

WINTON SYMPOSIUM 2022
PROGRAMME



SUSTAINABLE FUTURES

NINTH ANNUAL ONE-DAY SYMPOSIUM
10 MARCH 2022 | CAVENDISH LABORATORY



THE WINTON PROGRAMME FOR THE

Physics of Sustainability

PROGRAMME

1000 to 1045

Registration and coffee
Pippard Lecture Theatre Foyer

1045 to 1100

Welcome



Professor Andy Parker
Head of the Department of Physics



Professor Sian Dutton
Director of the Winton Programme



SESSION I

Chair: Professor Sir Richard Friend
Department of Physics

1100 to 1145



Delivering Net Zero: the CCC view

Professor Dame Julia King
Chair of the Carbon Trust

1145 to 1230



Exploiting Flow Physics to Advance Wind Farm Control

Professor Dennice Gayme
Johns Hopkins University

1230 to 1330
Lunch, Poster Session



SESSION II

Chair: Professor Judith Driscoll
Department of Materials Science and Metallurgy

1330 to 1415



Net Zero: Some thoughts on the use of fossil fuels, biofuels and hydrogen with a dash of carbon capture

Professor Ian Metcalfe
Newcastle University

1415 to 1500



Superprotonic Solid Acid Compounds for Sustainable Energy Technologies

Professor Sossina Haile
Northwestern University

1500 to 1530
Tea, Pippard Foyer

SESSION III



Chair: Dr Chiara Ciccarelli
Harding Lecturer, Department of Physics

1530 to 1615



Ultrafast Magnetism and Cold Opto-Magnetic Recording at the Edge of Time

Professor Alexey Kimel
Radboud University

1615 to 1700



Capturing Sunlight to Power a Circular Economy

Professor Erwin Reisner
Yusuf Hamid Department of Chemistry

1700 to 1710

Closing Remarks

Sian Dutton, David Harding

1710 to 1810

Drinks reception, Pippard Foyer



THE WINTON PROGRAMME FOR THE

Physics of Sustainability

Please be aware that a photographer and filming team from or commissioned by the University of Cambridge will be taking photographs and filming the 2022 Winton Symposium. The photographs and films may be published, transmitted or broadcast in official University publications and in University publicity materials included in University and others' websites and social media. Should you have queries, please contact the event organiser, Dr Lata Sahonta at sls55@cam.ac.uk