



SUPA IAC Meeting – 30 May 2019

Graduate School

Vicky Ingram, Karen Ness, Linda Hadfield



Graduate School staffing

Coordinators

- We said goodbye to Dawn Beddard in July 2018
- Vicky Ingram increased to 0.8FTE until January 2019
- We said Hello to Karen Ness in December 2018
- Karen is currently seconded to the Leverage Grant for 6 months
- We said Hello to Linda Hadfield in April 2019 (6 month contract)

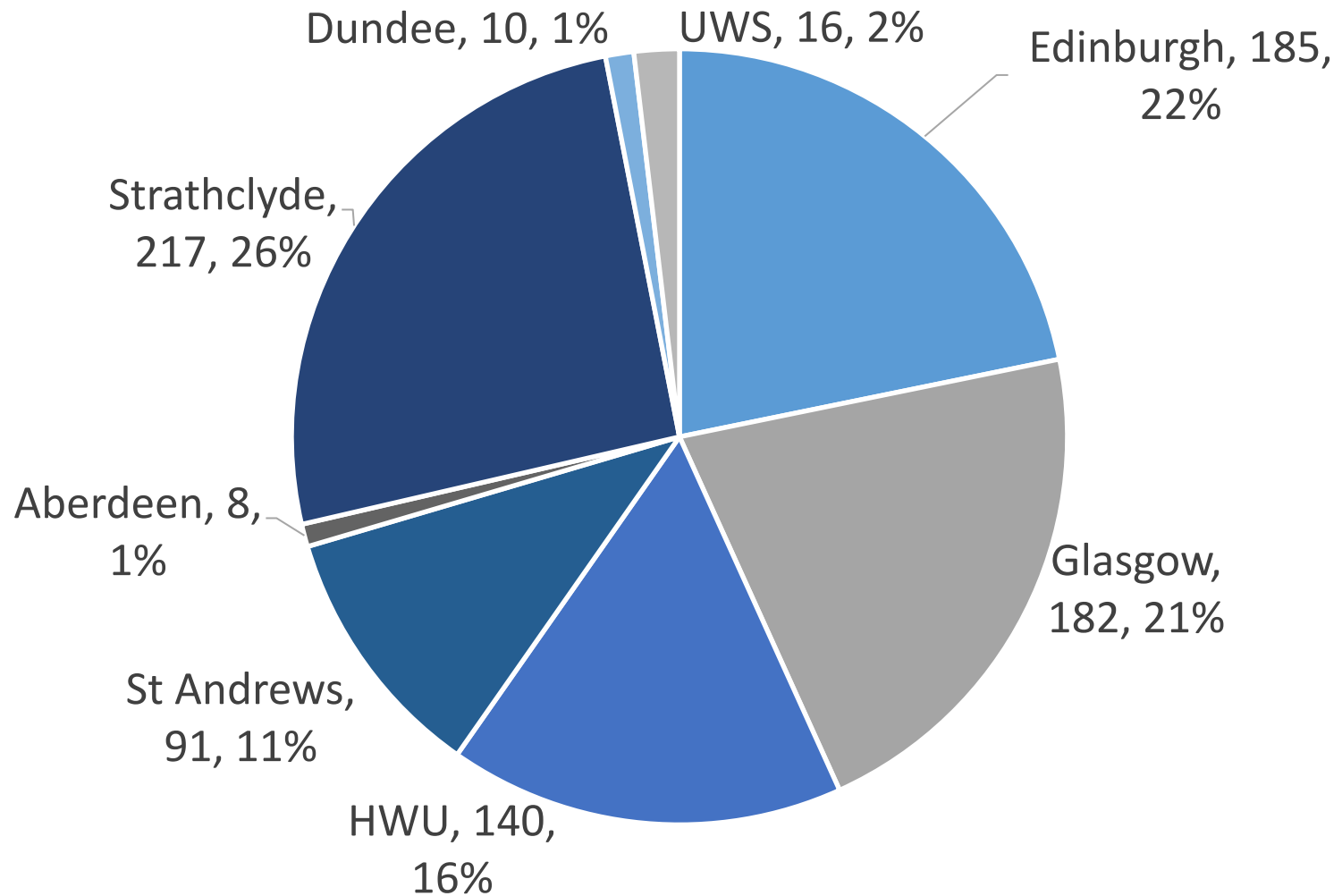
Sean Farrell – 0.5FTE, web technologist

Jean Greig – 2 days a week, senior administrator

Marjory Walker – 0.5 FTE, administrator

Jamie McIntyre – full time, administrator


Graduate School numbers



Where we have data, approximately 19% of our PhD students identify as female

This was the last Graduate School slide at the previous IAC meeting

- All these points have been addressed
- Further detail to follow
- As well as the day-to-day running of the Graduate School

The logo for SUPA is repeated in the top left corner of the slide, featuring the word "SUPA" in blue, a blue sphere with a white highlight, and a blue swoosh, with a vertical dotted line to its right.

Planning 2018/19

- Events
 - Welcome event (October)
 - Careers event (January)
 - Annual Gathering
- Implement Vscene 2.0
- Training provision revisit
