

DSL2017

13th International Conference on Diffusion in Solids and Liquids
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Prof. de Lemos was born in Rio de Janeiro, Brazil, where he obtained his Bachelor and MSc degrees in Mechanical Engineering from the Pontifical Catholic University of Rio de Janeiro (PUC-RJ) in 1977 and 1979, respectively. In early 1983, he obtained his PhD degree from Purdue University, USA. He spent a year as Assistant Professor at PUC-RJ in 1984, followed by two years as Resident Associate at Argonne National Laboratory, Illinois. In 1986, he joined the Aeronautical Institute of Technology - ITA in São José dos Campos, Brazil. He is Full Professor at ITA, founder and head of the Computational Transport Phenomena Laboratory - LCFT and the newly established Competence Center for Energy – CCE. He also serves as Head of the Department of Energy. From 1991 to 1992, he was Visiting Scholar at Ruhr-Universität-Bochum, Germany. In early 1992, he became Member of the American Society of Mechanical Engineers - ASME and in 2009 he was promoted to the "*Fellow*" grade by ASME. He and has advised 11 PhD and 22 MSc students.

Research Summary

Prof. de Lemos has set a new mathematical framework for novel treatment of turbulent flow, heat, and mass transfer through permeable media. On the overall, he has published more than 360 articles in conference proceedings and journals in addition to nine book chapters and five books. He is member of the Honorary Editorial Advisory Boards of Int. J. Heat & Mass Transfer and Int. Comm. Heat & Mass Transfer, member of the Editorial Advisory Board of J. Porous Media and Editorial Board Member of Int. J. Dynamics of Fluids and Int. J. Applied Engineering Research. He has coordinated several joint research projects with DLR and Uni-Erlangen, Germany, and has delivered seminar lectures in Brazil, USA, Portugal, Tunis, Lebanon, Italy, France, Germany, South Korea, Romania, UAE and Japan. He is Consultant to Brazilian Education Ministry (CAPES), Brazilian National Research Council (CNPq) and São Paulo State Research Foundation (FAPESP). He holds a Fellowship from CNPq at the highest rank (PQ-1A). He is member of the International Advisory Board of VIRTUHCON research initiative, which is led by TU-Freiberg, Germany, and fully supported by the German Ministry of Science and Education in cooperation with the Government of Saxony.

Areas of Interest and Expertise

Prof. de Lemos' research interests involve computational thermo-fluid dynamics, transport phenomena, porous media, thermal engineering, aerodynamics, gas turbines, advanced fossil and renewable energy systems (wind, solar, biomass), high performance computing, turbulent reactive flow, computational mathematics, combustion dynamics, modeling and simulation of thermochemical systems, fuel cells, gasification processes and CO₂ capture and storage technologies.

Full Professor of Mechanical Engineering, Fellow ASME

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