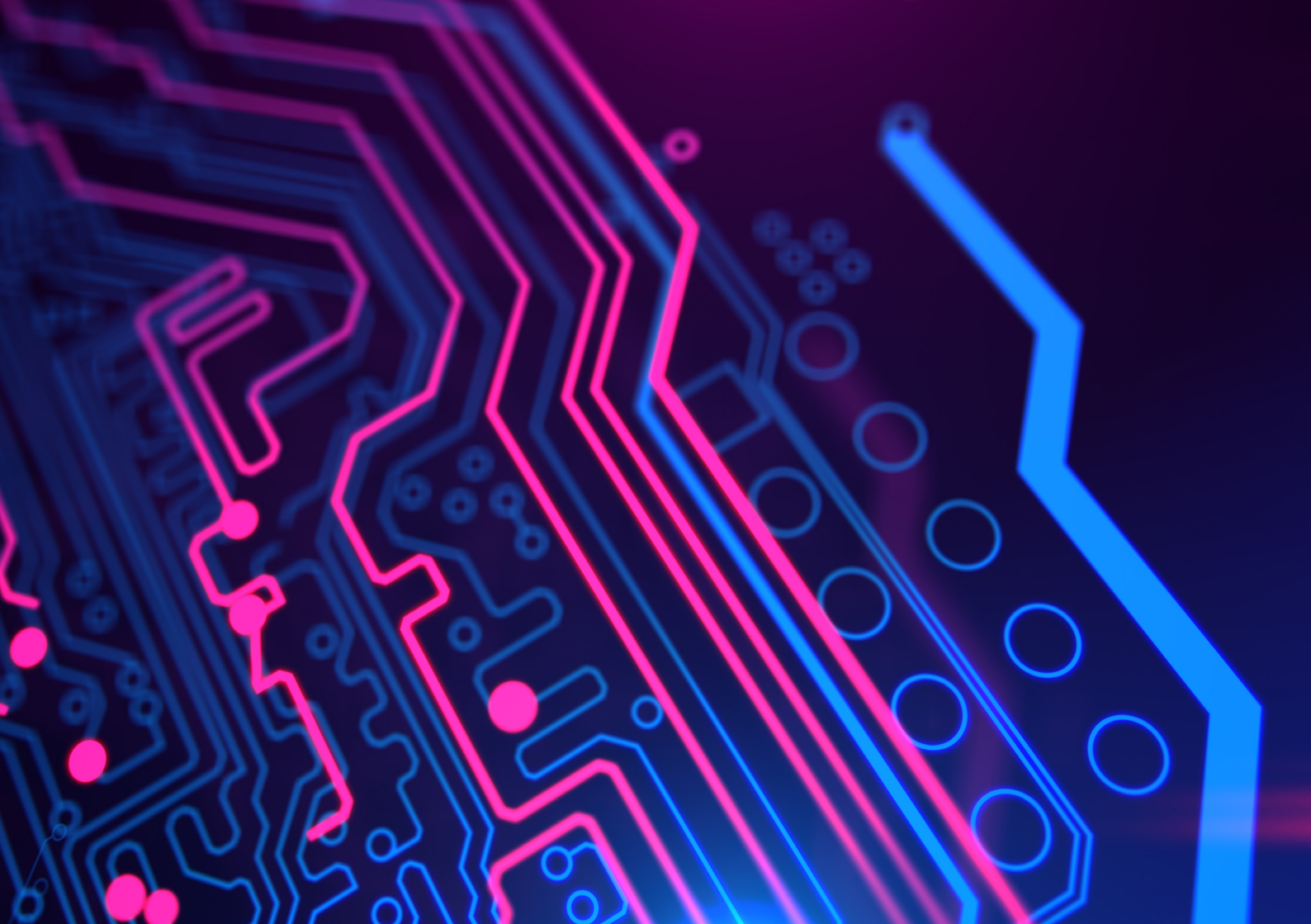


# IRIS FESTIVAL OF THE FUTURE

CHENEY SCHOOL  
25<sup>TH</sup> MARCH 2020  
3.30 – 6PM

[WWW.RUMBLEMUSEUM.ORG.UK](http://WWW.RUMBLEMUSEUM.ORG.UK)





# Welcome to our Festival of the Future

This event explores the many exciting as well as sobering possibilities the future may hold for our societies and our planet. More than ever before, we are thinking about the future impact of climate change, technology and medical advances, and what these might mean for the way we live, travel, learn, work and play.

