



2018 SUPA International Advisory Committee Meeting

09:00	Registration: Tea/Coffee	
09:30	Welcome:	Alan Miller, SUPA CEO Richard Williams, Principal & VC, Heriot Watt University
09:40	Introduction:	Malcolm Longair, Chair, SUPA IAC
09:55	Research Pooling:	Stuart Fancey, Director of Research & Innovation, SFC
10:10	SUPA Overview:	Alan Miller, SUPA CEO
10:30	<i>Tea, Coffee and Refreshments</i>	
10:45	Research Themes:	
10:45	<i>Astronomy and Space Sciences:</i>	Ken Rice
10:53	<i>Condensed Matter and Materials Science:</i>	Ian Galbraith
11:01	Nuclear and Plasma Physics:	David Ireland
11:09	Photonics:	Jennifer Hastie
11:17	Particle Physics:	Ben Wynne
11:25	Energy:	David French
11:33	Physics and Life Sciences:	Cait MacPhee
11:45	Graduate School:	Dawn Beddard, Vicky Ingram, Sean Farrell
12:15	<i>Lunch</i>	
12:45	Lunch and Round table discussions	
13:30	Round table discussions: Feedback	
13:45	IAC Closed Session	
14:15	IAC Feedback and Recommendations	
15:00	<i>Close of Meeting</i>	

The SUPA Team of 2018

CEO & Director of Graduate School:

Prof Alan Miller (0.5FTE): : alan.miller@supa.ac.uk



Graduate School Coordinators:

Dr Dawn Beddard (0.5FTE): dawn.beddard@supa.ac.uk

Dr Vicky Ingram (0.5FTE): vicky.ingarm@supa.ac.uk



E-Learning Technologist:


Sean Farrell (0.5FTE) s.j.farrell@hw.ac.uk



Admin Support Team:

Jean Greig (0.4FTE), Marjory Walker (0.6FTE), Jamie McIntyre (1.0FTE)

