

The logo for Huxley Summit is a dark blue silhouette of a mountain peak with a jagged top edge. Inside this silhouette, the words "HUXLEY" and "SUMMIT" are stacked vertically in a white, bold, sans-serif font. The letters of the text have a fine, vertical hatched pattern.

# HUXLEY SUMMIT

## Shifting perceptions?

The challenges and opportunities  
of the Fourth Industrial Revolution

**28 November 2018**

Today, the Huxley Summit will bring together leaders from business, policy-making and science to discuss how we can ensure products of innovation are fit for purpose as societal, environmental and cultural expectations change and shift. How does society overcome the challenges of the 'Fourth Industrial Revolution' and a potential breakdown of trust in technology from the public? There will be provocations and debates, plus time for networking and focussed discussions about how we navigate the future.

Page 3	Agenda
Page 4	Welcome
Page 6	Public opinion is powerful and unpredictable
Page 10	Trust matters
Page 12	Huxley Summit 2018: Half-time review
Page 14	Speakers
Page 19	Sponsors and partners
Page 21	Advisory board
Page 22	Attendees

A film crew and photographer will be present at the Huxley Summit. If you do not wish to be filmed or photographed, please speak to a member of the team at the British Science Association.



We encourage attendees to use Twitter during the Summit, and we recommend you use the hashtag **#HuxleySummit** to follow the conversation.

All content and information correct at the time of going to print. All materials used in the production of this programme are biodegradable.

## Agenda

- 11.00** Registration and networking
- 12.00** **Chapter 1: The changing tide of public perception**  
 Since the 1950s, plastic has been seen as a problem-solving wonder. However, the recent public and media reaction to single-use plastics following *Blue Planet II* has raised many questions for businesses, policy-makers and scientists. How do businesses create confidence and trust from consumers in products that could impact society and the environment? How do institutions manage this risk and learn from past decisions?  
*Speakers include: Liz Bonnin, Zoe Laughlin, Emma Howard Boyd, Rory Sutherland, Baroness Lucy Neville-Rolfe*
- 13.20** Roundtable discussions and lunch
- 14.50** **Chapter 2: Preparing for the future**  
**Part A: Short-term challenges vs. long-term risks**  
 How can leaders in boardrooms and government consider changing perceptions in different technical and cultural spheres to create responsible innovations? This panel will discuss how boards can balance long-term risks and impacts with short-term challenges.  
*Speakers include: Linda Yueh, Marisa Drew, David Bucknall*  
**Part B: Artificial perceptions of AI?**  
 Artificial intelligence is heralded by technologists, business leaders, and policy-makers as a wonder technology with the potential to solve global problems such as health, climate change, and inequality. How do regulators create an environment which both protects the consumer and is pro-innovation? How do businesses create products which won't create a public backlash – either now or in the future? What is the role of the traditional and social media in facilitating public acceptance of new technologies?  
*Speakers include: Jim Al-Khalili, Harry Gaskell, Kriti Sharma, Jo Swinson MP, Michael Wignall*
- 16.20** Coffee and networking
- 17.00** **Chapter 3: How different perspectives shape public perception**  
 Genome editing has the potential to alter any DNA sequence, whether in a bacterium, plant, animal or human being. It has an almost limitless range of possible applications in living things and could change our current perceptions of what 'natural' is.  
 The technology has many socio-political, legal, and ethical implications. Globally, regulators and businesses are taking different approaches to gene editing technologies depending on their country's cultural and historical contexts. How will this influence the approach taken by the UK?  
*Speakers include: Sally Phillips, Alison Woollard, Lord David Willetts, Ultan McDermott, Yasmin Alibhai-Brown*
- 18.20** Drinks reception

# Welcome



**Rt Hon. the Lord David Willetts**  
Chair of the British Science Association

Welcome to our third Huxley Summit. The event has grown year-on-year and is firmly becoming a fixture in the annual thought leadership events calendar; a key moment for bringing business leaders, scientists, policy makers and opinion formers together.

Much of 2018 has been defined by the ongoing Brexit negotiations and the potential ramifications of the outcome of those discussions. It has caused, in certain quarters, a divergence of opinion – played out with enthusiasm in the media – between those in Westminster and Whitehall trying to navigate a path through, and businesses, universities and scientists who have been vocal in their concerns about Britain's future relationship with our European neighbours. What is not under dispute is the importance of science, technology and innovation to the country's future; and positioning the UK as a leader in areas such as environmental policy, AI, and genetic technologies. Thus, while our conversation today will inevitably include Brexit, the Summit seeks to stimulate a broader discussion and debate and will tackle topics that have the potential to change the relationship between citizens, businesses and nations.

Our 2018 theme focuses on public perceptions; what causes public opinion of science and technology to change,

why we should learn from the past to better prepare for the future, and how we can respond to risk and uncertainty. The public's perceptions are not fixed; they are influenced by wider societal issues impacting on public trust. Businesses, charities and the public sector can no longer take for granted the basic rules of engagement.

We will be examining what leaders in our boardrooms, our higher education institutions and in government can do to foster agile and responsible innovation that creates products and services that are fit for purpose as our societal, environmental and cultural expectations change and shift. The Summit brings together a diverse group of people with different areas of expertise and experience because we recognise that there is a need for a more interdisciplinary approach to addressing these issues.

We have convened an excellent range of speakers on three key topics of the moment. The input of our audience of leaders and influencers is just as important as the discussions that happen on stage, so the day includes lots of room for gathering your views.

I would like to thank our sponsors, partners and supporters. Thanks, of course, to you for attending. I hope you find it a stimulating event.

Chi Onwurah MP, Shadow Minister for Industrial Strategy Science & Innovation for Labour, speaking at the Huxley Summit 2017





**Katherine Mathieson**

Chief Executive of the British Science Association

## In our modern world, changes in social norms can be profound and rapid. Last year, who would have guessed that ‘single-use’ would be named Collins Dictionary word of 2018?<sup>(1)</sup>

But when the BBC’s landmark series *Blue Planet II* aired at the end of last year, it seemed to have a profound effect on the public’s attitudes to single-use plastic. In the 12 months that have followed, there has been a swell in public support for a reduction in plastic use as well as numerous campaigns and stories on recycling, reusable cups, and drinking water stations.

Even so, we still produce and use plastic in almost every part of our lives; it’s found in an abundance of items, including food packaging, toys, beauty products, clothes, and even things you wouldn’t expect, like tea bags.

But here’s the problem – plastic is durable, versatile and cheap to produce. These properties are responsible for the detrimental and devastating environmental impacts we’re seeing, but they were once what made plastic so popular and sought after. Developed during the Industrial Revolution, it was classed as a wonder material. Its use exploded during the 1940s and 50s with

the rise of mass production and a change in our lifestyles, where convenience took priority.

Because of its copious use, our throw-away culture and the vast amount of time it takes to degrade, plastic is polluting our rivers, oceans and countryside on a global scale, with consequences for us all. Some researchers suggest that by 2050 there could even be more plastic by weight in the oceans than fish.<sup>(2)</sup> But we’ve known about plastic’s negative effects for a long time, so why has the public perception shifted in such a noticeable way this time?

If you compare these two narratives: the mid-century vs. the past year, it’s two completely opposing stories. Our change in attitude to plastics is changing the way we live, shop and eat. In a matter of months, governments have brought in new laws, companies have altered entire manufacturing processes, and organisations have overhauled their business models.

It’s not just peripheral groups driving the narrative anymore; instead, it’s coming from a large proportion of the public. We may suggest that *Blue Planet II* is responsible for this seemingly overnight shift in public attitudes, but the real reason is surely much more complex than that – and in reality, this shift was happening for a long time before *Blue Planet II* hit our screens.

What has been so fascinating about this behavioural shift is the relationship between society, science, business and policy – in this debate, they have been inextricably linked, feeding into one another and driving change together.

## How can businesses, policy-makers and scientists ensure products of innovation are fit for purpose when societal, environmental and cultural expectations alter so rapidly?

I think what has happened in the past year with single-use plastics could serve as a useful lesson for the future. What might the word of the year be in 2019? New technologies are being developed all the time. We’re now living in the Fourth Industrial Revolution, where artificial intelligence (AI) is pervading our lives and gene editing looks to follow suit. These

technologies are promising to change the world for the better, but how can businesses, policy-makers and scientists ensure products of innovation are fit for purpose when societal, environmental and cultural expectations alter so rapidly?

AI is booming. A decade ago, intelligent machines only appeared in science fiction. Now AI is used in all sorts of ways, from predicting the stock exchange, to diagnosing illnesses, and helping us discover new books and music. Professor Jim Al-Khalili said during his recent Presidential Address at the British Science Festival: “the most important conversation of our generation is about the future of AI... it will dominate and dictate how we manage many pressing issues of our time”.