Businesses, organisations, museums and universities from across and beyond Oxfordshire have joined us to create a future trail across the school, including the breadth and richness of museum exhibitions and learning in all areas. Our largest area is Science, where you will be able to explore our Robotics, A.I. and Medicine of the Future. In our Design Zone, you can explore future cities, future archaeology and architecture. In Science Fiction, you can explore how writers and artists have imagined the future, and in our Environment Zone, you can learn about how organisations are working to protect our environment.

This brochure contains information about the external organisations bringing stalls, activities, artefacts and displays. As well as this, there will be many “pop-up” activities and stalls led by Cheney students, which aren’t included in the brochure.

We are enormously grateful to the very many organisations and volunteers who are supporting this event, and to Cheney School staff and students for supporting the festival in many ways.

Dr Lorna Robinson, Director, Iris Project and Rumble Museum

Mr David Gimson, Higher Attainers Co-ordinator at Cheney

# Future Zone 1

## Welcome to the Science of the Future!

In our Science Zone, you can find:

### The Oxford Natural History Museum

Oxford University's Museum of Natural History houses 7 million specimens, 5 million of which are insects including the nationally important British Insect Collection. Our 'Hope for the Future' project will see these 1 million insects re-curated and illustrate how insects are not just our past heritage but our hope for the future too. Come along to see some of our wonderful specimens and find out more about the amazing invertebrates on your doorstep and the role they will play in ensuring a happy and healthy planetary future.'

### RobotFun

RobotFun was founded in 2014 by a Ph.D physicist and STEM Ambassador. Our aim is to get kids coding using robots, while learning about the technology and having fun. We're based in East Anglia but are happy to visit schools anywhere in the UK. Today we're offering you the chance to try

out several of our state of the art robots including Ozobots, the small and friendly robot that anyone can program; Edison, a Lego compatible driving robot with the ability to be programmed using bar codes; and a whole bunch of robots from Sphero, the company that designed and built BB-8 and BB-9E. We're especially excited to be bringing along several of their new RVR super-fast, highly programmable and very hackable rovers.

### Adama Robotics

Adama Robotics is an Educational Technology company who is inspiring and empowering the future generation with STEAM Education and 21st Century Skills to make them better equipped for the future.

### ABB Robotics

As a leading UK & Ireland robotics business we are helping small, medium and large manufacturing and production enterprises to boost their productivity by introducing robotics into their production processes. With

just over 100 employees based at our Milton Keynes offices, we will continue to promote the many benefits of robot automation and deliver solutions to increase customer productivity, quality and competitiveness to various manufacturing industry sectors, from food and beverage, automotive, electronics through to plastics. We also continuously support the education sector and ABB robots are installed in numerous FE colleges across the UK and Ireland.

### Robotic Surgery

The Churchill and research scientist at Nuffield Department of Surgical Sciences undertakes research into the biology that causes disease and the technology required to cure it. Robotic surgery requires many hours of training and, a bit like learning to fly, much of this can be done on a simulator. This Flex-VR robotic surgery simulator made by Mimic Simulation includes modules to practice basic manoeuvres as well as replicating some essential steps of certain operations.

## Siemens

At Magnet Technology, we take enormous pride in developing truly innovative technology to produce superconducting magnet solutions of exceptional quality. We are committed to continuously improving our performance. Individually and as a team, we recognise the vital contribution we make in creating medical equipment that transforms healthcare and the lives of people across the globe. The superconducting magnets produced here are solely for use in MRI systems. We manufacture many different product types with three different field strengths (1.5, 3.0 & 7.0 Tesla). The field strength influences the MRI image quality, allows for certain applications and enable speed of image acquisition. The magnet types within the different field strengths address certain market segments, ranging from economy to high end and patient comfort.

