Physics in Action

A limitless world awaits...

Five sessions of phenomenal physics will be brought to you by the brightest lights in the field in spring 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.

- Materials for the 21st century
- The weird world of quantum physics
- Shining light on the brain
- Galaxy Zoo: From the lab to your living room
- Measuring temperature with sound

Camden Centre, London
Judd Street, Kings Cross
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£23 + 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.

Award-winning, world-class speakers
Cutting-edge content
Thought-provoking demos and presentations
Examination hints, tips and guidance
Modestly priced to offer access to all
Complimentary staff ticket for every 10 students booked

Bookings can be amended up to 28 days before the event day
### Materials for the 21st century / Mark Miodownik

Just as we are becoming more synthetic, our man-made environment is changing to become more lifelike – living buildings and objects that heal-themselves are on the horizon. Join Mark to discover the future!

Prof. Miodownik is a materials engineer. His book *Stuff Matters* won the Royal Society Winton Prize.

### Galaxy Zoo: From the lab to your living room / Becky Smethurst

What if you could do science from the comfort of your own living room? Join Becky as she journeys through some of the groundbreaking results that have come from Galaxy Zoo, showing just how powerful the crowd really can be.

Becky is an astrophysicist researching how supermassive black holes interact with galaxies to drive the evolution of the Universe.

### The weird world of quantum physics / Michael Brooks

Particles that exist in two places at once, spooky telepathic connections, a cat that’s both dead and alive...it sounds like fiction. But the strange sphere of quantum physics is very real – and is even spooking the spooks at GCHQ...

Michael is an author, journalist and broadcaster. He is a consultant at *New Scientist*, and columnist for the *New Statesman*. He is the author of *At The Edge of Uncertainty*.

### Measuring temperature with sound / Michael de Podesta

Michael will describe his work on the most accurate thermometer ever made – that measures the average speed of molecular motion using sound waves. And then live on stage we will measure the temperature using sound waves: what could possibly go wrong?

Michael’s research interests concern all aspects of temperature measurement. Michael is a chartered physicist, a member of the Institute of Physics, and received an MBE for Services to Science.

### Shining light on the brain / Gemma Bale

How could a light bulb revolutionise brain monitoring? Using the physics of light, engineering and some biology, we will discover the technology behind measuring brain activity and why this should be in hospitals of the future.

Gemma is a medical physicist. She develops optical instruments to monitor metabolism in the brain.