 - Review transferrable skills provision
 - Monitor technical skills
- Public Engagement activity
 - Establish SUPA Education
 - Support researchers in PE&O activity
- Continue to engage with students and post-docs via representative groups
- SUSSP interactions



- Welcome to the Graduate School
- Introduction to the SUPA Research Themes by theme leaders or their representatives
- 2018 Speakers:
 - Research highlight - Malthe Gather, University of St Andrews, *A laser in a living cell*
 - Adam Fleming, University of St Andrews, *From finding your feet to final submission*
 - Rita Tojeiro, University of St Andrews, *Public Engagement: what, why and how*



Careers event

Debbie Gunning	Principal Systems Engineer, Leonardo
Euan McBrearty	Research Fellow, University of Glasgow
Kirstin Hay	Data Scientist, Heineken
Gavin Cullen	Patent Assistant, Marks and Clerk
William Taylor	Instrument Scientist, UK ATC
Ian Menzies	Senior Education Officer, Education Scotland
John Nicholls	Chief Commercial Officer, M Squared Lasers
Margaret Harris	Industry Editor, IOP Physics World
Alex Ward	Managing Director, Razorbill Instruments
Tracey Skivington	Electro-Optics Consultant, Thales UK
Ewan Hemingway	Research Engineer, Canon Medical Research Europe
Sara Diegoli	Programme Manager, QuantIC

60 students
Dynamic Earth
(Edinburgh)