Gene editing is seeing a similar trajectory. Although genetic engineering has been around since the 70s and was initially promising, the technology was ultimately too inefficient and difficult to apply in the lab and clinic. However, with the invention of the CRISPR-Cas9 technique just a few years ago, things have quickly changed. CRISPR-Cas9 is easy to use, cheap and incredibly versatile (sound familiar?), being described as “software for the genome”. Since its invention, DNA has already been altered in plants and animals, such as mice and monkeys, and scientists have shown that it can also be done in human cells and embryos.

It's predicted that the clinical applications of this technology could be realised in just 10 years. (3) It has the potential to correct Huntington's disease and sickle cell anaemia, simply by removing the faulty genes. But it could also allow enhancement, giving people stronger bones, less susceptibility to cardiovascular disease, or a different eye colour – what we would call: “designer humans”. You see where this could lead.

---

## In the current political climate, we must acknowledge the two polarised viewpoints that surround AI and gene-editing.

---

Over half of people are in favour of genetic engineering, but this could change. (4) It seems that public opinion is currently divided because the ethical implications are huge. Some view these innovations with the same hope and positivity that we did with plastic. AI machines could look after our elderly relatives or detect cancers better than any doctor could. But are there problems down the road that we cannot yet envision? On the other side, some people approach these technologies with fear and mistrust. Think: Terminator-style robots and designer babies. Whatever lies down the road, how can we better prepare for the advancements and changes that they will bring to our society?

In the current political climate, we must acknowledge the two polarised viewpoints that surround AI and gene-editing. The things driving the narrative are complicated and full of nuance. Public perception is shaped by lobby groups, the media, spokespeople and celebrities, workers, governments, businesses – the list goes on.

Since the Industrial Revolution, people have worried about new technologies taking away their jobs. When Mary Shelley's *Frankenstein* was published, people began to fear scientists that are “playing God”. Adding to the mix are the varying levels of regulation between different countries. Some are perceived to heavily underregulate while others have too much “red tape”, so while one country could take pause on a technology to consider the ethical implications, another may be steaming ahead regardless. China, for example, have been using CRISPR on human subjects since 2015, (5) whereas here in the UK, CRISPR trials in humans have been slow to gain legal approval. (6) There are also differences in cultures to consider. In Japan, AI is viewed more favourably due to the Shinto tradition, where they believe everything in the Universe, even robots, has a spirit. Whereas in the UK, we are wary and more suspicious of it. (7)

So, what can we do in our current positions? Having these conversations now is vital, and it's right that we involve the expertise of different technical and cultural spheres. These technologies, like plastics, have the power to change the relationship between citizens, businesses and policy makers, and we need government policy to reflect societal views.

As discussed at the previous two Huxley Summits, “the will of the people” is a vital component for how new technologies are applied. If there is no trust, a poor narrative, few discernible benefits, and a lack of open dialogue, then we risk misunderstandings, fear, and potentially a public backlash like the one we saw with GM crops, which caused them to be banned across Europe. Ultimately, everything we do as scientists, policy-makers and business leaders relies on the public's perceptions – they vote with their feet and wallets, after all.

Essentially, I think public perceptions of technologies and wider behavioural change are tied up into three crucial components: firstly, an evidence-led grassroots movement from lobbyists and communities, such as environmental NGOs; secondly it requires media coverage with trusted, influential voices carrying the debate, which we've seen before with documentaries such as *Blue Planet II*, *Blackfish*, and *An Inconvenient Truth*, leading to a viral social media narrative and a constant place on the news agenda; thirdly we need to offer alternatives, like having access to reusable coffee cups.

The Fourth Industrial Revolution holds unprecedented amounts of potential. It's disrupting almost every industry in every country. Reflecting on discussions from the past Huxley Summits, the public has always been at the heart of our debate. We must listen to their concerns and ultimately drive innovation for their benefit, building resilience to withstand risks that are still unknown to us. But it's a fine balancing act – will the public embrace new technologies and possibly change the course of nature, or reject them and miss

their array of opportunities? Whichever way the coin falls, we need to implement the right messages, policies, products and funding that reflects the public's important and influential views and behaviours. As scientists, policy makers, business leaders, and global voices, we must shoulder this responsibility.

By using the tools of successful campaigns from the past and present, we can help propel the world towards a positive future; a world made healthier, cleaner and fairer by technology. This is what the Huxley Summit is all about today – setting up the conversations and bringing people together so that we're ready for what's ahead of us, whatever way the tide changes.

### References

- (1) <https://www.collinsdictionary.com/woty>
- (2) <https://www.ellenmacarthurfoundation.org/publications/the-new-plastics-economy-rethinking-the-future-of-plastics>
- (3) <https://www.bloomberg.com/news/articles/2018-08-23/crispr-inventor-doudna-sees-first-human-therapy-5-10-years-away>
- (4) <https://www.newscientist.com/article/2179920-revealed-what-the-uk-public-really-thinks-about-the-future-of-science/>
- (5) <https://qz.com/1185488/chinese-scientists-used-crispr-gene-editing-on-86-human-patients/>
- (6) <https://www.newscientist.com/article/2148057-why-has-a-uk-team-genetically-edited-human-embryos/>
- (7) <https://www.wired.com/story/ideas-joi-ito-robot-overlords/>



### Ben Taylor

Ben Taylor is an Assurance Technology partner in EY UK, with a role to bring innovation to clients, and to help disrupt and transform EY's own business.

Humanity's ability to innovate has been critical to our success and it remains essential to support continued improvements in the way we live. However, when left unchecked the same innovations can bring with them profound risks – the unintended consequences. Society's collective failure to adequately address the unanticipated consequences of innovation has played a role in creating a crisis in public trust.

For example, plastics were perceived to be a super-innovation bringing benefits to incalculable aspects of our lives, but public opinion is shifting rapidly against them. How can we better anticipate and properly address the risks of even more disruptive innovations such as artificial intelligence? What road should we take with genome editing? How can we measure levels of trust and respond more quickly to changing public opinion?

Perhaps the answer lies in the increased availability of data and instantaneous interconnectivity which allows us to

listen to the debate around benefits and disbenefits of emerging technologies in real time. An even more important development is the ability of that technology to apply different lenses of analysis to vast amounts of data to support strategic and operational decision making.

### How can we better anticipate and properly address the risks of even more disruptive innovations such as artificial intelligence?

Trust is one such lens of analysis and the ability to measure trust in real time allows companies and public institutions to rapidly respond to potential risks and unanticipated outcomes of new innovations. But for this to work, we have

to believe that trust matters, especially for the long-term success of the sectors who will drive much of the new innovation.

### New technologies will continue to emerge but only those organisations that have the license of public trust will be able to fully reap the benefits of innovation.

Over the past 18 months, EY has participated in the Embankment Project for Inclusive Capitalism along with 31 of the world's leading companies and investors. The objective of the project was to look beyond traditional financial measures of organisational performance to find more meaningful ways to articulate how companies create long-term value, taking into account the needs of wider stakeholder groups, such as employees, consumers and society, not only shareholders.

Through this project we identified a correlation between movements in trust and financial performance. More importantly, we have also found that trust anticipates financial performance – in other words it functions as a lead-indicator for future financial performance. In that sense, we have proven that trust matters as it relates to long term viability and therefore capacity to innovate sustainably over time. Earlier this month

the Embankment Project for Inclusive Capitalism published their results, which we hope will pave the way for a more consistent and holistic way of measuring and building trust in business and public institutions.

I am optimistic that this work, combined with the advent of new technologies and smart analytics, will help us learn more quickly from past mistakes, and build trust for a better world. In the meantime, we should take confidence from the fact that debate in mainstream and social media about organisations' individual stances towards innovations such as artificial intelligence is already shaping their trust profiles. New technologies will continue to emerge but only those organisations that have the license of public trust will be able to fully reap the benefits of innovation.

## Huxley Summit 2018: Half-time review

### Key moments of the first six months of 2018

On 28 June 2018, a panel of experts from science, business, policy and the media addressed attendees at the Half-time review event at Digital Catapult in London. They revealed their stand-out moments from the last six months – from the public outcry about plastic pollution to Mark Zuckerberg’s Senate hearing – and shared their predictions of what we can expect in the latter half of the year.

#### President Xi Jinping becomes China’s President for Life

*Peter Barron, Former VP of Communications at Google EMEA and former Editor of BBC’s Newsnight*

On 11 May, China took a monumental step to change their constitution by abolishing term limits for Presidency. This means that Xi Jinping can essentially remain President for the rest of his life. He is a man with a plan; a plan that involves technology. He aims for China to be a global leader in 20 technologies by 2025, and it’s working – China are making extraordinary advances. By 2020 they will have caught up with us, by 2025 they will be better than us, and by 2030 they will dominate industries, in AI especially. At this point in time, we have a western tech industry under intense political and media pressure, but China has an unregulated tech industry that’s heavily invested in, with a rigorous 10-year plan.

