

NOV
28
2022

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 at Physics in Action this autumn! Join us for a day full of inspiration, challenge and experimentation across the breadth of physics. A special session on examination success will provide students with the tools to excel, and there will be plenty of interactivity throughout the day - prepare for polls, quizzes and putting your questions to the scientists at Physics in Action!

Physics in Action will be chaired by A-Level Physics Online's Lewis Matheson, who will also present a session on Examination Success.

- The future ain't what it used to be
- Shining new light on old fossils
- The First stars: Unveiling the first billion years of our Universe
- Is it possible to live a carbon-zero life?
- Fusion Energy: How to Build a Star in a Doughnut



University of Warwick,
Coventry,
CV4 7AL



Venue: £20 +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



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in ACTION

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Physics in ACTION

The future ain't what it used to be / Mark Lewney Mathematician and physicist



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.



Shining new light on old fossils / Victoria Egerton Department of Earth & Environmental Sciences, University of Manchester



From the oldest algal lifeforms to the largest dinosaurs, new discoveries are being made by using particle accelerators to investigate the chemistry of the past. Learn how large, multidisciplinary teams use synchrotrons to learn about the past and our future.

Dr. Victoria Egerton is a palaeobiologist at the University of Manchester who uses synchrotron light to untangle the chemistry of ancient life. This work has recently been featured in Dinosaurs: The Final Day with David Attenborough.



The First stars: Unveiling the first billion years of our Universe / Emma Chapman Imperial College London



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

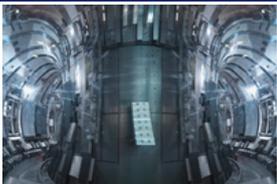


Reaching net-zero as a society will require all kinds of changes, and many of these will directly affect the way we live our day-to-day lives. This talk focuses on the Physics and Engineering underpinning some of the technologies that will be central to making it possible to live low-carbon lives: Insulation, 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 Love Science and gives talks all about the energy of the future!



The Training Partnership

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