

Brief Biographical Sketch of Michel Boudart

Michel Boudart was born in Brussels, Belgium. He graduated from the University of Louvain with a B.S. degree (Candidature Ingénieur) in 1944 and an M.S. degree (Ingenieur Civil Chimiste) in 1947. In 1950, he received his Ph.D. degree in Chemistry from Princeton University, under the mentorship of Sir Hugh Taylor.

He remained at Princeton University until 1961, first at the Forrestal Research Center as a Research Associate (1950–1953) and Assistant Director of Project SQUID (1953–1954), and then in the Department of Chemical Engineering as Assistant Professor (1954–1958) and Associate Professor (1958–1961). He joined the University of California at Berkeley as Professor of Chemical Engineering in 1961. He subsequently moved to Stanford University in 1964, where he became Professor of Chemical Engineering and Chemistry. He chaired the Department of Chemical Engineering from 1975 to 1978. He was the Keck Professor of Engineering from 1980 to 1994, at which time he became Emeritus Professor.

Michel Boudart is a founder of Catalytica, Inc. He is a member of the American Chemical Society, the American Institute of Chemical Engineers, and Sigma Xi. He has been elected to both the National Academy of Sciences and the National Academy of Engineering and is a foreign member of the Académie Royale des Sciences, des Lettres, et des Beaux-Arts de Belgique, and the Royal Belgian Academy Council for Applied Sciences. He is a Fellow of the American Association for the Advancement of Science and of the American Academy of Arts and Sciences, and an Honorary Fellow of the California Academy of Sciences. He has received doctorates honoris causa from the University of Liege, the University of Notre Dame, the University of Ghent, and the Institut National Polytechnique de Lorraine.

Michel Boudart's textbook, *Kinetics of Chemical Processes* (1968), has been translated into many languages and reprinted as part of the Butterworth–Heinemann Series of Chemical Engineering Classics in 1991. He also co-authored the book *Kinetics of Heterogeneous Catalytic Reactions* (with G. Djéga-Mariadassou). He co-edited the series *Catalysis: Science and*

Technology. He has published more than 250 journal articles and is an inventor on four United States patents.

His honors include the Belgian American Educational Foundation Fellowship (1948); the Procter Fellowship (1949); the Curtis McGraw Research Award of the American Society for Engineering Education (1962); the R. H. Wilhelm Award in Chemical Reaction Engineering of the American Institute of Chemical Engineers (1974); the 1977 Kendall Award and the 1985 Murphree Award, both from the American Chemical Society; the 1991 Chemical Pioneer Award of the American Institute of Chemists; and the International Precious Metals Institute 1994 Tanaka Distinguished Achievement Award. The symposium, "Advances in Catalytic Chemistry III" (May 1985, Salt Lake City, Utah), was organized in his honor, as was the Catalysis Symposium of the 68th ACS Colloid and Surface Science Symposium (June 1994, Stanford University). The Catalysis Society selected him as its 1986 Ciapetta Lecturer.

He has delivered the following major lectures: The AIChE Institute (1961), Reilly (1965), National Sigma Xi (1965), Humble (1968), Debye (1968), Robert A. Welch Conference on Chemical Research (1970), Wohl (1974), Kelley (1975), Priestley (1975), Lacey (1977), Van Winkle (1977), Langmuir (1980), Dreyfus (1980), Lind (1982), and Julian Smith (1991).

Michel Boudart has been a Visiting Professor at the University of Louvain (1969), the University of Rio de Janeiro (1973), the University of Tokyo (1975), the University of Paris (1980), Cambridge University (1984), and the National University of Salta (Argentina, 1994), and he has been a Fairchild Distinguished Scholar at the California Institute of Technology (1994–1995).

Throughout his career, Michel Boudart mentored 70 doctoral students and nearly 100 postdoctoral fellows and visiting scientists. Many of these students and collaborators currently hold leading positions in industry and academia. An academic family tree presented to Michel Boudart at the 13th International Congress on Catalysis in Paris in July 2004 listed 26 of his graduate students in academic positions and a total of 431 academic grandchildren.