CV clinics with
Strathclyde
Uni,
Edinburgh Uni,
Glasgow Uni
Thales UK

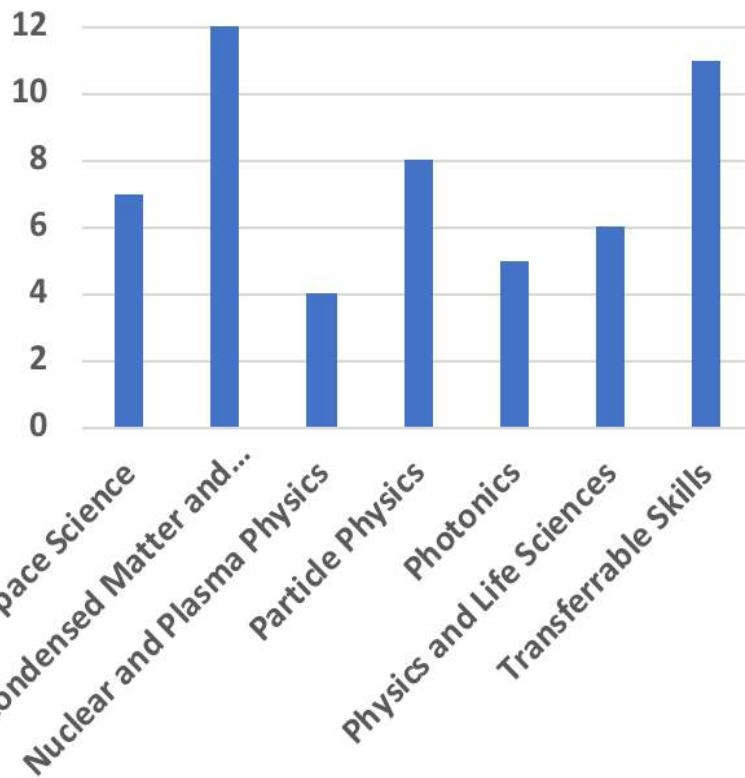


We had 5 female, and 6 male speakers, representing predominantly non-academia

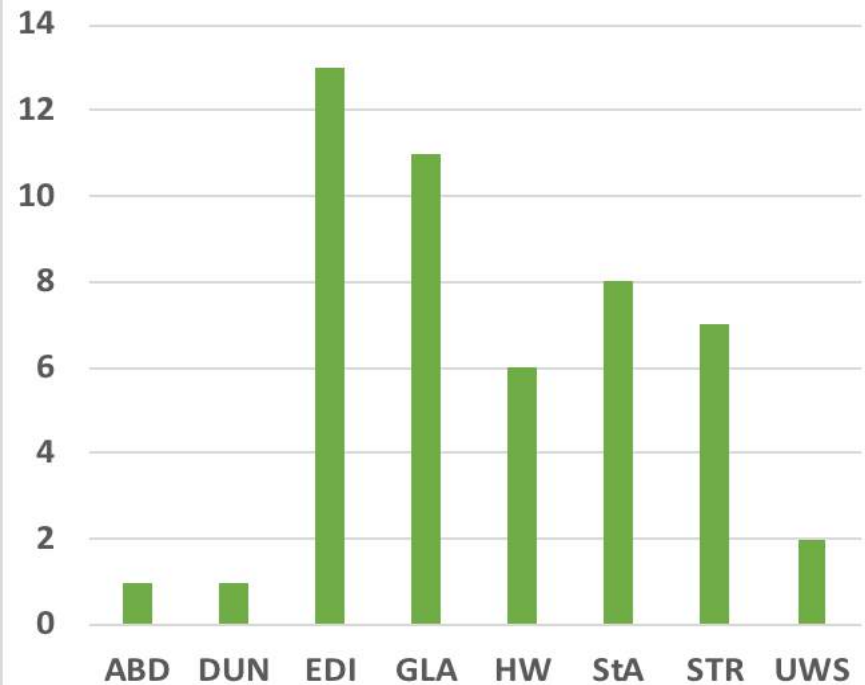
	2018/19	2017/18	2016/17
Semester 1	23	29	28
Semester 2	30	34	30

