Royal Astronomical Society

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
2026	Andy Biggin	TBC	TBC
2025	Andrew Valentine	TBC	TBC
2024	Jessica Irving	2025 January 10	*Hearing planetary hearts: seismology of the cores of Earth and Mars*
2023	-	-	-
2022	Rhodri Davies	2023 April 14	*Linking intra-plate volcanism to underlying mantle dynamics*
2021	Sanne Cottaar	2022 April 22	*Geological mapping of the core- mantle boundary: unravelling the mysteries of the deep Earth*
2019	Francis Nimmo	2021 November 19	*Three surprises from Planetary Science*
2018	Alessandro Morbidelli	2018 December 12	*Combining dynamical and geochemical modeling: a powerful approach to understand the early history of the Earth and the Moon*
2017	Tim Wright	2017 October 13	*Monitoring our dynamic planet using satellite geodesy*
2016	Jenny Collier	2016 November 11	*Making Britain: evidence for catastrophic flooding in the English Channel*
2015	Anthony Watts	2016 February 12	*Plate flexure and its implications for geological processes*

2014	Alex Halliday	2014 November 14	*The origin of the Earth and Moon*
2013	Robert White	2013 October 11	*Building the dynamic crust of Iceland by rifting and volcanism*
2012	William Chaplin	2013 February 08	*Helioseismology: The Solar Interior Revealed*
2011	Lyndsay Fletcher	2011 May 13	*The Sun at high energies*
2010	Steve Miller	2010 November 12	*Do extrasolar planets go bang?*
2009	Emma Bunce	2009 November 13	*Recent Observations of Saturn's Magnetosphere Using Cassini*
2008	Monica Grady	2008 November 14	*Astronomy by microscope*
2007	Alan Hood	2007 May 11	*The Sun: A new dawn*
2006	Athena Coustenis	2006 November 10	*Titan after the Cassini-Huygens Mission*
2005	P. Silver	2005 November 11	*Mantle Deformation, Continental Evolution and the Wilson Cycle: Paradoxes and Proposals*
2004	James Jackson	2004 November 12	*The support of mountains and the survival of continental cratons*
2003	M.E. Bailey	2004 March 12	*The Origin of Comets and the Oort Cloud*
2002	F. R. Stephenson	2002 October 11	*Historical Eclipses and the Earth's Rotation*
2001	S. Solanki	2002 January 11	*Solar Variations and climate change*
2000	R. Grieve	2001 January 12	*Impacts and Earth evolution*
1999	T. Robinson	2000 May 12	*Waves, Feedback and the Ionosphere: A fresh look at some unsolved problems of the Solar- Terrestrial environment*
1998	P. G. Richards	1999 March 12	*Earth's Inner Core - Discoveries and Conjectures*

1997	M. H. Carr	2000 February 11	*Martian Oceans,Valleys and Climate: New Insights from Mars Global Surveyor*
1996	P. Molnar	1997 January 10	*Uplift of the Tibetan Plateau: From Mantle Dynamics to the Indian Monsoon*
1995	J. C. Farman	1995 November 10	*Ozone and Middle Atmosphere*
1994	A. Brahic	1994 November 11	*Planetary Rings and Arcs*
1993	P. J. S. Williams	1993 November 12	*High Resolution Radar Studies at the Ionosphere*
1992	D. J. Southwood	1992 March 13	*The Oscillating Magnetosphere*
1991	B. A. Bolt	1991 May 10	*The precision of density estimation deep in the Earth*
1990	D. Gubbins	1990 March 9	*Inverse Problems in Astronomy and Geophysics*
1989	K. Lambeck	1989 May 12	*Sea-level Change: Past, Present and Future*
1988	E. Shoemaker	1988 December 9	*Solar System Roulette: The Frequency and Consequences of Large Body Impacts on the Earth*
1987	C. T. Russell	1987 November 13	*Comet Halley: Its interaction with the solar wind and its effect on the Earth's magnetosphere*