



Considering an academic or non-academic career route?  
Wondering where your qualifications can take you?  
What will my next position be?  
What are my options?



# Early Career Scientist Symposium

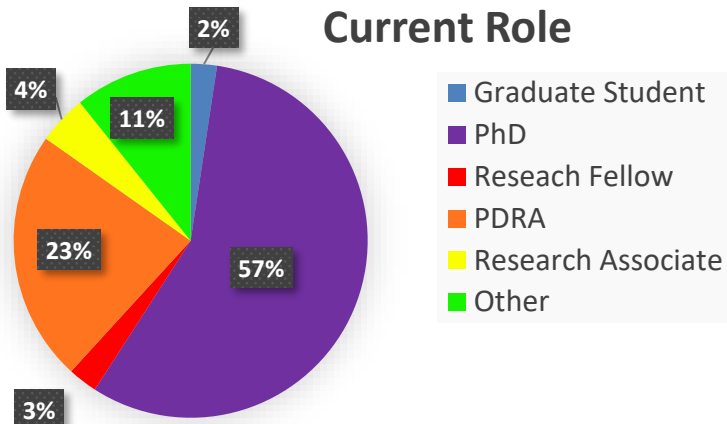
Monday 26th to Friday 30th October 2020

visit: [www.diamond.ac.uk/Home/Events/2020/Career-Symposium](http://www.diamond.ac.uk/Home/Events/2020/Career-Symposium)



# Registration Survey Results

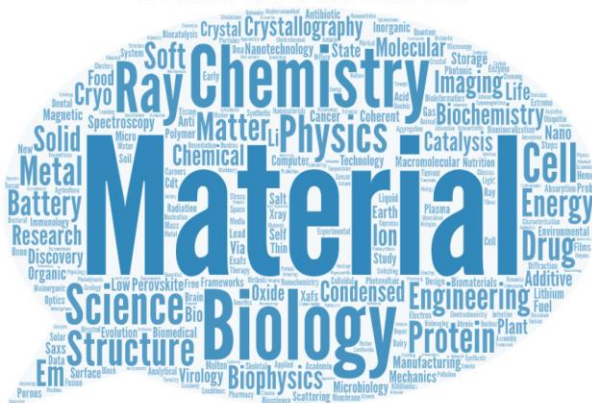
## Current Role



## Organisation



## Field of research



# Welcome

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Welcome to the annual careers' symposium for young and early career scientists, hosted by the postdoc committee at Diamond Light Source.

Diamond Light Source is the UK's national synchrotron science facility, focussed on harnessing the power of electrons to study a vast range of subject matter, from fossils and jet engines to viruses and vaccines. Over 7000 researchers from both academia and industry use Diamond to conduct experiments, assisted by over 500 staff. Within Diamond's staff there are over 60 fixed term post-doctoral research associates and PhD students, who are represented by the Diamond postdoc committee.

The education, training and expertise of these groups of scientists are major assets that open a large number of possible career opportunities. The Symposium has been designed to showcase a diverse set of career paths across academia and various industries. We want to encourage knowledge and experience transfer from advanced professionals to early career scientists to show the breadth of opportunities open to them and help our colleagues efficiently direct their future careers. This year due to the current situation caused by the COVID-19, the event will be on Zoom. We hope you find the discussions useful and use the time to reflect on your future career.

## Organising Committee

*Fanny Costa*

*Iuliia Mikulska*

*David Burn*

*Razan Aboljadayel*

*Toby Robson*



***Program - Monday, 26<sup>th</sup> October******(British Summer Time/UTC+1:00)***

<b>From</b>	<b>To</b>	<b>Session</b>	<b>Where</b>
<b>10:00</b>	<b>10:10</b>	<b>Welcome by Organising Committee</b>	<i>Zoom</i>
<b>10:10</b>	<b>10:45</b>	<b>Laurent Chapon</b> – Director of Physical Sciences at Diamond Light Source (UK)	<i>Zoom</i>
<b>10:50</b>	<b>12:00</b>	<b>1 to 1 Networking session</b>	<i>Meeting Mojo</i>
<b>14:00</b>	<b>14:35</b>	<b>Elsbeth Garman</b> – Professor of Molecular Biophysics at Oxford University and former President of the British Crystallographic Association (UK)	<i>Zoom</i>
<b>14:35</b>	<b>15:00</b>	<b>The importance of Science Communication</b>	<i>Zoom</i>
<b>15:05</b>	<b>16:15</b>	<b>Group Networking Session</b>	<i>Zoom</i>