## Nuffield Department of Population Health

Secrets in the blood: The Nuffield Department of Population Health (NDPH) is a department within the University of Oxford Medical Sciences Division that conducts cutting-edge research into the causes, prevention and treatment of diseases that will affect millions of us around the world in future. Blood and urine measurements are just one very valuable tool to help

scientists understand the causes of these diseases. They can give us information on the importance of diet, hormones, infections, genetics and much more. The NDPH Wolfson Laboratory stores and test millions of samples from people around the world taking part in our research studies of various diseases including heart disease and cancer. Come and meet NDPH Wolfson Laboratory scientists to take part in a hands-on activity to explain how we test samples and learn about new laboratory technology for future population health research.

## Brookes Engineering

Oxford Brookes University will be holding a variety of different activities for you to participate in. Come and meet the team and have a go at racing one of our Oxford Brookes Formula Student team simulator cars, see our Robots and have a go at our Engineering rocket cars and Built Environment activities.

## Dept. of Physiology Anatomy & Genetics

Embryo development is a very dynamic process that we all underwent in our mothers' wombs. An embryo starts out as a single cell, cells divide, change shapes, move and transform into what we are. Explore how babies develop in the womb by manipulating embryos in virtual reality.





### ISIS Neutron and Muon Source

The ISIS Neutron and Muon Source is a state-of-the-art research centre in the physical and life sciences. Discover how we use our particle accelerator and sub-atomic particles to look deep within materials to understand the world we live in, from spider silk and soaps, to ancient swords and superconductors.

### Centre for Personalised Medicine, University of Oxford

The Centre for Personalised Medicine, University of Oxford, explores the benefits and challenges of Personalised Medicine. Our principal aim is to engage a wide range of interested people including academics, clinicians, students, patient groups and the public. Personalised Medicine is delivering the right treatment to the right patient at the right time. Genetic data can improve our understanding of the typical response to a specific treatment and what factors affect the variety of responses. Explore our Trait Tree, try DNA origami and meet our researchers!

### Structural Genomics Consortium

The Structural Genomics Consortium (SGC) is part of the Nuffield Department of Medicine

at the University of Oxford. We are a public-private partnership that supports the discovery of new medicines through open access research. What this means is that we focus on finding useful starting points for future medicine development (through developing new tools, new assays, new techniques and understanding the biology behind human disease) but we don't patent anything and we try and put everything we do in the public domain as quickly and as freely as possible. At our stall you can learn about open access drug discovery, how we design new medicines, why (and how) we need to understand the structures of proteins to understand disease, and look at some actual protein crystals.

### University of Oxford Computer Science

Join this fun and interactive workshop and learn how to code by playing with the Sphero SPRK+ robots. Team up with others to help Sphero to traverse the maze. If you have never tried coding before, this is a fantastic opportunity to give it a go

### Segway Robots

A pioneering entertainment concept that combines jaw-dropping technology with one-of-a-kind performances, the Segway Robots will be interacting with visitors throughout

the Festival. Come and shake hands, speak to and have your photo taken with one of these robots as you explore the Festival's many stalls and activities!

### Milletts Falconry

Milletts Farm Falconry Centre is home to over 100 birds of prey from tiny owls to huge eagles. It is the largest attraction of its kind in Oxfordshire. Here you will not only be able to admire a wide and diverse range of birds of prey but also see what they are capable of and learn how they live in the wild.

### In2Science

in2scienceUK is an award winning charity that organises two week placements, during the summer, for year 12 students to work on cutting edge research alongside researchers at the University of Oxford, University of Reading and in Industry. This unique experience will give students invaluable insight into the STEM sector and with the support of our careers and skills workshops students will have the opportunity to gain the skills, knowledge and confidence to pursue a career in STEM.

## Wellcome Centre for Integrative Neuroimaging

The Wellcome Centre for Integrative Neuroimaging was established in 2017 with core funding from the Wellcome Trust. We aim to bridge the gap between laboratory neuroscience and human health, by performing multi-scale studies spanning from animal models through to human populations. Our core research themes include Cross-Species Neuroimaging, Cross-Scale Relationships, Population Data Mining, Clinical Markers and Open Neuroimaging.

## Dept of Biological and Medical Sciences, Oxford Brookes University

Extracellular vesicles (EVs) are small lipid-bound packages of information that are released and taken up by cells. The release and uptake of EVs are important in intercell communication. There is experimental evidence for the potential of EVs to be used as a therapeutic or diagnostic. The uptake of EVs carrying treatment offers a targeted therapy whilst the release of biomarker carrying EVs from diseased cells provides a means of diagnosis. Learn more about EVs with our virtual reality (VR) experience, playing our "EV game" and de-code messages released by EVs. As well as getting creative by making your own "EV monster" fridge magnet!



