

EUGENIO OÑATE IBÁÑEZ DE NAVARRA

Nationality: Spanish
Date of birth: 28th March 1953

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ACADEMIC DEGREES

- 1975 Ingeniero de Caminos, Canales y Puertos (Civil Engineering), Univ Politècnica deValencia, Spain
- 1976 Master in Science, Swansea University, UK.
- 1979 Doctor in Philosophy (Ph.D.), Swansea University, UK.
- 1979 Doctor Ingeniero de Caminos, Canales y Puertos (Ph.D. in civil Eng.), Universitat Politècnica de Catalunya (UPC)

ACADEMIC AND SCIENTIFIC POSITIONS

- 1979- Associated Professor (Agregado) in Structural Mechanics at Universitat Politècnica de Catalunya (UPC).
- 1981- Full Professor (Catedrático) in Structural Mechanics, (UPC).
- 1983-89 Director of School of Civil Engineering, UPC
- 1987- Founder, Vicepresident & Director of International Centre for Numerical Methods in Engineering (CIMNE)
- 1989-2004 Founder and President of the Spanish Society for Numerical Methods in Engineering (SEMNI)
- 1992-95 President of the Scientific Council of the Center for Supercomputing of Catalonia (CESCA)
- 1992-95 Director of Structural Mechanics Department at UPC
- 1993-96 Vice-president of European Community on Computational Methods in Applied Sciences (ECCOMAS)
- 1994-2002 General Secretary of the International Association for Computational Mechanics (IACM)
- 2000-2004 President of the European Community on Computational Methods in Applied Sciences (ECCOMAS)
- 2002-2010 President of the International Association for Computational Mechanics (IACM)
- 2004- Honorary President of Spanish Association for Numerical Methods in Engineering (SEMNI)

MAIN TEACHING ACTIVITY

His research has focused on the development of numerical methods of interest for solving problems in structural mechanics, fluid dynamics and coupled situations in engineering sciences. His scientific contributions are of particular relevance for solving complex multidisciplinary problems in the fields of civil, industrial, aerospace, marine and naval engineering, among others.

SUPERVISION OF THESIS

Supervisor of **68 Doctoral Thesis** (completed) at UPC. <https://www.cimne.com/eo/16/phd-students/completed-theses>. Currently he supervises **7 PhDs**. Sypervisor of **65 Master Thesis** at UPC.

PUBLICATIONS

467 papers in JCR journals with **14120 (27100) citations** (information at 15.9.21)
h index of 70 (53). Citations & h-index source: First number: Scopus, In brackets: Google Scholar
232 papers in Q1 and 190 papers in D1 (source: Scopus)
Author of 2 text books and editor of 68 books on various topics of Computational Engineering Mechanics.

Chief Editor of the following three journals:

- *Archives for Computational Methods in Engineering* (since 1993). Editors: M. Kleiber and E. Oñate. Springer. Impact Factor IF, (2020): 7,302. **Number one journal in its field.**
- *Computational Particle Mechanics* (since 2014). Editors: T. Zohdi, E. Oñate & P. Wriggers. Springer. IF (2020): 2,105
- *Revista Internacional de Métodos Numéricos para Cálculo y Diseño en Ingeniería* (in Spanish, Portuguese and English). Edited by E. Oñate and S.R. Idelsohn since 1985. Open Access JCR journal (Scipedia). IF (2020): 0.513

Editor of three Book Series on topics related to Computational Methods in Engng and Applied Sciences (two of the Book Series are published by Springer).
www.cimne.com/eo/vpage/1/0/List-of-Publications

Author of **68 chapters in books, 58 monographs with ISBN, 444 papers in conference proceedings and 240 research reports**. <http://www.cimne.com/eo/vpage/1/0/List-of-Publications>

Member of the Editorial Board of 30 international journals (28 listed in JCR).

