

**INDUCTION AND INTUITION  
IN SCIENTIFIC THOUGHT**

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# INDUCTION AND INTUITION IN SCIENTIFIC THOUGHT

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The Jayne Lectures of the American Philosophical Society honor the memory of Henry La Barre Jayne, 1857-1920, a distinguished citizen of Philadelphia and an honored member of the Society. They perpetuate in this respect the aims of the American Society for the Extension of University Teaching, in which Mr. Jayne was deeply interested. When in 1946 this organization was dissolved, having in large measure fulfilled its immediate purposes, its funds were transferred to the American Philosophical Society, which agreed to use them "for the promotion of university teaching, including *inter alia* lectures, publications and research in the fields of science, literature, and the arts."

Accepting this responsibility, the Society initiated in 1961 a series of lectures to be given annually or biennially by outstanding scholars, scientists, and artists, and to be published in book form by the Society. The lectures are presented at various cultural institutions of Philadelphia. Thus far the following, including the series published in the present volume, have been presented:

February 21, 28, March 7, 14, 1961. Per Jacobsson. *The Market Economy in the World of Today*. University Museum, University of Pennsylvania. Memoirs of the American Philosophical Society, Vol. 55 (1961).

March 7, 14, 21, 1962. George Wells Beadle. *Genetics and Modern Biology*. University Museum, University of Pennsylvania. Memoirs of the American Philosophical Society, Vol. 57 (1963).

March 6, 13, 20, 1963. Doris Mary Stenton. *English Justice Between the Norman Conquest and the Great Charter, 1066-1215*. University Museum, University of Pennsylvania. Memoirs of the American Philosophical Society, Vol. 60 (1964).

March 10, 17, 24, 1964. Ellis Kirkham Waterhouse. *Three Decades of British Art: 1740-1770*. Philadelphia Museum of Art. Memoirs of the American Philosophical Society, Vol. 63 (1965).

May 3, 4, 6, 7, 1965. William A. Fowler. *Nuclear Astrophysics*. The Franklin Institute. Memoirs of the American Philosophical Society, Vol. 67 (1967).

February 14, 21, 28, March 7, 1966. Jacob Viner. *The Role of Providence in the Social Order: an Essay in Intellectual History*. University Museum, University of Pennsylvania.

October 31, November 7, 14, 1967. Douglas Bush. *Pagan Myth and Christian Tradition in English Poetry: Three Phases*. Free Library of Philadelphia. Memoirs of the American Philosophical Society, Vol. 73 (1968).

April 4, 9, 11, 1968. Sir Peter Medawar. *Induction and Intuition in Scientific Thought*. University Museum, University of Pennsylvania. Memoirs of the American Philosophical Society, Vol. 75 (1969).

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