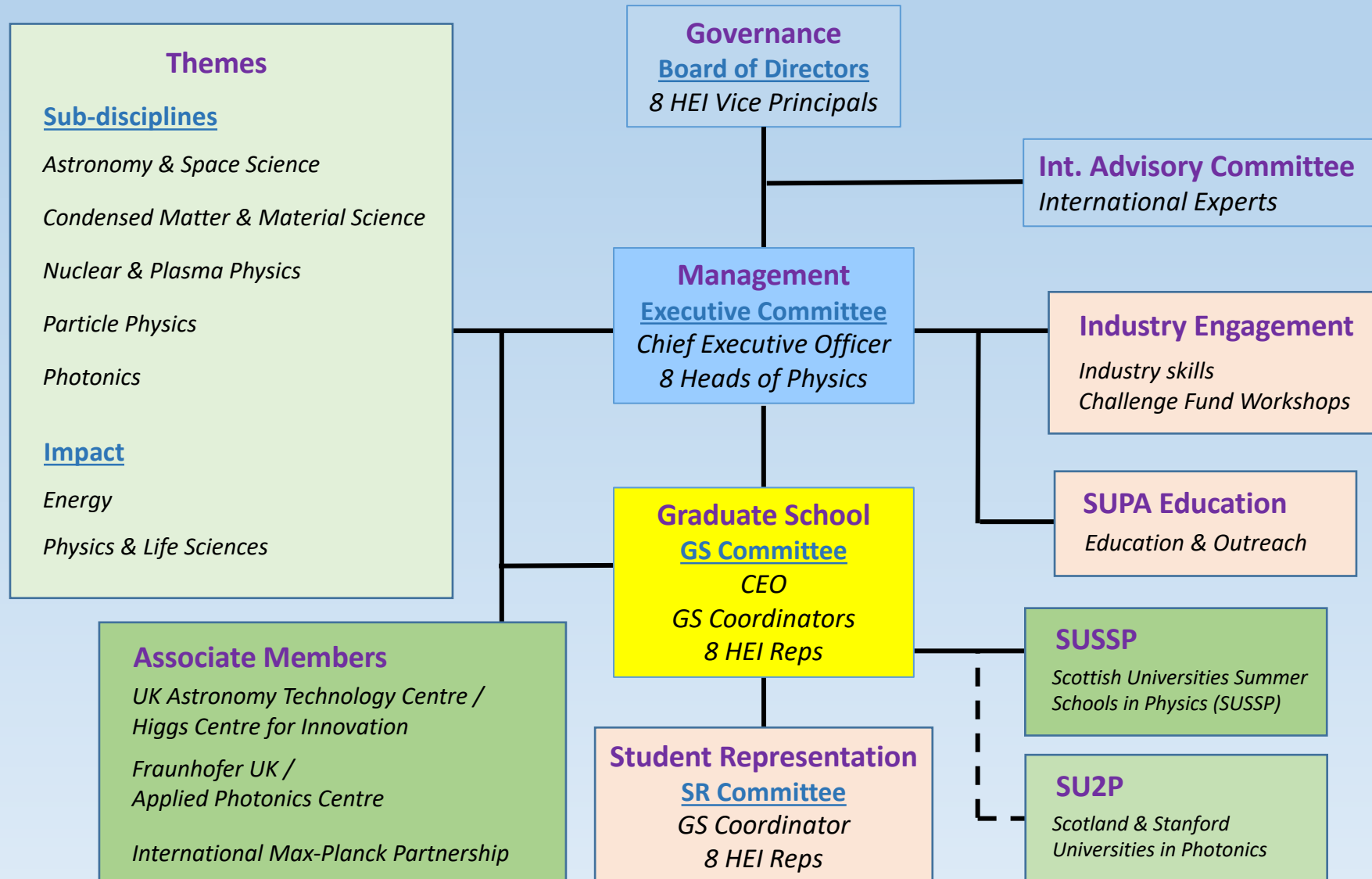
supacentral@glasgow.ac.uk

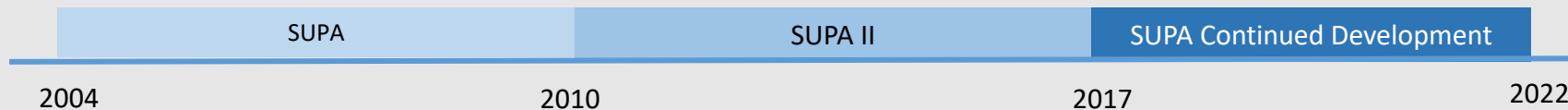
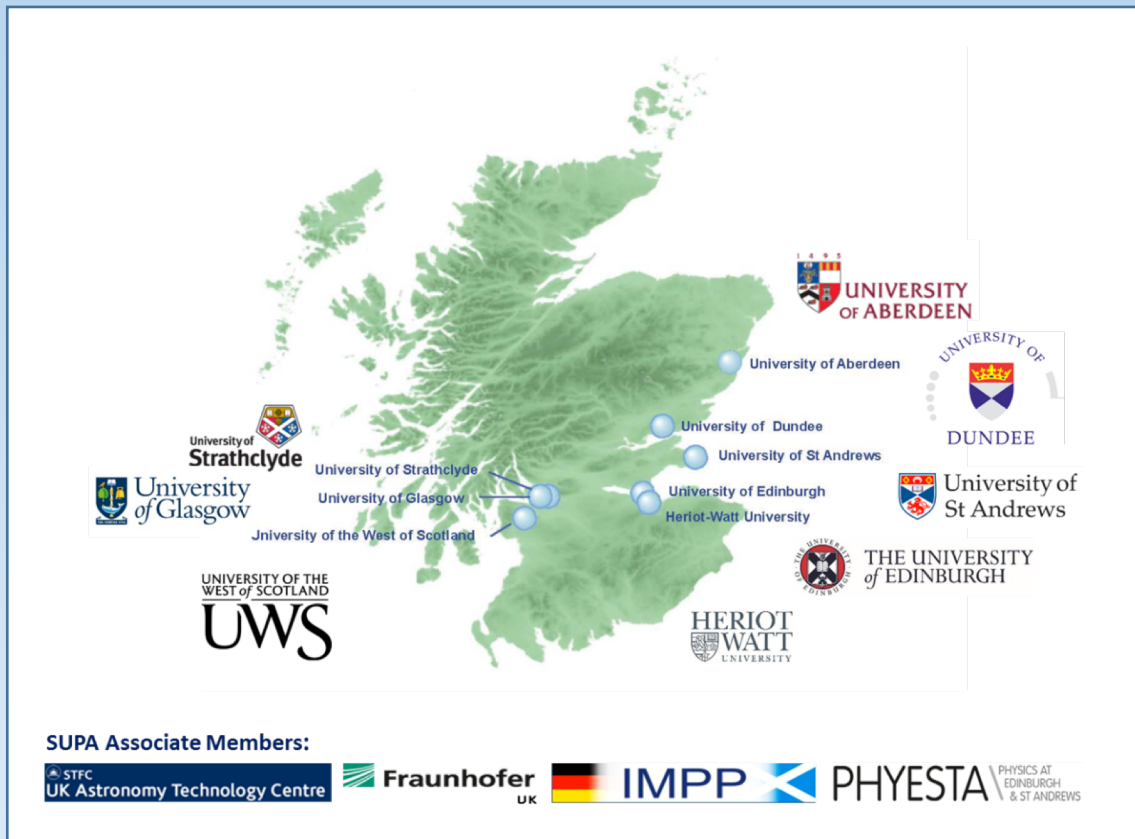
 @physicsscotland

