Biographical Sketch

SERGIO R. IDELSOHN: After completing a degree in Mechanical Engineering in 1970 at the National University of Rosario, Argentina, he completed in 1974 a Ph.D. degree at the Liege University in Belgium. He became a full professor in 1978 at the National University of Rosario and full professor of the National University of Littoral in 1989. In 1996 he was promoted to High Researcher of CONICET (*Investigador Superior del CONICET),* the top degree in the research career in Argentina.

On February 1981 he founded CIMEC (International Centre for Computational Methods in Engineering, www.cimec.com.ar), a research centre specialized in the development and application of numerical methods in engineering and he was his Director until 2005.

In 1985 he was the founder and first President of the Argentinean Association of Computational Mechanics (AMCA, www.amca.org). Under his presidency (1985-2005) AMCA has organized 17 National Congresses (ENIEF) that typically attract some 200 scientists and engineers and 8 International Congresses (MECOM, typically 400 scientists) in the field. Furthermore, AMCA was the organizer of the IV World Congress of Computational Mechanics, (IV WCCM), July 1998, Buenos Aires, the First South-American Congress on Computational Mechanics, October 28-31, Santa Fe-Paraná, the IV Pan-American Congress of Applied Mechanics (PACAM IV), January 1995, Buenos Aires, and the XII Iberian Latin American Congress on Computational Methods in Engineering and the Third National Congress on Computational Mechanics, September 1991, Paraná. For all this Congresses he was the Chairman.

In the period 1987-1988 he was Visiting Professor at the Institute for Advanced Study of Princeton, USA, in 1989-1990 he was Visiting Professor at the University of Paris VI and from 1991 to 2005 he was several times of 6 month each Visiting Professor at the Polytechnic University of Catalonia.

In the period 2002-2010 he was the Secretary General of the International Association for Computational Mechanics (IACM, www.iacm.info). During his mandate as Secretary General he supervised the organization of the World Congresses of Computational Mechanics of the IACM held in Vienna (2002), Peking (2004), Los Angeles (2006), Venice (2008) and Sydney (2010).

Since 2006 he is ICREA Research Professor and Senior Researcher at CIMNE in Barcelona, Spain (ICREA is the “Institució Catalana de Recerca I Estudis Avançats” and CIMNE the “International Centre for Numerical Methods in Engineering”).

His research activities have spread over a range of multidisciplinary fields which he has contributed relevant theories and methods of scientific and industrial relevance. His key research lines are the following: Particle Finite Element Methods, Meshless Methods, Phase Change Problems, Reduction Methods, Quasi-Newton Methods.

The above research lines have been developed in the framework of over 25 RTD projects carried out in cooperation with the main engineering companies in Argentina and Europe. Three of these projects have been developed in the framework of European Community programmes in particular an ERC Advanced Grant 2009-2014.

He is regularly invited to deliver Keynote or Plenary Lectures in the main International Conferences in Computational Engineering Science (more than 20 Plenary Lectures until now). The most important are in the World Congress on Computational Mechanics (Vienne 2002, Beijing 2004, Venice 2008, Sydney 2010 and Sao Paulo 2012).

His research work has been recognized in many Prizes and Awards. The most significant are: the Elsevier-Scopus Award to the eight Argentinean researchers most cited in International Scientific Journals in the last ten years, Buenos Aires, 2007; the IACM Award from the International Association of Computational Mechanics, Vienna, 2002; the Ludwig Prandtl Medal, from the European Community on Computational Methods in Applied Sciences (ECCOMAS) for his outstanding and sustained contribution in the area of Computational Fluid Dynamics, Vienna 2012 and the ERC Advanced Grant from the European Research council 2009-2014.

In addition, to his scientific activity he has developed an intensive task in the transfer of the outcome of his research to the industrial sector in Argentina and now in Spain.