AWARDS

International awards

- 1996** Eric Reissner Medal of the Int. Conf. on Computational & Experimental Engng & Sciences (ICCES)
- 1998** Fellow of International Association for Computational Mechanics (IACM).
- 1998** Computational Mechanics Award of IACM
- 2000** Award of Argentinian Association for Computational Mechanics (AMCA)
- 2004** University of Jyväskylä Medal (Finland)
- 2008** Grand Prize of Japan Society for Computational Engineering and Science (JSCES)
- 2009** O.C. Zienkiewicz Medal of Polish Association for Computational Mechanics (PACM)
- 2009** Ted Belytschko Applied Mechanics Award of American Society of Mechanical Engineering (ASME)
- 2009** Computational Mechanics Award of Japan Society of Mechanical Engineering (JSME)
- 2010** Gauss-Newton Medal of International Association for Computational Mechanics (IACM)
- 2013** Argentinian Government Award *Dr. Luis F. Leloir* to Internat. Cooperation in Science, Techn. & Innovation
- 2018** Award of Ministry of Science of Cuba for the Development of Innovative Particle Methods
- 2021** Ritz-Galerkin Medal of European Community on Computational Methods in Applied Sciences (ECCOMAS).

Awards from organizations in Catalonia

- 1990** Narcís Monturiol Medal for Research. Catalanian Government.
- 1999** Accesit to City of Barcelona Award in Technological Research
- 1999** Narcis Monturiol Award to CIMNE (collected as founder & director of CIMNE). Catalanian Gov.
- 2001** Medal of School of Civil Engineering of UPC to Professional Achievements
- 2002** City of Barcelona Award in Technological Research
- 2004** Duran i Farell Award of UPC for Excellence of Research and Technology Transfer

2019 Ildefonso Cerdá Award of Institute of Civil Engineers of Catalonia

Awards from organizations in Spain

1995 Medal to Professional Merit of Spanish Institution of Civil Engineers.

2000 Award of Spanish Group for Fracture Mechanics.

2007 Award from Spanish Association for Numerical Methods in Engineering (SEMNI)

2020 Director of Scientific Program of CIMNE as a Severo Ochoa Center of Excellence for 2020-2023

Awards to scientific papers

2002, 2003 and 2009 Award for Best Paper published in Engineering Computations. Emerald Literari Club.

HONORARY DOCTORATES AND FELLOWSHIPS

2000 Doctor Honoris Causa, Ovidius University, Constanza, Rumania.

2005 Honorary Member of Portuguese Assoc. for Theoretical, Applied & Computational Mechanics

2007 Honorary Fellow of Swansea University (UK).

2012 Doctor Honoris Causa, INSA-Lyon, France.

2013 Doctor Honoris Causa, Universidad Las Villas, Cuba.

2020 Doctor Honoris Causa, Saint Petersburg Polytechnich University, Russia.

ACADEMY MEMBERSHIP

1998 Member of Royal Academy of Doctors (Barcelona).

2006 Foreign Member of the Accademia di Scienze e Lettere, Istituto Lombardo, Milan (Italy).

KEYNOTE AND PLENARY LECTURES

46 Plenary Lectures, 42 Semi-Plenary Lectures (SPL) and 51 Keynote Lectures in the main peer-reviewed international conferences in the field of Computational Mechanics held in the last 40 years.

TECHNOLOGY TRANSFER ACTIVITIES

PI in **45** FP4-FP7 and 5 H2020 EC projects in the fields of civil, aerospace, mechanical and naval engineering. PI in some **290** RTD projects in cooperation with enterprises worldwide.

Promoter of **17 spin-off companies** that market research outcomes of CIMNE. Five of the companies market outputs of his own research (www.cimne.com/vpage/2/0/Technology/Spin-off-Companies).

ONE ELEVANT RESEARCH PROJECTS IN WHICH HE HAS BEEN PI

European Research Council (ERC)-Advanced Grant SAFECON: Computational methods for predicting the failure of constructions to water hazards accounting for fluid-soil-structure interactions (2011-2015).

OTHER MERITS

Organiser and chair/co-chair of 63 international conferences in the Computational Mechanics field. The list can be seen in www.cimne.com/eo