

# Research Fellows Conference 2016

Monday 21 – Tuesday 22 March 2016

## Day 1

1.30pm	<b>Registration</b>
2.00pm	<b>Welcome Address</b> Professor Antony Cheetham
	<b>Plenary Session 1</b> Chair: Dr Gavin Morley  <b>Dr Holly Bridge</b> University Research Fellowship, University of Oxford <i>Understanding the human 'visual' system when there is no input from the eyes</i>  <b>Dr Tim Rogers</b> University Research Fellowship, University of Bath <i>Risk and vulnerability in epidemics on networks</i>
3.00pm	<b>Coffee Break</b>
3.30pm	<b>Plenary Session 2</b> Chair: Sir John Skehel  <b>Dr Paula Alexandre</b> Dorothy Hodgkin Fellowship, UCL Institute of Child Health <i>Neurons line dancing in the brain</i>  <b>Dr Gonçalo Bernardes</b> University Research Fellowship, University of Cambridge <i>Chemistry on proteins for basic biology and targeted therapeutics</i>
4.30pm	<b>Flash-Poster Networking Hour</b> Flash Poster presentations followed by coffee and networking
5.30pm	<b>Alumni 'Lessons learned' Panel</b> 10 min talks, 20 mins Q&A Professor Polina Bayvel FEng, <i>Chair</i> Professor Russell Morris Professor Rebecca Kilner Professor Simon McQueen-Mason
6.30pm	<b>Drinks reception followed by buffet dinner</b>
8.30pm	<b>End</b>

Day 2

9.00am	<b>Registration</b>	
9.15am	<b>Flash-Poster Networking Hour</b> Flash Poster presentations followed by coffee and networking	
10.15am	<p><b>Plenary Session 3</b> Chair: Dr Steven Spoel</p> <p><b>Dr Brian Patton</b> University Research Fellowship, Oxford University <i>Super-resolution, synapses and sparkle - how diamond could help us observe thoughts</i></p> <p><b>Dr Sebastian Schornack</b> University Research Fellowship, University of Cambridge <i>The Janus-faced interaction of plants and microbes</i></p>	
11.15am	<b>Coffee break</b>	
11.30am	<b>Parallel Session 1</b>	
	<p><b>Extremes</b> Chair: Dr Lotte Hollands</p> <p><b>Dr Christoph Salzmann</b> University College London University Research Fellowship <i>The many facets of ice research</i></p> <p><b>Professor Nicholas Smith</b> National Nuclear Laboratory Industry Fellowship <i>Shining a light on the unknown: laser characterisation in extreme industrial locations</i></p> <p><b>Dr Vasilis Archontis</b> Mathematical Institute University Research Fellowship <i>Our explosive Sun: from small flares to extreme eruptions</i></p> <p><b>Dr Xavier Moya</b> University of Cambridge University Research Fellowship <i>Cool under pressure</i></p>	<p><b>Science of the small</b> Chair: Dr James Harker</p> <p><b>Dr Toby Cubitt</b> UCL University Research Fellowship <i>Fundamental quantum physics problem proved unsolvable</i></p> <p><b>Dr David Mulryne</b> Queen Mary University of London University Research Fellowship <i>Calculating properties of the very early universe</i></p> <p><b>Dr Ainhua Mielgo Iza</b> University of Liverpool Sir Henry Dale Fellowship <i>Hope for pancreatic cancer</i></p> <p><b>Dr Cecilia Mattevi</b> Imperial College London University Research Fellowship <i>Mesoscale design of multifunctional 3D graphene networks</i></p>
12.30pm	<b>Lunch</b>	

1.15pm	<b>Parallel Session 2</b>	
	<p><b>Coping with Multiscale Challenges</b> Chair: Dr Patricia Sanchez-Baracaldo</p> <p><b>Dr Robert Crain</b> Liverpool John Moores University University Research Fellowship <i>The cosmos in a computer</i></p> <p><b>Professor Andrew Randall</b> University of Exeter Industry Fellowship <i>Disease-associated decline in cognitive function: studies on multiple scales</i></p> <p><b>Professor Nicholas Graham</b> Lancaster University University Research Fellowship <i>Coral reef futures under climate change</i></p> <p><b>Dr Katharine Hendry</b> University of Bristol University Research Fellowship <i>From tubes of mud to the whole world: scaling climate archives to global systems</i></p>	<p><b>Networks</b> Chair: Dr Charlotte Stagg</p> <p><b>Dr Nathan Griffiths</b> University of Warwick Industry Fellowship <i>The Intelligent Car</i></p> <p><b>Dr Benjamin Hall</b> University of Cambridge University Research Fellowship <i>Understanding the decision making processes of cancer using hybrid models</i></p> <p><b>Dr Josh Nunn</b> University of Oxford University Research Fellowship <i>Atoms and photons talking: a path to quantum technologies</i></p> <p><b>Dr Gerben van Ooijen</b> University of Edinburgh University Research Fellowship <i>Biological clocks in single cells</i></p>
2.15pm	<b>Coffee break</b>	
2.35pm	<p><b>Plenary Session 4</b> Chair: Dr Rosalind Coggon</p> <p><b>Dr Nathalie Vriend</b> Dorothy Hodgkin Fellowship, University of Cambridge <i>What lies beneath a desert sand dune?</i></p> <p><b>Dr Sam Vinko</b> University Research Fellowship, University of Oxford <i>Exploring matter in extreme conditions with bright X-ray Free-Electron Lasers</i></p> <p><b>Dr Janet Deane</b> University Research Fellowship, University of Cambridge <i>Understanding nerve degeneration at an atomic level</i></p>	
3.50pm	<b>Coffee break</b>	
4.10pm	<p><b>Keynote address</b> Professor Janet Hemmingway FRS Followed by closing remarks from Sir Venki Ramakrishnan, President of the Royal Society</p>	
5.00pm	<b>End</b>	