Note that some courses are biennial

Courses per theme



Courses per university

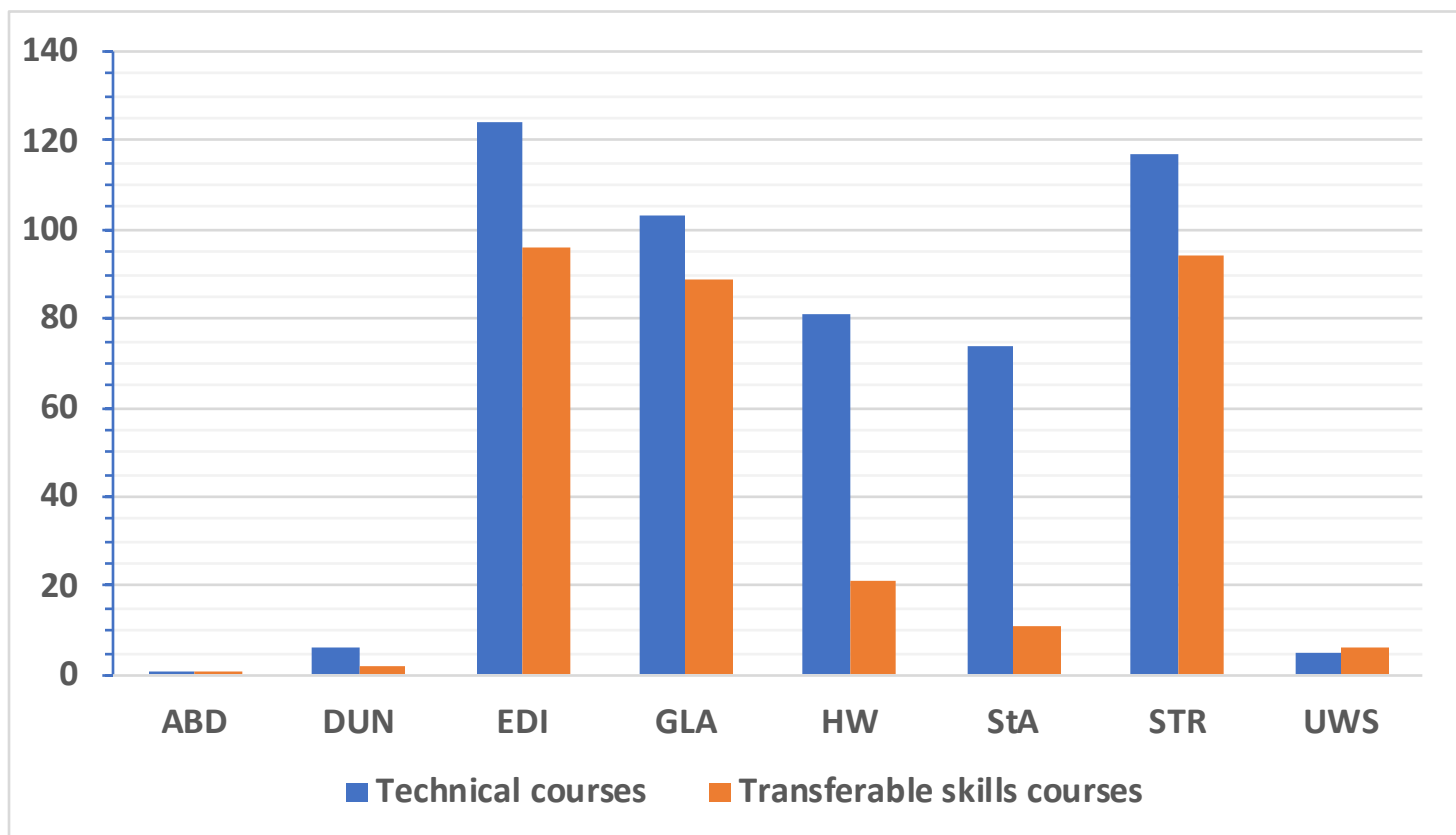


Plus one course EDI/GLA, one course guest lecturer Univ of Cologne, one course (Industry Skills) SUPAcentral

