



WEB SEMINAR ENERGY

AHMED F. GHONIEM

Ronald C. Crane (1972) Professor; Director, Center for Energy and Propulsion Research; Director, Reacting Gas Dynamics Laboratory

Ahmed F. Ghoniem is the Ronald C. Crane ('72) Professor of Mechanical Engineering and the director of the Centre for 21st Century Energy at Massachusetts Institute of Technology (MIT). He holds a BS (1973) and a MS (1975) degrees in Mechanical Engineering from Cairo University in Egypt and a PhD. degree from the University of California, Berkeley (1980).

He served as a research scientist at Lawrence Berkeley Laboratory from 1980-83. Since 1983 he has been at MIT where he established the Reacting Gas Dynamics Laboratory and has supervised a number of MS & PhD students, post-docs and research scientists. He is a fellow of the American Society of Mechanical Engineers and associate fellow of the American Institute of Aeronautics and Astronautics.

His research interest lie in the areas of high performance computing in turbulent reactive flow, computational mathematics, combustion dynamics and active control, modeling and simulation of transport-chemistry interactions in thermochemical and electrochemical systems including high temperature fuel cells, gasification processes and fuel production and analysis of high-performance, zero-emission integrated energy systems with CO₂ capture.