**Program - Tuesday, 27<sup>th</sup> October***(British Summer Time/UTC+1:00)*

<b>From</b>	<b>To</b>	<b>Session</b>	<b>Where</b>
<b>10:00</b>	<b>10:35</b>	<b>Angelo Di Bernardo</b> – Associate Professor and a Sofja Kovalevskaja research group leader at the University of Konstanz (Germany)	<i>Zoom</i>
<b>10:40</b>	<b>12:00</b>	<b>1 to 1 Networking session</b>	<i>Meeting Mojo</i>
<b>14:00</b>	<b>14:35</b>	<b>Kay Reynolds</b> – Organisational Development Manager at Diamond Light Source (UK) <b>Resilience and Flexibility for Growth</b>	<i>Zoom</i>
<b>14:40</b>		<b>Explore Diamond Light Source</b>	<i>Zoom</i>

**Program – Wednesday, 28<sup>th</sup> October****(British Summer Time/UTC+1:00)**

<b>From</b>	<b>To</b>	<b>Session</b>	<b>Where</b>
<b>10:00</b>	<b>10:35</b>	<b>Helen Blade</b> – Associate Principal Scientist in Structural Science at Astra Zeneca (UK)	<i>Zoom</i>
<b>10:40</b>	<b>12:00</b>	<b>1 to 1 Networking session</b>	<i>Meeting Mojo</i>
<b>14:00</b>	<b>14:35</b>	<b>Eleanor Schofield</b> – Head of Conservation & Collections Care at the Mary Rose Trust and Professor at the University of Kent (UK)	<i>Zoom</i>
<b>14:40</b>	<b>15:00</b>	<b>Tabata Amaral</b> – Brazilian Politician, Congresswoman and Education Activist (Brazil)	<i>Zoom</i>
<b>18:00</b>	<b>19:00</b>	<b>Quiz Night</b>	<i>Zoom</i>

**Program - Thursday, 29<sup>th</sup> October***(British Summer Time/UTC+1:00)*

<b>From</b>	<b>To</b>	<b>Session</b>	<b>Where</b>
<b>10:00</b>	<b>10:35</b>	<b>Matts Björk – Scientist at FOI (Sweden)</b>	<i>Zoom</i>
<b>10:40</b>	<b>12:00</b>	<b>1 to 1 Networking session</b>	<i>Meeting Mojo</i>
<b>14:00</b>	<b>14:35</b>	<b>Iztok Arčon – Professor in the field of Physics and Dean of Graduate school at the University of Nova Gorica (Slovenia)</b>	<i>Zoom</i>
<b>14:40</b>	<b>15:40</b>	<b>Group Networking Session</b>	<i>Zoom</i>

**Program - Friday, 30<sup>th</sup> October***(British Summer Time/UTC+1:00)*

<b>From</b>	<b>To</b>	<b>Session</b>	<b>Where</b>
<b>14:00</b>	<b>14:15</b>	<b>Summary of the week</b>	<i>Zoom</i>
<b>14:15</b>	<b>14:45</b>	<b>Round table discussion with speakers</b>	<i>Zoom</i>
<b>14:45</b>	<b>15:30</b>	<b>Speakers Q&amp;A</b>	<i>Zoom</i>

