



PARLIAMENTARY AND SCIENTIFIC COMMITTEE

An All-Party Parliamentary Group



ANNUAL REPORT FOR 2023

This is not an official publication of the House of Commons or the House of Lords. It has not been approved by either House or its committees. All-Party Parliamentary Groups are informal groups of Members of both Houses with a common interest in particular issues. The views expressed in this report are those of the group.

Office-holders 2023

President

Viscount Stansgate

Chairman

Mr Stephen Metcalfe MP

Deputy Chairman

Ms Chi Onwurah MP

Past Presidents

The Lord Oxburgh KBE FRS

The Rt Hon the Lord Jenkin of Roding

The Lord Soulsby of Swaffham Prior

The Rt Hon the Lord Waldegrave of North Hill

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Dr Guy Hembury

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Hon Secretary

Ms Carol Monaghan MP

Secretariat

Mr Leigh Jeffes

Mr David Youdan

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Portland Street, London W1W 5AB

Council

At the end of 2023 the following were members of the Council:

Sir Peter Bottomley	Andrew Mackenzie
Colin Danson	Professor Francesca Medda
Professor Michael Elves	Mr Stephen Metcalfe MP
Mr Atti Emecz	Ms Carol Monaghan MP
Chris Green MP	Ms Chi Onwurah MP
Professor Ian Haines	Professor Narender Ramnani
Dr Guy Hembury	Dr Elizabeth Rollinson
Mr Paul Jackson	Ms Doris-Ann Williams MBE
John Lowe BEM	Lord Willis of Knaresborough

Advisory Panel

Daniel Callaghan

Membership

Parliamentary Membership

Any member of either House of Parliament including those hereditary peers in membership of the Committee on 8th November 1999 shall be eligible to be a member of the Committee.

House of Lords

Baroness Andrews	Lord Krebs
Lord Austin of Dudley	Lord Lucas
Lord Boswell of Aynho	Lord MacKenzie of Culkein
Baroness Brown of Cambridge	Lord McColl of Dulwich
Lord Clement-Jones	Lord Mitchell
Lord Craig of Radley	Professor Lord Robert Mair CBE
Lord Deben	Baroness Neville-Rolfe
Lord Fox	Baroness Nicholson of Winterbourne
Lord Framlingham	Lord Northbrook
Baroness Greenfield	Baroness Northover
Lord Hacking	Lord Patten
Baroness Hamwee	Lord Rees of Ludlow
Viscount Hanworth	Lord Rooker
Lord Haskel	Viscount Stansgate
Lord Hennessy of Nympsfield	Lord Sterling of Plaistow
Lord Hunt of Wirral	Lord Stone of Blackheath
Lord Jopling	Lord Taverne
Baroness Jones of Whitchurch	Lord Taylor of Holbeach CBE
Lord Kakkar	Lord Taylor of Warwick
Lord Kirkhope of Harrogate	Baroness Thornton
	Lord Trees
	Lord Trefgarne

Lord Turnberg
Lord Vaizey of Didcot
Lord Waldegrave of North Hill
Baroness Walmsley

Baroness Warwick of Undercliffe
Lord Willis of Knaresborough
Lord Winston
Baroness Young of Old Scone

House of Commons

Adam Afriyie
Aaron Bell
Bob Blackman
Sir Peter Bottomley
Andrew Bridgen
Dawn Butler
Jo Churchill
Chris Clarkson
Dr Therese Coffey
Ronnie Cowan
Tracey Crouch
Alex Cunningham
David Davies
Martyn Day
Thangam Debbonaire
Caroline Dinéage
Ruth Edwards
Nigel Evans
George Freeman
Katherine Fletcher
Mark Garnier
Sir Robert Goodwill
Rt Hon Michael Gove
Patrick Grady
Chris Green
Stephen Hammond
Paul Holmes

Sir Bernard Jenkin
Gareth Johnson
Darren Jones
David Jones
Clive Lewis
Rebecca Longbailey
Kerry McCarthy
Stephen McPartland
Stephen Metcalfe
Rt Hon Ed Miliband
Carol Monaghan
David Morris
Chi Onwurah
Chris Philp
Jonathan Reynolds
Alok Sharma
Alec Shelbrooke
Jeff Smith
Karin Smyth
Jo Stevens
Graham Stringer
Alison Thewliss
Stephen Timms
Chris Wakeford
Ben Wallace
Matt Warman
Hywel Williams

Hereditary Peers

Earl of Cranbrook
Viscount Weir

Honorary Members

The Committee may appoint honorary members who by virtue of their standing or their office may appropriately engage in the Committee's activities.