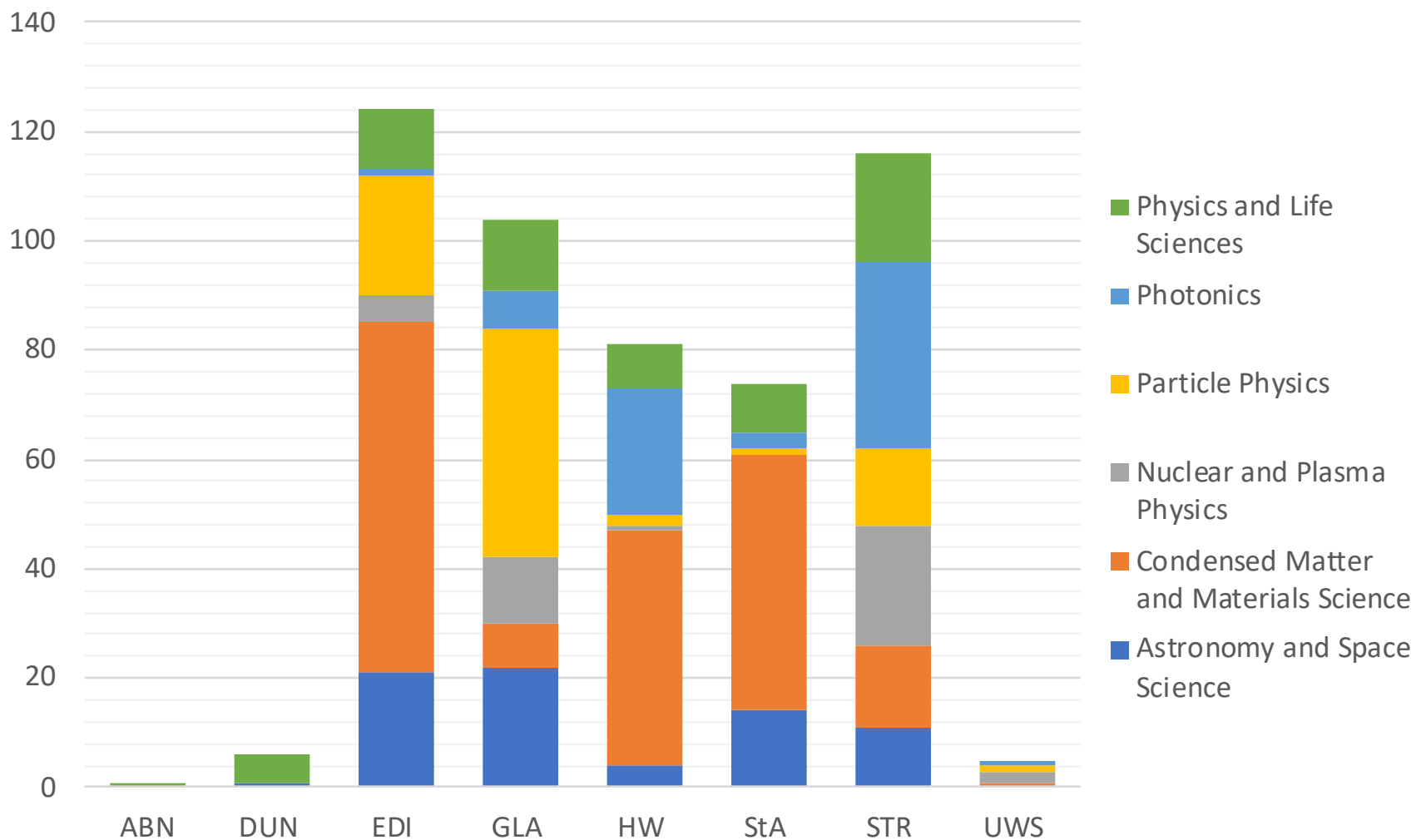


Enrolments

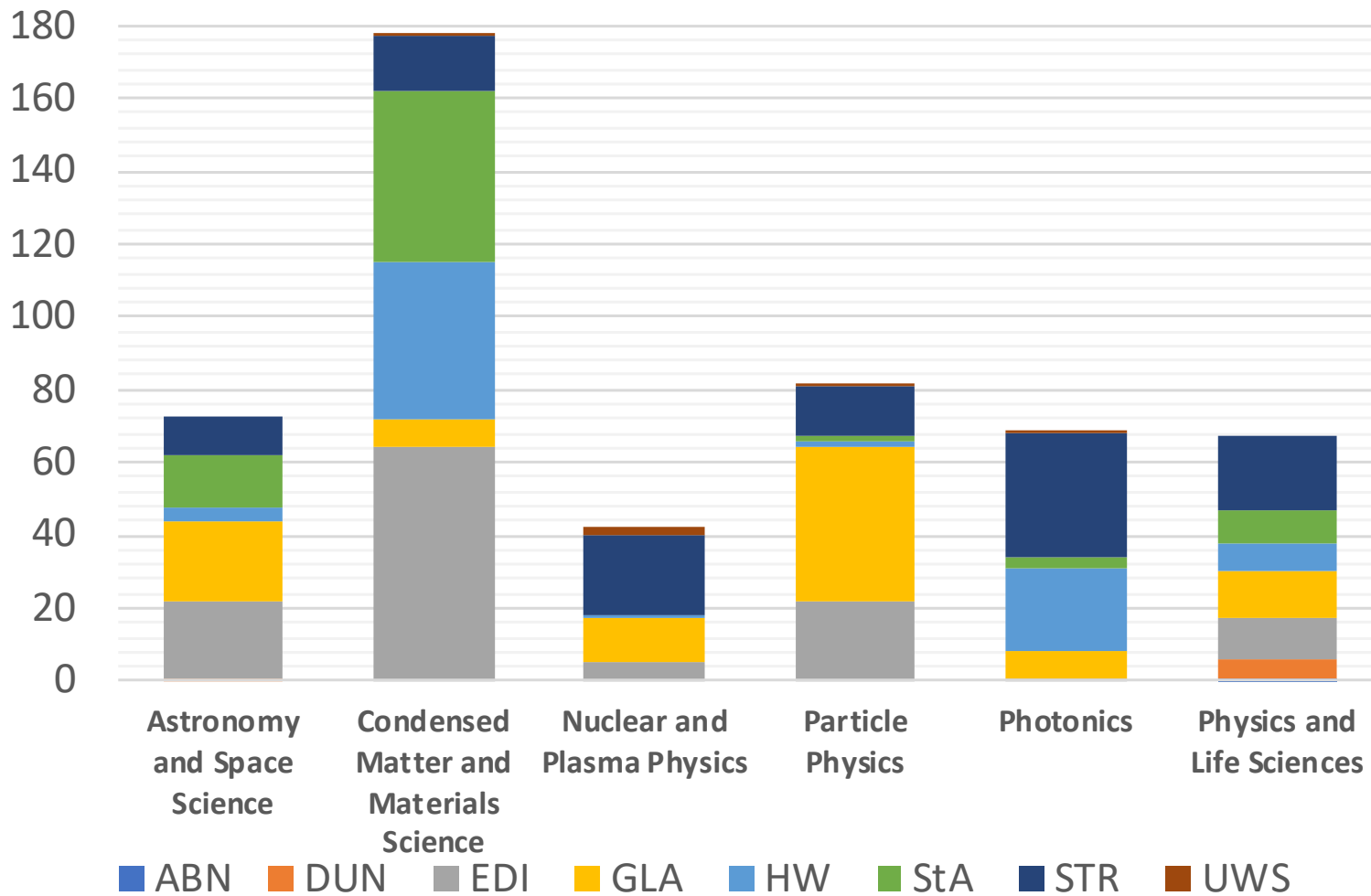
Technical courses	511
Transferrable skills	320
Total	831



Enrolments by Institution and Technical Theme



Enrolments by Technical Theme and Institution





Transferrable Skills Highlights

SUPAISC - Industry Skills Course

Continuing from last year's successful pilot:

- Product Line Management (Coherent),
- IP and Patents (Marks and Clerk),
- Decision Making Skills (Optos),
- Risk Management (Thales),
- Managing academic-industry collaborations (NPL)

SUPAWRI – From 0 to draft in 8 weeks

Responding to large waiting lists for Hands on Writing (face to face) course.

UWS are providing a 'hide and write' approach course by VC. Each week looks at a different element of a journal paper, providing both a tutorial and dedicated time to write with the lecturer available for support.



Vscene 2.2 upgrade

- Delayed our upgrade by six months when we ran into connection problems and networking issues using v2.2 in our classrooms.
- Vscene extended support for the older version of their service into 2019, keeping our graduate school lectures running as normal.
- Feedback from SUPA resulted in further changes to their service.
- Moving to Vscene 2.2.5 software for start of academic year 2019/20.



Video Classrooms 2018/19

- Edinburgh video classroom moved to new location in April 2019.
- Automatic audio mute feature to reduce disruption.
- Vscene support has helped us to fix network issues at Strathclyde and speakers and audio equipment in Aberdeen.

