Curriculum Vitae - Professor David Roger Jones Owen

Professor Owen, an international authority on finite element and discrete element techniques, is the author of six textbooks and over three hundred and fifty scientific publications. Professor Owen's research, in the field of solid and structural mechanics, has centred on the development of solution procedures for non-linear problems encountered in science and engineering. Specifically, Prof. Owen has contributed prominently to the development of computational strategies for plastic deformation problems, both for fundamental material studies and for application to engineering structures.

Over the last decade or so, Prof. Owen's work has focused on the development of discrete element methods for particulate modelling and the simulation of multi-fracturing phenomena in materials. Based upon this methodology, contributions have been made to fundamental understanding in several key application areas; including explosive simulations, deep level mining/oil recovery operations, defence problems and structural failure predictions.

Prof. Owen was elected Fellow of the Royal Academy of Engineering in 1996, awarded an Honorary D.Sc. by the University of Porto, Portugal in 1998, received the Computational Mechanics Award of IACM in 2002, awarded the Warner T. Koiter Medal of the American Society of Mechanical Engineers (ASME) in 2003, awarded the Gauss-Newton Medal of IACM in 2004, awarded the Gold Medal of the University of Split, Croatia in 2004, received the Premier Award of the Spanish Society for Computational Mechanics (SEMNI) in 2005 and awarded an Honorary D.Sc. by ENS Cachan, France in 2007.