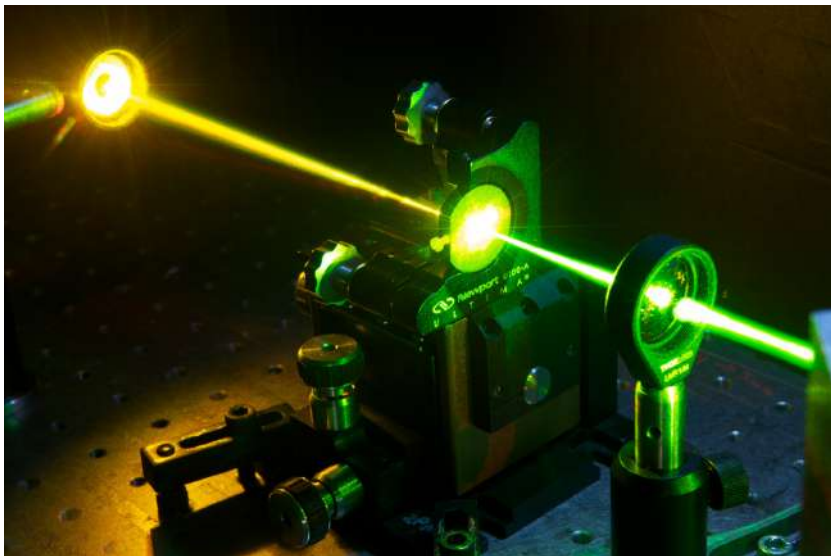


# Photonics



Diamond microlens Raman laser (inside the Newport mount) being pumped by a green laser. Image: Prof Alan Kemp, Strathclyde

**SUPA incorporates the largest cluster of Photonics research in the UK**

**World class photonics research** across: Bose-Einstein condensation, broadband telecoms, gravity wave detection, eye surgery, solar energy, audio/visual consumer products, quantum cryptography, advanced manufacturing

**Industry-facing research centres** working with partners such as the Fraunhofer Centre for Applied Photonics, UK Astronomy Technology Centre, Coherent, Kaia, Leonardo, Msquared Lasers, Optos, Thales

Number of **successful spin outs** such as Ambicare, Chromacity, mLED, Optoscribe  
Involved in major programmes, collaborations and consortia, including SU2P (with Stanford and Caltech), the International Max Planck

Partnership, and all four of the EPSRC UK Quantum Technology Hubs

### Headline facts

- ~ 200 Academics
- ~ 250 PhD students
- >170 papers published in 2017, including in Nature, Science and PRL journals

### Theme Leaders:

Jennifer Hastie

Robert Thomson

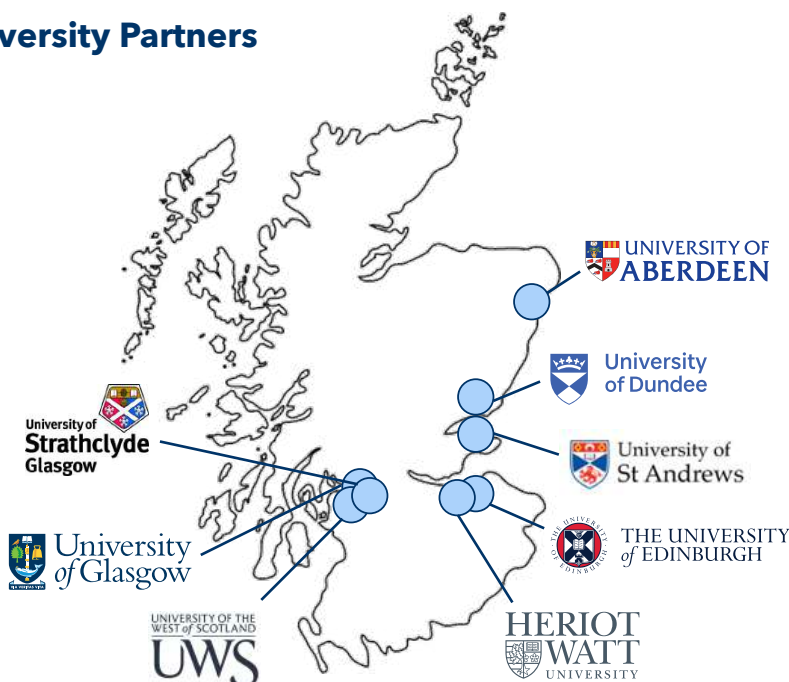




# Scottish Universities Physics Alliance

Est. 2004

## 8 University Partners



## 7 Research Themes

- Astronomy & Space Sciences
- Condensed Matter & Materials Science
- Nuclear & Plasma Physics
- Particle Physics
- Photonics
- Energy
- Physics & Life Sciences

## 3 SUPA Associate Partners



SUPA is the strategic alliance of eight Physics Schools with a shared strategy for research, and has been highly successful in establishing Scotland as an international leader in research and advanced postgraduate training in Physics.

Collectively, SUPA forms the largest cluster of research power in physics in the UK, with a community of over 1,200 physicists (academics, research staff and postgraduate students) across Scotland.

Reflecting the strengths in our eight partner universities SUPA is theme led, with five sub-discipline themes, and two impact themes (Energy and Physics & Life Sciences).

<b>SUPA Graduate School</b>	600 registered PGR students 8 state-of-the-art video classrooms 50+ technical and transferable skills courses	SUSSP summer schools Annual showcase of research
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## Headline Facts

### Network of >1,200 physics researchers including:

- >300 Principal Investigators
- ~300 Post Doctoral Research Staff

### Leading academics:

- 9 Fellows of the Royal Society
- 46 Fellows of the Royal Society of Edinburgh
- 10 RSE Young Academy / Global Academy Members

### Numerous Personal Research Fellowships:

- 19 Royal Society
- 5 Royal Society of Edinburgh
- 15 Marie Curie
- 12 Chancellor's / Leadership Fellowships
- >30 Other

### Major Awards:

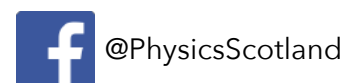
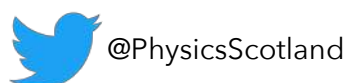
- 2018 Knighthood: Sir Jim Hough
- 2013 Nobel Prize: Peter Higgs

### Research Performance during SUPA II (2010-2017):

- 37 European Research Council grants
- £381M of collaborative grant income
- £233M of non-collaborative grant income
- ~2,000 publications each year

### Science Policy:

- Chief Scientific Advisor, Scottish Government: Sheila Rowan
- STFC Council: Richard Kenway, Sheila Rowan
- STFC Science Board: Peter Clarke, Christine Davies, Rory Duncan, Paul McKenna
- EPSRC Strategic Advisory Group: Ifor Samuel
- Chief Scientific Advisor, Food Standards Scotland: Norval Strachan



Sign up to the SUPA newsletter: [www.supa.ac.uk/newsletter](http://www.supa.ac.uk/newsletter)