### Paediatric Neuroimaging research group

The Paediatric Neuroimaging research group are a team from the University of Oxford who conduct research to improve our understanding of human brain development, with a particular focus on improving the treatment of infant pain. We are based at the John Radcliffe Hospital, where we run research with babies to understand how the brain matures and responds to the surrounding environment in early life.

### MYRIAD Project, University of Oxford Psychology

The MYRIAD Project is a Wellcome Trust funded research programme investigating mental health and well-being in young people. The programme is researching the underlying cognitive mechanisms, teacher training routes, school-based implementation and effectiveness of mindfulness training in UK secondary schools. It is a partnership between the Universities of Oxford, UCL, Cambridge, Exeter and King's College London. Interactive activities from the group's "Teenage Brain" workshops will be available to try out, including a giant, walk through inflatable brain and computer based cognitive tests. You can also find out about the "Now over to you!" research challenge which is ongoing in study schools.

### Brookes Engineering

Oxford Brookes University will be holding a variety of different activities for you to participate in. Come and meet the team and have a go at racing one of our Oxford Brookes Formula Student team simulator cars, see our Robots and have a go at our Engineering rocket cars and Built Environment activities.

### Galaxy Zoo, University of Oxford Physics

"Galaxy Zoo is one of the longest-running online citizen science projects. It enables hundreds of thousands of volunteers from around the world to help astronomers classify millions of galaxies by shape. You'll have a chance to classify galaxies yourself and become a citizen scientist. You'll also be able to talk to members of the Galaxy Zoo team about the project and learn how they are incorporating machine learning to assist the work of the human volunteers."

### Biochemistry, University of Oxford

We're dedicated to a fuller understanding of all the cells and systems that underpin human life, researching them at molecular, structural and cell level. We're focused on the future of humanity, making connections and discoveries that will improve health and quality of life for people everywhere.

### Travelling Natural History Museum

We are The Travelling Natural History Museum and will we be giving you the chance to learn everything there is to know about SPACE! Come along to speak to our expert and hear his informative talks throughout the day. You will be able to see and touch an amazing collection of real meteorites, crystals and rocks, see a full-sized NASA spaceman and an 8 ft. NASA Rocket. You can also experience being 'a man/woman on the moon' with a photographic backdrop! Let's find out what you all think the moon is made of during our interactive debates.

### Dept of Oncology, University of Oxford

We are the Dept of Oncology, which means our 400 scientists work to improve cancer treatment. From the physics behind radiotherapy, the maths behind clinical trials and the biology that helps design more targeted therapies - a huge range of talents come together to make cancer a disease that people survive. Recently a new group of researchers has joined the team. Mathematicians by training they use a combination of maths and computer science to design simulators for cancer cells. The simulators help predict how the cancer cells might try to fight back against our treatments. On 3 March we will be exploring how maths may be the key to curing cancer.





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METHOD TRAVEL

### Oxford Hospital School

Our award winning 'Robots in Schools' project helps chronically ill children attend school via the latest telepresence robot technology. The robot represents the child in class and bridges the gap between school and home / hospital. Early indications are that this not only provides academic continuity but also psychological benefit, aiding reintegration. We currently have a fleet of 11 robots, four Double 2s and seven AV1s. The later are part of a DfE funded Alternative Provision Innovation Fund pilot project.

### Modernising modern microbiology

Modernising Medical Microbiology is a research group aiming to transform how we analyse and treat infections, to improve patient care. We aim to modernise the way we analyse infections, bringing cutting-edge scientific techniques to clinical care; Transform the way we study the treatment of patients with infections, using large databases of hospital electronic information, to identify trends in how infections are behaving, and ways patient care can be improved.

### Oxford Quantum Circuits

Quantum Computing is Coming! Oxford Quantum Circuits builds quantum computers. It is our mission to accelerate the world's transition to a quantum enabled future. We aim to be

at the core of the quantum revolution by building a truly scalable quantum computer with simple, flexible systems. We aim to use the power of quantum to do things which have never been achieved before, such as enabling life-changing drug discover and new battery technology. Come and learn more, play with our live demonstration of a prototype quantum computer, and perform some real quantum logic!

