

## **MAIN PANEL B**

**Sub-panel 7: Earth Systems and Environmental Sciences**

**Sub-panel 8: Chemistry**

**Sub-panel 9: Physics**

**Sub-panel 10: Mathematical Sciences**

**Sub-panel 11: Computer Science and Informatics**

**Sub-panel 12: Engineering**

Where required, specialist advisers have been appointed to the REF sub-panels to provide advice to the REF sub-panels on outputs in languages other than English, and / or English-language outputs in specialist areas, that the panel is otherwise unable to assess. This may include outputs containing a substantial amount of code, notation or technical terminology analogous to another language.

In addition to these appointments, specialist advisers will be appointed for the assessment of classified case studies and are not included in the list of appointments.

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**Main Panel B**


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**Chair**


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Professor David Price	University College London
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**Deputy Chair**


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Professor Dame Muffy Calder*	University of Glasgow
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**Members**


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Professor Mike Ashfold	University of Bristol
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Professor John Clarkson	University of Cambridge
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Dr Peter Costigan	Independent
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Professor Paula Eerola	University of Helsinki
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Professor Alison Etheridge	University of Oxford
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Dr Giles Graham	Defence Science Technology Laboratory	Until Apr 2021
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Professor Michael Hinton	High Value Manufacturing Catapult
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Professor Andrew Holmes	University of Melbourne
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Professor Raymond Jeanloz	University of California, Berkeley
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Mr Ben Johnson	Graphic Science Ltd
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Professor Hilary Lappin-Scott	Cardiff University
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Professor John Ludden	Heriot-Watt University
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Professor Miles Padgett	University of Glasgow
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Professor Simon Redfern	Nanyang Technological University, Singapore
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Professor Tom Rodden	University of Nottingham
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Professor Alexander Wolf	University of California, Santa Cruz
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**Observers**


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Professor Grahame Blair	Science and Technology Facilities Council
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Dr Andrew Bourne	Engineering and Physical Sciences Research Council
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Mrs Fiona Goff	Natural Environment Research Council
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**Panel Advisers – Assessment Phase**


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Mrs Gillian Fairbairn	University of Surrey
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Dr Jane Hallett	University of Bristol
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Mrs Valerie Wooff	Independent
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*\* denotes interdisciplinary member on a main panel, and interdisciplinary adviser on a sub-panel*

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## Sub-panel 7: Earth Systems and Environmental Sciences

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### Chair

Professor Hilary Lappin-Scott	Cardiff University
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### Deputy Chair

Professor Mark Hodson	University of York
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### Members

Professor Phillip Donoghue	University of Bristol
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Professor Joanna Haigh	Imperial College London
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Dr Cathy Hollis	University of Manchester
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Professor Xavier Lambin	University of Aberdeen
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Professor Caroline Lear	Cardiff University
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Professor Angus MacKenzie	University of Birmingham
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Professor Christine Maggs*	Joint Nature Conservation Committee
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Professor David Manning	Newcastle University
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Professor David Marshall	University of Oxford
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Professor Tim Minshull	University of Southampton
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Professor Kathryn Monk	Natural Resources Wales
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Professor Caroline Peacock	University of Leeds
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Professor John Plane	University of Leeds
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Professor Jeanette Rotchell	University of Hull
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Professor Ranjeet Sokhi	University of Hertfordshire	From Dec 2020
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Professor Kathy Whaler	University of Edinburgh
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Professor Richard Williams	University of Liverpool
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### Assessors

Professor Maggie Cusack*	University of Stirling	Changed role Dec 2020 Resigned Jan 2021
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Dr Richard Derwent	Independent
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Professor Carolyn Roberts	Independent
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Professor Martin Todd	University of Sussex	Joint with SP14
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### Secretariat – Assessment Phase

Mrs Gillian Fairbairn	University of Surrey
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Dr Anne Mortimer	University of Oxford
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\* denotes interdisciplinary member on a main panel, and interdisciplinary adviser on a sub-panel

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**Sub-panel 8: Chemistry**


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**Chair**


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Professor Mike Ashfold	University of Bristol
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**Deputy Chair**


