

Harry Gray is the **Arnold O. Beckman Professor of Chemistry and the Founding Director of the Beckman Institute at the California Institute of Technology.** After

graduate work at Northwestern University and postdoctoral research at the University of Copenhagen, he joined the chemistry faculty at Columbia University, where in the early 1960s he developed ligand field theory to interpret the electronic structures and substitution reactions of metal complexes. After moving to Caltech in 1966, he began work in biological inorganic chemistry and solar photochemistry, including the development of inorganic systems for energy storage. Working with Ru-modified proteins in the early 1980s, he demonstrated that electrons can tunnel rapidly over long molecular distances through folded polypeptide structures; and, in the years following, he and J. R. Winkler developed laser flash-quench methods that opened the way for experimental investigations that have led to a deeper understanding of the mechanisms of electron flow through proteins that function in respiration and photosynthesis.

Gray has published over 750 research papers and 17 books. He has received the National Medal of Science from President Ronald Reagan (1986), the Pauling Medal (1986), the Linderström-Lang Prize (1992), the Gibbs Medal (1992), the Harvey Prize (2000), the National Academy of Sciences Award in Chemical Sciences (2003), the Benjamin Franklin Medal in Chemistry (2004), the Wolf Prize in Chemistry (2004), the City of Florence Prize in Molecular Sciences (2006), the Welch Award in Chemistry (2009), six national awards from the American Chemical Society, including the Priestley Medal (1991), and 16 honorary doctorates, including ones from Pennsylvania, Chicago, Columbia, Florence, Copenhagen, and Edinburgh. He is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the American Philosophical Society, a foreign member of the Royal Danish Academy of Sciences and Letters, the Royal Swedish Academy of Sciences, the Royal Society of Great Britain, and the Accademia Nazionale dei Lincei. He has been a member of the Board of Directors of the Arnold and Mabel Beckman Foundation since 1994.

3M Lecturers

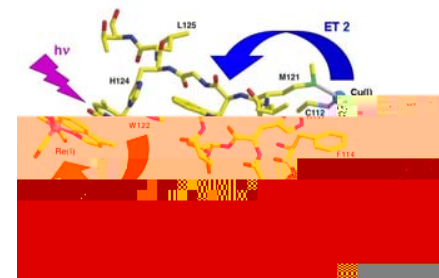
1962	Sir Derek H. R. Barton, Imperial College
1963	Sir Ronald Nyholm, University College
1964	F. C. Tompkins, Imperial College
1965	S. Winstein, U.C.L.A.
1966	F. A. Cotton, M.I.T.
1967	J. O. Hirschfelder, Wisconsin
1968	A. Eschenmoser, E.T.H, Switzerland
1969	H. Taube, Stanford
1970	S. A. Rice, Chicago
1971	F. H. Westheimer, Harvard
1972	R. G. Pearson, Northwestern
1973	W. A. Klemperer, Harvard
1974	G. Stork, Columbia
1975	R. J. P. Williams, Oxford
1976	J. A. Morrison, McMaster
1977	D. Arigoni, E.T.H., Switzerland
1978	J. Chatt, Sussex
1979	J. A. Pople, Carnegie-Mellon
1980	W. P. Jencks, Brandeis
1981	J. Halpern, Chicago
1982	Sir John Meurig Thomas, Cambridge
1983	R. Breslow, Columbia
1984	M. L. H. Green, Oxford
1985	D. R. Hershbach, Harvard
1986	J. M. Lehn, Strasbourg
1987	M. H. Chisholm, Indiana
1988	R. A. Marcus, Cal. Tech.
1989	D. J. Cram, U.C.L.A.
1990	D. Seyferth, M.I.T.
1991	D. A. Shirley, Berkeley
1992	K. U. Ingold, NRC
1993	H. Schmidbauer, Munich
1994	A. J. Bard, U. Texas, Austin
1996	R. Huisgen, Munich
1998	J. M. J. Fréchet, Berkeley
1999	R. W. Field, M.I.T.
2000	I. Dance, New South Wales
2001	K. C. Nicolaou, San Diego
2002	R. R. Birge, Connecticut/Syracuse
2003	D. Fenske, Karlsruhe
2004	A. Padwa, Emory
2005	N. Dovichi, Washington State
2006	K. N. Raymond, Berkeley
2007	K. Tamao, RIKEN and Kyoto University
2008	P. Corkum, NRC, Ottawa
2009	D. Astruc, Univ. Bordeaux
2010	Harry B. Gray, Cal. Tech.



The UNIVERSITY of WESTERN ONTARIO

The 3M University Lecturer
in Chemistry
2010

Harry B. Gray
Arnold O. Beckman
Professor of Chemistry
California Institute of Technology



May 2 - 4, 2011

<http://www.cce.caltech.edu/faculty/gray/>

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Our website: <http://www.uwo.ca/chem/>

Prof. Harry B. Gray will present 3 lectures:

Monday, May 2nd, 2011

4 p.m.

3M Building

Room3250

REFRESHMENTS WILL BE SERVED