### Oxford Robotics Institute

The Oxford Robotics Institute is an interdisciplinary division within the University of Oxford. It is dedicated to researching robotics, artificial intelligence, systems engineering, and other related fields. It will be bringing an autonomous car as well as other displays and demonstrations.







# Future Zone 2

## Welcome to the Design & Archaeology Zone!

In our Design & Archaeology Zone, you can find:

### Uncomfortable Oxford

Are societies doomed to repeat the mistakes of the past? How can we learn from our historical 'mistakes'? Why doing this so uncomfortable and political in the modern world? Join graduate students of the University of Oxford at a special 'Uncomfortable Histories' café, where participants will be able to visit tables themed around questions of prejudice, colonialism, inequalities, and wealth. Each table will offer a unique 'menu' of historical stories which illustrate difficult legacies and will create meaningful conversations on topics such as imperialism, inclusivity, class, diversity, and acceptance.

### The Museum of the History of Science

The Museum of the History of Science houses a remarkable collection of historical scientific instruments and models including globes, orreries, early radio apparatus, mathematical and time telling instruments,

a medical collection, and Einstein's famous blackboard! 'Lovelace's Labyrinth' Join Lovelace and Babbage to discover clever calculators, a 19th-century vision of the future, and other mathematical instruments. Challenge yourself to mathematical puzzles and problem-solving.

### Oxford 2050

Oxford City Council has declared a Climate Emergency in the city, we've held the UK's first full citizens assembly on climate change and we are putting forward plans to reduce our own carbon footprint to zero. We will also be working with citizens, businesses and others to help set a path to zero carbon for the city as a whole. Over the past year the Council has secured over £80 million of funding to trial the world's largest hybrid battery to support electric vehicle charging and low-carbon heat networking, together with smart grid to help keep the electricity network in balance. In 2020 we will be implementing a Zero Emission Zone in the centre of the city.

### Historical Interpretations

Historical Interpretations provides exciting and educational historical workshops across England, with expert costumed interpreters and using the largest collection of educational artefacts in the country. If you can think of a period, we will have it covered. We are passionate about using archaeology as a way of accessing history. We use the artefacts to bring the past to life. Our artefacts are of museum quality, authentic, really do work, and are used by pupils in handling sessions to connect to the past.

### Museum of Oxford

The Museum of Oxford is the only museum dedicated to telling the story of Oxford and its people. It is about to embark on a huge transformation project! It will tell the often-overlooked story of Oxford, its people and its communities through exhibits, objects and oral histories. The project aims to create an award-winning museum and events space in the centre of Oxford.







## Ure Museum

This exciting new interactive experience is a collaboration between the Ure Museum of Greek Archaeology at the University of Reading and Museum in a Box (<http://www.museuminabox.org/>). How do we know about what happened in the past? Archaeologists and historians use bits and pieces of information – whatever they can find – to create a narrative. Annie Ure was the Museum's first curator, and she helped assemble the Ure Museum as we know it today. But there was more to Annie than being a curator. Use the collection and archives to piece together Annie's story. Who was Annie? Open the box and find out!

## Languages of the Future, Brookes

How will our language change and evolve over time? Language changes all the time. Any adult who tries to understand text-speak will know that these changes come easier to some than others. Try your hand at learning our new language in which people speak backwards. Test your ability to reverse speak and pit yourselves against your friends and family.

## Ashmolean

Explore objects from the Ashmolean Museum. Discover more about innovation in the past through art and archaeology.

## Soldiers of Oxfordshire Museum

The Soldiers of Oxfordshire Museum is a Military Museum covering the connection between the Military in Oxfordshire and the County in which they are based. At the heart of the Museum will always be the rich histories of the two County Regiments; The Oxfordshire and Buckinghamshire Light Infantry and the Queens Own Oxfordshire Hussars in which Churchill served. Apart from the two county regiments, Oxfordshire has been and still is heavily populated by Military and has been for centuries. Our Aim is to tell the stories of these soldiers, their families, the county towns in which they lived or came from and the consequences of conflict on them and the County. At the festival we will be showcasing how military technology from the past has influenced the technologies of the future. You will get the opportunity to handle real artefacts from the First and Second World Wars and learn what it took to be a Spy in the Second World War SOE!