Web: www.supa.ac.uk/

SUPA Newsletter: www.supa.ac.uk/newsletter


Structure



A map of Scotland with blue dots indicating the locations of member universities. Surrounding the map are logos for the following institutions: University of Strathclyde, University of Glasgow, University of the West of Scotland (UWS), University of Aberdeen, University of Dundee, University of St Andrews, Heriot-Watt University, and The University of Edinburgh.


SUPA Associate Members:



STFC UK Astronomy Technology Centre, Fraunhofer UK, IMPP, PHYESTA, PHYSICS AT EDINBURGH & ST ANDREWS

2017-22: Continued Development of SUPA

- a Scottish physics research base that is internationally competitive and improving its reputation in the world,
- access to an excellent learning experience and support for students and early career researchers,
- value created for the Scottish economy and society.



Headline Facts

Network of over 1300 physics researchers:

> 300 Principal Investigators

> 300 Post Doctoral Research Staff

Fellowships: (including Emeritus)

12 Fellows of the Royal Society

67 Fellows of the Royal Society of Edinburgh

18 RSE Young Academy / Global Academy Members

123 Personal Research Fellowships:

29 Royal Society

6 Royal Society of Edinburgh

17 Marie Curie

21 Chancellor's / Leadership Fellowships

50 Other

Major Awards:

2013 Nobel Prize: Peter Higgs

2016 RSE Royal Medal: Jim Hough

Science Policy:

Chief Scientific Advisor to Scot Gov: Sheila Rowan

STFC Council: Richard Kenway

STFC Science Board: Peter Clarke, Christine Davies, Rory Duncan

EPSRC Strategic Advisory Group: Ifor Samuel

Chief Scientific Advisor to Food Standards Scotland: Norval Strachan

Research Performance:

36 European Research Council grants

£381M of collaborative grant income since 2010

£233M of non-collaborative grant income since 2010

~2,000 publications per annum

"SUPA" included in publication addresses

SUPA Graduate School:

>600 registered PGR students

143 prize studentship awards since 2005

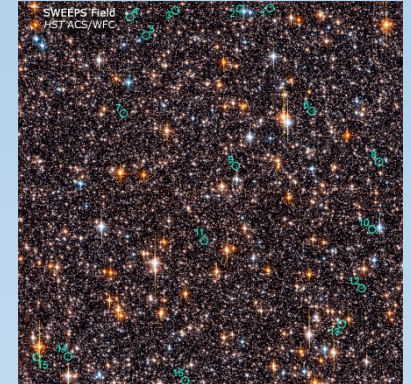
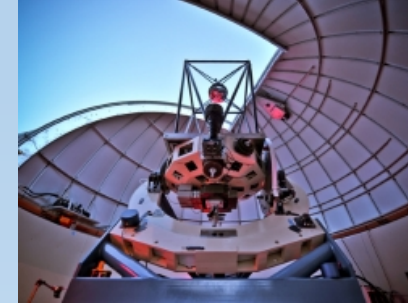
8 state-of-the-art video classrooms