The President, The Royal Society (Sir Adrian Smith)

The President, The Royal Academy of Engineering (Sir Jim McDonald)

Chief Scientific Advisors:

Government Chief Scientific Adviser
Department for Business and Trade
Department for Culture, Media and Sport
Department for Education

Professor Dame Angela McLean
Professor Julia Sutcliffe
Professor Tom Crick
Professor Russell Viner

Department for Energy, Security and Net Zero	Professor Paul Monks
Department for Environment, Food and Rural Affairs	Professor Gideon Henderson
Department for Levelling Up, Housing and Communities	Professor Richard Prager
Department for Science, Innovation and Technology	Vacant
Department for Transport	Professor Sarah Sharples
Department for Work and Pensions	Trevor Huddleston
Department of Health and Social Care	Professor Lucy Chappell
Food Standards Agency	Professor Robin May
Foreign, Commonwealth and Development Office	Professor Charlotte Watts
Health and Safety Executive	Professor Andrew Curran)
His Majesty's Treasury	Jess Glover
Home Office	Professor Jennifer Rubin
Met Office	Professor Stephen Belcher
Ministry of Defence	Professor Vernon Gibson (interim)
Ministry of Defence (Nuclear)	Professor Bill Lee
Ministry of Justice	Hugh Stickland (interim)
National Police Chiefs' Council	Professor Paul Taylor
National Security	Alex van Someren
Northern Ireland Executive	Rob Grundy (interim)
Scottish Government	Professor Julie Fitzpatrick
Welsh Government	Professor Jas Pal Badyal

Life Members

The Committee may also elect up to a maximum of twenty-five life members who, on retirement from Parliament or their institution, will qualify by having served the Committee either as officers or in some other capacity and given valuable service to it. It will be the responsibility of the Council to recommend such former members for this category.

Tam Dalyell
Dr Brian Iddon
Dr Tom Inch OBE
Professor Alan Malcolm
Richard Page
Ian Taylor MBE
Dr Desmond Turner
Dr Peter Warren CBE
Lord Broers

Individual Members

The Committee may also elect individual members who, on retirement from Parliament or their institution, wish to remain actively engaged in the Committee's activities. Individual membership shall have a term of five years, which shall be renewable. It will be the responsibility of the Council to recommend individuals for this category.

Professor John Allen	Sir Frederick Crawford
Dr Andrew Body	Dr John Dudeney OBE
Professor Derek Clements-Croome	Dr William Duncan

Philip Greenish CBE
Professor Michael Elves
Professor Ian Haines
Dr Bryan Hanley
Professor Izzet Kale
Dr Ashley Lenihan
Professor Graham Machin
Denise McLaverty

Professor Robert Pickard
Professor Dr Mini C. Rai
Professor Chris Rapley
Dr Elizabeth Rollinson
Dr Adrienn Tomor
Stephen Turner
Dr Anthony Whitehead
Dr Keith Winters

Scientific and Technical Organisations

An organisation or society shall be eligible for election to the Committee as a Scientific and Technical Organisation if the Council is satisfied that it is either:-

- (i) A National Institution or Association for qualifying scientists, engineers or technologists; or
- (ii) A Research Organisation which is not of a profit-making character, or part of an individual commercial or profit-making undertaking, and which is either directly engaged in natural or social science, pure or applied, or both providing funds for research to be conducted by other bodies and also taking a direct part in determination of the programmes of such research, or
- (iii) A body, the contribution of which to the scientific life of the country makes its membership, in the opinion of the Council, desirable in order to advance the agreed objects of the Committee.

In reaching a decision with regard to eligibility regard shall be had to the extent to which the branch of science, engineering or technology represented by the applicant organisation is already adequately represented on the Committee.

