

NOV
27
2019

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 in 2019. 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. We look forward to welcoming you to Physics in Action this year!

- The SI redefined
- Electrifying the voice
- Exploring the invisible universe
- The physics of smart buildings
- Resistance is futile: the science of superconductors



University of Warwick,
Coventry,
CV4 7AL



Venue: £21 +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 SI redefined /

Michael de Podesta – Physicist



2019 sees changes to the definitions of the kilogram, ampere, kelvin and mole, four of the seven 'SI' units. Michael explains these changes and why, even though you probably didn't even notice anything, you should be happy about them.

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.



The physics of smart buildings /

Ozak Esu – Centre for Smart Homes and Buildings



Building physics employs creative ways to manipulate a building's indoor and outdoor environment to influence its performance. Ozak introduces the basics of building physics and the application of smart electronics and technology to improve operational efficiencies.

Ozak is the Technical Lead in Smart Buildings at The Centre for Smart Homes and Buildings.



Electrifying the voice /

Trevor Cox – University of Salford



How does the voice work and how has it been changed by technology? Drawing on examples from opera to hip-hop, Trevor shows how physics, psychology and neuroscience can help explain diverse singing styles.

Trevor Cox is Professor of Acoustic Engineering at Salford University where he teaches and researches room acoustics and audio.



Resistance is futile: the science of superconductors /

Andrew Steele – Scientist, author and presenter



From super-fast, levitating trains to super-powerful magnets which allow us to see inside the body, Andrew will take us on a tour of the cutting edge of superconductor physics.

Andrew is a scientist, presenter, and author of Ageless: The new science of getting older without getting old. He has a PhD in physics, worked as a computational biologist, and talks about science on TV, radio and YouTube.



Exploring the invisible universe /

Jen Gupta – Institute of Cosmology and Gravitation, University of Portsmouth



Jen will look at the universe in different wavelengths across the electromagnetic spectrum, and explore some of the unsolved mysteries facing astrophysicists and cosmologists today.

Jen Gupta is an astrophysicist who loves to talk about how awesome space is with anyone who will listen!



Education in Action

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