

David J.C. MacKay FRS

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Education

- 1988–91 California Institute of Technology, U.S.A.:
PhD, Computation and Neural Systems.
- 1985–88 Trinity College, Cambridge:
B.A., Natural Sciences (Physics and Theoretical Physics). Triple first.
- 1978–85 Newcastle-under-Lyme School, Staffordshire. Ten O-, six A-, and two S-levels.

Employment

- 2013–now Regius Professor of Engineering, Cambridge Univ.
- 2009–now Chief Scientific Advisor, Department of Energy and Climate Change.
- 2003–2013 Professor of Natural Philosophy, Department of Physics, Cambridge Univ.
- 1999–2003 Reader in Natural Philosophy, Department of Physics, Cambridge Univ.
- 1995–99 University Lecturer, Department of Physics, Cambridge Univ.
- 1992–95 Royal Society Smithson Research Fellow, Darwin College, Cambridge.

Prizes and awards

- 2013 Melchett Award, Energy Institute.
- 2013 Honorary Doctorate, University of Strathclyde
- 2012 Hon. Fellowship of the Chartered Inst. of Building Services Engineers.
- 2010 Clifford Paterson Lecture, Royal Society.
- 2010 Elected Fellow of the Institution of Civil Engineers.
- 2009 Elected Fellow of the Institute of Physics.
- 2009 Elected Fellow of the Royal Society.
- 1995–2006 Research grants with value £1 100 000.
- 2001, 1999 IBM Partnership Awards.
- 1999 Communications Society Leonard G. Abraham Prize Paper Award (with R.J. McEliece and J.-F. Cheng).
- 1993 Winner of ASHRAE prediction competition.
- 1986–8 Senior scholarship, Trinity College.
- 1985 International Physics Olympiad, Yugoslavia: silver medal overall; first prize for experimental work.

Invited talks (recent selection)

- 2013 Barlow Memorial Lecture, UCL Electronic and Electrical Engineering Department
- 2012 Blakett Memorial Lecture, Operational Research Society.
- 2012 Swiss Energy and Climate Symposium, Bern.
- 2012 International Conference on Machine Learning, Edinburgh.
- 2011 James Blyth Lecture, Strathclyde University.

- 2011 Cabot Institute, Bristol University – first annual lecture.
- 2011 IET Yorkshire and the Humber Prestige Lecture, Leeds
- 2011 IET Prestige Lecture, Cambridge
- 2011 John Lewis Lecture, ASE Annual Conference
- 2010 Clifford Paterson Lecture, Royal Society
- 2010 Lubbock Lecture, Department of Engineering, Oxford University.
- 2010 Energy Leadership Lecture, UCSB.
- 2010 J Tuzo Wilson Lecture, University of Toronto.
- 2010 Goldstein lecture, MIT.
- 2005 IEEE International Symp. on Information Theory, Adelaide. Plenary speaker.

Academic contributions

- 2011–14 Winton Programme for the Physics of Sustainability, International Advisory Board
- 2010–13 Research Councils UK Energy Programme Scientific Advisory Committee
- 2009–10 UKERC Research Committee.
- 2008–10 Executive Board, Department of Physics, University of Cambridge.
- 2007–09 Royal Society’s International Fellowship Panel.
- 2001–07 Council, Cambridge Philosophical Society.
- 2006–08 Founder of *talks.cam* website to promote cross-disciplinary interactions in the academic community.
- 2003,4,5,6 Lecturer, African Institute for Mathematical Sciences, Cape Town.
- 1994–8 Lecturer, Cambridge Programme for Industry courses on: *Modelling Uncertainty*, *Neural Networks*, and *Modelling phase transformations in steels*.

Non-academic offices held, voluntary work

- 2008–09 World Economic Forum Global Agenda Council on Climate Change.
- 2000–08 *Sally Clark campaign*. Manager of website, www.sallyclark.org.uk.
- 2006–08 Senior Treasurer, Cambridge Zero Carbon Society
- 2003–04 Executive, Cambridge and St. Ives Railway Organization.
- 1994–2008 Senior Treasurer, Cambridge Ultimate.
- 2000–03 Librarian, Darwin College.
- 1992–2008 Council; Computer, Family, Library, and Music committees, Darwin Coll.
- 1990–91 Chair, Caltech Environmental Task Force.

Recreational interests

Ultimate frisbee. Classical music. Outdoor pursuits.