

HONORS AND AWARDS:

Sustained Service Award, 2006, American Institute of Aeronautics and Astronautics.
Energy Systems Award, 2004, American Institute of Aeronautics and Astronautics.

Citation "For fundamental pioneering research on fuel atomization, spray combustion, and turbulent flows in gas-turbine and automotive engines, and for the innovative turbine-burner and miniature-liquid-fuel-film-combustor concepts".

National Academy of Engineering, elected 2002

Citation "For contributions to the science and technology of spray combustion systems for propulsion."

The Combustion Institute, Alfred C. Egerton Medal, 1996

Citation: "For distinguished, continuing, and encouraging contributions to the field of combustion."

American Electronics Association, Orange County Council, 1994

Citation: "In recognition and appreciation for outstanding contribution to the Orange County Technology Community."

President's Award for Engineering Excellence In Service To Education, Orange County Engineering Council, 1994

IDERS Oppenheim Award, 1993

Citation: "In recognition of his outstanding contributions to the theory of non-linear rocket instability, spray dynamics and combustion in heterogeneous systems."

UC Irvine Alumni Distinguished Research Award, 1992

Propellants and Combustion Award, 1992, American Institute of Aeronautics and Astronautics

Citation: "For his pioneering and outstanding contributions in the areas of combustion instability, spray vaporization and combustion, flame spreading, and modeling of internal combustion engines."

Freeman Scholar Award, 1992, American Society of Mechanical Engineers, Fluids Engineering Division, for Research on Fluid Dynamics of Sprays

Edward G. Pendray Aerospace Literature Award, 1991, American Institute of Aeronautics and Astronautics

Citation: "For his numerous, exceptionally clear, and important contributions to the technical literature of combustion, non-steady fluid mechanics and heat transfer that are recognized as quality references in the fields of air and space flight, noise pollution, air pollution, fire safety, and energy conservation."

Institute for the Advancement of Engineering Fellow, 1994

APS Fellow, 2000,

Citation: "For his pioneering efforts in combining modeling and simulation of complex multiphase flows, and for the understanding these models have provided for pool fires and capillary instabilities."

AAAS Fellow, 1992

ASME Fellow, 1989

AIAA Fellow, 1987

United Aircraft Research Fellow, 1973-74

Other Recognition:

Certificate of Appreciation, National Research Council, 1994 (Service on Space Studies Board)
Certificate of Appreciation, National Research Council, 1994 (Service as Chairman, Microgravity Research Committee)
Certificate of Appreciation, ASME, 1992
Certificate of Appreciation, NASA, 1988
Certificate of Appreciation, ASME, 1984
Certificate of Appreciation, AIAA, 1983
Certificate of Appreciation, AIAA, 1970
Certificate of Appreciation, AIAA, 1969
Personalities of America, Sixth Anniversary Edition, 1992
Dictionary of International Biography, Vol. 9
Who's Who in the East, 13th through 18th Editions
Who's Who in the West, 21st through 33rd Editions
Who's Who in America, 40th through 60th Editions
Who's Who in the World, 5th through 23rd Editions
Who's Who in American Education, 4th through 7th Edition
Who's Who in Engineering, 7th and 9th Editions
Who's Who in Science & Engineering, 1st through 8th Editions
Who's Who in Frontier Science and Technology, 1st & 2nd Editions
Who's Who in Aviation, 1983
Who's Who in California, 19th, 20th, 25th through 27th Editions
Who's Who in Finance & Industry, 26th Edition
American Men and Women of Science, 1983, 1991, 1994
Five Thousand Personalities of the World, 2nd Edition, 1988
Sigma Xi, Tau Beta Pi, and Sigma Gamma Tau, 1959
New York State Regents Scholarship, 1955-59
RPI Scholarship, 1956-59
Ricketts Prize (RPI), June 1959
Guggenheim Fellowship, 1959-61