

2017 Autumn Term Programme of events

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“Come and hear and meet world-class scientists unveil brilliant discoveries and developments in science, medicine and technology. People from all ages and backgrounds are welcome to join in and discover thought-provoking, remarkable things amongst Friends.”

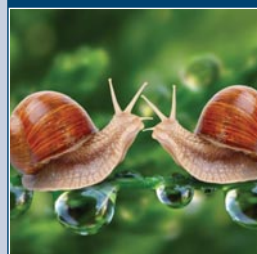
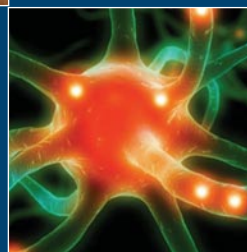
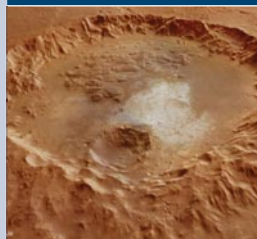
Roderick Rhys Jones, *Chairman*

For further information visit:

friendsofimperial.org.uk

OR

Contact the Administrator of
Friends of Imperial College:
admin@friendsofimperial.org.uk
020 3239 7699



Friends 2017 Autumn Term Programme

Everyone who is interested in the advances in science, technology, medicine and management is welcome at our events.

FRIENDS SUPPORTS THE PRESIDENT'S SCHOLARSHIP FUND

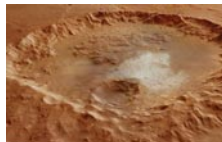
SPACE

WEDNESDAY 4 OCTOBER – SUNDAY 8 OCTOBER 2017



Friends Science Tour @ Space agencies, Darmstadt

Professor David Southwood, Chair of UK Space Agency, Past President of the Royal Astronomical Society; Dr Rolf Densing, Director ESOC; Alain Ratier, Director EUMETSAT



Tour of the European Space Operations Centre, ESOC; the European Organisation for the Exploitation of Meteorological Studies, Weather Satellite Agency, EUMETSAT; GSI Heavy Ion Accelerator, also the Hessisches Landesmuseum and possibly the Messel Fossil Pit.

COMPUTING

TUESDAY 10 OCTOBER 2017, 19.00

Cyber security: today's reality and tomorrow's possibilities



Professor Nick Jennings CB FREng Vice Provost (Research) Head of Research Strategy at Imperial College, Chair of Artificial Intelligence and previously advisor to Government on national security

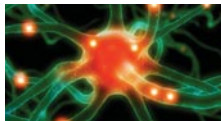
Cyber security is central to ensuring society can function effectively and make the most of digital technologies. However, keeping computer systems safe and secure is a major challenge, as evidenced by the almost daily stories of information breaches and cyber-attacks. Moreover, the situation will become ever more challenging as ever more devices on our bodies, in our home, at our work and embedded in our national infrastructure are networked.

NEUROSCIENCE

TUESDAY 7 NOVEMBER 2017, 19:00

Why we remember some things and forget others

Dr Claudia Clopath, Head of the Computational Neuroscience Laboratory, Lecturer in Bio Engineering



Gaining a better understanding of the brain is an urgent challenge in our society, due to higher incidence of neurological diseases, such as Alzheimer's and Parkinson's disease. Models that mimic the brain and the results of experiments work hand-in-hand to provide greater understanding.

Members-only events



Join Friends and take advantage of lower ticket prices and special Members-only events which this Autumn include visits to laboratories and research facilities.

About Friends

Friends organises an annual series of public lectures and a programme of Members-only visits and social events at Imperial College London, a world-leading science-based university with an academic faculty of the very highest quality and reputation.

HUMAN BIOLOGY/MEDICINE

THURSDAY 23 NOVEMBER 2017, 19:00

Hormone harmony: hunger and sex

Waljit Dhillon, Professor in Endocrinology & Metabolism

Our understanding of how different hormones trigger reactions in the brain has led to the development of 'hunger hormones' that limit people's desire for food on the one hand and on the other hormones which control reproduction and will lead to potential new treatments for infertility.



MATHEMATICS

WEDNESDAY 29 NOVEMBER 2017, AFTERNOON



Friends Science visit @ Winton Mathematics Gallery, Science Museum



Professor Igor Aleksander FREng, Emeritus Professor of Neural Systems Engineering, Dr David Rooney, Keeper of Technologies and Engineering, Science Museum

The gallery tells the story of how mathematics has shaped our world spanning 400 years of human ingenuity bringing mathematical history to life through the design and architecture of its displays. It includes WISARD a neural pattern recognition system designed by Prof Aleksander.

EARTH SCIENCES

TUESDAY 5 DECEMBER 2017, 19:00

Asteroid impact: life after death

Professor Joanna Morgan, Department of Earth Science and Engineering, Co-chief Scientist on IODP-ICDP Expedition 364: Drilling Chicxulub

Drilling the Chicxulub impact crater has led to a better understanding of the formation of large impact craters and the subsurface of other planetary bodies. The study revealed that large impacts may be catastrophic (as Chicxulub was to the dinosaurs) but could also have provided a habitat for early life on Earth.



Welcome

If you would like to meet a lively-minded friendly group of people interested in all aspects of science, then Friends is for you. Come along to one of our events and find out. To book an event, register for regular information or become a Member visit our website. friendsofimperial.org.uk Rod Rhys Jones, Chairman

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