

SPECIAL EVENTS

04/10/10

British Science Association (BSA) Mini Festival

Full programme of lectures, tours and hands-on activities

15-16/03/10

Particle Physics Masterclass, A Level

Full programme of lectures, tours and hands-on activities

DATE TO BE ADVISED

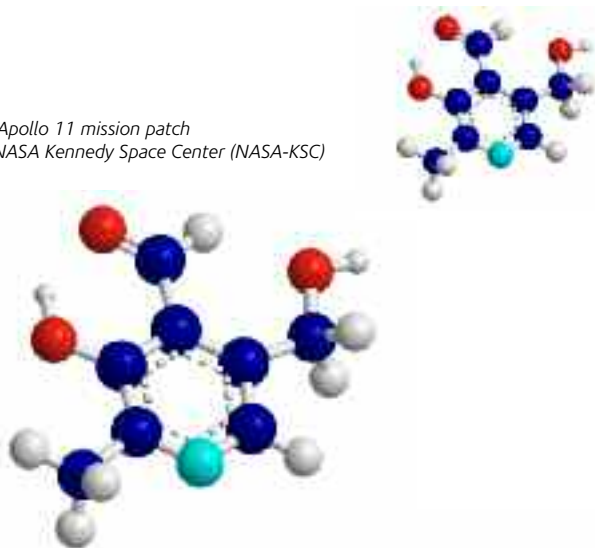
Star Party

An evening event exploring and observing the stars and planets

For further updates see www.dlevents.stfc.ac.uk

Official Apollo 11 mission patch

Credit: NASA Kennedy Space Center (NASA-KSC)



Talking Science



Science & Technology Facilities Council

Daresbury Laboratory

Talking Science

September 2009 - June 2010

The Science and Technology Facilities Council ensures the UK retains its leading place on the world stage by delivering world-class science; accessing and hosting international facilities; developing innovative technologies; and increasing the socio-economic impact of its research through effective knowledge-exchange partnerships.

The Council has a broad science portfolio including astronomy, particle physics, particle astrophysics, nuclear physics, space science, synchrotron radiation, neutron sources and high power lasers. In addition the Council manages and operates three internationally renowned laboratories including the Daresbury Laboratory. 'Talking Science' is one strand of its Science in Society programme which aims to inform and enthuse young people and the public about science and technology.

HOW TO BOOK

Evening lectures, school and special events

Admission to these events is by ticket only. Tickets are free but reservations must be made in advance from four weeks before the date of each lecture, either by phone on 01925 603040 or by e-mail to stftalkingscience@dl.ac.uk

When leaving a message, you should make sure you include the title of the lecture, number of tickets required, full postal address and daytime phone number. Please state if you are booking a daytime school lecture and ensure you book seats for accompanying adults.

Note: For the comfort and enjoyment of the audience, suggested age guide-lines are shown for each lecture. Children under 16 must be accompanied by, and sit with, a responsible adult. Food and drinks are not allowed in the Lecture Theatre.

Please switch off all mobile phones.

Science and Technology Facilities Council

Daresbury Laboratory

Daresbury Science and Innovation Campus, Daresbury,
Warrington WA4 4AD



www.stfc.ac.uk
www.dlevents.stfc.ac.uk

SCHOOL EVENTS

EVENING LECTURES

03/12/09 TIME 10:30am & 1:30pm Key Stage 2
SUSTAINABILITY SHOW Rob Wix *Bookings - Now open*

The Sustainability Show is packed with information and demonstrations that cover climate change, the greenhouse effect, food miles, recycling, carbon footprints and consumer choice. Environmental issues are revealed using everything from contemporary Hollywood films to the humble fish finger. Think you're saving the planet? Think again!

04/12/09 TIME 10:30am & 1:30pm Key Stage 2
NOW HEAR THIS Rob Wix *Bookings - Now open*

Now Hear This! is an interactive science show that demonstrates Music Technology in a way never heard before! Rob explores the sounds of computer games, mobile phones and even the voices in the audience. Volunteers can try out mixing, recording and having their voices rearranged with some very peculiar results!

26/03/10 TIME 1:30pm A Level
PARTICLE PHYSICS AND THE LHC
Professor Fred Loebinger *Bookings open 15/01/10*

Scientists have long been attempting to find the basic building blocks which make up the Universe. This quest has prompted the development of large particle accelerators, and has reached the strange sub-nuclear world of quarks, gluons and leptons. The talk will give an insight into the development of the subject, with a particular bias to the prominent part played by Manchester scientists. The latest discoveries, the promise of the LHC at CERN and pointers to the future will also be reviewed.

