

# CSAR

c/o Sagentia Limited  
Harston Mill  
Harston  
Cambridge CB2 5GG  
Telephone: +44 (0) 1223 875 200  
Facsimile: +44 (0) 1223 875 201  
(Organising Secretary's Home Number: 01799 525 948)  
email: richard.freeman@sagentia.com  
CAMBRIDGE SOCIETY FOR THE APPLICATION and  
APPRECIATION of RESEARCH

For forthcoming lectures, see <http://talks.cam.ac.uk/show/index/5366>



## “The Calving of Larsen-B (and other phenomena)” Climate Change in the Antarctic

Professor David Vaughan<sup>1</sup>  
Deputy Director, the British Antarctic Survey, Cambridge

7.30 p.m., Monday 19th February, 2007  
The Wolfson Lecture Theatre, Churchill College, Storey's Way, Cambridge

The Chairperson will be **Professor Elizabeth Morris** from the Scott Polar Research Institute  
The Vote of Thanks will be proposed by **Brian Ford (CSAR Council)**

### Professor Vaughan writes:

#### “Antarctica, ice sheets and climate change”

In parts of Antarctica, rates of measured climate warming are the highest anywhere in the Southern Hemisphere – in another part, there has been a cooling. How are we to interpret such a complex pattern of climate change, and what are the implications for the future of the Last Continent?

The latest report by the Inter-governmental Panel on Climate Change, identifies the response of the great ice sheet of Antarctica and Greenland to climate change is the greatest uncertainty in

<sup>1</sup> We had billed the BAS Director, Prof. Chris Rapley; but he has been called away – to the Antarctic!!!

#### COUNCIL

**Prof. Sir Sam Edwards FRS** *President*  
(Dept. of Physics, Cavendish Laboratory)

**Dr. Richard Jennings**  
(Cambridge Enterprise)  
**Mr. Robin Bligh FCA**

*Vice President*  
*Corporate Secretary*

**Dr. Richard Freeman FRSA FIFST**  
*Organising Secretary*  
(Sagentia Limited)  
**Elizabeth Platts** (*Organising Sec<sup>c</sup>-(Visits).*)

Prof. Haroon Ahmed ScD FREng  
(Dept. of Physics, Cavendish Laboratory)  
Prof. Brian J Ford CBIol, FIBiol, FLS, NESTA  
Fellow and Fellow of Cardiff University

Dr. David Fyfe  
(Cambridge Display Technology)  
Prof. Elizabeth (Lisa) Hall FRSC  
(Institute of Biotechnology)  
Prof. Laurie Hall FRS(Can), FRSC (Life Fellow,  
Emmanuel College)

Mr. Ian Kent  
(Innovata plc, Ardana plc and Intercytex plc)  
Mr. Chris Smart  
(IDG Ventures Europe)

projections of sea-level rise. Why, when so much other climate science seems to be converging, is there still so much uncertainty in this particular part of the puzzle?

In a wide ranging talk covering many aspects of climate change and its significance to Antarctica and the rest of the Planet, David Vaughan will try to cast some light on these issues, which may turn out not to be as simple as the sound bites would lead us to believe.

### **About the Speaker:**

David Vaughan was an undergraduate at Churchill College in the 1980s. All the time he was an undergraduate, he harboured a yearning to go to Antarctica. David has never moved far from Cambridge, but has now completed eight expeditions to Antarctica, and published research on many aspects of climate and ice-sheet research. He is now a Principal Investigator at the British Antarctic Survey in Cambridge, and Professor in the School of Environment and Society at Swansea University. He is currently a Coordinating Lead Author for the Intergovernmental Panel on Climate Change.

His most widely known research concerns demonstrating a link between climate change and retreating ice shelves in Antarctica, including Larsen-B Ice Shelf, which collapsed spectacularly in 2002. He also leads the British Antarctic Survey Programme on ice sheets and climate change.

### **CSAR Lent Term Visit:**

The Lent term visit will be to the British Antarctic Survey, and will take place in the afternoon of **Friday 23<sup>rd</sup> February**. This is the Friday following the Deputy Director's CSAR lecture, so you should all be in the spirit. Elizabeth writes:

"The visit is booked for Friday 23<sup>rd</sup> Feb at 2pm. There will be an intro from Paul Rodhouse [Head of Biological Sciences Division] plus a BAS Audio-Visual [which I know is really good], followed by questions and then, in smaller groups, visits to various labs [ice core] and clothes store and the BAS Mapping Unit [MAGIC].

Finally everyone will meet for tea and biscuits at the end.

There is parking on the site, but if it is all taken, the Madingley Park and Ride is opposite the entrance to BAS."

Please contact Elizabeth Platts to book a place; a nominal £2 per person will be charged. The CSAR visits are **only** available to CSAR members (including corporate members), and are part of the reason for belonging to the CSAR

Elizabeth may be contacted on 01223 525 681, by post at 29 Mawson Road, CB1 2DZ, or by email at [elizaplatts@yahoo.co.uk](mailto:elizaplatts@yahoo.co.uk), **Places must be booked in advance**

Best Regards

Richard Freeman, CSAR Organising Secretary  
**Coffee available**, as usual, in the foyer outside the lecture theatre from ~7.00 p.m.

This graphic shows the surface air temperature (Celsius) trend averaged over the years 2000 to 2050, based on model simulations that combine projected greenhouse gas and ozone trends. Most areas warm by 1 to 3 degrees Celsius (~3 to 6 Fahrenheit) in the model. Credit: Drew Shindell, Gavin Schmidt, NASA GISS