50+ advanced courses

EPSRC/STFC Doctoral Training Centres

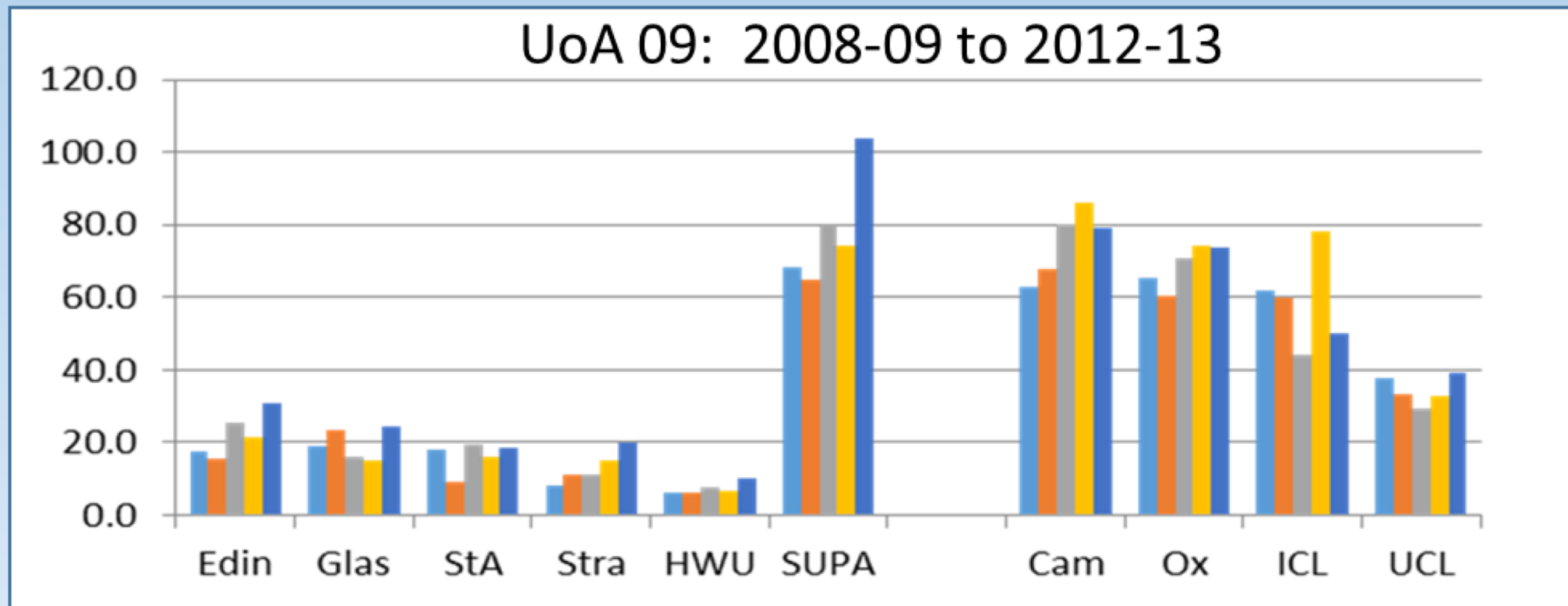
SUSSP summer schools

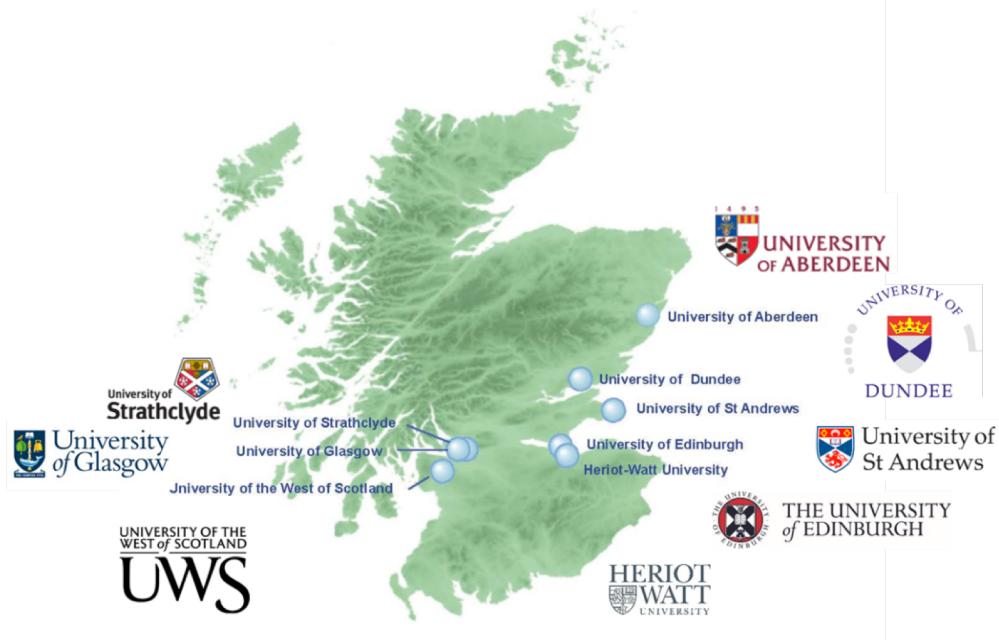
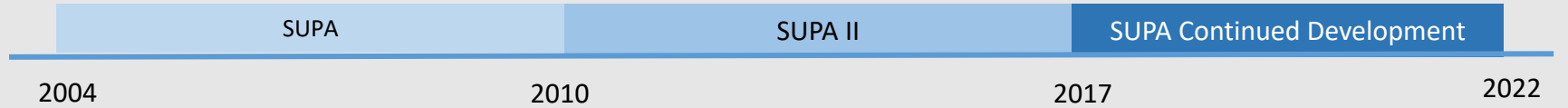
- SUPAscopes 1m Robotic telescope (Global network)
- The HARPS-N Spectrograph (La Palma)
- Low Vibration Facility / Clean Room (St Andrews)
- SCAPA - Scottish Centre for the Application of Plasma-based Accelerators (Strathclyde)
- MagTEM microscope (Glasgow)
- Electron beam writer, lithography, plasma reactive ion etcher systems & clean room (Heriot-Watt)
- Biophotonics Laboratory (Dundee)




Creating Critical Mass

REF2014: Annual PhD Graduations





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SUPA Associate Members:



Applied Photonics



Centre for Doctoral Training in Applied Photonics

EPSCRC Centre for Doctoral Training in Applied Photonics

Moving industry's need for highly skilled engineers in the photonics-electronics interface

The CDT in Applied Photonics works with companies developing photonics-enabled products and services, from consumer technology and mobile computing devices to healthcare and security.

Each of our collaborations is built around an EngD or PhD student, providing them with masters-level technical and business qualifications, along with an industrially-connected doctoral research project.

Download our leaflet

Summer School Registration

What is an EngD?