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Professor Chris Hunter	University of Cambridge
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**Members**


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Professor Phil Bartlett	University of Southampton
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Professor Roslyn Bill	Aston University
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Professor Andy Cooper	University of Liverpool
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Professor Matthew Davidson*	University of Bath
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Professor Sabine Flitsch*	University of Manchester
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Professor Jonathan Hirst	University of Nottingham
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Dr Catherine Howsham	Independent
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Professor Alistair Lewis	University of York
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Professor Guy Lloyd-Jones	University of Edinburgh
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Professor Nicholas Long	Imperial College London
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Professor Adam Nelson	University of Leeds
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Professor Rachel O'Reilly	University of Birmingham
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Professor Sally Price	University College London
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Professor Peter Robertson	Queen's University Belfast
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**Assessors**


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Dr Dave Allen	GlaxoSmithKline
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Dr Matilda Bingham	Concept Life Sciences
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Dr Melissa Hanna-Brown	Pfizer Ltd.
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Professor Roy Sandbach	Newcastle University
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Dr Paul Jenkins	Unilever plc
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Dr Damian Kelly	Croda
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**Secretariat – Assessment Phase**


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Mrs Shelly Anne Stringer	University of Bournemouth
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Mrs Valerie Wooff	Independent
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\* denotes interdisciplinary member on a main panel, and interdisciplinary adviser on a sub-panel

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**Sub-panel 9: Physics**


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**Chair**


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Professor Miles Padgett	University of Glasgow
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**Deputy Chair**


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Professor Monica Grady	The Open University
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**Members**


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Professor Martin Barstow	University of Leicester
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Professor Philip Burrows	University of Oxford
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Professor Dave Charlton	University of Birmingham
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Professor Richard Dendy	UKAEA and University of Warwick
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Professor Wendy Flavell*	University of Manchester
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Professor Sean Freeman	University of Manchester
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Professor Mark Fromhold	University of Nottingham
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Professor Brad Gibson	University of Hull
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Professor Helen Gleeson*	University of Leeds
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Professor Joel Goldstein	University of Bristol	From Apr 2021
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Professor Matt Griffin	Cardiff University
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Professor Tom McLeish	University of York
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Professor Mervyn Miles	University of Bristol
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Professor Stefano Moretti	University of Southampton NEXT Institute
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Professor Alex Murphy	University of Edinburgh
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Professor Ferruccio Renzoni	University College London
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Mr Peter Saraga	Independent
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Dr Frances Saunders	Independent
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Professor Tara Shears	University of Liverpool
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Professor Mairi Sakellariadou	King's College London	From Apr 2021
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Professor Ian Smail	University of Durham
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Professor Charles Smith	University of Cambridge	Until Dec 2020
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Professor Sarah Thompson	University of York	From Apr 2021
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Professor Alison Walker	University of Bath
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**Assessors**


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Professor John Girkin	Durham University	From Jun 2021
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## Main Panel B

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Professor William Spence	Queen Mary University of London	Joint with SP10
Dr Martin Tillin	Sula Innovation	
Professor Colin Whitehouse	InnovationsST Consultancy	
<b>Secretariat – Assessment Phase</b>		
Dr Jane Hallett	University of Bristol	
Mrs Hannah Payne	Aberystwyth University	

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*\* denotes interdisciplinary member on a main panel, and interdisciplinary adviser on a sub-panel*

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**Sub-panel 10: Mathematical Sciences**


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**Chair**


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Professor Alison Etheridge	University of Oxford
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**Deputy Chair**


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Professor John Greenlees	University of Warwick
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**Members**


