

FRIDAY 11 MAY 2012



1.30pm/7pm – audience 10+

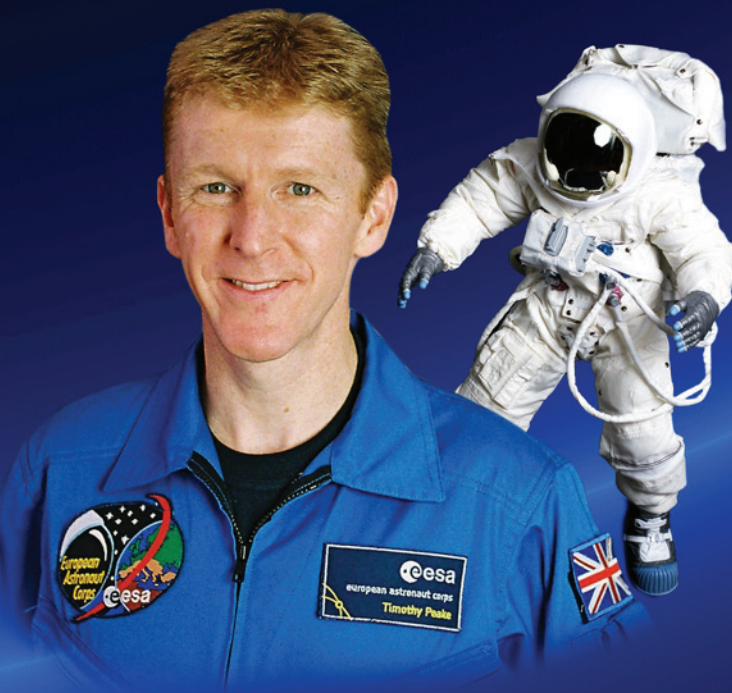
An astronaut in space - where will man go next?

Tim Peake – European Space Agency

The International Space Station is the size of a football pitch, weighs over 400 tonnes and travels at 17000 mph - but what happens on-board the Space Station? How is it operated? And what is life like for the astronauts living and working in space? European Space Agency astronaut Tim Peake will present an inside account of this unique laboratory and explore the question

“Where will man go next?”

Astronaut Tim Peake
– European Space Agency



Science Series



Science & Technology
Facilities Council

Talking Science Series 2011 -12 summary

DATE	TALK	TIME
14/10/2011	Super intense lasers	1.30/7pm
25 /11/2011	From X-rays to antimatter	10.30 Schools Only 1.30/7pm
9/12/2011	Surfing to the stars... A life in Astronomy	1.30/7pm
20/01/2012	Ernest Rutherford and the big bang machine	1.30/7pm
17/02/2012	It takes guts	1.30/7pm
30/3/2012	A nourishing legacy: Sport, nutrition and communities	1.30/7pm
20/04/2012	Power mad	1.30/7pm
11/05/2012	Where will man go next?	1.30/7pm
8/06/2012	Creative sparks and celestial fire	1.30/7pm

All events take place in the Pickavance Lecture Theatre at the Rutherford Appleton 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
Rutherford Appleton Laboratory, Harwell Oxford,
Oxfordshire OX11 0QX



BACKSTAGE SCIENCE

ACCESS ALL AREAS

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 rltalkingscience@stfc.ac.uk

Or call **01235 445959** (24 hour answerphone)

Talking Science

Rutherford Appleton Laboratory

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



Talking Science
Series 2011-12

AUTUMN

BOOKINGS OPEN 5 SEPTEMBER

BACKSTAGE SCIENCE

FRIDAY 14 OCTOBER 2011

1.30pm/7pm – audience 14+

Super intense lasers

Ceri Brenner – University of Strathclyde and STFC

The Central Laser Facility brings together powerful laser systems with international scientists. Together they unlock a wealth of solutions to today's and tomorrow's problems, from studying cancer cells to future clean energy. Join Ceri Brenner 'backstage' and view the bright future of the laser.



FRIDAY 20 JANUARY 2012

1.30pm/7pm – audience 14+

Ernest Rutherford and the big bang machine

Dr Bruce Kennedy – STFC Rutherford Appleton Laboratory

Join Bruce Kennedy 'backstage' to learn how we have moved from Ernest Rutherford's simple experiment in 1909 to current research at the Large Hadron Collider at CERN leading the way in our understanding of the structure of atoms.



SUMMER

BOOKINGS OPEN 2 APRIL

FRIDAY 20 APRIL 2012

1.30pm/7pm – audience 14+

Power mad

Dan Faircloth – STFC Rutherford Appleton Laboratory

They say power corrupts, but absolute power inspires. The Rutherford Appleton Laboratory plays host to some of the most powerful machines ever made. Come 'backstage' with Dan Faircloth to explore the scale of power, from the incredibly weak whispers from Jupiter to the unfathomably large Planck power – via particle accelerators and lasers and the largest nuclear explosion ever created.