The EngD is an alternative to a traditional PhD aimed at students wanting a career in industry. Students spend about 75% of their time working directly with a company in addition to receiving advanced-level training from a broad portfolio of technical and

For companies
The research projects will offer benefits to your company: increasing the research portfolio in a cost-effective way. Access to university laboratories and facilities. Opportunity to make contacts with other Sponsor Companies. Early introduction of excellent staff into

Vacancies
Robotics optical imaging (biomarkers for 3D medical imaging) (TMVSE)
Photonics for Atomic Quantum Technology (NPL)
Holographic 3D Displays (Holostec)

News
Good Practice Ambassador: Dr. Melissa Austin
New Research Engineer Representative
Prize Photo

Condensed Matter Physics



CM-CDT Scottish Doctoral Training Centre in Condensed Matter Physics

An EPSRC Centre for Doctoral Training in Condensed Matter Physics

Startups PhD Projects

PhD Projects

Events Calendar

How to Apply

Intelligent Sensing & Measurement



ISM

EPSCRC Centre for Doctoral Training in Intelligent Sensing and Measurement

Fully funded studentships available

Sensing and measurement have revolutionised areas as diverse as transport, healthcare, agriculture and environmental monitoring, creating a

There are 100+ centres together world-leading academics to deliver a truly interdisciplinary programme that develops the leaders of tomorrow.

