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CAMBRIDGE SOCIETY FOR THE APPLICATION and
APPRECIATION of RESEARCH

NOTE: THIS LECTURE IS ON A TUESDAY: TUESDAY! TUESDAY!!!

“LOOKING INSIDE A STAR (AND OTHER STORIES)”

Developments in Radio Astronomy made here in Cambridge

Prof. Richard Hills
Professor of Radio Astronomy, the Cavendish Laboratory, Cambridge

7.30 p.m., **TUESDAY** 6th June, 2006
The Wolfson Lecture Theatre, Churchill College, Storey's Way, Cambridge

About the lecture (Professor Hills writes.....)

Richard Hills is the Professor of Radio Astronomy at the Cavendish Laboratory in the University of Cambridge. He works in the Astrophysics Group which carries out a wide-ranging programme of experimental, observational and theoretical astrophysics. The Group's research lays particular emphasis on observation and interpretation of the emission from radio sources and the cosmic microwave background, on optical interferometry and the development of millimetre-wave detector technology.

Richard Hills' own scientific interests are centred on the formation of stars and galaxies. He has been deeply involved in the development of telescopes (particularly the James Clerk Maxwell Telescope in Hawaii) and instrumentation for pioneering the study of these topics. He has recently been working on the development of a large international project, ALMA, which is now starting construction, in particular on the use of water vapour radiometers for correcting atmospheric phase fluctuations and on the design and testing of the antennas.

He also has an involvement in the Planck project as an advisor to ESA on the development of the telescope.

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About the Speaker

Richard Hills graduated in Physics from Cambridge in 1967. His PhD was in Radio Astronomy at Berkley, followed by postdoctoral studies at the Max Plank Institute in Bonn and the Mullard Radio Astronomy Observatory in Cambridge – where he is now works in his role of Professor of Radio Astronomy at the Cavendish!

Projects in which he has been closely involved include the James Clerk Maxwell Telescope at Culham and Hawaii; the JCMT-CSO interferometer project; and the submillimeter heterodyne array receiver, recently delivered to JCMT;

Richard is a Fellow of St Edmunds College, and since 1993 has been the University's Director of Studies for Natural Sciences

He was awarded the Jackson-Gwilt Medal of the Royal Astronomical Society in 1989, and the MacRobert Award of the Fellowship of Engineers in 1990.

Richard is married, with two children

The Organising Secretary adds.....

I am looking for a **Vote of Thanks** for Richard's lecture; and a **Chair-person** too!

Please contact me (richard.freeman@genericsgroup.com or by leaving a message on 01799 5325 948) if you would like to volunteer (make sure I have your contact details).

It has been suggested that I recruit Chairs and VoTs to a greater extent from amongst our membership – so here's your chance!

Those who attended the Summer Visit last year will have strong memories of the MRAO at Lord's Bridge; Professor Hills was one of the pair of scientists who showed us round, on a gorgeous summer's evening and I took no time at all in signing him up for a lecture!

Sorry about the day (Tuesday); Churchill gave away the Monday. But for 2006/7, all our lectures will be on Mondays (I've booked well in advance this time).

Last week we took **£52.50 in admissions** – 21 people! So our policy of charging non-members seems to be working out well. Having said that, there are still people who are not members and who refuse to pay the nominal £2.50 for attendance (this sum scarcely covers the cost of the coffee and biscuits, never mind the rental of the lecture hall etc etc.) I suppose they think that everything should be for free! Well done Elizabeth for all your work, in collecting money and organising our visits.

Coffee available, as usual, in the foyer outside the lecture theatre from ~7.00 p.m.

Richard Freeman
CSAR Organising Secretary