Note: No organisation which had been elected to membership by the Committee prior to January 1963, shall be rendered ineligible for membership under this sub-clause.

Alcis Holdings
AIRTO
The Alan Turing Institute
Applied Microbiology International
Association of Management
& Professional Staffs
AWE
The Babraham Institute
Biochemical Society
Biotechnology and Biological Sciences
Research Council
British Antarctic Survey
British Geological Survey
The British Institute of Radiology
British Measurement & Testing Assn
British Neuroscience Association
British Pharmacological Society
British Society for Animal Science
British Society for Antimicrobial
Chemotherapy
British Society for Immunology
British Society of Soil Science

Alison Hall MBE
Professor Richard Brook OBE FREng
Sir Adrian Smith
Propfessor Brendon Gilmore
Tony Harding, Marijke Smith
Colin Danson
Professor Wolf Reik
Kate Baille
Chief Executive
Professor Jane Francis
Dr Karen Hanghoj
Ms Carole Cross
Greg Ward
Professor Narender Ramnani
Anna Zecharia
Maggie Mitchell
Mrs Tracey Guise
Matthew Gibbard
Andrew Morris

British Specialist Nutrition Association Ltd	Declan O'Brien
CABI	Dr Richard Shaw
Cavendish Laboratory	The Secretary
Chartered Institute of Ergonomics and Human Factors	Ben Peachey
Chartered Institute of Patent Attorneys	Dr Julian M Potter, R P Jackson, Lee Davies
Clifton Scientific Trust Ltd	Dr Eric Albone MBE
The Daphne Jackson Trust	Dr Katie Perry, Tim Julier
Diamond Light Source Ltd	Laura Male
Economic and Social Research Council	Tony McEnery, Ms Susie Watts
Engineering & Physical Sciences Research Council	Roxy Squire, Ciara McLoone
Engineering Professors' Council	Johnny Rich
EngineeringUK	Mark Titterington
Foundation for Science and Technology	Gavin Costigan
Foundation for Science, Technology and Civilization	Dr Anne-Maria Brennan
Francis Crick Institute	Sir Paul Nurse
Fraunhofer UK Research Ltd	Simon Andrews, Professor Martin D Dawson
The Geological Society	Simon Thompson
The Ground Forum	Chairman
Hazards Forum	Luise Vassie
Institute of Acoustics	Allan Chesney
Institute of Biomedical Science	Nadine Rulliere
Institute of Corrosion	Dr Douglas Mills
Institute of Mathematics & Its Applications	Rosalind Azouzi
Institute of Measurement and Control	Steff Smith
Institute of Physics	Professor Paul Hardaker
Institute of Physics and Engineering in Medicine	Dr Robert Farley, Dr Richard Axell
Institution of Chemical Engineers	Jon Pritchard , Miles Seaman
Institution of Engineering and Technology	Paul Davies, FL Pitt, Robert Beahan, Anthony Kearns
Institute of Innovation and Knowledge Exchange	Professor Sa'ad Medhat
Institution of Mechanical Engineers	Dr Alice Bunn
Isaac Newton Institute for Mathematical Sciences	Deputy Director
John Innes Centre	James Piercy
Knowledge Transfer Network	Dr Alicia Greated
Linnean Society of London	Professor Anjali Goswami
London Mathematical Society	Professor Cathy Hobbs
Medical Research Council	Chief Executive
Met Office	Professor Stephen Belcher
Microbiology Society	Dr Peter Cotgreave
National Biofilms Innovation Centre (NBIC)	Administrator
National Oceanography Centre, Southampton	Professor Edward Hill
National Physical Laboratory	Dr Peter Thomson, Professor John Pethica, Alex Connor
Natural Environment Research Council	Professor Duncan Wingham
Natural History Museum	Sir Michael Dixon, John Jackson

