

# Physics in Perspective

**An enrichment course for sixth-formers and college students**  
Northumbria University, Friday 20th March 2015



# About

## What is Physics in Perspective?

Aimed at sixth formers and college students, Physics in Perspective offers insights into many different aspects of modern physical science.

The speakers are all 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 with engineering and technology.



## Booking your place

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

Book your place today, go to <https://www.eventbrite.co.uk/e/physics-in-perspective-northumbria-university-tickets-15647626472>

### Deadline for bookings

The closing date for bookings is 6th March 2015. After this date, if you wish to be notified of unsold tickets or of last-minute cancellations, please contact Annie Padwick.

### For more information

Annie Padwick, Think Physics Coordinator

Tel: 0191 227 4478 E-mail: [think.physics@northumbria.ac.uk](mailto:think.physics@northumbria.ac.uk)

# Programme

## Northumbria University at Newcastle

<b>9.15</b>	<b>Doors Open</b> E005, Ellison Building Northumbria University Newcastle
<b>9.30</b>	<b>Welcome</b>
<b>9.40 - 10.40</b>	<b>A Brighter Future for Solar Energy</b> Dr Nicola Pearsall Northumbria University Newcastle  The University's Northumberland Building was the first building in the UK to be fitted with a solar panel facade. This interactive lecture will introduce photovoltaics as a practical and reliable renewable energy technology, which harnesses energy from the sun and turns this into electricity. The lecture will explain how the devices work and how very thin films – 30 times thinner than a single strand of hair – can make low cost solar panels for the mass market. It will also consider how we select the materials to be used in solar cells.
<b>10.40 – 11.00</b>	<b>Break</b>
<b>11.00 – 12.00</b>	<b>Physics and Maths in Computer Games and Visual Effects</b> Dr. Jon Purdy University of Hull  From calculating the angle that a ball bounces off a wall to modelling the frictional forces on a rally car, physics and maths have always played a part in the development of computer games and special effects. In recent years the drive for more realistic environments has resulted in the implementation of some quite advanced simulations in computer games software. This lecture gives a brief overview of some of the maths and physics used to make computer games and is illustrated by demonstrations and examples.
<b>12.00 – 12.45</b>	<b>'Where can Physics Take Me?' STEM Careers Talk</b> Emma Garrick, Outreach Specialist for Careers and Employers  With reference to career opportunities locally and nationally, and employer insights Emma will discuss the range of opportunities that physics study can provide.
<b>12.45</b>	<b>End of the day</b>

# How to find us

Physics in Perspective will be held in Ellison Building, No. 8 on the map. The best entrance to use is The Link on Northumberland Road. There will be signs to E005.

## By road

Large buses and coaches can drop off and pick up at City Campus East, marked with a red bus on the map. Parking for mini buses is also available.

## By public transport

Northumbria University is easily accessible from Haymarket and Monument metro or city centre bus stations. Access is from Northumberland Street and along Northumberland Place.