#### EU blocking Britain’s space industry from being part of the Galileo project

*Dr Helen Czerski, Physicist, oceanographer and broadcaster*

Galileo is the EU’s rival to the US’s Global Positioning System (GPS). Because of Brexit’s transition period terms, the EU has started to block Britain’s part in the project due to security aspects of the programme being on a “need-to-know” basis, which Britain will no longer have a right to. It begs the question of who controls the data and who has access to it? This is especially pertinent as satellite technology is becoming more essential to business and the public. The number of satellites going into low orbit and looking back at the Earth is huge, and they’re providing vast amounts of data. They’re showing us what our planet looks like and are turning it into a village where everyone knows everyone’s business - it’ll be hard to hide anything.



#### Tackling single-use plastic pollution and the launch of the 25 Year Environment Plan

*Clare Moriarty, Permanent Secretary for the Department for Environment, Food & Rural Affairs*

Across society there has been an increased understanding and recognition of the impact of plastics on marine life. We have already taken on lots of action – the microbeads ban, the 5p charge on plastic bags (which removed 9 billion plastic bags from the system), but we know plastic use will still treble in a decade. It continues to be a huge imperative. Therefore, my key moments are the *Blue Planet II* series and the 25 Year Environment Plan, which came out on 11 January 2018. This contains the commitment to remove avoidable plastic waste by 2042. Within days we saw supermarkets come out to make their own commitments. David Attenborough himself recently said he was “astonished” by the response to *Blue Planet II* regarding our attitude and behaviour changes to single use plastics.

#### Mark Zuckerberg telling the Senate committee: “Senator, we run ads”

*Hugo Rifkind, Columnist for The Times*

My key moment is the Facebook and Cambridge Analytica Congressional hearings, where Mark Zuckerberg appeared before the Senate. An 84-year-old Senator from Utah asked how Facebook makes money from a service that users don’t have to pay for, and Zuckerberg replied, incredulously: “Senator, we run ads”. It’s a phrase that is being used across the tech industry at the minute, highlighting the disconnect between those within the sector and those outside. The problem here though is that these companies are ignoring those outsiders. People just don’t understand that Facebook runs ads, and terrifyingly, some of those people are running the world. There’s a real power gap. And if nobody outside of the sector understands how these companies work, will they ever be capable or willing to regulate themselves? Democracy can’t touch them.



**Samira Ahmed**

Samira is a broadcaster and writer. She presents *Front Row* on BBC Radio 4, *Newswatch* for the BBC News Channel, and *The Proms* on BBC4. Her documentaries for BBC Radio 3 and 4 include *HG and the H Bomb* and a film for the Science Museum's Mind Maps exhibition. Samira is on the advisory board of the National Science and Media Museum. She won the Stonewall Broadcaster of the Year award. Samira has worked as a reporter on *Newsnight*, and *The Today Programme*. She writes regularly for newspapers and magazines including *The Guardian*, *The New Statesman*, *The Big Issue* and *The New European*.



**Professor Jim Al-Khalili OBE FRS**

Jim is a scientist, author and broadcaster. He is a professor of Physics at the University of Surrey where he also holds a chair in the Public Engagement in Science. He is a fellow of the Royal Society and the current President of the British Science Association. He presents *The Life Scientific* on Radio 4 and recently presented *The Joy of AI* on BBC Four.



**David Bucknall**

David is the Group Controller and Chief Finance Officer of Group Finance at BP. He joined BP in 2006 as Chief Risk Officer for integrated supply and trading. In 2010, David became Chief of Staff for the Group CFO, gaining valuable experience during the activity that followed the Deepwater Horizon incident. He was subsequently Group Treasurer from January 2012 to December 2014. Prior to joining BP, David was the CEO and co-founder of an energy trading and risk management software company.



**Emma Howard Boyd**

Emma is Chair of the Environment Agency and originally joined the board in July 2009. She currently serves on various boards and advisory committees including the Future Cities Catapult (Vice Chair), ShareAction (Chair), and Menhaden Capital PLC (Board member).

Her previous roles include Director of Stewardship at Jupiter Asset Management and Vice Chair and Chair of the UK sustainable investment and finance association (UKSIF).



**Yasmin Alibhai-Brown**

Yasmin is journalist, author and broadcaster who comments on politics, multiracial societies, faith and human rights. She writes for the *International Business Times*, the *i* newspaper and the *Mail*. Yasmin has won many journalism prizes, including the Orwell Prize in 2002 and the Broadsheet Columnist of the Year in 2016. She has authored many books including her most recent, *Exotic England* (Portobello Books, 2015), a portrait of what Britishness really means.



**Liz Bonnin**

Liz is a science and wildlife presenter who hosts BBC shows and documentaries. She has a degree in Biochemistry and a Masters in Wild Animal Biology and Conservation. Liz started her career by presenting BBC One's *Top of the Pops*, before working on many science programmes including *Galapagos*, *Wild Alaska Live* and *Bang Goes The Theory*. Her new BBC One documentary, *Drowning in Plastic*, was broadcast in October 2018.

*Photo by Andrew Crowley.*



**Marisa Drew**

Marisa is the CEO of the Impact Advisory and Finance (IAF) Department of Credit Suisse based in London. She is a member of the Credit Suisse's Global Reputational Risk Committee and the UK Conduct and Ethics Board. In 2013, Marisa was recognised by the BBC as one of the Most Powerful Women in Britain and by *Fortune Magazine* as one of the 50 Most Powerful Women in International Business. In her spare time, Ms Drew is an active angel investor and has interests ranging from Fintech to art disrupters to restaurants.



**Harry Gaskell**

Harry is EY's UK and Ireland Chief Innovation Officer. He ensures that EY uses disruptive technologies to support client transformations and to launch new innovative services for EY. He is member of EY's UK&I Leadership Team, and was the Leader of Diversity and Inclusion for EY in the UK from 2010-2017. Harry is the Chair of the Employers' Network for Equality and Inclusion (enei) and is a member of the Court of Governors of the University of the Arts, London.



## Speakers



### Zoe Laughlin

Zoe is the co-founder and Director of the Institute of Making at University College London. Working at the interface of the science, art, craft and design of materials, her work ranges from formal experiments with matter, to the art of making the best spoon in the world. She holds an MA from Central Saint Martin's College of Art and Design, and a PhD in Materials from King's College London. She can often be found on television or radio celebrating all aspects of materials and processes of making including on BBC Two's *The Big Life Fix* and the BBC Four documentary *The Secret Life of Landfill: A Rubbish History*.



### Baroness Lucy Neville-Rolfe

Lucy is the Chair of Assured Food Standards and is a Non-Executive Director of Capita plc. She is a Conservative Member of the House of Lords and served for three years as a Government Minister as Commercial Secretary to the Treasury and Minister of State for Energy and Intellectual Property. Lucy was a member of the Board of Tesco plc from 2006 until 2013, serving as Executive Director, Corporate & Legal Affairs, having previously held senior management positions at Tesco since 1997. She has also been Non-Executive Director at ITV plc, PWC, 2 Sisters Food Group and Metro AG.



### Rory Sutherland

Rory is the Vice Chairman of Ogilvy in the UK and co-founded a behavioural science practice within the agency to 'unseen opportunities' in consumer behaviour. He writes regular columns for the *Spectator*, *Market Leader* and *Impact*, and also occasional pieces for *Wired*. He is the author of two books: *The Wiki Man* and *The Surprising Power of Ideas That Don't Make Sense* to be published in the UK and US in March 2019. His TED talks have been watched by nearly 9 million people.



### Jo Swinson MP

Jo is the MP for East Dunbartonshire and is Liberal Democrat Deputy Leader and Shadow Foreign Secretary. She was a Business Minister and Minister for Women and Equalities in the Coalition Government (2012-2015). In 2018, Jo helped set up a Technology and Artificial Intelligence Commission to explore how society can make the most of the possibilities that this revolution brings and ensure that all of society stand to benefit from them. She has written a book, *Equal Power: Gender Equality and How to Achieve It*, which was published by Atlantic Books in early 2018.



### Dr Ultan McDermott

Ultan took up his role Chief Scientist in Oncology at AstraZeneca in 2018. He is a clinical scientist and has a lifelong interest in understanding how cancer genomes affect response in the clinic to therapy, and more recently the use of genetic screens to identify mechanisms of drug resistance in cancer. Ultan joined the Wellcome Sanger Institute in 2009 as a Group Leader. Previously, he worked as a postdoctoral fellow with Jeff Settleman at Massachusetts General Hospital Cancer Center. He is a Fellow of the Royal College of Physicians and continues to practice as an oncologist at Addenbrooke's Hospital in Cambridge.