University of Glasgow and the University of Edinburgh You will be immersed in the world-leading, multi-disciplinary culture

Placements We offer placements with partners such as the Fraunhofer and Max Planck Institutes in Germany and leading universities in industry.

Soft Matter & Functional Interfaces



SOFI CDT

EPSCRC Centre for Doctoral Training in Soft Matter and Functional Interfaces

Soft Matter and Functional Interfaces Centre for Doctoral Training (SOFI CDT)

The SOFI CDT combines expertise from the Universities of Edinburgh, Durham and Leeds, with the core aim of training the next generation of industrial SOFI science and enterprise leaders through a rich programme of industrially integrated postgraduate training.

The SOFI Centre and Functional Interfaces Centre for Doctoral Training (SOFI CDT) is funded by the EPSRC. It will provide industrially integrated postgraduate training in research, enterprise and innovation for future industrial leaders in Soft Matter and Functional Interfaces (SOFI).

Award

The studentship includes tuition fees, an annual stipend at the EPSRC rate and generous allowances for equipment, conference and workshop attendance.

- Letters of support
- Student access to My.SUPA
- Use of SUPA PS application system
- Courses via SUPA video classrooms
- Recording / storage / archive of lectures
- CPD lectures to industry from VC rooms
- SUPA funding of industry placements
- Partnering in career events
- Registration on SUPA Expert Tank
- SUSSP summer school support.

Data Intensive Science



New STFC-CDT in Data Intensive Science

STFC funds for a new Centre for Doctoral Training (CDT) in Data Intensive Science have been awarded to a joint bid from University of Edinburgh, University of Glasgow & University of St Andrews.

Fully funded studentships for 100+ PhD students are available to start in September 2021; applications open now.

We are creating a new Centre for Doctoral Training (CDT) in Data Intensive Science, pushing forward key areas of Astronomy, Particle Physics, Solar Physics and Nuclear Physics, while contributing to the creation of a new generation of data scientists. This is based on our long-standing strength in data science, our track record of innovation and leadership in computing and advanced data science methods, and our proven record in creating world-class PhDs, as well as an established geographical cluster of shared Graduate Schools.

The key features of the programme are:

- Four 3-5 year programmes with integrated training
- 4 months industry / commercial placements
- Fully funded 48 months studentships available to suitably qualified candidates to cover tuition and fee at many UK rates.

Submissions involving SUPA members invited to submit full proposals :

"Advancing and Applying Quantum Technologies"

Strathclyde (Stefan Kuhr) + Glasgow, Heriot-Watt

"Emerging technologies and data analysis for advanced imaging and sensing (EMERGE)"

Glasgow, (Daniele Faccio) + ?

"Physics of Quantum Materials"

St Andrews (Chris Hooley) + Edinburgh, Heriot-Watt

"Magnetic Resonance for Chemical, Material and Life Sciences - EastSPIN"

St Andrews Chemistry (Sharon Ashbrook) / Physics (Graham Smith) + Dundee (David Keeble)

"Diamond Science and Technology II"

Warwick (Mark Newton) + Strathclyde +?

"Industry-Inspired Photonic Imaging, Sensing and Analysis"

Heriot-Watt (Derryck Reid) + Edinburgh, Dundee, Glasgow, St Andrews, Strathclyde

"Soft Matter for Formulation and Industrial Innovation"

Durham (Colin Bain) + Edinburgh, Leeds

"Mathematical Modelling, Analysis and Computation (MAC-MIGS)"

Edinburgh (Ben Leimkuhler, Mathematics & includes Physics + Heriot-Watt / Maths)

"Biofilm Innovation, Technology and Engineering (BITE)"

Liverpool (Rasmita Raval) + Southampton, Nottingham, Edinburgh

"Artificial Intelligence"

Edinburgh + Glasgow

Established in 1960 by the 4 “ancients”

“to contribute to the dissemination of advanced knowledge and the formation of contacts among scientists from different countries”

