

**Harry Barkus Gray** was born 14 November 1935 in Woodburn, Kentucky (B.S., Western Kentucky University, 1957). He did graduate work with Fred Basolo and R. G. Pearson at Northwestern University during 1957-60. After earning a Ph.D., he spent a year (1960-61) as an NSF Postdoctoral Fellow working with C. J. Ballhausen at the University of Copenhagen. He moved to New York in 1961 to take up an appointment as Assistant Professor of Chemistry at Columbia University (Associate Professor 1963-65; Professor, 1965-66). In 1966 he moved to the California Institute of Technology, where he is the Arnold O. Beckman Professor of Chemistry and Founding Director of the Beckman Institute.

**Honors:** Sloan Fellow (1962-64); Franklin Memorial Award (1967); ACS Award in Pure Chemistry (1970); Shoemaker Award (1970); Fresenius Award (1970); Member, National Academy of Sciences (1971); Guggenheim Fellow (1972-73); MCA Award for Excellence in Chemistry Teaching (1972); Harrison Howe Award (1972); Phi Beta Kappa Scholar (1973-74); Foreign Member, Royal Danish Academy of Sciences and Letters (1974); ACS Award in Inorganic Chemistry (1978); Kentucky Colonel (1978); Ira Remsen Award (1979); Richard Chase Tolman Medal (1979); Member, American Academy of Arts and Sciences (1979); CCNY Science Award (1981); Distinguished Scientist Award, ACS Kalamazoo Section (1983); ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry (1984); Edgar Fahs Smith Award (1984); D.Sc.h.c., Northwestern University (1984); John C. Bailar Medal (1984); RSC Centenary Medal (1985); National Medal of Science (1986); Linus Pauling Medal (1986); D.Sc.h.c., University of Rochester (1987); D.Sc.h.c., University of Chicago (1987); Honorary Member, Italian Chemical Society (1988); California Scientist of the Year (1988); AAAS Fellow (1989); Alfred Bader Award in Bioinorganic Chemistry (1990); ARCS Foundation Man of Science (1990); AIC Gold Medal (1990); D.h.c., Univ. Paul Sabatier, Toulouse (1991); ACS Priestley Medal (1991); Fil.dr.h.c., Göteborg Univ. (1991); Dickinson-Priestley Award (1991); Waterford Award, Scripps Research Institute (1991); Madison Marshall Award (1991); BGHS Hall of Honor (1992); Williard Gibbs Medal (1992); Linderstrøm-Lang Prize, Carlsberg Laboratory, Denmark (1992); Laurea h.c., Univ. Firenze (1993); D.Sc.h.c., Bowling Green State University (1994); D.Sc.h.c., Columbia University (1994); Fred Basolo Medal (1994); Foreign Member, Royal Academy (Göteborg) (1995); D.Sc.h.c., University of Pennsylvania (1995); Sierra Nevada Distinguished Chemist (1995); D.L.h.c., Illinois Wesleyan University (1995); WKU Hall of Distinguished Alumni (1995); D.Sc.h.c., Oberlin College (1996); Foreign Member, Royal Swedish Academy of Sciences (1997); ICA Sigillum Magnum (1997); D.Sc.h.c., University of Arizona (1997); Evans Award, Ohio State University (1997); Distinguished Eastman Professor, Oxford University (1997-98); C&EN 75 Award (1998); Chandler Medal, Columbia University (1999); Member, American Philosophical Society (2000); Foreign Member, Royal Society of Great Britain

(2000); Harvey Prize, Technion (2000); ACS Pimentel Award (2001); ACS Kosalopoff Award, (2001); ACS Oesper Award (2001); D.Sc.h.c., Carleton University, Ottawa (2001); William H. Nichols Medal (2003); Wheland Award, University of Chicago (2003); NAS Award in Chemical Sciences (2003); D.Sc.h.c., University of South Carolina (2003); Dwyer Medal, Australia (2003); D.Sc.h.c., University of Copenhagen (2003); Benjamin Franklin Medal in Chemistry (2004); Wolf Prize for Chemistry (2004); RSC Wilkinson Medal (2004); RSC Honorary Fellow (2005); Distinguished Visiting Professor, Hong Kong University (2005); City of Florence Prize (2006); D.Sc.h.c., Edinburgh University (2006); Eraldo Antonini Award (2008); OAK Award (2008); Pupin Medal, Columbia University (2008); Foreign Member, Academia Lincei, Rome (2008); Schulich Award, Technion (2008); ACS Fellow (2009); Robert A. Welch Award in Chemistry (2009); Oregon Creativity Award (2010); Japan SCC Award (2010). Alpha Chi Sigma Hall of Fame (2012); Honorary Member, SBIC (2012); D.Sc.h.c., Occidental College (2013); Othmer Gold Medal (2013); Ph.D. h.c., Weizmann Institute of Science (2013); T. W. Richards Medal (2014); D.Sc.h.c., Simon Fraser University (2015); ACS-NY Section CME Leadership Award for Propelling Science (2017); D.Sc.h.c., Carleton College (2017); Alan MacDiarmid Medal, University of Pennsylvania (2017); Feynman Prize, Caltech (2018); F. A. Cotton Medal, Texas A&M University (2018); Frank H. Westheimer Prize, Harvard University (2018).