### Sally Phillips

Sally is a comic actress and writer who is well known for her roles in *Smack the Pony*, *Miranda* and *The Green Wing*, and for her performance as "Shazzer" in the British rom-com trilogy of *Bridget Jones*. Sally has also fronted and been heavily involved in a BBC documentary titled, *A World Without Down's Syndrome?*, in which she wades into the emotionally charged debate about a new screening test that is said to detect Down's syndrome in 99% of pregnancies and explores what effect the test could have on our society.

*Photo by Ruth Crafer.*



### Kriti Sharma

Kriti is the Vice President for Artificial Intelligence at Sage Group. She is an expert and leading global voice on Artificial Intelligence and its impact on society and the future of work. She built her first robot at the age of 15 in India and has been building AI technologies to solve global issues ever since, from productivity to education to domestic violence. In 2017, she was selected in the Forbes 30 under 30 in Tech list and, in 2018, was made a UN Young Leader.



### Ben Taylor

Ben is an Assurance Technology partner in EY UK, with a role to bring innovation to clients, and to help disrupt and transform EY's own business. He is a leading voice on the trust agenda in business – focused on how changes in corporate governance, corporate reporting and emerging technology affect long term business performance. Ben has worked with global multi-nationals including Vodafone, Shell and Centrica, helping to develop data strategies, technologies and skills.

## Speakers



### Michael Wignall

Michael is the Chief Technology Officer for Microsoft UK and is responsible for all aspects of the UK technology strategy. This includes supporting the implementation and use of technology by commercial and public sector organisations, and acting as a catalyst for digital transformation. Prior to joining Microsoft, Michael worked as Chief Technology Officer in the telecoms/tech start-up space after emigrating from Australia where he was a high-voltage systems engineer.



### Lord David Willetts

David is Chair of the British Science Association and Executive chair of the Resolution Foundation as well as a visiting Professor at King's College London. He was Minister for Universities and Science and has served previous roles in the Government regarding parliament, policy and finance. He has also written widely on economic and social policy with his most recent book, *A University Education*, published in November 2017.



### Professor Alison Woollard

Alison is an Associate Professor in the Biochemistry Department at University of Oxford where she leads a research team working on the developmental genetics of the nematode worm *Caenorhabditis elegans*. She presented the 2013 Royal Institution Christmas Lectures series *Life Fantastic*, broadcast on BBC4, and since then has taken part in a diverse range of public engagement activities, from pop festivals to stand-up comedy. Alison is a trustee of the Royal Institution and Vice President of the Genetics Society.



### Dr Linda Yueh

Linda is an economist, broadcaster, and author. She is a Fellow in Economics at St Edmund Hall, University of Oxford, and Adjunct Professor of Economics at London Business School. Previously, she was Chief Business Correspondent for BBC News and host of *Talking Business with Linda Yueh* for BBC World TV and BBC News Channel. Her latest book, *The Great Economists: How Their Ideas Can Help Us Today* was published by Viking/ Penguin Random House in 2018. Linda is a Non-Executive Director of FTSE 100 listed Rentokil Initial and was previously on the boards of JP Morgan Asian Investment Trust and Baillie Gifford's Scottish Mortgage Investment Trust.

## Sponsors and partners

### Headline Sponsor



EY is a global leader in assurance, tax, transaction and advisory services. The insights and quality services we deliver help build trust and confidence in the capital markets and in economies the world over. We develop outstanding leaders who team to deliver on our promises to all of our stakeholders. In so doing, we play a critical role in building a better working world for our people, for our clients and for our communities.

For more information about our organisation, please visit [ey.com](http://ey.com).

### Major Partners

## DIAGEO

Diageo is a global leader in beverage alcohol, and our outstanding collection of brands are enjoyed in more than 180 countries around the world. We own 20 of the world's top 100 spirits brands among which Johnnie Walker, Smirnoff, J&B, Buchanan's, Ciroc, Captain Morgan, Tanqueray and Baileys. We are a business built and sustained through innovation, and developing new ideas is crucial to our growth strategy.

We aim to create a positive role for alcohol in society by reducing harmful drinking, building thriving communities and continuously reducing our environmental impact.



Genomics England is a company set up and owned by the UK Department of Health to run the 100,000 Genomes Project, which aims to sequence 100,000 genomes from NHS patients. This flagship project will sequence 100,000 whole genomes from NHS patients with rare diseases, and their families, as well as patients with common cancers.



The Royal Society of Chemistry works to shape the future of the chemical sciences – for the benefit of science and humanity. With over 50,000 members and a knowledge business that spans the globe, we are the UK's professional body for chemical scientists; supporting and representing our members and bringing together scientists from all over the world. As a not-for-profit organisation with more than 175 years of heritage and an ambitious international vision for the future, we promote, support and celebrate chemistry.

## Sponsors and partners

### Partner and Host



The Royal Institution's (Ri) vision is for a world where everyone is inspired to think more deeply about science and its place in our lives. An independent registered charity, the Ri provides science education, public engagement, and heritage activities for people of all ages and backgrounds, creating opportunities for everyone to discover, discuss and critically examine science and how it shapes the world around us. For more information please visit [www.rigb.org](http://www.rigb.org).

### Supporter



The Institute of Physics is the professional body and learned society for physics in the UK and Ireland, inspiring people to develop their knowledge, understanding and enjoyment of physics. We work with a range of partners to support and develop the teaching of physics in schools; we encourage innovation, growth and productivity in business; and we provide evidence-based advice to governments across the UK and in Ireland.

### Media Partner



i launched as Britain's first and only concise quality news brand in 2010, introducing a trusted, impartial voice to the market. i is the UK's first and only concise quality national newspaper bringing readers an intelligent daily briefing. To find out more, please visit: [inews.co.uk](http://inews.co.uk).

### With thanks



Wellcome exists to improve health for everyone by helping great ideas to thrive. We're a global charitable foundation, both politically and financially independent. We support scientists and researchers, take on big problems, fuel imaginations, and spark debate.



The Lloyd's Register Foundation is a UK charity established in 2012. With our mission to protect the safety of life and property, and to advance transport and engineering education and research, the Foundation has an important role to play in meeting the challenges of today and the future.

## Advisory board

### About The British Science Association

The British Science Association is a charity that wants to see science at the heart of culture and society. Through our work in education, public engagement and collaboration with other sectors, we inspire people to get involved in all areas of science — whether it be natural, social, technological, or otherwise. We have established major campaigns and initiatives across the UK, including British Science Week, the British Science Festival, and the CREST Awards. Our UK-wide network of volunteer-led branches run thousands of events each year and we bring together thought leaders, opinion formers and professionals from across industry and society, including business, politics, sport and the arts. Society's biggest issues cannot be solved by science alone. By unlocking the potential of a more diverse group of people, we increase our ability to tackle some of the world's most intractable challenges and shape our future for the better.

### Advisory board

#### Lord David Willetts

Chair of the British Science Association

#### Jamie Angus

Director, BBC World Service Group

#### Azeem Azhar

Strategist, product entrepreneur and analyst

#### Dr David Cleveley CBE

Chairman, Raspberry Pi

#### Fiona Fox

Chief Executive, The Science Media Centre

#### Professor Uta Frith

Developmental Psychologist, UCL

#### Professor Jackie Hunter CBE

Chief Executive, BenevolentBio

#### Rowena Ironside

Chair, Women on Boards UK

#### Pippa Malmgren

Founder, H Robotics

#### Ed Whiting

Chief of Staff, Wellcome Trust



# Attendees

**Frederikke Magnussen**  
**Sian Sutherland**  
**Naureen Khan**  
**Guy Parker**  
**Roma Agrawal**  
**Adrian Smith**  
**Alex Bellos**  
**Nick Eaton**  
**Philip Ashman**

A Plastic Planet  
 A Plastic Planet  
 Accenture  
 Advertising Standards Authority  
 AECOM  
 Alan Turing Institute  
 Alex Bellos Limited  
 Algomi  
 Alimera Sciences

**Lauren Kisser**  
**Peter Hogg**

Amazon  
 Arcadis

**Rachel White**  
**Monika Biddulph**

Arcadis  
 ARM

**Stephen Pattison**  
**Gregory Hodkinson**  
**Aisling Burnand**  
**Dr Joe de Sousa**  
**Edward Twiddy**

ARM  
 Arup  
 Association Medical Research Charities  
 AstraZeneca  
 Atom Bank

**Dr Llyr Jones**

BAE Systems

**Deborah Allen**

BAE Systems

**Amelia Gould**  
**James Haywood**

BAE Systems  
 Baker Hughes, a GE company

**Baroness Tessa Blackstone**  
**Kirsty Rutter**  
**Dr Geoff Mackey**  
**Lars Bruening**  
**Jo Bullen**  
**Andrew Cohen**  
**Jamie Angus**  
**Balram Veliath**  
**Martyn Freeman**  
**David Halpern**  
**Prof. Jackie Hunter**