Nuffield Council on Bioethics	Hugh Whittall, Catherine Joynson
The Nutrition Society	Dr Mark Hollingsworth
The Physiological Society	Dariel Burdass, Andrew Mackenzie
Plymouth Marine Laboratory	Professor Icarus Allen
Quadram Institute Bioscience	Andrew Chapple
Radioactive Waste Management (Nuclear Waste Services)	Professor Cherry Tweed, Neil Hyatt
Rosalind Franklin Institute	Laura Holland
Royal Academy of Engineering	Dr Hayaatun Sillem, Dr A M Neville CBE, Professor Michael Wood, Barry Haseltine MBE, Dr William 'Stan' Jones OBE
Royal Astronomical Society	Professor Emma Bunce, Philip Diamond, Dr Robert Massey
Royal Botanic Gardens, Kew	Professor Kathy Willis
Royal College of Pathologists	Michael Osborn, Janine Aldridge, Professor Diane Gaston
Royal College of Veterinary Surgeons	Dr Niall Connell
The Royal Horticultural Society	Alistair Griffiths
Royal Meteorological Society	Liz Bentley
The Royal Society	Sir Adrian Smith, Dr Julie Maxton,
The Royal Society of Biology	Dr Mark Downs
The Royal Society of Chemistry	Dr Robert Parker, Matt Davies
The Royal Society of Edinburgh	Professor Sir John Ball
SCI Society of Chemical Industry	Sharon Todd, Dr David Bott
The Science Council	Helen Gordon
Science Made Simple Ltd	Wendy Sadler MBE
Science & Technology Facilities Council	Ms Natalie Bealing
Society for Underwater Technology	Dr Cheryl Burgess
Society of Cosmetic Scientists	The President
Society of Dyers and Colourists	Dr Graham Clayton
Society for Radiological Protection	President
STEM Learning	Alice Coates
UK Health Security Agency	Professor Virginia Murray
UKRI	Roxy Squire
Universities Federation for Animal Welfare	Chief Executive
Warwick Manufacturing Group	Hopi Sen
The Worshipful Company of Engineers	Colonel D J L Swann CBE

Commercial Members

The Council may also elect to the Committee up to a maximum of 100 Commercial Members, such maximum being subject to modification at any subsequent Annual General Meeting. Such members shall be Companies registered in the UK or UK nationalised Undertakings or organisations representing a sector of industry. In electing a Commercial Member, the Council shall have regard to the desirability of ensuring that the membership as a whole is representative of as wide a range as possible of activities involving Science, Engineering and Technology. In reaching a decision as to eligibility regard shall be had to the extent to which the applicant is engaged in scientific, engineering or technological research.

Abbeyvet Export LLP	Dr Iain MacKellar
AstraZeneca PLC	Hillary Layard-Liesching
British In Vitro Diagnostics Association	Helen Dent

The Cosmetic, Toiletry and Perfumery
Association Ltd
David Dent Associates
Geomatrix Earth Science Ltd
LGC Ltd
R S Clare & Co Ltd
Varley Engineering Limited

Dr Emma Meredith
Professor David Dent
Tom Nicols
Dr Derek Craston, Tim Robinson
Roy Coldwell, Ian Meadows
David Slater

University Members

Universities of the UK, Institutions in Scotland and Northern Ireland equivalent to schools and colleges of individual universities where appropriate shall be eligible for election by the Council. In reaching a decision as to eligibility regard shall be had to the extent to which the applicant is engaged in scientific, engineering or technological research.

Anglia Ruskin University	Professor Roderick Watkins, Professor Eamon Strain
University of Bangor	Professor Ian Davies
University of Bath	Professor Jonathan Dawes, Dr Andrew Weyman
University of Bedfordshire	Professor Jan Domin
University of Birmingham	Professor Marike Taylor
University of Bradford	Professor John Bridgeman
Brunel University	Professor Paul Hellewell
University of Buckingham	Professor James Tooley
Cardiff University	Professor Rudolf Allemann
Cranfield University	Professor Karen Holford CBE, Professor Kathryn Mitchell
University of Derby	Dr Karen Petrie
University of Dundee	Neil Heckels, Lisa Hodgson Executive Dean of Science
University of Durham	Professor Verity Brown
University of East Anglia	Professor Peter Mathieson
University of East London	Professor Gary R Hutchison
University of Edinburgh	Dr Robert Singh, Paul Jackson
Edinburgh Napier University	Professor Lisa Roberts Vice-Chancellor
University of Essex	Professor Dawn Arnold
University of Exeter	Professor Pilar Pousad-Solino Provost, College Secretary, Professor Paul French
University of Greenwich	Professor Richard Trembath, Dr Sarah Markham, Dr Richard Siow
Harper Adams University	Professor Martin A Bristow
University of Hull	Professor Kurt Langfield
Imperial College London	Professor Wiebe van der Hoek
Kings College London	Professor Andrew Foulkes
University of Leicester	Professor Deborah Johnston
University of Leeds	Professor Chris Linton
University of Liverpool	Professor Sean Wellington Vice-Chancellor
Liverpool Hope University	
London South Bank University	
University of Loughborough	
Middlesex University	
Newcastle University	

