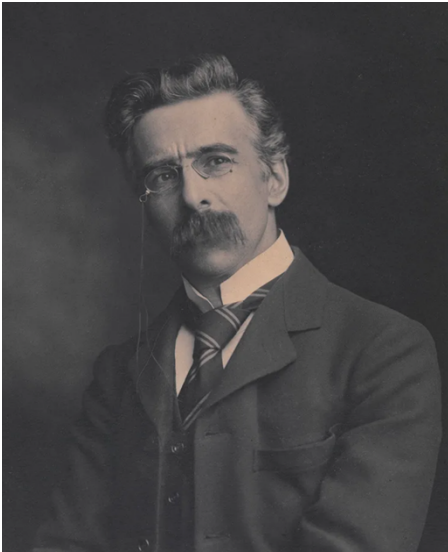


John Joly Memorial Lectures



This public lecture series was established utilising funds subscribed by friends and colleagues after John Joly's death in 1933 (see P.N. Wyse Jackson *In Marble Halls: Geology in Trinity College, Dublin*, Dublin, 1993, p. 40). The sum collected was equivalent to approximately €150,000 which generates an annual premium which is used to cover the costs of the lecture. Originally envisioned to be delivered in alternate years where several lectures would be delivered on successive days, in the 1940s lecturers were appointed for a three-year term but only delivered two lectures usually in one of those years. This scheme was modified in 1974 when only one lecture was generally delivered annually. From the early 1990s single annual lectures were interspersed on occasion with years when two lectures were given by different speakers on

separate occasions. In 1989 the first colloquium on a specific topic took place and these generally take the format of having up to three speakers deliver short talks. Where known the titles of lectures are given.

- 1935 Ernest Rutherford (University of Cambridge): (1) Radioactive transformations: Old and New (Delivered 23 January 1935 in the GMB; published in *Nature* 23 February 1935), 289–292; (2) The new Hydrogen and artificial transformations (Delivered 24 January 1935 in the Physical Laboratory [Physics]). [1st series of lectures]
- 1937 Robert Andrews Millikan (California Institute of Technology (CalTec)): (1) The discovery of cosmic rays and its general significance; (2) Super-power particles; (3) Facts and speculations in the field of cosmic rays. Published as *Cosmic Rays: three lectures* Cambridge University Press, 1939. Also delivered as the 1936 Page-Barbour Lectures, University of Virginia. [2nd series of lectures]
- 1939 Edward B. Bailey (Geological Survey of Great Britain): (1) Ring fractures in volcanoes; (2) Eddies in mountain structure. [3rd series of lectures]
- 1942 Henry H. Dixon (Botany, TCD): (1) The transport of materials in vascular plants; (2) title unknown.
- 1946 Hans Pettersen (University of Gottenburg): (1) title unknown; (2) Radium and the Deep Sea.
- 1949 George Paget Thomson (Imperial College London)
- 1951 Richard Foster Flint (Yale University)
- 1954 William Quarrier Kennedy (University of Leeds)
- 1956 Philip H. Kuenen (University of Groningen) (Lecture delivered after opening of new Iveagh Geological Laboratory 10 May 1956)
- 1961 Rudolf Trümpy (ETH Zürich)
- 1962 Robert Stoneley (USA Coast and Geodetic Survey): (1) The data of geophysics: the age of the Earth; (2) The structure of the continent and ocean floors; (3) The shape of the Earth, the deep interior. [11th series of lectures]
- 1965 S. Keith Runcorn (University of Newcastle-upon-Tyne): (1) Palaeomagnetism and continental drift; (2) Continental drift and the Earth's evolution.
- 1967 John Stuart Webb (Imperial College, London): (1) Geochemistry and the community; (2) Regional geochemical reconnaissance in medical prospecting, agriculture and medical geography.