Bar Standards Board  
 Barclays UK  
 BASF  
 Bayer  
 Bayer  
 BBC  
 BBC  
 BBC  
 BBC  
 Behavioural Insights Team  
 Benevolent AI

**Veronica Wadley CBE**

Berkeley Group / Royal College of Music

**Andrew Mace**  
**David Sarphe**  
**Amanda Collis**

Bill & Melinda Gates Foundation  
 Bio Nano Consulting  
 Biotechnology and Biological Sciences Research Council  
 Blenheim Chalcot  
 Blippar  
 BNP Paribas  
 Bosch UK  
 BP  
 British Land  
 British Pharmacological Society  
 British Science Association

*Co-Founder*  
*Co-Founder*  
*Government Relations*  
*Chief Executive*  
*Associate Director*  
*Chief Executive*  
*Writer, broadcaster*  
*Chief Executive*  
*Senior Vice President and European Managing Director*  
*Director, AWS*  
*London City Executive and UK Big Urban Clients Director*  
*Chief Strategy and Transformation Officer*  
*General Manager, Systems and Software Group*  
*Vice President, Public Affairs*  
*Chair*  
*Chief Executive*  
*Director Science & Technology*  
*Chief Innovations Officer & Company Secretary*  
*Vice President, Head of Regional Operations & Intelligence*  
*Managing Director, Corporate Responsibility*  
*Chief of Staff to the Chief Executive*  
*Director, Global Growth Strategy & Strategic Planning*  
*Chair*  
*Chief Innovation Officer*  
*Corporate Affairs & Sustainability Director*  
*Chief Executive*  
*Head of Corporate & Government Affairs*  
*Head of BBC Science Unit*  
*Director of BBC World Service Group*  
*Director, Quality, Risk & Assurance*  
*General Counsel*  
*Chief Executive*  
*Chief Executive, Clinical Programmes & Strategic Partnerships*  
*Non-Executive Director, Governor and Trustee*  
*Senior UK Government Relations Officer*  
*Chief Executive*

*Executive Director - Science*  
*Managing Partner, FinTech*  
*Co-Founder & Director*  
*Chief of Staff, RISK UK*  
*Head of Mobility R&D*  
*Vice President, Public Partnerships*  
*Head of Campus*  
*Chief Executive*  
*Business Development Committee*

**Sylvia Williams**  
**Matt Locke**  
**Lana Hampicke**  
**Stephen Nuttall**  
**Amy Maclaren**

**Gill Riches**  
**Jon Fitzmarice**  
**Katherine Mathieson**  
**Caroline Daniel**  
**Maria Pecorari**

British Science Association  
 British Science Association  
 British Science Association  
 British Science Association  
 British Science Association

British Science Association  
 British Science Association  
 British Science Association  
 Brunswick  
 BT Global Services

*Business Development Committee*  
*Deputy Chair*  
*Trustee*  
*Vice President, Engagement*  
*Director of Development and Communications*  
*Director of Strategy and Operations*  
*Director, Huxley Summit*  
*Chief Executive*  
*Partner*  
*President, Digital, Global Portfolio & Marketing*  
*Director of Policy and Public Affairs*  
*Vice President, Communications, EMEA*  
*Head of Policy Lab*  
*Head of Science and Engineering Profession*  
*Chief Executive*  
*Director*  
*Director of Strategy*  
*Chief Digital Officer*  
*Board Member*  
*Chair*  
*Chief Executive*

*Global Strategy Advisor*  
*Corporate Affairs Director, UK and Europe*  
*Planning and Dispatch Director*  
*Chief Executive*  
*Director, Government & Corporate Affairs, UK & Ireland*  
*Executive Director*

**Alex Towers**  
**Sarah Atkinson**  
**Dr Andrea Siodmok**  
**Dr Owen Jackson**  
**Dr Tony Raven**  
**Sarah Main**  
**Howard Dawber**  
**Célia Pronto**  
**Vicky Pryce**  
**Dr John Brown CBE FRSE**  
**Keith Thompson**  
**Richard Thomas CBE**

BT Group  
 CA Technologies  
 Cabinet Office  
 Cabinet Office  
 Cambridge Enterprise  
 Campaign for Science and Engineering  
 Canary Wharf Group  
 Casual Dining Group  
 CEBR  
 Cell and Gene Therapy Catapult  
 Cell and Gene Therapy Catapult  
 Centre for Information Policy Leadership (CIPL) at Hunton Andrews Kurth LLP  
 Centrica plc  
 Centrica plc  
 Challenging Ideas  
 Cisco

**John Moorwood**  
**Myrtle Dawes**  
**Laura Sandys**  
**Matt Houlihan**

**Neil Jameson**  
**David Walmsley**

Citizens UK  
 City of Bradford Metropolitan District Council

**Simon Horner**  
**Chris Knight**  
**Caroline Firstbrook**  
**Dame Fiona Woolf**  
**Tabitha Goldstaub**  
**Vasilis Tsolis**  
**David Coughtrie**  
**Dr Andy Richards**

City of London Corporation  
 CKX Group  
 Clifford Chance  
 CMS Cameron McKenna LLP  
 CognitionX  
 Cognition+ LTD  
 Commercial Education Trust  
 Congenica, Abcodia, Babraham  
 Research Campus and Arecor  
 Conservative Party  
 Conservative Party

**Alan Mak MP**  
**Vicky Ford MP**

Consumer Council for Water  
 Coventry University

**Tony Smith**  
**Paul Noon**

**Tim Smith**  
**Sir Terry Morgan**  
**Sarah Laessig**  
**Lauren Walker**  
**Brigid Feeny**

Credit Suisse  
 Crossrail  
 data.world  
 Dentsu Aegis Network  
 Department for Business, Energy & Industrial Strategy

*Assistant Director, Office of the Chief Executive*  
*Head of Policy and Innovation*  
*Chief Executive*  
*Chief Operating Officer*  
*Energy Lawyer*  
*Co-Founder*  
*Co-Founder & Chief Executive*  
*Chairman*

*Chair*  
*MP for Havant*  
*House of Commons Science and Technology Select Committee*  
*Chief Executive*  
*Pro-Vice-Chancellor for Enterprise & Innovation*  
*Consultant*  
*Chair*  
*Board of Advisors*  
*Chief Data Officer EMEA*  
*Assistant Director - Place Team, Science, Research and Innovation Directorate*

## Attendees

<b>Mike Koeghan</b>	Department for Business, Energy & Industrial Strategy	<i>Chief Economic Adviser</i>
<b>Tamsin Berry</b>	Department for Business, Energy & Industrial Strategy	<i>Deputy Director, Life Sciences Industrial Strategy and Sector Policy</i>
<b>Sam Lister</b>	Department for Business, Energy & Industrial Strategy	<i>Director of Industrial Strategy</i>
<b>Gareth Davies</b>	Department for Business, Energy & Industrial Strategy	<i>Director General, Business and Science</i>
<b>Carl Cresswell</b>	Department for Business, Energy & Industrial Strategy	<i>Director, Better Regulation</i>
<b>Stephen Aldridge CB</b>	Department for Communities and Local Government	<i>Chief Scientific Adviser</i>
<b>Prof. Ian Boyd</b>	Department for Environment, Food & Rural Affairs	<i>Chief Scientific Adviser</i>
<b>John Seglias</b>	Department for Environment, Food & Rural Affairs	<i>Group Chief Digital and Information Officer</i>
<b>Clare Moriarty</b>	Department for Environment, Food & Rural Affairs	<i>Permanent Secretary</i>
<b>David Watson</b>	Department for International Trade	<i>Deputy Director of Communication</i>
<b>Dr Siobhan Campbell</b>	Department for Transport	<i>Deputy Chief Scientific Adviser</i>
<b>Bernadette Kelly CB</b>	Department for Transport	<i>Permanent Secretary</i>
<b>Dan Enachescu</b>	Diageo	<i>Head of Public Policy</i>
<b>Jeremy Silver</b>	Digital Catapult	<i>Chief Executive</i>
<b>Daniel Hook</b>	Digital Science	<i>Chief Executive</i>
<b>Dr Vishal Gulati</b>	Draper Esprit LLP	<i>VC &amp; Board Director</i>
<b>Ross McKenzie</b>	Drax	<i>Head of Public Affairs</i>
<b>Sara Vaughan</b>	E.On	<i>Political and Regulatory Affairs Director</i>
<b>Prof. Jennifer Rubin</b>	Economic and Social Research Council	<i>Executive Chair</i>
<b>Xavier Mamo</b>	EDF Energy	<i>Director of EDF Energy R&amp;D UK</i>
<b>Phill Jones</b>	Emerald Group Publishing	<i>Chief Technology Officer</i>
<b>Tony Roche</b>	Emerald Group Publishing	<i>Publishing &amp; Strategic Relations Director</i>
<b>Kedar Pandya</b>	Engineering and Physical Sciences Research Council	<i>Associate Director, Business and User Engagement</i>
<b>Judy Proctor</b>	Environment Agency	<i>Plastics Strategy Lead</i>
<b>Ekrem Sami</b>	ES Consultancy Services Ltd	<i>Founder</i>
<b>Harvey Lewis</b>	EY	<i>Executive Director</i>
<b>Kim Paykel</b>	EY	<i>Director</i>
<b>Melissa Myatt</b>	EY	<i>Partner</i>
<b>Richard Goold</b>	EY	<i>Partner</i>
<b>Rory Barrow</b>	EY	<i>Senior Manager</i>
<b>Amil Pasic</b>	EY	<i>Director, Assurance Innovation</i>
<b>Ross Jackson</b>	EY	<i>Executive Director</i>
<b>Ari Buescher</b>	EY	<i>Assurance Innovation</i>
<b>Ben Taylor</b>	EY	<i>Assurance Technology Partner</i>
<b>Harry Gaskell</b>	EY	<i>Chief Innovation Officer</i>
<b>Sabrina Barrett</b>	EY	<i>Senior Consultant</i>
<b>Isabel Beitia</b>	EY	<i>Senior Consultant</i>
<b>Scott Heather</b>	EY	<i>Senior Manager</i>
<b>Ryan Rubin</b>	EY	<i>Partner</i>
<b>Robert Madelin</b>	Fipra International	<i>Chair</i>
<b>Prof. Guy Poppy</b>	Food Standards Agency	<i>Chief Scientific Adviser</i>

