

Physics in ACTION

MAR
16
2023

Physics in Action

For A level and IB students

Five sessions of phenomenal physics will be brought to you by the brightest lights in the field! Join us during British Science Week for a day full of inspiration, challenge and experimentation across the breadth of physics. There will be plenty of interactivity throughout the day - prepare for polls, quizzes and putting your questions to the scientists!

Physics in Action will be chaired by A-Level Physics Online's Lewis Matheson, who will also present a session on Examination Success that will provide students with the tools to excel.

- [The Accidental Materials Scientist](#)
- [Is it possible to live a carbon-zero life?](#)
- [Grey Matter](#)
- [The First Stars: Unveiling the first billion years of our Universe](#)
- [Fusion Energy: How to Build a Star in a Doughnut](#)



Emmanuel Centre, London,
London,
SW1P 3DW
or online



Online: £10+VAT *
Venue: £22 +VAT *

Plus one COMPLIMENTARY staff ticket per 10 students.

*VAT may be reclaimable. Please check with your finance department

Education in Action 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

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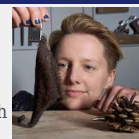
Physics in ACTION

The Accidental Materials Scientist / Anna Ploszajski – Materials Scientist, Writer and Storyteller



This is the story of an accidental materials scientist; accidentally studying materials science instead of physics at university, accidentally breaking stuff, accidentally leaving a microscope slide on a shelf for nine months and making a huge accidental discovery. My dad always tells me 'you make your own luck', but what if it all just happened by accident?

Anna Ploszajski is a materials scientist, author, presenter and science comedian who is on a mission to get people fascinated by the ordinary stuff which makes up the world around us. Her book *Handmade* tells the story of materials through their use in arts and crafts.

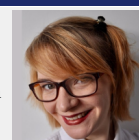


The First Stars: Unveiling the first billion years of our Universe / Emma Chapman – University of Nottingham



Astronomers have observed a lot of the Universe's history, from imaging galaxies to visualising an actual black hole. We are missing the first one billion years from the timeline of the Universe though, and we are about to unveil it...

Emma Chapman is an astrophysicist at Imperial College London. She is a world-leading researcher in search of the first stars to exist in our Universe. Emma contributes regularly to television and radio and has written a popular science book, 'First light'.

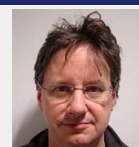


Is it possible to live a carbon-zero life? / Michael de Podesta – Physicist



Reaching net-zero as a society will require all kinds of changes, and many of these will directly affect the way we live our day-to-day lives. This talk focuses on the Physics and Engineering underpinning some of the technologies that will be central to making it possible to live low-carbon lives: Insulation, Heat Pumps, Solar Photovoltaic Panels and Domestic Batteries.

Before retirement, Michael was a measurement specialist at the National Physical Laboratory. Since retirement he has focused on the encouraging urgent action on climate change. He is a Fellow of the Institute of Physics and in 2009 received an MBE for Services to Science.



Fusion Energy: How to Build a Star in a Doughnut / Leah Morgan – Project Engineer and Science Communicator



Fusion energy engineers are trying to build a star in a doughnut that can power the world. Learn all about fusion energy research and what the future of energy will look like.

Leah Morgan is a project engineer and science communicator working in fusion energy research at the UK Atomic Energy Authority. She makes science and engineering videos on her YouTube channel Leah Morgan and gives talks all about the energy of the future!



Grey Matter / Jon Wood – Science Presenter



Take the historical journey of the study of electrophysiology, the melting pot where biology, chemistry and physics collide in the crucible of applied engineering. The science is simple, yet its application has led us to astounding truths about ourselves.

Jon is a science communicator, with specialisms in engineering, biomedical sciences, psychology and neuroscience. He writes science shows and performs them at festivals, whether focused on science or not.



Education in Action

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