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2017

Physics in Action

A limitless world awaits...

Five sessions of phenomenal physics will be brought to you by the brightest lights in the field. From the big bang to superconductors to rebuilding our society from scratch, meet the physicists who go above and beyond science as we know it. A special session on examination success will provide students with the tools to excel.

- Big Bang
- Superconductivity: From flying trains to bottled stars
- The Knowledge - how to rebuild our world from scratch
- Exploring the invisible universe
- Rock in 11 dimensions



UCL Institute of Education, London,
London,
WC1H 0AL



Venue: £19 +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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Big Bang /

Simon Singh - Science Writer

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?

After a PhD in particle physics, Simon joined BBC TV, working on Tomorrow's World & Horizon. His BAFTA-winning documentary on Fermat's Last Theorem led to a No.1 bestselling book. Simon has written four other books, presented radio & TV programs, and created a math website (parallel.org.uk).



Superconductivity: From flying trains to bottled stars /

Andrew Steele - Scientist, author and presenter

Superconductors are bizarre materials which can give us superpowers, from levitation to X-ray vision. Andrew will demonstrate how these superpowers come about, and how we can make use of them in technology, from healthcare to nuclear fusion!

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.



The Knowledge - how to rebuild our world from scratch /

Lewis Dartnell - University of Westminster

Imagine the world as we know it ends tomorrow. What do any of us living in modern society know about how to actually make or do anything? What science would you need in order to reconstruct civilization from scratch? Join Lewis to find out!

Lewis is an astrobiologist studying how microbial life might persist on the surface of Mars. He appears regularly on the BBC, National Geographic and Discovery channels.



Exploring the invisible universe /

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

We see only a tiny fraction of all there is in our possibly-infinite universe. 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!



Rock in 11 dimensions /

Mark Lewney - Mathematician and physicist

This mind-expanding and ear-stimulating talk will reveal how rock guitars make their distinctive sounds; how string vibrations might answer questions about the Big Bang; and, how the Large Hadron Collider (LHC) - the biggest experiment ever built - might let us peek into extra dimensions.

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.



Education in Action

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