<b>Dr Emma Hennessey</b>	Foreign & Commonwealth Office	<i>Deputy Chief Scientific Adviser and Deputy Head, Global Economic Issues Department</i>
<b>Catherine Brown</b>	Former Food Standards Agency	<i>Former Chief Executive</i>
<b>Adam Grodecki</b>	Forward Institute	<i>Executive Director</i>
<b>Jane Hughes</b>	Francis Crick Institute	<i>Director of Communications</i>
<b>Natasha Good</b>	Freshfields Bruckhaus Deringer	<i>Corporate TMT Partner</i>
<b>Almira Cemmell</b>	FTI Consulting	<i>Managing Director</i>
<b>Clive Tillotson</b>	Fujitsu	<i>CISO and Head of Operations</i>
<b>Will Moy</b>	Full Fact	<i>Director</i>
<b>Olly Buston</b>	Future Advocacy	<i>Chief Executive</i>
<b>Nicola Yates OBE</b>	Future Cities Catapult	<i>Chief Executive</i>
<b>Simon Nelson</b>	FutureLearn	<i>Chief Executive</i>
<b>Annette Nabavi</b>	Gemserv	<i>Non-Executive Director</i>
<b>Nigel Clarke</b>	General Pharmaceutical Council	<i>Chair</i>
<b>Duncan Rudkin</b>	General Pharmaceutical Council	<i>Chief Executive</i>
<b>Vivienne Parry</b>	Genomics England	<i>Head of Public Engagement</i>
<b>Juliet Davenport</b>	Good Energy	<i>Chief Executive and Founder</i>
<b>Dr Rupert Lewis</b>	Government Office for Science	<i>Director</i>
<b>Patrick Vallance</b>	Government Office for Science	<i>Chief Scientific Adviser</i>
<b>Mary Daunt</b>	Great Britain Wheelchair Rugby Ltd	<i>Non-Executive Director</i>
<b>Shirley Rodrigues</b>	Greater London Authority	<i>Deputy Mayor for Environment and Energy</i>
<b>Natalie Bennett</b>	Green Party	<i>Politician</i>
<b>John Sauven</b>	Greenpeace	<i>Executive Director</i>
<b>Dr Julie Huxley-Jones</b>	GSK	<i>Head of Product Quality, Systems &amp; Insight</i>
<b>David Mawdsley</b>	GSK	<i>Senior Vice-President, Corporate Affairs</i>
<b>Mina Frost</b>	GSK	<i>VP, Digital Risk</i>
<b>Judith Reece</b>	GSK	<i>VP, Digital Development</i>
<b>Noor Shaker</b>	GTN	<i>Co-Founder and Chief Executive</i>
<b>Gordon McKenzie</b>	Guild HE	<i>Chief Executive</i>
<b>Shona Tatchell</b>	Halo Trade	<i>Chief Executive and founder</i>
<b>Julie Baddely</b>	Harvey Nash	<i>Chair</i>
<b>Paul Hawkins</b>	Hawk-Eye Innovations	<i>Founder</i>
<b>Prof. Andrew Curran</b>	Health and Safety Executive	<i>Chief Scientific Adviser</i>
<b>Will Hutton</b>	Hertford College	<i>Principal</i>
<b>Andrew Watson</b>	Hewlett Packard	<i>Senior Director and Chief Technologist</i>
<b>Charanjeet Singh</b>	High Commission of India, UK	<i>Deputy High Commissioner of India to the UK</i>
<b>Dick Elsy</b>	High Value Manufacturing Catapult	<i>Chief Executive</i>
<b>Joanna Baldwin</b>	HM Revenue & Customs, Aviva	
	France and Starcount Insights	<i>Portfolio Non-Executive Director</i>
<b>John Salmon</b>	Hogan Lovells	<i>Technology Partner</i>
<b>Salma Shah</b>	Home Office	<i>Special Adviser</i>
<b>Rt Hon Norman Lamb</b>	House of Commons	<i>Chair of Commons Science and Technology Committee</i>
<b>Baroness Pauline Neville-Jones</b>	House of Lords	<i>Member of Science and Technology Committee</i>
<b>Lord Chris Fox</b>	House of Lords	<i>Member of Science and Technology Committee</i>
<b>Lord Julian Hunt</b>	House of Lords	<i>Member of Science and Technology Committee</i>
<b>Lord Tim Clement-Jones</b>	House of Lords	<i>Former Chair of Select Committee on Artificial Intelligence</i>
<b>Prof. Lord Robert Mair</b>	House of Lords	<i>Member of Science and Technology Committee</i>
<b>Baroness Julia King DBE FREng</b>	House of Lords	<i>Committee on Climate Change Crossbench Peer   Vice-Chair of CCC</i>

## Attendees

<b>Ruairidh Husband</b>	HSBC	<i>Head of Data Analytics, Global Risk Analytics</i>
<b>Mike Warriner</b>	HSBC	<i>Chief Information Officer for Retail Banking and Digital Wealth Management</i>
<b>Sally Cheshire</b>	Human Fertilisation and Embryology Authority	<i>Chair</i>
<b>Peter Thompson</b>	Human Fertilisation and Embryology Authority	<i>Chief Executive</i>
<b>Nicola Blackwood</b>	Human Tissue Authority	<i>Chair</i>
<b>Prof. Amanda Chessell CBE</b>	IBM	<i>IBM Distinguished Engineer</i>
<b>Keith Bear</b>	IBM	<i>Vice President, Financial Markets</i>
<b>Rashik Parmar MBE</b>	IBM UK	<i>Technical Executive - Europe, IBM Distinguished Engineer</i>
<b>Simon Edwards</b>	IET	<i>Director of Governance &amp; External Engagement</i>
<b>Prof. David Hand OBE</b>	Imperial College London	<i>Senior Research Investigator and Emeritus Professor of Mathematics</i>
<b>Prof. David Nutt</b>	Imperial College London	<i>The Edmond J Safra Chair in Neuropsychopharmacology</i>
<b>Luke Blair</b>	Imperial College London	<i>Vice President (Communications and Public Affairs)</i>
<b>Walter Merricks CBE</b>	IMPRESS	<i>Chair</i>
<b>Rupert Pearce</b>	Inmarsat Plc	<i>Chief Executive</i>
<b>James Cemmell</b>	Inmarsat Plc	<i>Vice President, Government Engagement</i>
<b>Dr Ian Campbell</b>	Innovate UK	<i>Executive Chair</i>
<b>Dr David Hardman MBE</b>	Innovation Birmingham	<i>Managing Director</i>
<b>Mike Kennedy</b>	Inogesis	<i>Director</i>
<b>Dame Uta Frith</b>	Institute of Cognitive Neuroscience	<i>Emeritus Professor of Cognitive Development</i>
<b>Johanna Kieniewicz</b>	Institute of Physics	<i>Head of National Outreach and Engagement</i>
<b>Charles Tracy</b>	Institute of Physics	<i>Head of Education</i>
<b>Anne Crean</b>	Institute of Physics	<i>Head of Science and Innovation</i>
<b>Jennifer Dyer</b>	Institute of Physics	<i>Head of Diversity</i>
<b>Alex Connor</b>	Institute of Physics	<i>Head of Policy</i>
<b>Ian Jones</b>	Intel Corporation Ltd	<i>General Manager</i>
<b>Andrew Wall</b>	Intellectual Property Office	<i>Head of Industrial Policy</i>
<b>Tim McSweeney</b>	Interstate 3x	<i>Director</i>
<b>Sir Peter Bazalgette</b>	ITV plc	<i>Chair</i>
<b>Chris Thorp</b>	Jaguar Land Rover Limited	<i>Responsible Business Director</i>
<b>Caroline Laurie</b>	Kingfisher	<i>Head of Sustainability</i>
<b>Dr Kate Devlin</b>	King's College London	<i>Senior lecturer</i>
<b>Professor Bobby Duffy</b>	King's College London	<i>Professor of Public Policy and Director of The Policy Institute</i>
<b>Irfana Malik</b>	Klesch Group	<i>Group Risk Officer</i>
<b>Peter Williamson</b>	Knights Brown	<i>Business Systems Director</i>
<b>Mark Essex</b>	KPMG UK	<i>Director, Corporate Affairs</i>
<b>Oonagh Harpur</b>	KPMG UK	<i>Independent Non-Executive</i>
<b>Darren Jones MP</b>	Labour Party	<i>House of Commons Science and Technology Select Committee member</i>
<b>Liz Kendall MP</b>	Labour Party	<i>House of Commons Science and Technology Select Committee member</i>
<b>Chi Onwurah MP</b>	Labour Party	<i>Shadow Minister for Industrial Strategy, Science and Innovation</i>
<b>Sir Nicholas Green</b>	Law Commission	<i>Chair</i>