## Speakers



### **Laurent Chapon – Director of Physical Sciences at Diamond Light Source (UK)**

Laurent received his PhD in materials science from the University of Montpellier, France in 2000. He then joined the materials science division of Argonne National Laboratory (USA) in 2001 as a PDRA, and the Hahn Meitner Institute in Berlin, Germany in 2002. From 2002 to 2011, he worked at the ISIS Facility (STFC) first as an instrument scientist, then group leader for crystallography and engineering. He joined the Institut Laue Langevin in Grenoble, France (2011-2016) as a senior fellow and then head of diffraction before joining Diamond in 2016 as director of Physical Sciences. Laurent has been conducting research in condensed matter physics, initially on thermoelectrics, molecule-based magnets, and then on complex magnetic materials such as multiferroics, frustrated magnetic systems and iridates. Laurent uses primarily neutron and X-ray scattering techniques to determine the magnetic states and excitations in these system.



### **Elspeth Garman – Professor of Molecular Biophysics at Oxford University and former President of the British Crystallographic Association (UK)**

Elspeth Garman is Professor of Molecular Biophysics at Oxford University. She started her working life aged 18 as a volunteer teacher in Swaziland, Southern Africa. Following a degree in Physics at Durham University, she did a D.Phil (PhD) in Experimental Nuclear Structure Physics at Oxford. After 7 years as a Nuclear Physics Research Officer and Physics Tutor, she changed fields to protein crystallography. Her main research interests are in improving methods for finding the three-dimensional shapes of medically important biological molecules so that larger and more complicated structures can be determined, and disease pathways can be understood at a molecular level. She was President of the British Crystallographic Association 2009-2012 and Director of the Life Sciences Interface and then Systems Biology EPSRC Doctoral Training Centres at Oxford from 2009-2014.





### **Angelo Di Bernardo – Group Leader at the Department of Physics of the University of Konstanz (Germany)**

Prof. Angelo Di Bernardo is an Associate Professor and a Sofja Kovalevskaja research group leader at the University of Konstanz. He earned a B.Sc. (2008) and a M.Sc. (2011) in Bioengineering from the University of Naples, Italy. After that he switched to studying Quantum Physics and Nanoscience, first as a Fulbright scholar at the Arizona State University (M.Sc., 2012) and then as a Master's student and Ph.D. student in Nanoscience and Materials Science at University of Cambridge. He got his Ph.D. from the University of Cambridge (2016), which was followed by a Research Fellowship at St John's College, Cambridge, which he was awarded to carry out research work as an independent investigator (2016-2019). His research focuses on superconductor/ferromagnet devices for superconducting spintronics, and his fields of expertise include materials growth and synthesis, device nanofabrication, low-temperature transport, superconductivity and magnetism, spectroscopy techniques (muon spectroscopy, X-ray magnetic circular dichroism, STM). To date, he has co-authored 21 scientific publications, given 40 invited talks and been awarded several prizes for his academic achievements including: IEEE Council on Superconductivity Fellowship Award (2015), Junior Research Fellowship, St John's College (2016), ESAS prize for young researchers (2017), Institute of Physics Brian Pippard Prize (2018) and Sofja Kovalevskaja award (2019).



### **Kay Reynolds – Organisational Development Manager at Diamond Light Source (UK)**

She has a Human Resources (HR) and Learning & Development background in scientific and medical public sector organisations. Kay's passion is the continual development and growth of individuals and organisations, putting the people first and making the best use of talent. To be most effective, employees need a range of skills – professional and technical knowledge and ability alone is not enough. Her short talk will touch on some of the softer, but in her opinion, crucial skills needed to succeed in your career.



**Eleanor Schofield - Head of Conservation & Collections Care at the Mary Rose Trust and Professor at the University of Kent (UK)**

Prof. Eleanor Schofield is the Head of Conservation and Collections Care at the Mary Rose Trust. After completing her PhD in Materials Science at Imperial College London in 2006, she completed

research posts at Stanford Synchrotron Radiation Laboratory and the University of Kent. She joined the Mary Rose Trust in 2012 and is now responsible for the conservation of the Mary Rose hull and associated artefacts, the care and management of the collection and research into novel conservation treatments and characterisation methods.