- 1970 André Guilcher (University of Paris): (1) Coral Reefs of French Polynesia; (2) Coastal features in Brittany.
- 1972 Brian McK. Bary (University College Galway): (1) Towards Oceanography in Ireland; (2) The next five years.
- 1974 John R.L. Allen (University of Reading): The Old Red Sandstone: evidence of Devonian rivers.
- 1976 Martin H.P. Bott (University of Durham): The continental margins of the Atlantic Ocean: their origin and development.
- 1978 Martin J.S. Rudwick (Vrije Universiteit, Amsterdam): Geological attitudes to Earth history: an anthropological interpretation.
- 1979 Michael C. Boulter: Irish Tertiary plant fossils in a European context [As part of a symposium held in honour of G.F. Mitchell]; published *Journal of Earth Sciences, Royal Dublin Society*, 1980.]
- 1980 L. Beverly Halstead (University of Reading): The first vertebrates—a revolution in evolution.
- 1982 Harry B. Whittington (University of Cambridge): Significance of the Burgess Shale (Cambrian) animals.
- 1986 Kenneth Jinghwa Hsü (ETH Zürich): Darwin's three mistakes.
- 1988 Donald H. Tarling (University of Plymouth): Minoans, magnetism and magmatism: the eruption of the Santorini Volcano and the end of the Minoan civilisation in Crete.
- 1989 Martyn Anglesea (Ulster Museum), Jack Preston (Queen's University, Belfast): The Giant's Causeway: art and geology. [Colloquium]
- 1990 Alain Blicq (Université des Sciences et Techniques de Lille): At the origin of chordates.
- 1993 D.Q. Bowen (Royal Holloway, London): The ice age North Atlantic.
 Jake M. Hancock (Imperial College, London): The geology of wine.
- 1994 Robert Hutchison (Natural History Museum, London): Meteorites: time and the young Earth.
- 1995 Douglas W. Holliday (British Geological Survey): The geology of Sellafield.
- 1996 Peter Coxon (Geography, TCD): Climate change: the evidence from the past 2.5 million years.
 J.F. Mitchell (Hadley Centre for Climate Prediction and Research in Britain): Modelling past and future climate change. [Colloquium on 'Climate Change']
- 1997 W. Mike Edmunds (British Geological Survey): Aquifers as archives of environmental change;
- 1998 Philip P.E. Weaver (National Oceanography Centre, Southampton): Collapsing islands, eroding continents – secrets from the ocean floor.
 William J. McGuire (University College London): Collapsing volcanoes, giant waves, and the next "big one".
- 1999 Jonathan Overpeck (University of Colorado): A Paleoclimatic Perspective on Global Warming.
- 2000 James A. Jackson (University of Cambridge): Learn to live with earthquakes; recognise your faults.
- 2001 Gerald J. Wasserburg (California Institute of Technology): The first five million years of the solar system and a view of the preceding 10 billion years.
 Michael Summerfield (University of Edinburgh): The measurement of geological time in the last five million years.
 Patrick Wyse Jackson (Geology, TCD): John Joly's determinations of the age of the Earth. [Colloquium on 'The measurement of Geological Time', 9 October]

- 2003 Mike Simms (Ulster Museum): Searching for hidden impact craters.
Joanne Morgan (Imperial College, London): Chicxulub: where do we stand and where are we going?
Simon Stewart (IBP Azerbaijan): Silverpit multi-ringed Crater, North Sea. [Colloquium on impact craters].
- 2005 Jon Copley (University of Southampton); Crispin Little (University of Leeds) [Colloquium on 'Hydrothermal vents'].
- 2006 Andrew Knoll (Harvard): Life on a young planet: the palaeobiological record of Earth's early history.
- 2006 Hugh Torrens (University of Keele): Mineral prospecting – the forgotten bicentenaries of two Anglo-Irish breakthroughs in science (William Smith) and technology (James Ryan).
- 2007 Jan Veizer (University of Ottawa): Climate, water cycle and CO₂: a geological perspective.
- 2008 Mike Searle (University of Oxford): Geological evolution of the Himalaya, Karakoram and Tibet.
- 2009 Ezio Vaccari (University of Genoa): Classification of mountains and the history of the Earth in the 18th century.
- 2011 Paul Pearson (University of Cardiff): The greenhouse world of the Eocene epoch.
- 2012 Alexander Densmore (University of Durham): When the shaking stops: the short-term effects of large earthquakes.
- 2014 Edward Scott (University of Hawai'i): Giant impacts in the early solar system: evidence from meteorites.
- 2016 Jenny Clack (University of Cambridge): Repopulating a post-extinction world: the resurgence of vertebrate diversity in the earliest Carboniferous.
- 2016 Jérôme Gaillardet (Institut de Physique du Globe de Paris): The Rock-Atmosphere interface, the critical zone of the Earth.
- 2017 Philip Donoghue (University of Bristol): Molecular clocks and the timescale of animal evolutionary history.
- 2018 Philippe Claeys (Vrije Universiteit Brussels): Chicxulub: anatomy of a lethal crater.
- 2022 Clive Oppenheimer (University of Cambridge): Climatic and human impacts of past colossal volcanic eruptions.

Further information on John Joly, his life, research and achievements can be found in the following:

- Nudds, J.R. (1986) The life and work of John Joly (1857-1933). *Irish Journal of Earth Sciences* **8**, 81–94.
- Wyse Jackson, P.N. (2001) John Joly (1857-1933) and his determinations of the age of the Earth. In Lewis, C.L.E. and Knell, S.J. (eds). 2001. *The Age of the Earth: from 4004 BC to AD 2002*. Geological Society Special Publications **190**, 107–119.
- Wyse Jackson, P.N. (2002) Classic Paper in the History of Geology: John Joly's paper: "Uranium and Geology" (1908). *Episodes* **25**, 258–263.
- Wyse Jackson, P.N. (2007) John Joly. Trinity College Memorial Discourse, 14 May 2007. [https://www.tcd.ie/Secretary/FellowsScholars/discourses/discourses/2007_T%20Wyse-Jackson%20on%20J%20Joly.pdf]
- Wyse Jackson, P.N. (2011) History of Ichnology: John Joly (1857–1933) on *Oldhamia*: Poetic and Scientific Observations. *Ichnos* **18**, 209–212.

Patrick Wyse Jackson
March 2023