**James Poulter**  
**Melanie Lee**  
**Christine Losecaat MBE**  
**Jennifer Rigby**  
**Dr Trevor Maynard**  
**Shirine Khoury-Haq**  
**Michael Wetherell**  
**Stuart Porter**  
**John Dickie**  
**Prof. Paul Ivey**

**Catherine Gan**  
**Eva Eisenschimmel**  
**Peter Durante**

**Jane Frost CBE**  
**Clare Wilkes**  
**Mike Cowen**

**Vinay Gupta**  
**Jonathan Dimson**  
**Sarah Haywood**  
**Declan Mulkeen**  
**Chris Molloy**  
**Anthony Lockett**  
**Prof. Stephen Belcher**  
**Anna Mazzone**  
**Charles Eales**  
**Lisa Barrett**

**Enrique Cadenas**

**Martin Fahey**  
**Toby Coppel**  
**Jeremy Long**  
**Prof. Gillian Leng CBE**

**Sir Andrew Dillion**

**Jon Townsend**  
**Dr Tim Hill**  
**Sir Michael Dixon**  
**Dr Magdalena Skipper**  
**Carol Rosati OBE**  
**Halima Khan**  
**Miatta Fahnbulleh**  
**Khuram Zubair**  
**Sumit Paul-Choudhury**  
**Dr Indra Joshi**  
**Sir Malcolm Grant CBE**  
**Ali Harrison**  
**Suzanne Westlake**

**Baroness Virginia Bottomley**

LEGO  
 LifeArc  
 Little Dipper  
 Lloyd's of London  
 Lloyd's of London  
 Lloyd's of London  
 Lloyd's Register Foundation  
 Lockheed Martin UK  
 London First  
 London Southbank University

Low Carbon Contracts Company  
 Lowell Financial  
 Macquarie Infrastructure and Real Assets  
 Market Research Society  
 Marks & Spencer Plc  
 Mastercard

Mattereum Ltd  
 McKinsey & Company  
 MedCity  
 Medical Research Council  
 Medicines Discovery Catapult  
 MEDQP  
 Met Office  
 MetricStream, Ltd.  
 Microsoft UK  
 Ministry of Justice

Ministry of Justice

Mitsubishi Electric Europe BV  
 Mosaic Ventures  
 MTR Corporation  
 National Institute for Health and Care Excellence  
 National Institute for Health and Care Excellence  
 National Trust  
 Natural England  
 Natural History Museum  
 Nature  
 nclusion  
 Nesta  
 New Economics Foundation  
 New Scientist  
 New Scientist  
 NHS England  
 NHS England  
 NHS England/Alzheimer's Society  
 Ocado

Ogders Berndtson

*Head of Emerging Platforms & Partnerships*  
*Chief Executive*  
*Chief Executive*  
*Chief Information Officer*  
*Head of Innovation*  
*Chief Operating Officer*  
*Director of Operations*  
*Head of Strategic Engagement*  
*Director of Strategy and Policy*  
*Deputy Vice Chancellor & Chief Business Officer*  
*Chief Financial Officer and Board Director*  
*Chief of Staff*

*MD: Technology & Innovation*  
*Chief Executive*  
*Head of Corporate Public Relations*  
*Head of Digital Payments (UK, Ireland, Nordics & Baltics)*

*Chief Executive*  
*Partner*  
*Chief Executive*  
*Chief of Strategy*  
*Chief Executive*  
*Founder and Chief Executive*  
*Chief Scientific Adviser*  
*Managing Director and General Manager*  
*Head of Strategic Influencer Partnerships*  
*Chief Scientific Advisor - Director of Analysis & Data Driven Dept & Culture Change Team*  
*Head of Projects - Social Impact & Innovation - Data Driven Dept & Culture Change Team*

*Head of Sustainability*  
*Co-Founder and Partner*  
*Chief Executive - European Business*

*Deputy Chief Executive*

*Chief Executive*  
*Chief Information Officer*  
*Chief Scientist*  
*Director*  
*Editor-in-Chief*  
*Chief Inclusion & Culture Officer*  
*Executive Director, Nesta Health Lab*  
*Chief Executive*  
*Consultant*  
*Strategy Director and Editor Emeritus*  
*Digital Health and AI Clinical Lead*  
*Chair*  
*Non Executive Director, Board Trustee*  
*Head of Corporate Responsibility & Corporate Affairs*  
*Chair, Board Practice London*

## Attendees

**John Jakenfelds**  
**Michael Drew**  
**Julien Perez**  
**Andy Samuel**  
**Tony Jones**  
**Imran Gulamhuseinwala OBE**  
**Jonathan Finney**  
**Jane Cooper**  
**Dr James Clarke**  
**Katherine Priestley**  
**Nathan Martin**  
**Emma Lynn**  
**Pauline Egan**  
**John Timothy**  
**Dr Roger Hinton**  
**Sandra Boss**  
**Jon Andrews**

**Julia Grant**  
**Aimee Goldsmith**  
**Kathy Rogerson**  
**Matt Cavanagh**  
**Dame Julia Goodfellow**  
**Dr Gill Samuels CBE**  
**Jon Freeman**

**Dr David Cleevly CBE FEng**  
**Dr Paul Thompson**  
**Lisa Anson**  
**Kate Ward**  
**Michael Solomon**

**Priya Guha**  
**Dr James Kell**  
**Andrew Clarke**  
**Dr Rachel Joynes**

**Nigel Williams**

**Prof. Gail Cardew**  
**Shaun Fitzgerald**  
**Kristie Steffensmeier**  
**Martin Davies**  
**Dom McDonald**  
**Nicola Hancock**  
**Dr Claire Craig**  
**Dr Robert Parker**  
**Dr Jo Reynolds**  
**Julian Roberts**  
**Edwin Silvester**  
**Dr Deirdre Black**  
**Dr Clare Dyer-Smith**  
**Tanya Sheridan**  
**Christopher Lake**

Odgers Berndtson  
 Odgers Berndtson  
 OGCI Climate Investments LLP  
 Oil and Gas Authority  
 One Nucleus  
 Open Banking  
 Openreach  
 Orsted  
 Oxford Nanopore  
 Park Vale Capital  
 Pearson PLC  
 Pfizer UK  
 Pinsent Masons LLP  
 Portman Group  
 Porton Biopharma Limited  
 PRA, Bank of England  
 PriceWaterhouseCoopers

Pro Bono Economics  
 Procter & Gamble  
 Procter & Gamble  
 Prudential  
 Public Health England  
 RAND Corporation  
 RAND Corporation

Raspberry Pi Foundation  
 RCA  
 Redx Pharma  
 Refinery29  
 Responsible 100 /  
 Profit through Ethics  
 RocketSpace  
 Rolls Royce  
 Royal Academy of Engineering  
 Royal College of General Practitioners

Royal Commission for the Exhibition of 1851  
 Royal Institution  
 Royal Institution  
 Royal Institution  
 Royal Institution  
 Royal Institution  
 Royal Mail Group  
 Royal Society  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 Royal Society of Chemistry  
 S & P Global

