

Amable Liñán

Born in Noceda (León), Spain, 1934. Aeronautical Engineer (1960) and Doctor in Engineering (1966) by the Universidad Politécnica de Madrid, (UPM) Aeronautical Engineer, California Institute of Technology (1963). Professor of Fluid Mechanics, since 1965, at the School of Aeronautical Engineering of the UPM, now. Professor Emeritus. Professor Adjunct of Mechanical Engineering at Yale University, 1997 to 2012. Visiting Professor at the Aerospace Department of the University of Michigan from August 1973 to April 1974. Research Engineer at INTA (The Instituto Nacional de Técnica Aeroespacial) from 1960 to 1976.

He has been Visiting Research Engineer at the Department of Applied Mechanics and Engineering Sciences of the University of California, San Diego, in July 1973, in July and August in 1977 and 1980, and also, with one month appointments, in August since 1988. Visiting Research Engineer at the Department of Mechanical and Aerospace Engineering of Princeton University during the months of July and August 1984. Visiting Scientist at the Center for Turbulence Research of Stanford University during the months of July 1994 and 1996, to participate in the Summer Programs in turbulent research.

Profeseur Associé University of Marseille I, with one month appointments, in 1981, 1982, 1983, 1988 and 1993. Also in Paris in April 1992 at the Université VI, Pierre et Marie Curie.

He has been a Member of NASA Microgravity Combustion Group, Member of the Board of the Von Kármán Institute for Fluid Mechanics, and of the Steering Board of INTA. He is a member of the Scientific Council of the Fundación Ramón Areces.

His research work has been devoted to fluid mechanics, the theory of heat and mass transfer and, mainly, to the analysis of combustion phenomena and combustion processes, including the analysis of new efficient schemes of combustion with reduced emissions of pollutants. This research work, carried out at the INTA and at the School of Aeronautical Engineering of the Universidad Politécnica de Madrid, has been partially sponsored by numerous research grants or contracts from the AFOSR (US Air Force Office of Scientific Research), the US Forest Service, The European Space Agency (on the design methods of hydrazine decomposition thrusters for the attitude control of satellites), and the European Community on the analysis of basic phenomena involved in the design of advanced Diesel engines, and on the reactive fluid dynamic problems involved with the development of new lean premixed prevaporized combustors, with reduced CO and NO emissions, for aircraft propulsion. Consultant on Supersonic Combustion for the ARNOLD Research and Development Center of the US Air Forces, and on mathematical modelling in Combustion Theory for the Los Alamos National Laboratory. He worked, with support of the Instituto de

Estudios Nucleares of Spain, on fluid dynamic problems associated with Nuclear Fusion with Inertial Confinement.

His research work is presented in more than 160 papers and in a monograph on Fundamentals Aspects of Combustion (written with F.A. Williams of UCSD and published in 1993 by Oxford University Press).

Among other prizes he has received the Premio Príncipe de Asturias de Investigación Científica y Técnica (1993), the prizes de Investigación Científica y Técnica of Castilla y León (1995), and the price Emilio Herrera de AENA (2005) and Miguel Catalán (2007). He received the Zeldovich Gold Medal of the Combustion Institute (1994). He is Fellow of the British Institute of Physics and of the American Physical Society. He is a member of the Real Academia de Ciencias and of the Real Academia de Ingeniería of Spain, and a Foreign Member of the French Academy of Sciences and of the US National Academy of Engineering.

He is Doctor Honoris Causa by the Universities Carlos III of Madrid, Zaragoza, León and Santiago de Compostela, and also by the Universidades Politécnicas of Barcelona and Valencia.