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Professor Simon Blackburn	Royal Holloway, University of London
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Professor Tara Brendle	University of Glasgow
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Professor Mark Chaplain	University of St Andrews
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Professor Paul Fearnhead	Lancaster University
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Professor Emmanuil Georgoulis	University of Leicester National Technical University of Athens
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Professor Martin Hairer	Imperial College London
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Professor Paul Harper	Cardiff University
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Professor Desmond Higham	University of Edinburgh
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Professor Jeanine Houwing-Duistermaat*	University of Leeds
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Professor Oliver Jensen	University of Manchester
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Dr Philip Jonathan	Shell
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Professor John King*	University of Nottingham
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Professor Neil Lambert	King's College London
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Professor Adam Letchford	Lancaster University
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Professor Aleksandar Mijatovic	University of Warwick
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Professor Guy Nason	Imperial College London
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Professor Beatrice Pelloni	Heriot-Watt University
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Professor Richard Pinch	The Institute of Mathematics and its Applications	Changed role Feb 2021
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Professor Eugene Shagorodsky	King's College London
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Professor William Spence	Queen Mary University of London	Joint with SP9
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Professor Fiona Steele	London School of Economics and Political Science
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Professor Marika Taylor	University of Southampton
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Professor Michael Wemyss	University of Glasgow
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Professor Grae Worster	University of Cambridge
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## Main Panel B

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Professor Sarah Zerbes	University College London
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**Assessors**

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Professor David Calderbank	University of Bath
Professor Simon Chandler-Wilde	University of Reading
Dr Piotr Chmielowski	Fulcrum Asset Management
Dr Jonathan Fraser	University of St Andrews
Professor Andrew Grieve	UCB Celltech
Mr Scott Heald	Public Health Scotland
Dr Joanna Jordan	Independent
Professor Jonathan Pila	University of Oxford
Dr David Pirie	Scottish Environment Protection Agency
Dr Heather Tewkesbury	Smith Institute

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**Specialist Advisers**

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Professor Patrick Dorey	Durham University	From Jan 2021
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**Secretariat – Assessment Phase**

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Mrs Shelly Anne Stringer	Bournemouth University
Mrs Valerie Wooff	Independent

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*\* denotes interdisciplinary member on a main panel, and interdisciplinary adviser on a sub-panel*



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**Sub-panel 11: Computer Science and Informatics**


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**Chair**


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Professor Tom Rodden	University of Nottingham
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**Deputy Chair**


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Professor Chris Taylor	University of Manchester
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**Members**


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Professor Katie Atkinson	University of Liverpool
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Professor Ann Blandford*	University College London
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Professor Steve Brewster	University of Glasgow	From Mar 2021
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Professor Ian Craddock*	University of Bristol
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Professor Maribel Fernandez	King's College London
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Professor Alex Frangi*	University of Leeds
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Professor Wendy Hall*	University of Southampton
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Professor Edwin Hancock	University of York
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Professor Emma Hart	Edinburgh Napier University
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Professor David Hogg	University of Leeds
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Professor David Hutchison	Lancaster University
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Professor Marta Kwiatkowska	University of Oxford
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Professor Neil Lawrence	University of Cambridge
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Professor Alessio Lomuscio	Imperial College London	From Mar 2021
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Professor Derek McAuley	University of Nottingham	From Mar 2021
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Professor Donald Sannella	University of Edinburgh
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Professor Qiang Shen	Aberystwyth University
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Professor Iain Stewart	Durham University	From Mar 2021
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Professor Peter Triantafillou	University of Warwick
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Professor John Tucker	Swansea University
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Professor David Walker	Cardiff University
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Professor Hui Wang	Ulster University	From Mar 2021
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Professor James Woodcock	University of York	From Mar 2021
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Professor Xujiang Ye	University of Lincoln
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## Main Panel B

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**Assessors**

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Mr Mike Burke	Independent
Mr Jonathan Legh-Smith	BT
Mr Ian Ritchie	Tern plc
Dr Robert Sansom	Independent
Dr Veronica Bowman	Defence Science and Technology Laboratory

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**Secretariat – Assessment Phase**

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Dr Jane Hallett	University of Bristol
Mrs Hannah Payne	Aberystwyth University

*\* denotes interdisciplinary member on a main panel, and interdisciplinary adviser on a sub-panel*

**Sub-panel 12: Engineering****Chair**

Professor John Clarkson	University of Cambridge
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**Deputy Chair**

Professor Jonathan Cooper*	University of Glasgow
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Professor Eileen Harkin-Jones	Ulster University
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**Members**