University of Northampton
University of Northumbria
The Open University
Oxford Brookes University
University of Portsmouth
University of Plymouth
Queen Mary, University of London
University of Reading
University of Roehampton
Royal Holloway, University of London
University of Andrews
University of Southampton
University of Strathclyde
University of Sunderland
University of Surrey
Teesside University
University College London

Ulster University
University of Warwick
University of West London
University of Westminster
University of the West of Scotland
University of Wolverhampton
University of York

Professor Anne-Marie Kilday
Professor Andy Long
Pro-Vice-Chancellor (Research and Enterprise)
Professor Alistair Fitt
Sarah Duckering
Professor Jerry Roberts
Professor Sir Colin Berry
Dr Guy Hembury
Professor Jean-Noel Ezingeard
Vice-Chancellor
Principal
Gareth Giles
Professor Sir Jim McDonald
Professor Jon Timmis
Professor Michael Kearney
Professor Simon Hodgson
Dr Michael Spence,
Professor Francesca Medda, Sarah Chaytor
Tim Brundle
Pro Vice-Chancellor
Professor Peter John CBE
Vice-Chancellor
Professor Milan Radosavljevic
Professor Geoff Layer
Joan Concannon

Sixth Form College

The National Mathematics and Science
College

Dr Andy Kemp. Jocelyn D'Arcy

Associate Members

The Council may elect to the Committee as Associate Members Bodies which, although not engaged in scientific research, represent the interests of those who are significantly affected by science and which, in the opinion of the Council, are in a position to contribute positively to the work of the Committee.

Penningtons Manches Cooper LLP
The UK Innovation Science Seed Fund LLP

Christopher Shelley
Dr Andrew Muir

Parliamentary and Scientific Committee - APPG

Minutes of the Annual General Meeting

Held on Tuesday 25 April 2023 at 5:00pm

PRESENT Stephen Metcalfe MP (Chair), Viscount Stansgate, Baroness Julia Brown of Cambridge, Lord Trees, Chris Green MP, Colin Danson, Doris-Ann Williams, Guy Hembury, Michael Elves, Oliver Bennett, Tom Nicols, William Duncan, Peter Thorpe, Ion Secula, Benjamin Guedj, Cheryl Burgess, Isabel Spence, Karen Smith, Julia Parker, Daryl Howe, Ian Lucas, Meghna Ravishankar, Peter Anson, Rosalind Azouzi, Alan Peacock, Ryan Mercer, Barry Heseltine, Simon Waldron, John Slater, Anthony Kearns, Adrienn Tomar, Tim Julier, Seb Janner, Matt Rooney, Laura Kent, Jeff Llewellyn, Caroline Pritchard.

Leigh Jeffes, David Youdan and Karen Smith were in attendance.

1 BUSINESS FROM THE CHAIR

The Chair reminded Attendees that in accordance with the rules governing the Annual General Meetings of All-Party Parliamentary Groups only Parliamentarians present may vote. However, all Attendees would be able to make statements and ask questions.

The Chair welcomed Baroness Brown to the meeting and thanked her in advance for the talk that she would be presenting to attendees at the close of the meeting. The Chair commented that he was pleased that the Parliamentary and Scientific Committee had had a productive year. He appreciated that meetings had returned to a face-to-face format within Parliament. He commented that an excellent programme of talks and meetings had been held in 2022 and continued into 2023. Indeed, the evening before on the 24 April an extremely good session had been presented by the National Physical Laboratory on the topic of 'Time'.