Distinguished Visitors

- Ariel Amir, Harvard University → *Edinburgh*
- Eduard Vives, Universitat de Barcelona → *Aberdeen*
- Luis M Robledo, Universidad Autonoma de Madrid → *UWS*
- Rosaly Lopes, NASA Jet Propulsion Laboratory → *St Andrews*
- Dangyuan Lei, City University of Hong Kong → *Heriot-Watt*
- Andrew Osborne, Colorado School of Mines → *Glasgow*
- Yoshiji Horikoshi, Waseda University → *Strathclyde*
- Vagn Steen Gruner Hanson, Technical University of Denmark → *Heriot-Watt*

Events

- SCOPE 10th Anniversary & Career Event
- Young Theorists Forum 11
- St Andrews Summer School on Radiation Hydrodynamics & Synthetic Observations
- Joint SUSSP and STFC Nuclear Physics Summer School 2019
- 52nd Annual International Meeting of the EPR Spectroscopy Group of the RSC
- COLOPT Winter School
- International Conference on Biophotonics
- International Nuclear Physics Conference

Support ranges from subsidising PhD student places to sponsoring sessions



This year we introduced an event checklist to support diversity and inclusion, and added question on the application form:

“Action being taken to ensure a diverse list of speakers”

7 Researchers Funded for short term visits to Europe and North America.

Awaiting confirmation of future funding from SFC.



SUSSP 74

Summer School in Innovation and Entrepreneurship in Photonics

University of St Andrews, Scotland 16th - 23rd June 2018

Registration closes 31st March. Limited Bursaries available



Dr. Thomas Baer
Stanford University,
Executive Director,
Photonics Research Centre



Prof. Sir David Payne
University of Southampton,
Director,
Optoelectronics Research Centre



Prof. Caroline Boudoux
Professor and Co-Founder,
Castor Optics



Matthew Wasley
Knowledge Transfer
Manager for Photonics,
KTN



Linda Smith
President,
Ceres Technology Advisors



Prof. Cliff Jones
University of Leeds,
Founder & Chief Scientific
Advisor, Displaydata



Dr. Sophie Hippmann
Head of Think Tank,
Fraunhofer-Gesellschaft



Dr. Chris Dorman
Vice President & General
Manager,
Coherent Scotland



Dr. Andrea Lovera
Head of Solutions Division,
FEMTOprint



Prof. Martin Dawson
University of Strathclyde,
Director,
Fraunhofer CAP



Dr. Thomas Neuenhahn
Head of Innovation
Management,
Siemens



Summer Schools

SUSSP 75

uknpss2019

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75th SUSSP and 20th STFC
Summer School
in
Nuclear Physics and its Applications



Broader GS interactions

External to SUPA meetings attended by the Graduate School:

- APS March meeting, Boston
- Condensed Matter Management Group/Advisory Board
- ScotCHEM
- ScotHERD
- Universities Scotland Researcher Development Training Committee
- ScotPEN

SUPA meetings organised with input from Graduate School:

- Student Welcome
- Annual Gathering
- Careers Event



A reminder:

Initiative to support:

- physics teachers
- non-physicists teaching physics in lower secondary
- primary teachers

to be best equipped to meet the challenges of STEM education, remote locations, and disadvantaged areas

Videos of our researchers helping teachers with the bits they aren't confident with or that are new.



SUPA Education

Working with Education Scotland and the Liberton cluster of schools

Secondary

We have questions from secondary school teachers

We have been in the classroom

Are our researchers most familiar/more comfortable with this level?



Primary

We have been in the classroom

Challenge for our researchers to explain their area at a low enough level

Attending Primary Science Education Conference next week to gain questions and open dialogue



Planning 2019/20

- Events
 - Welcome event (October)
 - Careers event (January)
 - Annual Gathering
- Training provision
 - Review advanced specialist (technical) course offering
- Changes to CDTs
 - How will wind down of some CDTs impact on courses
 - Engage with new CDTs
- Wider industry engagement
- Public Engagement activity
 - Build content for SUPA Education
 - Support researchers in PE&O activity
- Continue to engage with students and post-docs via representative groups
- SUSSP interactions
- REF 2021
- Ensure compliance with Web Accessibility regulation



Challenges

- Changes in CDTs – losing some, gaining others
- Attracting international students without prize studentship
- Keeping up with evolving student requirements



Discussion

1. How can SUPA tap into greater internationalisation?
How can we support the Scottish Government aims?
2. What do we need to consider regarding CDTs?
3. How can SUPA best benefit from Global Challenges funding?