## Communicate Project

The Communicate Project CIC is a Community Interest Company interested in understanding the relationship between communication and expression, and their connection with concepts such as integration, inclusion and tolerance. By focusing on languages, drama

and the arts, we explore ways in which we communicate with others, and in which we understand and embrace the other by means of creating and expressing ourselves. Come to our stall at the Iris Festival of the Future, where we will take you back in time to help you "see" the future. Make some predictions for your life using the ancient art of numerology. Learn more about yourself by looking at ancient astrology. What are the horoscopes from different ancient cultures say about you and your future? Or give ancient Greek and Latin a go while you learn all about science, space travel and astronomy by understanding what the words we use for them actually mean!

## Creativity – Faculty of Linguistics, Philology and Phonetics

Learn how to improve your memory with techniques that go back to ancient Greece, and improve your creativity with a card game based on the occult systems of mediaeval monks and the brain scans of battle rappers. Dan Holloway is the 3 times Creative Thinking World Champion, a memory athlete, and the inventor of the card game Mycelium, which won the 2017 Oxford Humanities Innovation Challenge. He will show you how simple and fun techniques can give you the skills you need for the decades ahead.





### Oxford School of Architecture

Oxford School of Architecture – we prepare students for the future of the profession and to be effective in solving issues in the world and helping layers of elegance to emerge from society's spaces.

### Project Dastaan

We're a group of Oxford University students passionate about the intersection of VR and history. We reconnect Partition witnesses to their ancestral villages through the very latest in cutting edge technology. The vast majority of Partition witnesses have never had the ability to go back to their ancestral villages, despite widespread longing to see these villages again. Project Dastaan seeks to reconnect these displaced individuals with their childhoods, their ancestries and their heritage. We moreover believe that our project can sow the seeds of peace and mutual cooperation between the three countries of India, Pakistan and Bangladesh. Furthermore, virtual reality can help preserve historical spaces which would otherwise not be documented.

### East Oxford Primary School

East Oxford Primary School will be bringing their futuristic ideas to present at the Festival!

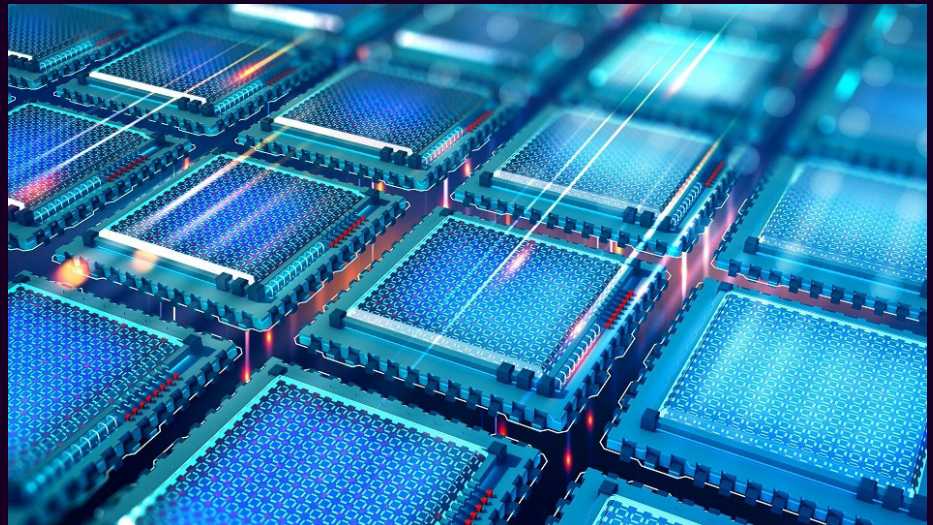
### OxPOCH

OxPOCH is a new research group at the University of Oxford all about transforming organisations' sustainability from the ground up. We're particularly focus on food and biodiversity, meaning we aim to change the way we eat in canteens and look after wildlife on our estates. We've created '4 Steps 4 The Earth' that everyone, from the public to CEOs can carry out to improve their sustainability. We'll be showing people how they can use our 4 Steps to eat more sustainably and how businesses and

homeowners can look after biodiversity. Pay us a visit to play some games about the environmental impact of your food and learn about our 4 Steps!

