

<b>Talk title</b>	To be confirmed
<b>Biography</b>	<p>After completing a degree in Mechanical Engineering in 1970 at the National University of Rosario, Argentina, he finished a <b>Ph.D. degree at the Liege University in Belgium</b> in 1974. He became Professor in 1978 at the National University of Rosario, Argentina and Professor of the National University of Littoral of the Santa Fe City, Argentina in 1989. In 1996 he was promoted to <b>Investigador Superior of CONICET</b>, Argentina (the top degree in the research career in Argentina). On February 1981 <b>he founded CIMEC</b> (International Centre for Computational Methods in Engineering) 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 one of the <b>founder and first President of the Argentinean Association of Computational Mechanics (AMCA)</b>. Under his presidency (1985-2005) he has organized 17 National Congresses (ENIEF) and 8 International Congresses (MECOM) in the field. Furthermore, he was the <b>Chairman of the IV World Congress</b> on Computational Mechanics –WCCM-, July 1998, Buenos Aires and the <b>Chairman of the First Pan-American Congress</b> on Computational Mechanics –PANACM- in May 2015, Buenos Aires. 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.</p> <p>In the period 2002-2010 he was the <b>Secretary General of the International Association for Computational Mechanics -IACM-</b> and in 2014-2018 he was the <b>Vice-President</b> representing the American Region.</p> <p>In 2006 he moves to Spain where he is <b>CIMNE Senior Researcher</b> at the International Centre for Numerical Methods in Engineering and <b>ICREA Research Professor</b> at the Catalan Institution for Research and Advanced Studies in Barcelona, Spain. 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 Particle Methods, Meshless Methods, Phase-Change Problems, Reduced Order Models and Real- Time methods. In all the cases applied to fluid mechanics problems. He is regularly invited to deliver Plenary Lectures in the main International Conferences in Computational Engineering Science. The most important were in the <b>World Congress on Computational Mechanics</b> (Vienne 2002, Beijing 2004, Venice 2008, Sydney 2010, Sao Paulo 2012, Barcelona 2014 and Seoul 2016).</p> <p>His research work has been recognized in many Prizes and Awards. The most significant are: the <b>Elsevier-Scopus Award</b> to the eight Argentinean</p>

researchers most cited in International Scientific Journals in the last ten years, 2007; the **IACM O.C. Zienkiewicz Award**, from the International Association of Computational Mechanics, 2002; the **SEMNI Award** from the Spanish Society of Numerical Methods in recognition to a professional and international trajectory and in particular to the personal influence to the development and diffusion of the numerical methods in the Hispanic speaking world, 2009; the **ECCOMAS 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, 2012; the **ERC Advanced Grant** from the European Research council, 2009-2014 and the **Computational Mechanics Award from the IACM** for his contributions to traditional and new areas in the field of Computational Mechanics.

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 in Spain.