



THE WINTON PROGRAMME FOR THE

Physics of Sustainability

Seventh Annual One-Day Symposium
1st November 2018
Cavendish Laboratory

MACHINES

From the cosmic to the nanoscale

PROFESSOR SHEILA ROWAN
*Director, Institute for Gravitational Research,
University of Glasgow*
Gravitational wave detectors:
precision measurement technologies and
their applications

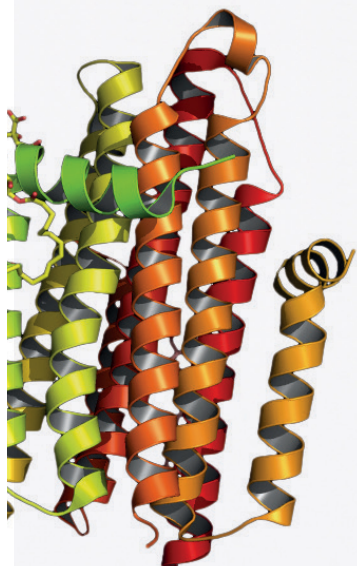
PROFESSOR ADRIAN THOMAS
*Professor of Biomechanics, Zoology Department,
University of Oxford, and Co-Founder and Chief
Scientific Officer of Animal Dynamics Ltd*
Taking inspiration from biomechanics to
engineering, dragonfly drones and other
bio-inspired vehicles

PROFESSOR MARK ALLEN
*Alfred Fittler Moore Professor, Electrical
and Systems Engineering and Mechanical
Engineering and Applied Mechanics, and
Director, Singh Center for Nanotechnology,
University of Pennsylvania*
Implantable Biomedical
Microelectromechanical Systems

PROFESSOR CARLOS BUSTAMANTE
*Raymond and Beverly Sackler Chair in
Biophysics; Howard Hughes Medical Institute
Investigator; Professor of Chemistry, Molecular
and Cell Biology, and Physics
University of California, Berkeley*
Power at the Nanoscale: Speed, Strength and
Efficiency in Biological Motors

PROFESSOR MARK KASEVICH
Professor of Physics, Stanford University
Atom Interferometry for Geodesy and
Fundamental Physics

PROFESSOR BARRIE MECROW
*Professor of Electrical Power,
Newcastle University*
Electrical machines: from Microwatts to
Gigawatts – the future challenges



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