2. MINUTES of the Annual General Meeting held on Tuesday 15 March 2022.

The minutes, which had been circulated, were agreed and signed.

3. ELECTION OF OFFICERS

3.1 Election of President

The election of Viscount Stansgate as President was proposed by the Chair, seconded by Chris Green MP and agreed nem-con by the Members of Parliament attending the meeting.

3.2 Election of Chairman, Vice Chairman, Hon. Secretary, Hon. Treasurer and Vice-Presidents

The election of Stephen Metcalfe MP as Chair was proposed by Viscount Stansgate, seconded by Chris Green MP and agreed nem-con by the Members of Parliament attending the meeting.

The election of the following Officers was proposed by the Chair, seconded by Chris Green MP and agreed nem-com by the Members of Parliament attending the meeting:

Deputy Chairman

Ms Chi Onwurah MP

Hon Treasurer

Lord Willis of Knaresborough

Hon Secretary
Ms Carol Monaghan MP

Vice-Presidents
Mr Atti Emecz
Professor Ian Haines
Dr Guy Hembury
Ms Doris-Ann Williams MBE
Professor Francesca Medda
Sir Peter Bottomley
Chris Green MP

3.3 Election of Council and Advisory Panel members for 2023/2024

The election the following members to the Council was proposed by the Chair, seconded by Chris Green MP and agreed nem-com by the Members of Parliament attending the meeting:

Sir Peter Bottomley
Colin Danson
Professor Michael Elves
Mr Atti Emecz
Chris Green MP
Professor Ian Haines
Dr Guy Hembury
Mr Paul Jackson
John Lowe BEM
Andrew Mackenzie
Professor Francesca Medda
Mr Stephen Metcalfe MP
Ms Carol Monaghan MP
Ms Chi Onwurah MP
Professor Narender Ramnani
Dr Elizabeth Rollinson
Ms Doris-Ann Williams MBE
Lord Willis of Knaresborough

The election of the following members to the Advisory Panel was proposed by the Chair, seconded by Chris Green MP and agreed nem-com by the Members of Parliament attending the meeting:

Daniel Callaghan

4. TO RECEIVE THE ANNUAL REPORT 2022

The Annual Report for 2022 had been circulated. The Chair proposed that this be adopted, this was seconded by Viscount Stansgate and agreed nem-com by the Members of Parliament attending the meeting.

Matt Rooney requested that the correct name of 'The Institution of Mechanical Engineers' should be used in the Annual Report and in the meeting papers.

5.1 To receive the Financial Statement for 2022

The Treasurer reported on the Finance Report that had been circulated. The year-end result showed a surplus of £19k.

The Chair requested that the accounts for 2022 be adopted, this was proposed by Chris Green MP and seconded by Baroness Brown and agreed nem-com by the Members of Parliament attending the meeting.

5.2 Financial Estimates for 2023

The Treasurer advised that the 2023 budget had been based on the same level of membership subscriptions as had been achieved in 2022. She also noted that the membership invoices included a 3% increase from the 2022 figures. As a result the budget showed a proposed year end surplus of £13k.

The Chair proposed that the 2022 Budget be adopted; this was seconded by Chris Green MP and agreed nem-con by the Members of Parliament attending the meeting.

5.3 To ratify Subscriptions for 2023

The membership rates for 2023 had been circulated. Council had proposed a 3% increase for the year.

The Chair requested that the 2023 membership subscription rates be ratified. This was proposed by Viscount Stansgate and seconded by Baroness Brown and agreed nem-com by the Members of Parliament attending the meeting.

6 REPORT FROM THE COUNCIL

The report, covering resourcing the work of the Committee, Membership, the Programme, Science in Parliament, STEM for Britain and Social Media had been circulated.

Council had met four times during 2022.

The Chair advised that thanks to Leigh Jeffes and the P&SC Team there had been an increase in membership in the past year, Science in Parliament was now distributed to both Houses, there had been an excellent programme of events and STEM for Britain was an on-going success.

