member and the Director of the Northern Rivers Institute.

SPEED Chris
Chair of Design Informatics,
University of Edinburgh

Professor Chris Speed is Chair of Design Informatics at the University of Edinburgh, where he collaborates with a wide variety of partners to explore how design provides methods to adapt and create products and services within a networked society. He especially favours transgressive design interventions, to help identify and promote the values we care about most, including coffee machines that order their own ethical supplies, hairdryers that ask you to wait for the right time to blow dry your hair, and apps for sham marriages. Chris has an established track record in directing large complex grants with industry partners, and in 2018 became Director of the Creative Informatics R&D Partnership.

SUTHERLAND The Rt Hon Lord Carloway Colin
Lord President of the Court of Session
and Lord Justice General of Scotland

Lord Carloway (Colin J M Sutherland) is Head of the Scottish Judiciary, with responsibility for securing the efficient business of the Scottish courts. He began his career as an advocate in 1977 (QC in 1990). He was appointed as a judge in 2000 and was Lord Justice Clerk from 2012 until commencing his current role in 2015. He is an active promoter of procedural reform of the civil and criminal courts. He has a keen interest in the culture and economy of the Western Isles.

TIERNEY Stephen
Professor of Constitutional Theory,
University of Edinburgh

Stephen Tierney's research is in constitutional theory and UK and comparative constitutional law. He has published eight books, including two monographs with Oxford University Press, *Constitutional Law and National Pluralism* and *Constitutional Referendums*. Professor Tierney is Legal Adviser to the House of Lords Constitution Committee. In this role, he has advised Parliament throughout the Brexit process. He also served as constitutional adviser to the Scottish Parliament's Referendum (Scotland) Bill Committee in 2013–14, advising on good referendum practice around the world. He was Editor of the UK Constitutional Law blog from 2015–20 and is a member of the Judicial Appointments Board for Scotland.

Fellows

TORRANCE Lesley

Director of Science, James Hutton Institute,
and Professor of Plant Virology, University of St Andrews

Lesley Torrance is a member of the executive team at Hutton, responsible for the strategic direction and delivery of the science programme. She is a plant virologist and has published over 140 refereed papers and articles; she currently leads inter-disciplinary projects to develop sustainable, climate-resilient potatoes, with a focus on sub-Saharan Africa, particularly Kenya and Malawi. Professor Torrance is a Fellow of the Royal Society of Biology and a past President of the British Society for Plant Pathology (2014). She is a member of the CGIAR Independent Science for Development Council and serves on the Board of the Dundee Science Centre.

VAN WEST Pieter

Director of the International Centre for Aquaculture Research and Development, University of Aberdeen

Professor Dr Ir Pieter van West is also the Microbiology Programme Lead in the Institute of Medical Sciences at the University of Aberdeen and was a past Royal Society University Research Fellow. His current research programme focuses on oomycete biology. Several economically and environmentally important oomycetes, or watermoulds, are studied at most disciplinary levels (taxonomy, ecology, epidemiology, biochemistry and cellular and molecular biology and especially host-microbe interactions).

WATSON Nicholas

Chair of Disability Research and Director of Centre for Disability Research, University of Glasgow

Nick Watson's work on disability focuses on the barriers that society places in the way of disabled people and the disadvantage this creates. He has written on a wide variety of topics related to disability, including the provision of social support and care, disabled children and disabled youth, disability hate crime and the history of disability. He was a co-Director of What Works Scotland, and has written on co-production in the delivery of public services, child poverty, evaluation and integration of services.

WESTON Nick

General Manager,
Renishaw Plc

Nick Weston is the General Manager of Renishaw Plc's Edinburgh site, which comprises a team of around 40 engineers, scientists and mathematicians developing new products and manufacturing processes for industrial metrology, additive manufacturing and robotics. He is a named inventor on more than 20 patent families, and co-author of around 90 published articles and papers. His current technical interests touch upon optical and ultrasound measurement, power laser systems and the application of machine learning within these contexts. Nick is a Fellow of the IMechE, Associate-Editor of *Precision Engineering*, member of the EPSRC College and Honorary Professor at Heriot-Watt University.

Fellows

WILSON Andrew

Founding Partner,
Charlotte Street Partners

Andrew is an economist and founding partner of strategic consultancy, Charlotte Street Partners. He holds a number of directorships, trustee and non-executive positions in the business and charity sectors. He has significant experience of publicly listed and private business, third sector work and public service. He has specialised in economics and public policy, especially on the Scottish economy and the implications of potential independence.

YAQOOB Talat

Independent Consultant and Researcher

Talat Yaqoob is a third-sector leader, writer and campaigner, focused on equality issues across politics, public life and the labour market; in particular championing women, communities of colour and migrants. She is an independent consultant providing policy, public affairs and research expertise to the third and public sectors. She was the Director of Equate Scotland, the national expert on women in science, engineering, technology and the built environment. She is a co-founder and Chair of the campaign group Women 50:50, advocating for fair representation of women in politics, which won a Herald Diversity Award in 2017. She is also a member of the First Minister's National Advisory Council on Women and Girls.

Talat is a well-versed public speaker and commentator across media on equalities issues. She won the Write to End Violence Against Women Award in 2017 and the Saltire Scotland Outstanding Women of 2018 award.

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