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## Physics in Action

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Five sessions of phenomenal physics will be brought to you by the brightest lights in the field in 2018. Join us for a day full of inspiration, challenge and engagement. A special session on examination success will provide students with the tools to excel.

- Pressing FIRE on the most powerful laser in the world
- The future ain't what it used to be
- Thunderbolts and lightning – are they really frightening?
- Big Bang
- How does radiotherapy harness ancient methods to develop cutting-edge cancer treatments?



University of Salford  
The Crescent  
Salford, M5 4PD



£21 + VAT\*

Plus one COMPLIMENTARY staff ticket per 10 students. \*VAT may be reclaimable please check with your finance department

ttp is the leading provider of inspirational, informative, Education in Action study days for A-level, IB, BTEC and GCSE students.

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**Bookings can be amended up to 28 days before the event day**



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## Pressing FIRE on the most powerful laser in the world / [Ceri Brenner](#)

Want to see what happens to stuff when you shoot it with the most powerful laser in the world, or find out how these extreme beams are being applied for cancer treatment or jet engine imaging? We do that too.

Ceri Brenner is a senior physicist developing innovative imaging and inspection technology for use in medical diagnosis, nuclear waste management and aerospace performance testing.



## The future ain't what it used to be / [Mark Lewney](#)

What will the Future be like, and why aren't astrologers rich? Predicting the future has changed dramatically over the centuries, and modern Quantum Physics and Chaos Theory now tell us that very basic systems cannot be predicted, even in principle.

Dr Mark Lewney, the Rock Doctor, winner of the first ever FameLab competition and guitar physicist blows your ears with rock guitar and blows your mind with Superstring Theory.



## Thunderbolts and lightning – are they really frightening? / [Rhys Phillips](#)

Rhys will show what happens to aircraft when hit by lightning and explain how we protect against this. He will show exactly what happens in his lightning lab and discuss whether a piggy bank can survive a lightning strike?!

Rhys Phillips is a research engineer at Airbus Group, and an award winning science presenter, presenting science stage shows to schools and the general public around the world.



## Big Bang / [Simon Singh](#)

Simon will tell the story behind one of the greatest questions in the history of humanity – where did the universe come from? Is the universe eternal or was it created? Is the Big Bang the answer?

Simon is an author and broadcaster. His books include Fermat's Last Theorem, The Code Book, The Big Bang, Trick or Treatment and most recently The Simpsons and Their Mathematical Secrets.



## How does radiotherapy harness ancient methods to develop cutting-edge cancer treatments? / [Linnéa Freear](#)

Linnéa will show how radiation is used to kill cancer cells and explain the evolution of radiotherapy to become the feat of technology that it is today, including an introduction to MR-Linac – the 'holy grail' of radiotherapy.

Linnéa helps deliver world-class radiotherapy to cancer patients. She is currently working on a project to get the ground-breaking MR-Linac (one of seven in the world!) up and running.



The Training Partnership

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