Leigh Jeffes thanked Lord Trees and William Duncan for their support with the P&SC journal, Science in Parliament, and expressed his thanks to the many excellent authors who contributed through the year.

The Chair proposed that the Report be approved; this was seconded by Viscount Stansgate and agreed nem-con by the Members of Parliament attending the meeting.

7. ANY OTHER BUSINESS

In response to a question, Karen Smith advised that membership fees can be paid by bankcard, and those requesting to make a payment in this way should email their request to her.

The meeting ended at 5:25 pm

Addresses and Discussions 2023

See www.scienceinparliament.org.uk for further information

16 January 2023 – Energy – Sponsored by UKRI.

There are few subjects more topical than energy security. The Committee heard from four expert speakers about the UK's position with regards to energy security:

Professor Jim Watson, Professor of Energy Policy and Director at UCL's Institute for Sustainable Resources,

Dr Rebecca Ford, Senior Lecturer and Chancellor's Fellow at the University of Strathclyde's Centre for Energy Policy,

Professor John Barrett OBE, Professor of Energy and Climate Policy in the School of Earth and Environment at the University of Leeds,

Dr Lucy Martin, Deputy Director of Cross-Council Programmes with the Engineering and Physical Sciences Research Council at UKRI.

7 February - Digital Skills - Sponsored by IET.

Technology is progressing at a faster rate than ever before and our society needs to keep up with it. The four expert speakers discussed the need to improve digital skills in the UK workforce:

Dr Graham Herries, Engineering Director, IET,

Yvonne Baker OBE, Chief Executive of STEM Learning,

Professor Rab Scott, Head of Digital at University of Sheffield's Advanced Manufacturing Research Centre

Professor Tim Dafforn, Professor of Biotechnology at the University of Birmingham.

21 February 2023 - Synthetic Biology: The Opportunity for the UK to be a Leader in Synbio for Human Health. - Sponsored by bit.bio

Synthetic biology (synbio) will provide the next generation of advanced cures and therapies. The four experts spoke about this exciting field and how the UK can be a synbio pioneer:

Fiona Mischel, Director of International Outreach at SynBioBeta,

Dr Sara Holland, Patent Attorney at Potter Clarkson,

Dr Joe Healey, Co-founder and CEO of NanoSyrinx,

Dr Mark Kotter, Founder and CEO of bit.bio.

6 March 2023 – STEM for Britain

STEM for Britain is a poster competition to showcase scientific research carried out by early career researchers across 5 disciplines of STEM: Chemistry, Biological and Biomedical Sciences, Physics, Mathematics and Engineering and to give members of both Houses of Parliament an insight into the outstanding research work being undertaken in UK universities by early-career researchers.

24 April - Measurement of Time – Sponsored by NPL.

The reliable measurement of time is essential for the effective functioning of a modern economy, including defence, navigation and finance. The expert panel of NPL scientists explained modern timekeeping, how the time scale is established and why it's important – illustrated by specific relevant examples focused on the need of reliable time keeping for global financial markets and using time-measurement to provide early warning for Tsunamis:

Professor Helen Margolis MBE,
Dr Leon Lobo,
Dr Giuseppe Marra.

22 May - The Deep Tech SME Ecosystem - Supporting research-intensive SMEs for growth. - Sponsored by the Royal Society of Chemistry

Global manufacturing is valued at over £14tn, of which £240bn comes from the UK. It has developed complex, global supply chains optimised for cost and convenience. But over the last few decades other drivers have assumed greater importance – minimising emissions of greenhouse gases and conservation of raw materials! This is making the evaluation of new materials, new processes and minimisation of waste priority goals for manufacturing industries around the world, and these changes are reorganising the global distribution of manufacturing.

These factors play out differently in different end use sectors – what works in the automotive industry is different from the packaging industry, the construction industry, the aerospace industry, the food industry, or the home and personal care industry. What they all share is the need for better information up and down the supply chains, investment in new production equipment and regulation that drives the right changes.

The panel of expert speakers spoke about the progress towards sustainability and what is needed to be able to proceed at pace:

Tanya Sheridan, Head of Policy and Evidence, Royal Society of Chemistry,
Professor Martin Freer, Vice-President for Science and Innovation, Institute of Physics
Dr Alexander Reip, Chief Technical Officer, Oxford nanoSystems,
Dr Joe Marshall, Chief Executive, National Centre for Universities and Business..