**Helen Blade - Associate Principal Scientist in Structural Science at AstraZeneca (UK)**

Dr Helen Blade graduated from Liverpool University with a PhD under Prof. Matt Rosseinsky in the field of functional materials, linking the crystal structure of a material to its properties. As an associate principal scientist (structural science) working in AstraZeneca, Macclesfield since 2008, She has continued to work in this field and has recently been leading the establishment of crystal structure assessment to

predict and explain the properties of pharmaceutical materials.



**Tabata Amaral – Brazilian Politician, Congresswoman and Education Activist (Brazil)**

Tabata Amaral is 26 years old and was the 6<sup>th</sup> most voted House Representative of the state of Sao Paulo, elected with 264,450 votes. Raised in Vila Missionaria, on the outskirts of Sao Paulo, she won several science Olympics and won a scholarship to attend a private high school. She was accepted to Harvard University with a full scholarship and graduated in Political

Science and Astrophysics. Since then, she has dedicated herself to education policy. She co-founded the Education Map and the Acredito Movement. As a member of parliament, her main agendas are education, women's rights, political innovation and sustainable futures.



**Matts Björk – Scientist at FOI (Sweden)**

Matts Björk did his PhD at Uppsala University and after searching for a post doc position he ended up at Swiss Light Source in Switzerland. After two years as a post doc Matts got a position at MAX-lab in Lund and after that as an assistant professor at Uppsala University. Then he decided to go into industry, changing fields altogether, and started at Swedish Nuclear Waste Company (SKB) working with Friction

Stir Welding. Later Matts became manager for the Canister Lab at SKB. After seven year at SKB he missed science and started at the Swedish Defence Research Agency last year.

In his talk Matts will try to reflect over his career parts and the decisions that he has taken which to some parts have been driven by the important work-life-family balance. Matts will also try to cover some of the differences between working at universities, industries and research institutes.



**Iztok Arčon – Professor in the field of Physics and dean of Graduate school at the University of Nova Gorica (Slovenia)**

Prof. dr. Iztok Arčon is full professor for the field of physics, employed at the University of Nova Gorica, in the Laboratory for quantum optics, and holding a position of the dean of Graduate school. His main research field is analysis of atomic and molecular structure of new functional materials (different catalysts and photocatalysts, cathode materials for Li-ion, Li-sulphur and Mg-sulphur batteries, ferroelectric and ferromagnetic ceramics, ...) and analysis of environmental pollution (soil, water and plants) with X-ray absorption spectroscopy with synchrotron radiation (methods XANES, EXAFS). He performed in-situ XAS analysis of different (photo)catalytic materials for water cleaning and catalysts for other technological process, which revealed the active sites during the photo and thermo catalytic reactions and explained the mechanisms responsible for optimal performance of the catalysts. He used operando XAS analysis of different cathodes materials for Li-ion, and Li- and Mg-Sulphur batteries to monitor the changes of valence and local structure of metal cations or sulphur in the cathode material during battery operation, which revealed the electrochemical mechanisms responsible for battery operation. He performed experiments at different European synchrotron radiation laboratories (DESY, Hamburg; Elettra, Trieste; ESRF, Grenoble; Alba in Barcelona; Soleil, and previously Lure, Paris). He published with co-authors more than 180 scientific papers in reviews with high impact factor and his work is highly cited (over 2660 citations). In 2006 he received Slovenian state “Zois award” for outstanding achievements in the field of X-ray absorption spectroscopy, and in 2020 Pregl Award of the National institute of Chemistry for Exceptional Achievements in the field of chemistry and related disciplines.

# Thank you

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We would like to thank everyone who has played a role in making this Symposium possible. From the Directors of Physical and Life Sciences for their willingness to fund the symposium, to the lovely people in Communications who have helped us with the actuality of putting on an event. We are also grateful to the speakers for preparing presentations and talks about topics that aren't usually the main focus; and to the exhibitors for presenting interesting job opportunities to our attendees. And thank you for attending and making the symposium a success!

- The Organizing Committee