



The Harold Jeffreys Lectures

An annual series of lectures on geophysics. The Harold Jeffreys lecture is generally reserved for topics concerning the interior structure, formation and composition of the Earth and/or planets (e.g. seismology, tectonics, geodesy, geomagnetism, solar system dynamics, meteoritics).

| Year | Name of Lecturer | Date Lecture Given | Title of Lecture |
|------|-----------------------|--------------------|--|
| 2024 | Jessica Irving | TBC | TBC |
| 2023 | - | - | - |
| 2022 | Rhodri Davies | 2023 April 14 | Linking intra-plate volcanism to underlying mantle dynamics |
| 2021 | Sanne Cottaar | 2022 April 22 | <i>Geological mapping of the core- mantle boundary: unravelling the mysteries of the deep Earth</i> |
| 2019 | Francis Nimmo | 2021 November 19 | <i>Three surprises from Planetary Science</i> |
| 2018 | Alessandro Morbidelli | 2018 December 12 | <i>Combining dynamical and geochemical modeling: a powerful approach to understand the early history of the Earth and the Moon</i> |
| 2017 | Tim Wright | 2017 October 13 | <i>Monitoring our dynamic planet using satellite geodesy</i> |
| 2016 | Jenny Collier | 2016 November 11 | <i>Making Britain: evidence for catastrophic flooding in the English</i> |

| | | | <i>Channel</i> |
|------|------------------|------------------|--|
| 2015 | Anthony Watts | 2016 February 12 | <i>Plate flexure and its implications for geological processes</i> |
| 2014 | Alex Halliday | 2014 November 14 | <i>The origin of the Earth and Moon</i> |
| 2013 | Robert White | 2013 October 11 | <i>Building the dynamic crust of Iceland by rifting and volcanism</i> |
| 2012 | William Chaplin | 2013 February 08 | <i>Helioseismology: The Solar Interior Revealed</i> |
| 2011 | Lyndsay Fletcher | 2011 May 13 | <i>The Sun at high energies</i> |
| 2010 | Steve Miller | 2010 November 12 | <i>Do extrasolar planets go bang?</i> |
| 2009 | Emma Bunce | 2009 November 13 | <i>Recent Observations of Saturn's Magnetosphere Using Cassini</i> |
| 2008 | Monica Grady | 2008 November 14 | <i>Astronomy by microscope</i> |
| 2007 | Alan Hood | 2007 May 11 | <i>The Sun: A new dawn</i> |
| 2006 | Athena Coustenis | 2006 November 10 | <i>Titan after the Cassini- Huygens Mission</i> |
| 2005 | P. Silver | 2005 November 11 | <i>Mantle Deformation, Continental Evolution and the Wilson Cycle: Paradoxes and Proposals</i> |
| 2004 | James Jackson | 2004 November 12 | <i>The support of mountains and the survival of continental cratons</i> |
| 2003 | M.E. Bailey | 2004 March 12 | <i>The Origin of Comets and the Oort Cloud</i> |
| 2002 | F. R. Stephenson | 2002 October 11 | <i>Historical Eclipses and the Earth's Rotation</i> |
| 2001 | S. Solanki | 2002 January 11 | <i>Solar Variations and climate change</i> |

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| 2000 | R. Grieve | 2001 January 12 | <i>Impacts and Earth evolution</i> |
| 1999 | T. Robinson | 2000 May 12 | <i>Waves, Feedback and the Ionosphere: A fresh look at some unsolved problems of the Solar- Terrestrial environment</i> |
| 1998 | P. G. Richards | 1999 March 12 | <i>Earth's Inner Core - Discoveries and Conjectures</i> |
| 1997 | M. H. Carr | 2000 February 11 | <i>Martian Oceans, Valleys and Climate: New Insights from Mars Global Surveyor</i> |
| 1996 | P. Molnar | 1997 January 10 | <i>Uplift of the Tibetan Plateau: From Mantle Dynamics to the Indian Monsoon</i> |
| 1995 | J. C. Farman | 1995 November 10 | <i>Ozone and Middle Atmosphere</i> |
| 1994 | A. Brahic | 1994 November 11 | <i>Planetary Rings and Arcs</i> |
| 1993 | P. J. S. Williams | 1993 November 12 | <i>High Resolution Radar Studies at the Ionosphere</i> |
| 1992 | D. J. Southwood | 1992 March 13 | <i>The Oscillating Magnetosphere</i> |
| 1991 | B. A. Bolt | 1991 May 10 | <i>The precision of density estimation deep in the Earth</i> |
| 1990 | D. Gubbins | 1990 March 9 | <i>Inverse Problems in Astronomy and Geophysics</i> |
| 1989 | K. Lambeck | 1989 May 12 | <i>Sea-level Change: Past, Present and Future</i> |
| 1988 | E. Shoemaker | 1988 December 9 | <i>Solar System Roulette: The Frequency and Consequences of Large Body Impacts on the Earth</i> |

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| 1987 | C. T. Russell | 1987 November 13 | <i>Comet Halley: Its interaction with the solar wind and its effect on the Earth's magnetosphere</i> |
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|-------------|----------------------------|---------------------------|---|
| 2020 | Andrew Pontzen | 2021 March 12 | <i>Dwarf galaxies in cosmology</i> |
| 2018 | Lord Martin Rees of Ludlow | 2018 February 08 | <i>Progress and frustrations in cosmology</i> |
| 2016 | Neil Turok | 2016 October 14 | <i>Universe</i> |
| 2014 | Ofer Lahav | NAM 2014 | <i>The enigma of Dark Matter & Dark Energy: have we been here before?</i> |
| 2012 | Andrew Liddle | 2012 November 09 | <i>The Universe, Darkly</i> |
| 2011 | Alexander Vilenkin | 2011 April 19 | <i>The Principle of Mediocrity</i> |
| 2009 | George Ellis | 2009 April 23 | <i>Evidence and theory, Fact and Fancy: the state of cosmology today</i> |
| 2005 | Carlos Frenk | 2006 December 08 | <i>Our Implausible Universe</i> |
| 2003 | Paul Davies | 2004 October 08 | <i>The Arrow of Time</i> |
| 2001 | John D. Barrow | 2002 March 08 | <i>Cosmology: A Matter of All and Nothing</i> |