

Sergio Oller

Department of Strength of Materials and Structural Analysis
in Engineering
Escola Tècnica Superior d'Enginyers de Camins, Canals i
Ports de Barcelona (ETSECCPB)
Universitat Politècnica de Catalunya (UPC)
Jordi Girona, 1, Mòdul C1 - UPC – Campus Nord
E-08034 Barcelona, Spain)

Phone: +34 93 4017401
Fax: +34 93 401 10 48
e-mail: sergio.oller@upc.edu

Current position

Full professor of Continuum Mechanics and Structural Analysis, Universitat Politècnica de Catalunya

Education

Civil Engineering, Universidad Nacional de Salta (Argentina) (1979)
Ph. D. in Civil Engineering, Universidad Politècnica de Catalunya (Spain) (1988)
Specialization on Advanced Structural Analysis, Università di Roma (Italy) (1983)

Research Interests

Computational methods in applied sciences and engineering.
Finite elements, nonlinear computational mechanics.
Simulation of industrial processes: Composite Materials, Fatigue, Thermo mechanical problems.
Dynamic and Earthquake engineering.

Career

Full professor, Universitat Politècnica de Catalunya (Spain), since 2003
Invited professor, Universidad Nacional de Tucumán (Argentina), 1991-2001
Assistant Professor, Universitat Politècnica de Catalunya (Spain), 1993-2003
Temporary Assistant Professor, Universitat Politècnica de Catalunya (Spain), 1988-1990
Research Staff, C. Int. Métodos Numéricos en Ingeniería (Spain), since 1986
PhD Fellowship, Universidad Politècnica de Catalunya (Spain), 1985-1988
Assistant Professor, Universidad Nacional de Salta (Argentina), 1979-1985

Honors and awards

Fellowship from the Foreign Ministry of Italy, 1982-1983.
Fellowship from the CSIC (Spain)-CONICET (Argentina), 1985-1988.
Fellowship from the CNPq (Brasil), 1984
First prize of IBM Argentina on "Exact Sciences, Engineering, Physics, Astronomy and Mathematics fields",
for the personal computer program of finite elements for structures: "PLCRAC". Buenos Aires, Argentina.
March 1993.

Professional activities

Community services

Director of Publics Works of the Tartagal City Council, Argentina. 1979.
Director of Publics Works of the Secretary of State of Salta, Argentina. 1980-1982.
Member of the Honorary Commission for the Preservation of the Architectural Patrimony of Salta. Argentina.
1980-1982.
Member of the Environmental Coordinating Commission of the Salta County. Argentina. 1980-1982.
Consultant of Unesco and World Bank for the Scientific and Technical Development Project of the Brasil
Government on New Materials Topics (PADCT-II New Materials Sub-Program). Brasilia (Brasil). 1989..

University services

Director of the Civil Engineering School of the National University of Salta. Argentina. 1984-1985.
Director of Civil Engineering's Degree Commission of National University of Salta. Argentina. 1984-1985.
Director of the Commission for the Proposal of the Studies Program of Civil Engineering Degree . National University of Salta. Argentina. 1984-1985.
Member of the Academic Council of Technological Sciences Faculty of the National University of Salta. Argentina. 1984-1985.
Head of Studies of the Master on Numeric Methods for Engineering of the Polytechnical University of Catalonia. Barcelona, Spain. Since 1994.
Member of the Commission of Academic Evaluation of the Strength and Structural Analysis Department. Polytechnical University of Catalonia. Barcelona, Spain. 1994-2001.
Member of the Commission of Research of Civil Engineering School of Barcelona. Polytechnical University of Catalonia. Barcelona, Spain. 1997-2004.
SubDirector of the Strength and Structural Analysis Department - Civil Engineering Section. Polytechnical University of Catalonia. Barcelona, Spain. Since 2004.

Summary of journal publications

Journal	Impact factor	Number of papers
International Journal of Plasticity	2,768	1
International Journal for Numerical Methods in Engineering	1,691	4
International Journal of Solids and Structures	1,327	9
Computer Methods in Applied Mechanics and Engineering	1,252	5
Other indexed journals		8
Other papers in refereed journals		16

Selected publications (max. 5)

J. Lubliner, J. Oliver, S. Oller, E. Oñate (1989). A Plastic-Damage Model for Concrete. International Journal of Solids and Structures, Vol.25, No.3, pp. 299,326.

1989. ISSN: 0020-7683. (18 times cited)

J. Oliver, S. Oller, J. Cante (1996). A Plastic Model for Simulation of Industrial Powder Compaction Processes. International Journal of Solids and Structures. Vol.33, No.20-22, pp. 3161-3178. 1996.

ISSN: 0020-7683. (16 times cited)

B. Luccioni, S. Oller, R. Danesi (1996). Coupled Plastic-Damage Model. Computer Methods in Applied Mechanics and Engineering. Vol. 129, No. 1-2, pp. 81-90. 1996. ISSN: 0045-7825. (11 times cited)

S. Oller, E. Oñate, J. Miquel Canet and S. Botello (1996). A Plastic Damage Constitutive Model for Composite Materials. International Journal of Solids and Structures. Vol. 33, No.17, pp. 2501-2518. 1996. ISSN: 0020-7683. (9 times cited)

D. Celentano, E. Oñate, S. Oller (1994). A Temperature-Based Formulation for Finite Element Analysis of Generalized Phase Change Problems. International Journal of Numerical Methods in Engineering. Vol. 37, pp. 3441-3465. 1994. ISSN: 0029-5981. (9 times cited)

Other relevant information

Organizing Committee

- Organizer of the "Up grade Courses on Civil Engineering" (Fifteen Courses) National University of Salta (Argentina). 1984-1985.
- Organizer of the Course of Subjected Structures to Dynamic Actions" (EAD) (Present and for Internet). Polytechnic University of Catalonia, International Center of Numeric Methods. Barcelona, Spain. 1999, 2000, 2001, 2002, 2003, 2005.