

School Lectures

FRIDAY 24 FEBRUARY 2012

1.30pm – audience KS3/4 - Bookings now open

Astrobiology - the hunt for alien life

Dr Lewis Dartnell

Join Dr. Lewis Dartnell on a tour of the other planets and moons in our solar system which may harbour life, and even further afield to alien worlds we've discovered orbiting distant stars, to explore one of the greatest questions ever asked: are we alone...?

FRIDAY 29 JUNE 2012

1.30pm – audience A Level - Bookings open April 2012

You want me to shove this circuit where?

Tony Palmer

This lecture is about some of the almost impossible places scientist and engineers want us, the electronics technicians, to place electronic circuits. It is based on the problems technicians and electronic design engineers face in the science and space industry when placing circuits in harsh environments and some of the methods used to get around them.

Particle Physics Master Classes

A level - 12th 13th and 14th March 2012

Talking Science Series 2011 -12 summary

DATE	TALK	TIME
30/09/2011	Who cares about glaciers anyway?	7pm
28/10/2011	Rutherford's Legacy	7pm
27/11/2011	Understanding Stem Cells	7pm
09/12/2011	Ice, Fire and Water	7pm
27/01/2012	Ancient Egypt under the Microscope	7pm
24/02/2012	Astrobiology	1.30pm Schools Only 7pm
30/03/2012	Carry on Accelerating	7pm
27/04/2012	Super Intense Lasers	7pm
25/05/2012	Mysterious cases of misbehaving molecules	7pm
29/06/2012	EMMA at Daresbury	7pm
29/06/2012	You want me to shove the circuit where?	1.30pm Schools Only

All events take place in the Merrison Lecture Theatre at Daresbury Laboratory. Visit our website for travel information.

A hearing loop is installed in the lecture theatre and disabled access is available. Please let us know when you book if you require us to make any adjustments for your visit. Children under 16 must be accompanied by a responsible adult. Once your booking is made, you will receive a confirmation by email or by phone, we do not produce hard copy tickets.

Science and Technology Facilities Council
Daresbury Laboratory, Daresbury Science and Innovation Campus,
Daresbury, Warrington, Cheshire WA4 4AD



What is 'backstage science'?

www.youtube.com/BackstageScience

Watch these short films and find out what it's like to work as a scientist or engineer at the UK's top science facilities

Booking is essential:

Book online

www.stfc.ac.uk/forms/ebform.aspx

Email dltalkingscience@stfc.ac.uk

Or call **01925 603040** (24 hour answerphone)

Talking Science

Daresbury Laboratory

FREE stimulating talks on science, maths and the Universe, for families, public and schools



Science Series

Talking Science
2011-12

PUBLIC LECTURES 2011 - 2012

FRIDAY 30 SEPTEMBER 2011

7pm – audience 16+ - Bookings open 5 September 2011

Who cares about glaciers anyway?

Dr Zoe Robinson

Regions with glacier and snow pack coverage have already seen major effects associated with changes in regional temperature distributions. What impact will climate change over the next century have on river and groundwater systems in these regions? What is the future for the world's cold regions? What impact will this have on our society and what is our role in determining this future?

FRIDAY 28 OCTOBER 2011

7pm – audience 16+ - Bookings open 3 October 2011

Rutherford's Legacy

Dr Glenn Patrick

2011 marks the 100th anniversary of the publication of Rutherford's classic paper interpreting the famous scattering experiment which revealed the existence of the nucleus. This lecture will look at how particle physics has developed following Rutherford's discovery and what developments we might expect in the future.

FRIDAY 25 NOVEMBER 2011

7pm – audience 16+ - Bookings open 7 November 2011

Understanding Stem Cells: Benefits for all?

Professor Melanie Welham

This lecture will discuss why understanding the behaviour of stem cells is so important to reaping the benefits that they offer and hopefully provide a balanced answer to the question – stem cells: benefits for all?

PUBLIC LECTURES 2011 - 2012

FRIDAY 9 DECEMBER 2011

7pm – audience 12+ - Bookings open 14 November 2011

Ice, Fire and Water

Professor Nick Petford

The April 2010 eruption of Eyjafjallajökull volcano, Iceland, caught world travellers off guard. This talk will explore the reasons why Iceland has volcanoes, how they form, the hazards they pose and assess the future impact of a much larger eruption on western Europe.

FRIDAY 27 JANUARY 2012

7pm – audience 12+ - Bookings open 4 January 2012

Ancient Egypt under the Microscope

Dr Karen Exell

This talk will address how contemporary scientific analysis contributes to a more sophisticated understanding of ancient materials and technologies, and as a result allows us to develop a more complete understanding of what it was like to live in ancient Egypt.

FRIDAY 24 FEBRUARY 2012

7pm – audience 12+ - Bookings open 1 February 2012

Astrobiology - the hunt for alien life

Dr Lewis Dartnell

See School lectures for synopsis.

FRIDAY 30 MARCH 2012

7pm – audience 16+ - Bookings open 5 March 2012

Carry on accelerating

Dr Neil Marks

Particle Accelerators were invented in the early 20th century to allow physicists to study the structure of the nucleus. Since then, larger and larger and more and more energetic accelerators have been built, to explore deeper and deeper into the nucleus and into the protons and neutrons within the nucleus. This has culminated in the 'LHC' – the world's largest accelerator.

PUBLIC LECTURES 2011 - 2012

FRIDAY 27 APRIL 2012

7pm – audience 12+ - Bookings open 2 April 2012

Super intense lasers

Ceri Brenner

The Central Laser Facility is host to a collection of powerful laser systems. Together with a bank of international scientists, they hold the key to unlocking a wealth of solutions to today's and tomorrow's problems; from techniques for studying cancer to future clean energy. Join Ceri Brenner 'backstage' and gain a unique view into the bright future of the laser.

FRIDAY 25 MAY 2012

7pm – audience 12+ - Bookings open 7 May 2012

Mysterious cases of misbehaving molecules

Professor Chick Wilson

Chemists usually know what molecule they are going to make, and make it. These molecules are useful – they improve health and wealth, they make things that look good, taste good and are good for us. Great, but nature has the habit of biting back. Sometimes the molecules go wrong, for example in the order in which atoms join to a carbon – 'enantiomerism' – or in the way they stick together – 'polymorphism'.

FRIDAY 29 JUNE 2012

7pm – audience 16+ - Bookings open 4 June 2012

EMMA at Daresbury

Dr Peter Williams

From fundamental physics to drug development to electronic gadgets, particle accelerators have been pivotal to new developments. Now, in the 21st century they are poised to have even greater impact on society. Daresbury Laboratory is at the forefront of this step change with EMMA, the Electron Model of Many Applications. Amongst the applications are a treatment for cancer that promises to be more effective than radiotherapy, and a new approach to electricity generation from nuclear fission.



Talking Science Series 2011-12