Physics in ACTION

Midlands

NOV
8
2024

Physics in Action

For A-level, IB, BTEC Level 3 and T Level physics students

Join us for an exciting day of informative discussions, interactive sessions and inspirational stories that will give your students real insight into the world of physics beyond the classroom. Our experienced speakers are keen to share their expertise on a wide range of topics, from space exploration to particle physics, and to shed some light on various different pathways that exist to a successful science career.

The day will also include a special session on examination success designed to provide students with the tools that they need to excel. With polls and quizzes throughout the day and plenty of opportunities to ask the scientists questions, this event is a must for KS5 physics students! Book now for Physics in Action!

Host: Greg Foot (Science Journalist, Presenter and Podcaster)

Exam Session: Lewis Matheson (Physics Online)

- Atoms for Space: Taking Nuclear Science to the Skies
- Pathways to Physics: a Panel Discussion
- Getting in a spin with the Coriolis Effect
- Don't be in the dark about quantum photonics!
- Ultrasound: not just for babies

University of Warwick,
Coventry,
CV4 7AL

Venue: £24 +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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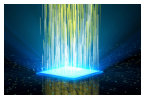
Atoms for Space: Taking Nuclear Science to the Skies /
Tim Gregory – Nuclear Scientist and Author

Radiation has breathed life into spacecraft for decades. From Moon landers to interstellar voyagers, many of our most beloved missions have been powered by atomic energy. Miniature fission reactors and advanced nuclear batteries will allow humanity to explore the rest of the solar system… and build habitats on the surfaces of other worlds.

Tim is a nuclear chemist whose lab work takes him to the forefront of clean energy production, nuclear medicine research, and space exploration. With a PhD in meteorite science he has also appeared on BBC4's The Sky at Night and the BBC2 series Astronauts: Do You Have What It Takes?

Don't be in the dark about quantum photonics! /
Imogen Forbes – PhD Student, University of Bristol



Integrated photonics harnesses the 'weird' quantum properties of light. This allows us to use photons as qubits on chips about the size of your thumbnail to generate quantum states and to develop technologies that pave the way for quantum computers!

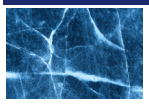
Imogen is a PhD student whose research focuses on quantum technologies – designing and testing integrated photonic circuits to generate and verify quantum states, as well as looking at how these can be applied to quantum computation and simulation.

Pathways to Physics: a Panel Discussion /
Greg Foot – Science Presenter and Communicator

Science journalist Greg Foot will engage in captivating conversations with three physics professionals in this inspiring, career-focussed panel session. These scientists are at the start of their careers and keen to share their passion for science and excitement for the future with your students.

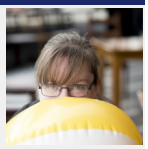
Greg is a Science Journalist who has been writing, hosting & producing science content for 15+ years across TV, Radio, YouTube, Podcast, & Stage. He currently writes & hosts his popular BBC 4 show and podcast Sliced Bread and is a regular on BBC Morning live.

Ultrasound: not just for babies /
Rachel Edwards – University of Warwick

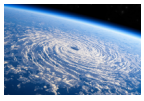


Have you ever wondered how to keep power stations, railways, and rollercoasters safe? Probably not – but non-destructive testing is being performed all the time to try and find defects in structures. Find out how seeing sound can help.

Rachel is a physicist who researches novel uses of ultrasound. She is also Associate Academic Director of the Warwick Institute of Engagement and loves sharing her passion for physics in the real world with audiences of all ages.



Getting in a spin with the Coriolis Effect /
Simon Clark – Author and Science Communicator



When air flows from the Earth's equator towards the poles, it gets deflected to the side in what we call the Coriolis effect. Why does this happen? And what does it have to do with one of the fundamental laws of the universe? In this session we'll dive into the maths, history, and applications of the Coriolis effect, and touch on the most beautiful idea in physics.

Following a PhD in atmospheric physics, Simon became a full-time science communicator, specialising in YouTube videos about topics in Earth science, such as climate change. He regularly livestreams on Twitch, lectures on science communication, and wrote a book, Firmament, as an introduction to and history of atmospheric science.

Education in Action

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