

Physics in Perspective

An enrichment course for sixth-formers and college students

Friday 18th March, 9.15am—1pm, Northumbria University

Aimed at sixth formers and college students, Physics in Perspective offers insights into many different aspects of modern physical science. All speakers are chosen for their ability to make physics come alive, to illustrate its impact on our lives and to explore its potential for shaping the future world.

The event is open to groups of students, individual students, teachers and parents.

'Soft and biological matter — sticky, squishy and bouncy'

Dr. Rodrigo Ledesma-Aguilar, Northumbria University

Most of the stuff that surrounds us, including our own bodies, is made up of organic materials of biological origin. Complex as they seem, biological structures exhibit a beautiful order, from the shape of tree leaves to the way hair grows in a particular direction in your arm. Why?

In this talk we will use Physics to illustrate how nature has evolved some of the most clever solutions to everyday problems by building “soft matter” structures. We will also discuss how these solutions are inspiring new cutting-edge technological developments called bio-inspired smart materials.

'Engineered in your Imagination'

Prof. Danielle George, Manchester University

A revolution is happening. Across the world people are taking control of the devices we use every day, customizing them, creating new things and using the sparks of their imagination to change the world. Now it's your turn.

Inspired by the great inventors, Professor Danielle George is tinkering for the 21st century. Using the full array of cutting edge devices available to us today: 3D printers, new materials, online collaboration and controlling devices through coding, Danielle will examine the new rules of invention and show you how to use modern tools and technologies to have fun, transform everyday items and make a difference.

Careers Panel: Where can Physics take me?

Emma Garrick

Think Physics' careers specialist Emma Garrick leads a panel of academic and industrial scientists and engineers, discussing the routes they took and the advice they'd pass on to those embarking on a STEM career.

She will be joined by Candace Adams from QuantuMDx, Paul Casson from Macaw Engineering and Danielle George from Manchester University.



Book your place at: www.thinkphysics.org/event/physics-in-perspective/

Deadline for booking: Friday 11th March

How to find us

Physics in Perspective will be held in Ellison Building, No. 8 on the map below. The best entrance to use is Ellison Reception, off Ellison Place. When you arrive at the reception, signs will guide you to room EBB001, where Physics in Perspective is taking place.

Travelling by road

Large buses and coaches can drop off and pick up at City Campus East, marked with a red bus on the map. Visitor's parking permits can be arranged for small mini buses, please email annie.padwick@northumbria.ac.uk to book a space. There is no free parking at the University during the week, parking is available at locations marked with a P on the map.

By public transport

Northumbria University is a short 5-10 minute walk from either Haymarket, Monument or Manors metro stations.



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For further information about Physics in Perspective, or getting to Northumbria University please contact Annie Padwick on annie.padwick@northumbria.ac.uk or 0191 227 4478.