### Panoply Vase Animation Project

The Panoply Vase Animation Project makes animations from the scenes decorating real ancient Greek vases. Join us to watch some of our animations and to take part in drawing activities based on ancient vases and Greek mythology.





# Future Zone 3

## Welcome to the Environment Zone!

In our Environmental Zone, you can find:

### Conservation Optimism

Conservation Optimism is a global community dedicated to inspiring and empowering people around the world to make a positive difference for nature. Our mission is to amplify stories of optimism and to provide tools and resources to empower people from every walk of life to take action for conservation. Join us for an afternoon packed with fun activities! Get ready to learn how to make your own stop motion animation film and if you are brave enough put your wildlife knowledge to the test by challenging our team in a round of Heads Up.

### Chalky Chic Upcycling

Chalky Chic believes in sustainability, upcycling and can't abide waste. "Almost anything can be upcycled to give it a new purpose. Why live in mundane surroundings when you can make your home amazing and individual - and rescue something from the scrap heap at the same time?"

### New College School

New College School provides a number of activities for pupils that connect them with archaeology and museums. This year we have been particularly excited to have archaeologists working on our school site. We would like to share our experiences and invite you to join us in some activities based around artefacts.

### Rumble Cafe

Visit our futuristic food and drink café for a chance to rest your feet amidst all the time-travelling!

### Extinction Rebellion

Extinction Rebellion is a global environmental movement with the stated aim of using nonviolent civil disobedience to compel government action to avoid tipping points in the climate system, biodiversity loss, and the risk of social and ecological collapse.

### Oxford Student Climate Network and Parents for Future

We have been striking monthly for over a year, to raise awareness of the climate crisis and call on our government to act. UKSCN has also organised a hustings in Oxford West and Abingdon, and works regularly with Extinction Rebellion and Parents For Future. Parents For Future are "parents, grandparents, carers, guardians, step-parents, godparents, aunts, uncles and all who support the youth in their demands for a safe climate future." The Oxford group works closely with UKSCN, helping to involve younger children and parents in the Strikes.

### Rumble Museum Student Council with artist Jane King

The Rumble Museum Student Council has been working with local artist Jane King to create installations made out of rubbish to represent the Extinction Rebellion's Food and Farming Campaign. Come and see their installations and hear about their work both within and beyond the school.



### Oxford Low Carbon Hub

The Low Carbon is an Oxford-based community energy organization that has worked with schools and businesses such as Cheney School to build community-owned Solar arrays that provide clean electricity, savings to the school and community benefit funding to help further low carbon work across Oxfordshire. The main objective of the Hub is to show that we can meet the needs of climate change and energy production within our communities. This is why the Hub is part of Local Energy Oxfordshire (LEO) which is one of only 4 projects in the UK working to demonstrate how we can balance the growing numbers of renewables and increasing electricity demand locally and without the need for huge upgrades to our existing network.

### Parks College

Parks College is a new graduate college at the University of Oxford, with a focus on 21st century interdisciplinary research. Come see how we're preparing for the future by inspiring new ideas and collaborations to cure disease, save the environment, and develop new technologies to make everyone's lives better. Join us, and build a model of a virus, draw your vision of the future, and try out our VR headset to learn a new skill.



# Future Zone 4

## Welcome to the Science Fiction Zone!



In our Science Fiction Zone, you can find:

### Story Museum

Our vision is to enrich lives, especially young lives, through stories. Our mission is to achieve this by creating a most unusual museum that collects and shares great ways of engaging with great stories. Come and explore Star Wars at the Festival of the Future!

### Shakesbot: Can AI help us talk to the bard?

Researchers from Oxford University English Faculty, in collaboration with a local games studio, To Play For, have developed Shakesbot, a educational game which enables players to interact with Shakespeare's drama, and to chat online with characters as events unfold. In this session you can play a game in which you get to be part of the action. Help Macbeth decide whether to kill the king or believe the witches. With your input, anything might happen!

### Robot Art Trail

East Oxford Primary, Bayards Hill Primary, The Hospital School, Wood Farm Primary, St Joseph's Primary and Windmill Primary have all been decorating robots - visit their displays in the Library to see what they have produced!