25/06/10 TIME 1:30pm Key Stage 3
THE MIND OF THE MACHINE: ARTIFICIAL INTELLIGENCE
Dr Paul Curzon *Bookings open 09/04/10*

We all know the movie plot, evil robots and computers taking over the world, but what is the reality? This talk looks at artificial intelligence research, the field of science that tries to build 'thinking machines'. How are they built? What can they do? And, as importantly, what can't they do?

18/09/09 TIME 7pm 12+
A SHORT HISTORY OF THE SRS AT DARESBUARY AND THE LEGACY OF 28 YEARS OF WORLD LEADING SCIENCE

Professor Bob Cernik *Bookings open 21/08/09*

The SRS (synchrotron radiation source) at Daresbury Laboratory began operating in the early 1980s however its origins go back further to 1968. This lecture will explain how a very simple idea for a super photon microscope was put into practice by 'borrowing' time on a much larger machine designed to study the atomic nucleus.

23/10/09 TIME 7pm 16+
IS HUMAN EVOLUTION OVER?

Professor Steve Jones *Bookings open 25/09/09*

Many people, from the Ancient Greeks to the present day, feel that the human race is in decline. That notion was, for those who believed it, given fresh impetus by the publication of The Origin of Species exactly a century ago. I, in contrast, will argue that we now know so much about the process of evolution that led to Homo sapiens that we can make some educated guesses about what might happen in the biological future - which, in fact, looks remarkably similar to that of today.

20/11/09 TIME 7pm 12+
HOW WE GOT TO THE MOON

Jerry Stone *Bookings open 30/10/09*

In 1969, one of mankind's greatest dreams became a reality when Apollo 11 landed the first men on the Moon. A highly visual presentation featuring original NASA images and video. 2009 marks the 40th anniversary of the First Men on the Moon. Celebrate it in a way that you won't forget!

03/12/09 TIME 7pm 7+
SUSTAINABILITY SHOW Rob Wix *Bookings open 13/11/09*
see schools events for synopsis

04/12/09 TIME 7pm 7+
NOW HEAR THIS Rob Wix *Bookings open 13/11/09*
see schools events for synopsis

29/01/10 TIME 7pm 16+
COSMIC DUST IN THE ATMOSPHERE: SHOOTING STARS, METAL LAYERS AND ICE CLOUDS

Dr John Plane *Bookings open 18/12/09*

About 50 tonnes of interplanetary dust enters the earth's atmosphere every day. Most of this dust comes from comets: these large "dirty" ice balls evaporate as they approach the sun, producing a trail of dust. The other source is the asteroid belt between Mars and the giant planets.

26/02/10 TIME 7pm 16+
FORENSIC ARCHAEOLOGY AND ANTHROPOLOGY AND THE INVESTIGATION OF ATROCITY CRIMES

Professor Margaret Cox *Bookings open 29/01/10*

The use of archaeological and anthropological skills in the context of the investigation of crime is now well established in the UK and elsewhere. Over the last two decades, these skills have increasingly been applied worldwide in the context of such crimes as genocide, war crimes and crimes against humanity. This presentation will provide an introduction to this subject and demonstrate how archaeology continues to be of relevance in the context of restorative justice and reconstruction.

26/03/10 TIME 7pm 16+
PARTICLE PHYSICS AND THE LHC

Professor Fred Loebinger *Bookings open 26/02/10*
see schools events for synopsis

30/04/10 TIME 7pm 12+
HOW TO CHEAT AT MIND-READING
Rob Eastaway *Bookings open 02/04/10*

From Uri Geller to Derren Brown, mind-reading has been captivating the public for generations. But some of the most mysterious 'mind-reading' of all comes from the world of maths. Rob demonstrates (and then explains) some of his favourite mathematical mind-reading tricks, some of which date back to the time of Leonardo da Vinci.

21/05/10 TIME 7pm 16+
FUSION STAR POWER
Dr Kate Lancaster *Bookings open 30/04/10*

Dr Kate Lancaster will lead us into the world of fusion, how it was responsible for life on earth, and how scientists plan to harness the incredible power of the stars as a future energy source here on earth.

25/06/10 TIME 1:30pm 12+
THE MIND OF THE MACHINE: ARTIFICIAL INTELLIGENCE
Dr Paul Curzon *Bookings open 28/05/10*
see schools events for synopsis

