

Finding Your Future

SUPA Careers 2021



Schedule

Monday, 15th February

1 – 1:30 pm Focus on Your Strengths

Dr Jonathon Keeling

Director of Post-Graduate Studies in Physics, St. Andrews

Prof. Victoria Martin

SUPA Theme Leader, University of Edinburgh

1:30 – 2 pm Scottish Funding Council



Dr Stuart Fancey

Director of Research and Innovation, Scottish Funding Council

Stuart is a graduate of the University of St Andrews (BSc) and Heriot Watt University (MSc and PhD), all in Physics. His career has taken him to IBM in Hampshire, to Germany with a Marie Curie Fellowship, and to Livingstone to help set up Helia Photonics. Since 2005 Stuart has worked for the Scottish Funding Council, latterly as Director of Research and Innovation. Whilst with SFC, Stuart has helped create the Research Pools and the Innovation Centres. His team is currently working to secure our world-leading research base for the long term in a changing and challenging environment. Dr Fancey is a Fellow of the Institute of Physics and of the Royal Society of Arts.

2 – 2:30 pm Coherent Lasers



Ian MacGillivray

Development Engineering Manager

Ian MacGillivray joined Coherent Scotland in 2001 and currently works as an Engineering Manager within the R&D department with responsibility for end to end development of new laser products. He particularly specialises in solid state and fibre ultrafast lasers along with frequency conversion techniques in this regime. Ian has overseen the development of multiple complex laser products, particularly within the highly successful Chameleon family of femtosecond tunable lasers designed for biological imaging.

Tuesday, 16th February

1:30 – 2pm Leonardo

Dr. Ian Thomson
Principle Laser Engineer



2 – 2:30 pm M Squared Lasers



James Bain

Programme Manager, Innovation Business Unit, MSquared Lasers

Dr James Bain is an Innovation Programme Manager in the Innovation Unit at M Squared. He gained his first degree in Physics from the University of St Andrews in 2006 and a Masters in 2007 from the Georgia Institute of Technology in Atlanta before undertaking his industrial doctorate project and short post-doc with Rolls-Royce plc and the University of Strathclyde. Since joining the Innovation Team at M Squared Lasers in 2013 he has had technical, strategic and project management related oversight of an extensive portfolio of collaborative research and development projects.

Wednesday, 17th February

1:30 – 2pm National Physics Laboratory



Elsje Van Es

Higher Research Scientist, NPL

Dr Elsje Van Es is an early career scientist working as a Higher Research Scientist in the Nuclear Metrology group at the National Physical Laboratory (NPL), Teddington, London. She completed an MChem in 2014 at Loughborough University specialising in radiochemistry. From there, she continued to work with her Master's programme supervisor as a PhD student affiliated with NPL. She completed her PhD on-site at NPL and naturally transitioned into a full-time researcher role. NPL is the UK's national metrology institute, and its focus is on developing and applying measurement standards, science and technology to support industry. As part of the Nuclear Metrology group, Elsje helps maintain and develop new radioactivity standards that are used for environmental monitoring, nuclear decommissioning, and medical radiation industries.

2 – 2:30 pm University of Glasgow



University
of Glasgow

Dr Euan McBrearty

Research Fellow, University of
Glasgow

Euan has worked in the Photonics and Space sectors for over 20 years. He has a degree in Applied Physics and a Ph.D. in Advanced Materials. Over the course of two decades, he has had a varied and interesting career working for DERA & QinetiQ, Helia Photonics, Clyde Space and the University of Glasgow. At the University of Glasgow, he is a Research Fellow researching narrow linewidth semiconductor lasers for atom cooling within the UK Quantum Technology Hub for Sensors and Timing.

Thursday, 18th February

1:30 – 2pm Canon Medical



Dr Ewan Hemingway

Scientist, Image and Analysis Group, Canon Medical Research Europe

I first studied physics at Edinburgh University for the Computational Physics MPhys degree. I was interested in acoustics at the time and my Masters project looked at numerical modelling of guitar value amplifiers. However, one of the 5th year elective courses that really grabbed my attention was a series on soft matter physics, and this prompted me to pursue PhD opportunities. Following a recommendation, I joined an EPSRC-funded PhD in the Physics department at Durham University. There I worked on a wide variety of problems in computational fluid dynamics, several in the area of active matter (the study of living fluids). I was also lucky to gain some industrial experience through a consultation / research project with Schlumberger, an oilfield services provider. After my PhD, I stayed in Durham for two more years as a post-doc, where I focused on modelling flow instabilities in polymer physics. I joined Canon as a scientist in the Image Analysis group where I've worked for about 2 years. During this time I have worked on a range of interesting problems, e.g., using deep learning for image segmentation.

2 – 2:30 pm National Health Service



Dr Pauline Hall Barrientos PhD MSc CSci MIPEM
Clinical Scientist

After completing my PhD in Hadronic Physics (2012) at the University of Edinburgh I was accepted onto the Scottish Clinical Scientist Training scheme in Glasgow. I successfully registered as a Clinical Scientist in 2016, specialising in MRI physics. My work will vary day-to-day with responsibilities including: quality control of MR images, development of safety policies and frameworks for staff and patients, clinical reporting of quantitative MRI scans, development and optimisation of clinical protocols, teaching and training for students, trainees and radiographers, an active role in research and development and translation of research techniques into clinical practice.

