



c/o Scientific Generics Limited
Harston Mill
Harston
Cambridge CB2 5GG
Telephone: +44 (0) 1223 875200
Facsimile: +44 (0) 1223 875201
(Organising Secretary's Home Number: 01799 525 948)
email: richard.freeman@genericsgroup.com
CAMBRIDGE SOCIETY FOR THE APPLICATION and
APPRECIATION of RESEARCH

“Receiving you, Loud and Clear”

(Digital Radio, and its future in the UK)

Mike Ellis

BBC Research and Development

Monday, 5th December, 2005; 7.30 - 9.00 p.m.
The Wolfson Lecture Theatre, Churchill College, Cambridge

Chair: to be announced
Vote of Thanks: to be announced

About the lecture:

Mike Ellis writes.....

I graduated from the University of Kent at Canterbury (UKC) in 1993 with a degree in Electronic Engineering before joining the team at BBC Research and Development experimenting with digital broadcasting. I have spent the last twelve years developing and enhancing the BBC's Digital Audio Broadcasting (DAB) infrastructure, both at transmitter sites and in Broadcasting House.

About the speaker:

It's just a radio, right? Wrong. Starting from the viewpoint of the listener, I will look at the three primary benefits of DAB Digital Radio over more conventional radio broadcasting standards. Starting with the reliability of reception before moving on to cover ease of use and data-enhanced services, the key technologies behind DAB will be highlighted. The talk will then look at some of the key problems encountered during the development and implementation of DAB complete with a glimpse into the technical solutions devised to solve the problems. I will round off with a look to the future of digital broadcasting, including both digital television and DRM, shortwave digital radio.

COUNCIL

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

Prof. Haroon Ahmed ScD FREng
(Dept. of Physics, Cavendish Laboratory)
Prof. Derek Burke CBE, DL
(former VC of the University of East Anglia)
Mr. Brian J Ford CBIol, FIBiol, FLS, NESTA
Fellow and Fellow of the Cardiff University

Dr. Richard Jennings *Vice President*
(Research Services Division)
Mr. Robin Bligh FCA *Corporate Secretary*

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

Dr. Richard Freeman FRSA FIFST
Organising Secretary
(Scientific Generics)
Elizabeth Platts (Organising Sec^c(Visits).)
Prof. Anthony Kelly CBE FREng FRS
(Materials Science & Metallurgy Dept)
Mr. Ian Kent
(Innovata plc, Ardana plc and Intercytex plc)
Mr. Chris Smart
(IDG Ventures Europe)

The CSAR Organising Secretary adds.....

I arranged for Mike to give us his talk just before Christmas, in case anyone was stuck for a present for a loved one! Digital radio is super for those as can get it (which, incidentally, does not include me in my bunker in Saffron Walden, shadowed by the stonework of St Mary's Church).

I do believe that there is another protocol being rolled out which enables digital broadcasting on e.g. medium and long-wave; called DRM (digital radio mondiale, see <http://www.drm.org/>)

This sounds such a wonderful idea that ought to revolutionise listening to us radio heads.

Sufficient, in fact, to persuade me not to buy an FM digital receiver, in the fond hope that someone might start digital broadcasting on AM instead (St Mary's Church is quite transparent at these frequencies!)

Doubtless, Mike Ellis will be able to persuade me otherwise!

Coffee and biscuits available, as usual, in the foyer outside the lecture theatre from ~7.00 p.m. Once again, we shall be charging non-members a nominal sum for entry.

Richard Freeman
CSAR Organising Secretary