Professor Bashir Al-Hashimi	King's College London
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Professor Adisa Azapagic	University of Manchester
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Professor Chris Baber	University of Birmingham
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Professor Muhammed Basheer	University of Leeds
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Professor Trevor Benson	University of Nottingham
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Professor Serena Best	University of Cambridge
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Professor Chris Bingham	University of Lincoln
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Professor Javier Bonet	University of Greenwich
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Professor Abigail Bristow*	University of Surrey
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Professor David Butler	University of Exeter
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Professor Christopher Chatwin*	University of Sussex
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Professor Paul Conway	Loughborough University
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Professor Jonathan Cooper	University of Bristol
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Professor Kevin Cullinane*	University of Gothenburg
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Professor Alicia El Haj	Keele University
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Professor Peter Fryer	University of Birmingham
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Professor Oubay Hassan	Swansea University
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Professor Catherine Holt	Cardiff University
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Dr Andrew Hosty	Independent
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Professor Tim Ibell	University of Bath
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Professor Visakan Kadiramanathan	University of Sheffield
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Dr Dan Kells	Independent
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Professor Patrick Keogh	University of Bath
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Professor Alison McKay	University of Leeds
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Professor Alison Noble	University of Oxford
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## Main Panel B

Professor Raffaella Ocone	Heriot-Watt University	
Professor William Powrie	University of Southampton	
Professor Mary Ryan	Imperial College London	
Professor Ravi Silva	University of Surrey	
Professor Sarah Spurgeon*	University College London	
Professor Jin Wang	Liverpool John Moores University	
Professor Hua Zhao	Brunel University London	
<b>Assessors</b>		
Professor Abir Al-Tabbaa	University of Cambridge	
Professor Craig Banks	Manchester Metropolitan University	
Dr Alan Begg	Claremont Technology Ltd	
Professor John Carlton	City, University of London	
Professor Joan Cordiner	University of Sheffield	
Professor Mohan Edirisinghe	University College London	
Professor Bridget Eickhoff	Rail Safety and Standards Board	
Professor Shaun Fitzgerald	The Royal Institution	
Miss Cherie Gardiner	Invest NI	
Professor Colin Garner	Loughborough University	
Professor Elena Gaura	Coventry University	
Mr Ebby Ghavam-Shahidi	Hive Composites Ltd	Until Jan 2021
Professor Sarah Hainsworth	Aston University	
Dr Steven Harris	BAE Systems	
Professor David Hawkes	University College London	
Professor Dame Jane Jiang	University of Huddersfield	
Professor Michael Leschziner	Imperial College London	
Professor Alan Marshall	University of Liverpool	
Dr Cathy McClay	Sembcorp Energy Ltd	
Professor Bruno Merk	University of Liverpool	Until Mar 2021
Professor Ken Morgan	Swansea University	
Professor Toby Mottram	University of Warwick	
Professor Robert Nicholls	University of East Anglia	

## Main Panel B

Professor Washington Ochieng	Imperial College London	
Professor Raymond Oliver	Independent	From Jan 2021
Professor Crina Oltean-Dumbrava	University of Bradford	
Professor John Parkin	University of the West of England	
Dr Lesley Paterson	University of Oxford	Joint with SP5
Professor Mark Price	Queen's University Belfast	
Dr Ian Ritchey	Independent	
Professor Bill Sampson	University of Manchester	
Professor Mark Sandler	Queen Mary University of London	From Dec 2020
Dr Sina Sareh	Royal College of Art	
Professor Rossi Setchi	Cardiff University	
Dr Sanjay Sharma	University of Plymouth	
Professor Philip Taylor	University of Bristol	
Dr Kathryn Walsh	University College London	
Professor Yong Wang	University of Manchester	
Professor Marian Wiercigroch	University of Aberdeen	From Mar 2021
Dr Anthony Wraight	Ministry of Defence	
<b>Secretariat – Assessment Phase</b>		
Mrs Gillian Fairbairn	University of Surrey	
Mr David Jones	University of Sheffield	

\* denotes interdisciplinary member on a main panel, and interdisciplinary adviser on a sub-panel