*Chair, Life Sciences Practice*  
*Global Head, Technology Practice*  
*Strategy & Policy Director*  
*Chief Executive*  
*Chief Executive*  
*Implementation Trustee*  
*Head Of Public Affairs*  
*Head of Stakeholder & Regulatory Affairs UK*  
*Vice President, Platform Technology*  
*Managing Director*  
*Director of Global Thought Leadership*  
*Corporate Affairs Director*  
*External Board Member*  
*Chief Executive*  
*Chief Executive*  
*PRC External Member*  
*Executive Board Member – Head of Technology and Investments*

*Chief Executive*  
*Head of Communications, P&G N.Europe*  
*Scientific Communications N.Europe*  
*Director of Group Government Relations*  
*Chair*  
*Member European Advisory Board*  
*Research Group Director, Innovation, Health and Science*  
*Chair*  
*Vice-Chancellor*  
*Chief Executive*  
*Senior Vice President*

*Director*  
*Ecosystem General Manager*  
*In-Situ Technology Specialist*  
*Director of Programmes*

*Assistant Director | Clinical Innovation and Research Centre*

*Secretary & Chief Executive*  
*Professor of Science, Culture and Society*  
*Director*  
*Corporate Development Manager*  
*Public Programme Manager*  
*Head of Education*  
*Director of Technology Business Operations*  
*Chief Science Policy Officer*  
*Chief Executive*  
*Director, Science & Communities*  
*Head of Communications*  
*News and Media Manager*  
*Head of Research & Innovation*  
*Programme Manager, Science Divisions*  
*Policy and Evidence Manager*  
*Vice President, Head of Regulatory Policy*

**Anne Lewis-Olsson**  
**Rachel Dunscombe**  
**Dr Chris Francis**  
**Dr Vanessa Lawrence**  
**John Marsland**  
**Fiona Fox**  
**Carol Monaghan MP**

**Nick Ross**  
**Sean Winnett**  
**Gwen Jones**

**Dr Kai Stoeber**  
**Ian Shott CBE**  
**John Ryley**  
**Frederic Michel**

**Malcolm Weir**  
**Kjersti Wiklund**  
**Karen Thomson**  
**Doris Honold**  
**David Martin**  
**Caroline Worboys**  
**Michael Stevens**  
**Prof. Sir Martin Sweeting**  
**Dr Kevin Cox**  
**Luke Gibbs**

**Gail Klintworth**  
**Jacqueline de Rojas**  
**Richard Aylard**  
**Sharon Cooper**  
**Tom Bawden**  
**Jason Engelbrecht**  
**Jonny Ohlson**  
**Paul Campion**  
**Caterina Preti**

**Steve Bates**  
**Sir Mark Walport**  
**Fiona Driscoll**  
**Katrina Nevin-Ridley**

**Rebecca Endean**

**Dr Graham Turnock**  
**Samantha Tucker-Samaras**  
**Lord Jamie Lindsay**  
**Nicky Old**

**Dr Jack Stilgoe**

**Dr Helen Czerski**  
**Sophie Scott**  
**Bobby Gaspar**

Saab  
 Salford Royal NHS Foundation Trust  
 SAP UK Ltd  
 Satellite Applications Catapult  
 Schroders  
 Science Media Centre  
 Scottish National Party

Sense About Science  
 Shell  
 Shell

Shionogi Limited  
 Shott Trinova  
 Sky News  
 Sky plc

Sosei Heptares  
 Spectris  
 Stagecoach Group  
 Standard Chartered  
 Stantec  
 Starcount  
 Stratopphase Limited  
 Surrey Satellite Technology Limited  
 SynDermix AG  
 Syngenta

SYSTEMIQ  
 TechUK  
 Thames Water  
 The Economist Intelligence Unit  
 The i  
 Thomson Reuters  
 Touchlight Genetics  
 Transport Systems Catapult  
 Turner

UK BioIndustry Association  
 UK Research and Innovation  
 UK Research and Innovation  
 UK Research and Innovation

UK Research and Innovation  
 UK Space Agency  
 Unilever UK and Ireland  
 UK Accreditation Service  
 Universities UK

University College London

University College London  
 University College London  
 University College London

*Director of Business Development*  
*Director of Digital*  
*Director, Government Relations*  
*Non-Executive Director*  
*Chief Operating Officer, Investment*  
*Chief Executive*  
*House of Commons Science and Technology Select Committee*  
*Chair, Trustee, President, Broadcaster*  
*Head of UK Government Relations*  
*Vice President, Business Development*  
*Downstream Acquisitions & Divestments*  
*Vice President, Global Innovation*  
*Managing Partner*  
*Head of Sky News*  
*Group Director, Impact Investment & Ocean Ventures*  
*Chief R&D Officer*  
*Non-Executive Director*  
*Non-Executive Director*  
*Group Chief Operating Officer*  
*Vice President, UK*  
*Managing Director*  
*Chair*  
*Executive Chair*  
*Director*  
*Head of Business Sustainability for the UK, Ireland and Nordics*  
*Partner*  
*President*  
*External Affairs and Sustainability Director*  
*Chief Digital Officer*  
*Science Correspondent*  
*Chief Technology Officer*  
*Chief Executive*  
*Chief Executive*  
*Director, Innovation & Business Development*  
*Chief Executive*  
*Chief Executive*  
*Chair of the Audit Committee*  
*External Affairs, Communications and Public Engagement Director*  
*UK Research and Innovation Strategy Director*  
*Chief Executive*  
*Vice President, Strategic Science R&D*  
*Chair*  
*Director of Communications and External Relationships*  
*Senior Lecturer in Science and Technology Studies*  
*Research Fellow, Mechanical Engineering*  
*Professor of Cognitive Neuroscience*  
*Professor of Paediatrics and Immunology*

## Attendees

**Graeme Reid**  
**Dr Beth Singler**  
**Prof. Lindsay Greer**  
**Sir Tom Blundell**  
**Laura James**  
**Jarmo Eskelinen**  
**Prof. Sarah Harper**  
**Sir Bernard Silverman**  
**Prof. Christl Donnelly**

**Prof. Michael Davies**  
**Prof. Pamela Thomas**  
**Sir John Holman**  
**Dr Thomas Haeberle**  
**Richard Kirkman**  
**David Gerrard**  
**Jane Franses**  
**Helen Lamprell**

**James Swanston**  
**Stuart Colville**  
**Imran Khan**  
**Joseph Clift**  
**Huw Morris**

**Rowan Douglas**  
**Sharmila Nebhrajani OBE**  
**Rowena Ironside**  
**Julie Woods-Moss**  
**Sophie Thomas**  
**Eugenie Molyneux**  
**Jan Hall**  
**Sir Richard Packer**  
**Viscount Matt Ridley**

University College London  
 University of Cambridge  
 University of Cambridge  
 University of Cambridge  
 University of Cambridge  
 University of Edinburgh  
 University of Oxford  
 University of Oxford  
 University of Oxford  
 & Imperial College London  
 University of Sussex  
 University of Warwick  
 University of York  
 URENCO  
 Veolia UK & Ireland  
 Veolia UK & Ireland  
 Visa Europe  
 Vodafone UK

Voyage Control  
 Water UK  
 Wellcome Trust  
 Wellcome Trust  
 Welsh Government

Willis Towers Watson  
 Wilton Park  
 Women on Boards  
 Woods-Moss  
 WRAP  
 Zurich Insurance Group

*Chair of Science and Research Policy*  
*Research Fellow in AI*  
*Head of School of the Physical Sciences*  
*Professor of Biochemistry*  
*Entrepreneur-in-residence*  
*Director, Data Driven Innovation*  
*Professor of Gerontology*  
*Emeritus Professor of Statistics*

*Pro Vice Chancellor (Research)*  
*Pro Vice Chancellor (Research)*  
*Emeritus Professor of Chemistry*  
*Chief Executive*  
*Chief Technology & Innovation Officer*  
*Chief Financial Officer*  
*Director of Client Communications*  
*General Counsel and Director of External Affairs*  
*Chief Executive*  
*Director of Strategy*  
*Head of Public Engagement*  
*Policy Adviser*  
*Director of Skills, Higher Education and Lifelong Learning*  
*Head of Capital, Science & Policy Practice*  
*Chief Executive*  
*Chair*  
*Adviser & Board Member*  
*Board Member*  
*Chief Risk Officer of Commercial Insurance*

*Author and former Civil Servant*  
*Author and journalist*

Evan Davis, BBC presenter and broadcaster, speaking at the Huxley Summit 2017.





HEADLINE SPONSOR



MAJOR PARTNERS

**DIAGEO**



PARTNER AND HOST



SUPPORTER



MEDIA PARTNER



WITH THANKS



Delivered by



British Science Association Registered Charity No. 212479 and SC039236