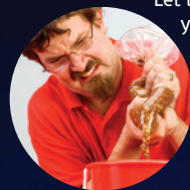


FRIDAY 17 FEBRUARY 2012

1.30pm/7pm – audience 10+

It takes guts

The Science Museum Team



Let the Science Museum take you on the journey of your food into your mouth, through the acid bath in your stomach, along metres of pulsating guts, and then...out the other end. This show, featuring video footage of people's insides, is a gross-out, squirm-inducing demonstration of why exactly your poo is brown...



FRIDAY 8 JUNE 2012

1.30pm/7pm – audience 10+

Creative sparks and celestial fire

Christopher Parkin – Museum of the History of Science, Oxford

STFC is proud to present a demonstration by the Museum of the History of Science, bringing to life the early history of experimenting with electricity: magical ideas, strange electrical machines, a travelling showman and the scientists who brought their creative spark to understanding the mystery of celestial fire.



FRIDAY 30 MARCH 2012

1.30pm/7pm – audience 14+

A nourishing legacy: Sport, nutrition and communities

Peter Wootton-Beard – Oxford Brookes University and OxGrow

The Olympic Games are upon us and they have the potential to bestow a lasting legacy on local communities. Peter Wootton-Beard from Oxford Brookes University will use his research into the health benefits of beetroot to link athletic nutrition, antioxidant-rich foods and community food projects.



FRIDAY 11 MAY 2012

1.30pm/7pm – audience 10+

An astronaut in space - where will man go next?

Tim Peake – European Space Agency

See overleaf for details.

FAMILY FUN

FRIDAY 25 NOVEMBER 2011

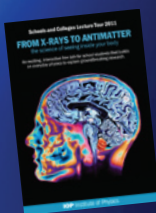
10.30am – schools only

1.30pm/7pm – audience 14-16

From X-rays to antimatter

Dr Michael Wilson – Institute of Physics

Over the past hundred years physicists have developed increasingly sophisticated techniques to see inside the body, with each discovery pioneering the better diagnosis and treatment of diseases and illness. Follow the Institute of Physics' Michael Wilson as he journeys from the early discovery of X-rays, through today's magnetic resonance imaging and beyond to the future: antimatter.



FRIDAY 9 DECEMBER 2011

1.30pm/7pm – audience 14+

Surfing to the stars...

A life in Astronomy

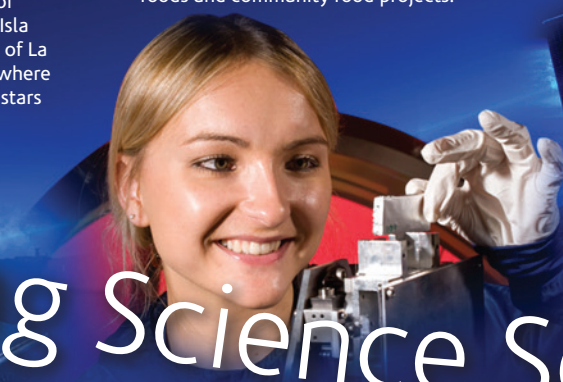
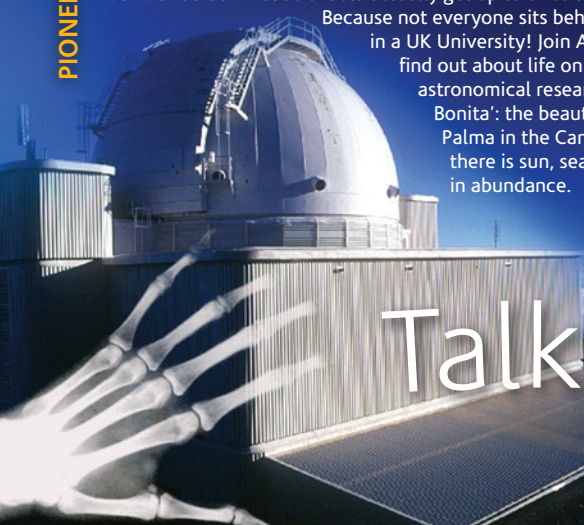
Amy Tyndall – University of Manchester and Isaac Newton

Telescopes, La Palma

Ever wondered what scientists actually get up to once they graduate? Because not everyone sits behind a computer in a UK University! Join Amy Tyndall to find out about life on the edge of astronomical research on 'La Isla Bonita': the beautiful island of La Palma in the Canary Isles, where there is sun, sea, surf and stars in abundance.



PIONEERING SCIENCE



Talking Science Series 2011-12