

Cambridge Society for the Application of Research

Programme for the Academic Year 2010-2011

The Larmor Lecture

Monday, 11th October 2010

(This lecture is held jointly with the Cambridge Philosophical Society)

String Theory A unifying principle in theoretical physics

Professor Michael Green Lucasian Professor of Mathematics, University of Cambridge

(Note that **this** lecture (unlike the remainder of the Phil Soc lectures) Will take place in the **Babbage Lecture Theatre**, **New Museums**Site, and start at **5.30pm**).

THE CSAR LECTURES:

All CSAR lectures start at 7.30 p.m.

They will take place in our normal venue, the Wolfson Lecture Theatre, Churchill College, Storey's Way, Cambridge.

Coffee and biscuits are served before lectures at Churchill College from 7.00 p.m. in the foyer outside the theatre.

The CSAR Lectures are open to all; CSAR members are admitted free (together with their guests, depending upon their type of membership).

Non-members are asked to pay a nominal entry fee of £3.00

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Dr Peter Forster
Mr Robin Bligh
Dr Richard Freeman
Mrs Susan Gurney
Dr Nigel Bennée

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MICHAELMAS TERM, 2010

MONDAY 18TH OCTOBER AUTUMN AND PLANT PHYSIOLOGY

Professor Brian J FordPresident of the CSAR

MONDAY 1st NOVEMBER

Annual Meeting of the CSAR, followed by:

Molecular Modelling of Anaesthetics

Dr Pak-Lee Chau

Bioinformatique Structurale, CNRS URA 2185 Institut Pasteur, 75724 Paris, France

MONDAY 15th NOVEMBER

Sustainable Energy in the UK

Dr Bernie Bulkin

Commissioner for Energy and Transport, UK Sustainable Development Commission

MONDAY 29th NOVEMBER

Human Contact Networks

The mathematics of how diseases spread

Dr Jon Crowcroft

Marconi Professor of Communications Computer Laboratory, University of Cambridge

LENT TERM, 2011

TUESDAY, 8TH FEBRUARY

This CSAR lecture is being held jointly with the Cambridge Philosophical Society. Apart from being on a Tuesday, it will take place at our **normal time** and **place** (7.30pm in the Wolfson lecture Theatre).

Ice Sheet Changes in the Antarctic

A tale of robotic submarines, phase-sensitive radar and Antarctic ice

Dr Adrian Jenkins

British Antarctic Survey, Cambridge

MONDAY, 21ST FEBRUARY

Peanut Allergies

Dr Andrew Clark

Consultant in Paediatric Allergy Addenbrookes NHS Foundation Trust

MONDAY 7TH MARCH

Mathematics of Complex Systems

The Physical Aspects of Multi-cell Systems (including bacterial and algal suspensions)

Dr Ray Goldstein

Schlumberger Professor of Complex Physical Systems Centre for Mathematical Sciences, University of Cambridge

MONDAY, 21ST MARCH

High Temperature Superconductors

(including a demonstration of magnetic levitation)

Professor David A Cardwell

Professor of Superconducting Engineering, Department of Engineering, University of Cambridge

EASTER TERM, 2011

TUESDAY 26TH APRIL

DNA Profiling of Horses

Their Breeds and Fossils

Susan Gurney

University of Cambridge Institute of Continuing Education

MONDAY 9TH MAY

The Mathematics of Large Assemblies

Understanding large groups of individuals

Professor Tim Gowers

Department of Pure Mathematics and Mathematical Statistics University of Cambridge

MONDAY 23RD MAY

Protein Crystallography

The structure of multi-component proteins

Emeritus Professor Sir Tom Blundell, FRS

Department of Biochemistry, University of Cambridge

MONDAY 6TH JUNE

Human Diabetes

Identifying those at risk, and the Prevention of Diabetes and CVD

Dr Rebecca Simmons

MRC Epidemiology Unit, Addenbrookes Hospital, Cambridge

The CSAR visits

CSAR traditionally plans a Summer Visit at the end of Easter Term. We organise an 'Autumn Colours' visit for late September or early October (depending on conditions). The CSAR visits are organised by:

Susan Gurney, phone 01954 201948; e-mail: smrw2@cam.ac.uk

Objectives of the Society

"The CSAR exists to encourage an appreciation of the sciences and to promote co-operation, within and between the University of Cambridge, industry and commerce.

The CSAR also promotes education in science, and the application of resources and research."

Financial Administration

Barry Thompson

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Membership Secretary

Dr Nigel Bennée

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Please send your application form (which may be found on the Society's website) to this address if you wish to join the CSAR.

Payment of subscriptions should be made by post to **Barry Thompson** (see above), or to a Member of Council at one of our lectures.

Postgraduate students are eligible for free membership, but are required to register their details with the Membership Secretary.