

Would you like to hear more about our world-leading research? Then this event is for you!

09:30 - Welcome coffee - takes place on the Level 1 concourse of the Sir Alexander Fleming Building, South Kensington Campus

THE RESEARCH SHOWCASE (Location: G34, Sir Alexander Fleming Building, South Kensington)

Session 1: Department of Chemistry

10:00 - Professor Matt Fuchter | Using the combination of light and small molecules to reversibly control biology

10:20 - Dr Agnieszka Brandt-Talbot | The role of molecular design in developing strong sustainable carbon fibres from lignin

10:35 - Francesca Vianello | Computational characterization of protein interaction sites: from small ligand pockets to large domain interfaces

10:50 - Daniele Antermite | Catalytic Functionalisation of 'Inert' Carbon-Hydrogen Bonds in Heterocycles to Provide a Faster Route to New Medicines

11:05 - Tom Hopper | Probing ultrafast energy losses in Perovskite materials for solar energy conversion

11:20 - Coffee break

Session 2: Department of Mathematics & Centre for Environmental Policy

11:40 - Professor Emma McCoy | The Dangers of Observational Data

12:00 - Dr Alex Sing-Lam Tse | Some non-standard stochastic control problems and their economic applications

12:15 - Thiago Hector Kanashiro Uehara | Deepening vulnerabilities and inequalities: A Political economy analysis of the impacts of austerity for the Amazonian family farmer

12:30 - Tarik Altuncu | How graphs and machine learning can help us cluster documents according to their content in an unsupervised manner

12:45 - Paul Mannix | Understanding the dynamics of subsurface oceans in icy moons

LUNCH & POSTER SESSION 13:00 - (Location: Level 1 concourse and B120-122 of the Sir Alexander Fleming Building, South Kensington)

Session 3: Department of Physics

14:00 - Professor Lesley Cohen | Antiferromagnets for Spintronics

14:20 - Dr Paula Alvarez Cartelle | Searching for New Physics at the Large Hadron Collider

14:35 - Sinead O'Brien | An investigation into how humans and machine systems understand and summarize technical knowledge

14:50 - Felix Kress | Rare particle decays; A path to explore Physics beyond the Standard Model?

15:05 - Stav Zalel | Grains of Spacetime: the Causal Set approach to Quantum Gravity

15:20 - Coffee break

Session 4: Department of Life Sciences

15:40 - Professor Robert Endres | Where physics meets biology: insights from data-driven modelling

16:00 - Dr Andrew Hammond | Gene drives for genetic control of the malaria mosquito

16:15 - Cian Duggan | Investigating the plant innate immune system to generate disease resistant crops

16:30 - Sophie Howard | The *Pseudomonas aeruginosa* type VI secretion system: a gun loaded with toxins

16:45 - Ralf Wenz | Zebrafish - a window into the evolution of intestinal neuro-immunology

PANEL & POSTER SESSIONS (Location: B120-122, Sir Alexander Fleming Building, South Kensington)

17:00 - Drinks reception

17:15 - Expert panel session: **The Plastic Challenge: Sustainable Interventions for a Healthy Planet**

Panel members: Dr Arturo Castillo Castillo (Centre for Environmental Policy), Dr Charles Romain (Chemistry) and Professor Alex Porter (Materials)

17:45 - Poster session 2 and prizes awarded (join us for canapes and drinks)

Amazing prizes for the best talk and poster will be awarded! To register please visit: bit.ly/2V9KlTe