

Brief report on the scientific and technical background of the research teams



Sergio Oller Martínez (h-index*=17) is Professor at Civil Engineering School of Barcelona belonging to the Technical University of Catalonia (BarcelonaTech-UPC: <http://www.upc.edu/>) - Spain (1988 - Present); *Senior Researcher* at International Center for Numerical Methods in Engineering (CIMNE: www.cimne.com), Barcelona Spain (1988 - Present). He has obtained his PhD. degree on *Civil Engineering* at Technical University of Catalonia, Spain, 1988, is *Doctor "Honoris-Causa"* from University of Salta, Argentina, 2007 and he has followed *Advanced Structural Analysis Studies* at Rome University, Italy 1983 and has obtained the *Civil Engineering degree in the*, National University of Salta, Argentina, 1979.

Professor Oller teaches courses in the UPC University: "**Strength of Materials and Structures**", course in Civil Engineering, Geologic Engineering and Aeronautical Engineering Schools. "**Fracture Mechanics**", course in the Master of Numerical Methods in Engineering, "**Composite Materials**" and "**Non-linear Dynamics**" courses in the PhD Program in Structural Engineering. Is also *Visiting Professor* at Civil Engineering Laboratory - National University of Tucumán Argentina (1991-2001), Department of Civil and Environmental Engineering, University of California at Berkeley (1998, 2005-2006). He has Advised **Twenty-three** "PhD. Thesis", and **thirteen** "Master Thesis".

Academic publications of Prof. Oller are summarized in: **eighty-seven** papers on *International Journals* (JCR), **fourteen** papers on *National Journals*, **hundred-twenty** papers on *International and National Congress*, **four** Books, **seventeen** Chapters of Books, and **eighteen** Monographic works.

Prof. Oller advises in collaboration with Profs. E. Onate, A. Barbat, G. Bugeda, and M. Cerrolaza a group of thirteen researchers focused on the area of Computational Mechanics in CIMNE (Barcelona, Spain). Also advises in collaboration with Prof. Liz Nallim a group of five researchers at the National University of Salta (Argentina). Three researchers, including the eighteen previously mentioned, are focused specifically in the area of biomechanics.

The research group of Prof. Oller has participated in 37 competitive projects in the last 20 years. Of these, 22 were funded by the Government of Spain, 13 by the European Union, 1 from the University of West Virginia, USA and 2 in Argentina.

Principal research areas: *Constitutive Models, New Structural Materials, Composites Materials, Fatigue, Biomechanics, Earthquake Engineering and Dynamic of Structures, Industrial Casting Processes, Parallel Computing.*

* **h-index** (Hirsch index): "An index that quantifies both the actual scientific productivity and the scientific impact of a scientist": h-index: 17 , g-index:33, Papers: 107 , Citations: 1251

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