Friday, 19th February

1:30 – 2pm Knowledge Transfer Network



Matthew Wasley

Knowledge Transfer Manager, Photonics

I started my career as a defence scientist in what later became QinetiQ, moving from science to project management and business development. I worked briefly for an organisation called the Defence Diversification Agency transferring defence technology for commercial civilian applications, before moving to a knowledge transfer role at the University of Birmingham. I then moved to Scotland and SUPA, working on knowledge exchange in a broad sense including public outreach as well as more traditional commercial activity. Since 2016 I've been part of the Enabling Technologies team at KTN, looking particularly at photonics. Here I help companies to grow by developing collaborations, supporting the innovation process, and enabling access to funding and finance.

2 – 2:30 pm Marks and Clerk



Kate Adamson

Patent Attorney, Marks & Clerk

Kate is a chartered (UK) and European attorney at Marks & Clerk, one of the world's leading patent and trade mark attorney firms. She works on a wide range of patent cases in physics, electronics and engineering, including medical imaging, medical devices, signal processing, renewables, telecoms and computer-implemented inventions. Before retraining as a patent attorney in her mid-30s, she was an antenna scientist/engineer in the defence and telecoms industry. She has a MSci in theoretical physics from St Andrews and a PhD in high-energy particle physics from Durham.

For more information on becoming a patent attorney, see:

<https://www.marks-clerk.com/Home/About-Us/Careers/Training-to-be-a-Patent-Attorney.aspx>(link is external)

<http://careersinideas.org.uk/>(link is external)

<https://www.ipcareers.co.uk/>

Monday, 22nd February

1:30 – 2pm Physics World, Institute of Physics



Dr Margaret Harris

Industry Editor

Dr. Margaret Harris is an online editor at Physics World, the international monthly magazine published by the Institute of Physics. She joined Physics World in 2008, initially as its reviews and careers editor, and went on to spend three years as industry editor before moving into her present role, which involves writing and editing news stories for the magazine's website. Before becoming a science journalist, she earned a PhD in experimental atomic physics at Durham University.

2 – 2:30 pm Freelance Communicator



Jamie Gallagher

Engagement Professional

Jamie is an award-winning freelance communicator and engagement professional with ten years' experience in the delivery and evaluation of quality engagement projects. Working across dozens of institutions and subject areas he has helped improve the reach, profile and impact of research engagement in almost every discipline. As a science communicator Jamie has appeared regularly on TV and radio, written a book and appeared on stages around the world. www.jamiebgall.co.uk @jamiebgall

Tuesday, 23rd February

1:30 – 2pm The Common Weal



Dr Craig Dalzell
Head of Policy & Research



Dr Craig Dalzell spent nine years at the University of Strathclyde studying an MSci in Laser Physics and Optoelectronics and then later a PhD in non-linear optical fibre sensors, finally leaving in 2011. He then spent a few years working in a couple of Glasgow's laser production companies and through that had the opportunity to visit a great many airports, taxis, hotels and laser labs in some of the world's most beautiful cities as he travelled to install and repair lasers. This came to an abrupt end at the tail end of 2015 but through a strange series of events over the course of the following year he found himself working in the world of politics and lobbying through the "think and do tank" Common Weal where he is now their Head of Policy & Research.

2 – 2:30 pm QuantIC

Sara Diegoli
QuantIC Associate Director

Wednesday, 24th February

1:30 – 2pm Education Scotland



Ian Menzies

Senior Education Officer

After gaining his Honours Degree in Laser Physics and Optoelectronics from Strathclyde University, Ian Menzies trained as a Physics and Maths Teacher and spent time teaching in Zambia and Malawi as well as Scotland. Following his time in Africa, Ian coordinated the educational programmes for one of Scotland's leading international aid and development agencies. He is now a Senior Education Officer within Education Scotland, the executive agency of the Scottish Government which has responsibility for quality and improvement in Scottish Education. Ian's remit includes lead responsibility for the science curriculum for 3-18 year olds and the promotion of learning for sustainability across the curriculum. Within Education Scotland, he also leads on the implementation of the national STEM Education and Training Strategy.

2 – 2:30 pm Lockerbie Academy

Jennie Hargreaves

Physics Teacher and Freelance IoPS Coach

Thursday, 25th February

1:30 – 2pm Scania



Dr Patrik Hallsjö

Product Owner, Autonomous Logging

Patrik Hallsjö is a former PhD researcher from the University of Glasgow. Before and during his time here he was heavily involved in software development and machine learning. After his graduation he has developed further in these areas and is currently working as (consultant) product owner for one of Europe's largest autonomous vehicle manufacturers.

2 – 2:30 pm Senior Data Scientist, Tessella



Tessella
•ALTRAN GROUP

Ana Andres-Arroyo

Ana studied undergraduate physics at the University of Zaragoza, then did a physics PhD on the topic of optical tweezers at the University of New South Wales, followed by a postdoc at the University of Cambridge. During her time in academia, Ana used programming languages such as Python, Matlab, and LabView to collect data in the lab and also analyse the data. She now works for Tessella as a data science consultant, where she combines her scientific background with her programming knowledge, to solve real-world problems for clients.

Friday, 26th February

1:30 – 2:30 pm Social hour on Gather Town

For Further Information go to My.SUPA:

<https://my.supa.ac.uk/course/view.php?id=141>