### TORCH Comics network

The Oxford Comics Network is a research group based at the University of Oxford. We host events with scholars and practitioners to facilitate the wider study of comics. Our theme for Festival of the Future is 'The Shape of Things to Come: How the Past Imagined the Future', which will take as its focus the ways in which American comics of the early Cold War period, when confronted with the prospect of nuclear apocalypse, imagined the past, present, and future, and the relationship between the three.

## Bodleian Library

Future Past: What did our ancestors imagine our present would be like? How can these futures from the past help us to predict, and shape, the world our descendants will live in? Explore nineteenth century visions of the future, held in the collections of the Bodleian Libraries. From pneumatic post and food pills to undersea living and war in the Arctic, what were the hits and misses among these attempts to foretell the future? Discover how these predictions can give us a better understanding of the concerns of the past, and help us to shape the way that new technology will affect individuals and wider society. You may be inspired to write your own vision of the future!



# Our Speakers

Lord Robert Winston  
3.30 – 4.15pm



Lord Winston is Professor of Science and Society and Emeritus Professor of Fertility Studies at Imperial College London. In the 1970s he developed gynaecological surgical techniques that improved fertility treatments. He later pioneered new treatments to improve in vitro fertilisation (IVF) and developed pre-implantation diagnosis. This allowed embryos to be screened for genetic diseases and has allowed parents carrying faulty genes to have children free of illnesses such as cystic fibrosis. He now runs a research programme at the Institute of Reproductive and Developmental Biology at Imperial College that aims to improve human transplantation. Robert Winston has over 300 scientific publications about human reproduction and the early stages of pregnancy. Robert Winston is also Chairman of the Genesis Research Trust – a charity which raised over £13 million to establish the Institute of Reproductive and Developmental Biology and which now funds high quality research into women's health and babies.

Sparsh Ahuja  
4.30 – 5.00pm



Sparsh Ahuja is the Founder and Executive Director of Project Dastaan, an Oxford-based VR and oral history venture that seeks to reconnect individuals displaced during the 1947 Partition of India and Pakistan to their ancestral villages. He also co-founded a student leadership and empowerment initiative in Melbourne, Australia called Feel.Think.Flow, where he ran summits about Australian foreign policy to 200+ high school and university students. He worked as a summer associate last year at the Boston Consulting Group in London, and has more than 5 years in teaching experience across primary and secondary levels.

Sparsh is a FitzRandolph Scholar in Philosophy, Politics and Economics (PPE) at St Hilda's College, University of Oxford

Sophie Hackford  
5.15 – 5.45pm



Sophie Hackford is a futurist. She has given 160 provocative talks to boards and exec teams on novel science and tech. Clients come from every industry – Adobe, Bank of New York, DeepMind, EY, Vogue – although the best questions have so far come from audiences of schoolchildren. Sophie looks at how technologies change how we live, work, transact, love, by weaving together complex developments in quantum computing, AI, data, asteroid mining or virtual reality. She learns by visiting weirdos and troublemakers in labs, makerspaces, and garages around the world. Sophie co-founded 1715Labs: a spinout from Oxford University's Astrophysics Department, labelling data to train algorithms. She is on the board of two growth-stage startups. Sophie previously worked at WIRED Magazine, at Singularity University on the NASA Research Park in Silicon Valley, and Oxford University where she raised \$120m for frontier-bending research. Despite very real threats, Sophie is an optimist about the future. She is not on social media.

Mark Stevenson  
6 – 6.45pm



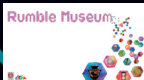
'Reluctant Futurist' Mark Stevenson is the author of two bestselling books, *An Optimist's Tour of the Future* and the award-winning *We Do Things Differently*.

He is one of the world's most respected thinkers on the interplay of technology and society, helping a diverse mix of clients that include government agencies, NGOs, corporates and arts organisations to become future literate and adapt their cultures and strategy to squarely face the questions the future is asking them.

He is also an occasional comedy writer with work performed on Radio 4. His first play, the farce *Octopus Soup* (co-authored with Jack Milner) tours the UK in Spring 2019. He is also one half of *The Futuronauts*.

His parents still have no idea what he does.





The Iris Festival is designed, organised and run by The Iris Project.

Working together with