**Lectures:** Gray has given over 200 named lectures: these include the Baker Lectures at Cornell; Falk-Plaut Lectures at Columbia; Chambers Lectures and Rothchild Lecture at Rochester; Lee and Wheland Lectures at Chicago; A. D. Little Lectures at MIT; Gordon Lectures at Toronto; Lemieux Lectures at Ottawa; Kolthoff Lectures at Minnesota; Donald Lectures at McGill; First Muetterties and 50<sup>th</sup> G. N. Lewis Lectures at UC Berkeley; Baker Lecture at UC Santa Barbara; Spicer Lecture at Georgia Tech; Renaud Lectures and Dow-Karabatsos Lectures at Michigan State; Liversidge Lecture at Sydney; Merck Lectures at Rutgers; Bjerrum-Brønsted-Linderstrøm-Lang Lecture in Copenhagen; Musher Lecture at the Hebrew University; Priestley Lectures at Penn State; Le Bel Seminars at Strasbourg; Gunning and Engaging Chemistry Lectures at Alberta; Pauling Lectures at Oregon State; Gillespie Lectures in London; Wyeth-Arest, DuPont-Marshall, Hirschmann Lectures at the University of Pennsylvania; Basolo Lecture at Northwestern; Sacconi Memorial Lectures in Florence; Rayson Huang Lectures in Hong Kong; George Kistiakowsky Prize Lecture at Harvard; Stauffer Lecture at USC; Grollman Lecture at Maryland; Fritz London Lecture and Edinburgh Lecture at Duke; Stauffer Lectures at Stanford; Robbins Lectures at Pomona; Saugrain Lecture at Hunter; Nakamoto Lecture at Marquette; Lee Lecture at UC Irvine; Chute Lectures at Dalhousie; Lansdowne Lectures at Victoria; Kukin Lecture at Yeshiva; Eraldo Antonini Memorial Lecture in Rome; Professor Chau Wai Yin

Memorial Lecture at Hong Kong Polytechnic; Schulich Lecture at the Technion; Lars Ernster Lecture in Stockholm; Weizmann Memorial Lectures in Rehovot; Sheldon Shore Lecture at Ohio State; Edward Teller Lecture at UC Davis; Helen Free Lectures at the College of Wooster; Kennedy Lecture at Washington University; Mahoney Lecture at University of Massachusetts; Hans Freeman Lectures at the University of Sydney; Sir Jesse Boot Lecture at Nottingham; Almloef-Gropen Lectures in Oslo and Tromsø; Fink Lecture at UC Santa Cruz; American Chemical Society Kavli Lecture; Thomas Lecture at the University of Missouri; Malcolm Green Lecture at Oxford; Ralph Hirschmann Lecture at Oberlin; Sherry Lectures at Georgia Tech; Parry Lecture at the University of Utah; BSA Distinguished Lecture at Brookhaven National Laboratory; Bruce King Lecture at the University of Georgia; Molecular Frontiers Lecture in Budapest; MacDiarmid Lecture at the University of Pennsylvania; James Plant Lecture at Hamilton College; Appleton Lecture at Brown; Cotton Medal Lecture at Texas A&M University; Frank Westheimer Prize Lecture at Harvard University; Closs Lecture at the University of Chicago; Dreyfus Lectures at Brown University; Dreyfus Lectures at Providence College; Inaugural Beckman Scholars Lecture at Boston College.

**Service (1980-2019):** SSRL Advisory Committee (2015-2019); SPC, SLAC-Stanford (2008-2014); PNAS Editorial Board, (2005-2017); President, Society of Biological Inorganic Chemistry (2002-2004); Board of Trustees (1995-2001, Chairman, 2000), Gordon Research Conferences; Council, National Academy of Sciences (1986-1989); Governing Board, National Research Council (1986-1989); Board of Directors, Arnold and Mabel Beckman Foundation (1994-2015, Chairman, 2013-2015); Chairman, Beckman Foundation Grants Advisory Council (1990-1993); Sloan Foundation Chemistry Advisory Committee (1987-1992); Chairman, NSF Advisory Committee for Chemistry (1982-1983); Chairman, NAS Section of Chemistry (1982-1985); Chairman, Division of Chemistry and Chemical Engineering, Caltech (1978-1984); Chairman, ACS DIC Bioinorganic Subdivision (1985); NAS-NRC Committee to Survey Opportunities in the Chemical Sciences (1983-1986); NAS/NAE/IOM Federal Budget Priorities Committee (1988); NAS/NAE/IOM COSEPUP (1989-1992); NAS Film Committee (1986-1992); ACS Committee on Professional Training (1976-1984); Chairman, NSF Workshop on Undergraduate Education in Chemistry (1988); ACS Committee on Science (1985-1990); Chairman, Advisory Board, Oak Ridge National Laboratory (1987-1989); Chairman, Advisory Committee, INC Division, Los Alamos National Laboratory (1985-1990); Chairman, Chemistry Visiting Committee, Brookhaven National Laboratory (1980); Chairman, Visiting Committee, Solar Energy Research Institute (1982-1983); Chairman, Metals in Biology GRC (1982).