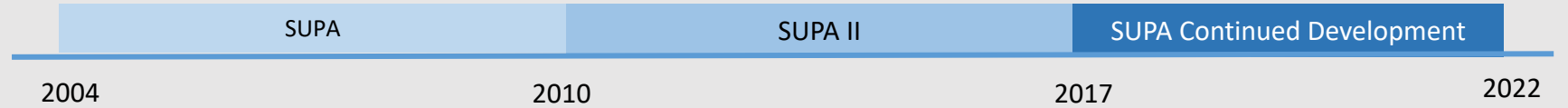
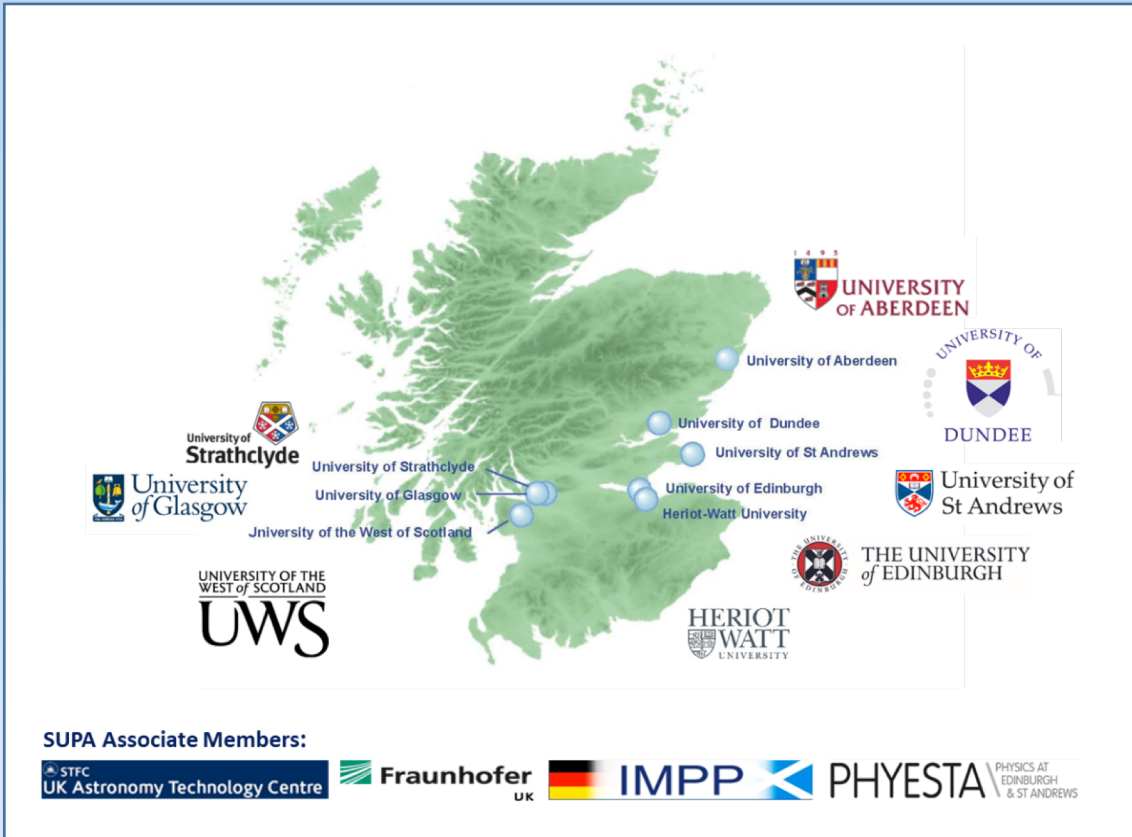
- Schools of the highest international standing
- 1 to 2 weeks in duration including a social programme
- Top researchers from around the world provide 3 or 4 lecturers each
- Typically 60 to 100 research students and PDRAs
- >50% of ‘students’ from abroad

SUSSP 73 (2017): Gravitational Waves


SUSSP 74 (2018): Innovation and Entrepreneurship in Photonics

- SUSSP was granted charitable status in 1973 and is a registered charity with OSCR
- **Integrated with SUPA in 2017**
 - SUPA EC members are SUSSP Trustees



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Opening of the Higgs Centre for Innovation, May 2018



Economic Impact of Physics

From 2017 Report produced for the Institute of Physics (UK) by the *Centre for Economics and Business Research*

Physics in the Scottish economy