12 June - Making things sustainably – What is sustainable making?- Sponsored by the Warwick Manufacturing Group.

The resources of this planet are finite. Thus, with an increasing global population, demand will increase and will become unsustainable. So, instead of a linear production model of make, sell, use and dispose, we need a circular model of make, sell, use, re-use, repair, re-purpose and eventually recycle. In order to achieve this, we will need long term sustainability strategies – both nationally and globally – and this is the challenge.

The expert panel who discussed this were:

Professor Claire Davis, Warwick Manufacturing Group,
Professor Mark Jolly, Cranfield University,
Professor Jeremy Frey, University of Southampton,
Nick Pearson, Rolls Royce.

4 July - **Annual Lunch** – held in the House of Lords

Guest Speaker – Lord Krebs

10 July - **STEM for Britain Gold Medal Winners Meeting and Dinner.**

As part of the Parliamentary and Scientific Committee's (P&SC) annual STEM for Britain event, The Westminster Medal is awarded to the overall winner and is decided from the gold winners of each discipline. The medal is awarded in memory of the late Dr Eric Wharton, who did so much to establish SET for Britain as a regular event in the Parliamentary calendar.

18 September - **Digital Health for the 21st Century** - Sponsored by Northumbria University and Newcastle University.

Digital technology provides innovative opportunities to reduce health inequalities and support the most marginalised in society. The three expert speakers about the innovative ways new technology is being used.

Professor Matthew Kiernan, Professor of Mental Health and Veteran Studies at Northumbria University,
Dr Gemma Wilson-Menzfeld, Associate Professor of Ageing and Digital Health Psychologist at Northumbria University,
,Prof. Abi Durrant, Professor of Interaction Design at Newcastle University.

16 October – **Changing how we see life** - Sponsored by the Rosalind Franklin Institute.

Artificial Intelligence (AI) has progressed at an unprecedented pace in recent years. These developments have resulted in exciting opportunities to improve our understanding and treatment of various diseases.

The three expert speakers were:

Professor James Naismith , The Rosalind Franklin Institute
Professor Sheena Radford, University of Leeds
Dr Michalis Papadakis, CoFounder & CEO of Brainomix.

20 November -- **The Impact of Extreme Heat on Vulnerable Populations** - Sponsored by the Physiological Society.

UK temperatures have seen a dramatic increase since 2010, with summer 2023 and summer 2022 being the first and second hottest summers on record respectively. The six expert speakers spoke about the dramatic effect this could have on our health:

Prof. Mike Tipton, Professor of Human and Applied Physiology,
Dr Cat Pinho-Gomes from Institute of Health informatics at UCL,
Carl Petrokofsky, UK Health Security Agency,
Prof. Elizabeth Robinson, Director of and Head of Local Climate Action,
Dr Candice the Grantham Research Institute on Climate Change at LSE,
Baroness Dr Fiona Twycross

Christmas Parliamentary Science Reception Wednesday 13th December

The Reception was co-sponsored by Stephen Metcalfe MP, The Viscount Stansgate, Chi Onwurah MP, Carol Monaghan MP and Layla Moran MP and organised by the Parliamentary & Scientific Committee on behalf of, and in cooperation with, the Science, Technology, Engineering and Mathematics (STEM) community.

The scientific societies supporting this event were: The Royal Society, Royal Society of Biology, Nutrition Society, The Physiological Society, the Council for the Mathematical Sciences, Royal Society of Chemistry, Institute of Physics, the Institution of Engineering Technology, Royal Academy of Engineering, Biochemical Society, and Applied Microbiology International.

The Parliamentary and Scientific Committee is an All-Party Parliamentary Group funded by Membership – for details go to <https://www.scienceinparliament.org.uk/publications/annual-reports/>
Registered address: 2nd Floor, 201 Great Portland St, London W1W 5AB

Chair and Registered Contact – Stephen Metcalfe MP, email: Stephen.metcalfe.mp@parliament.uk