

CV of Prof. Ing. Michele Ciavarella

Presently Full Professor at Politecnico di BARI (It)

H-index and other bibliometric data (on scopus)

Tot. number of papers on international journals (2001-2015) 212

Tot. number of citations from 2001 4600

H-index 36

Previous employment

- From Oct.10 to Oct. 12, Humboldt Senior Research Fellow, Technical Univ. Hamburg Harburg (G), working on squeak on hip prosthesis
- From Dec.07 to Sept 08 “Maitre de conférence” at Lab Mécanique des Solides Ecole Polytechnique Palaiseau(Fr) (sabbatical leave), working on fatigue models
- From Jan. 2000 to Sept. 2006, Senior Research Fellow (part time), University of Southampton, UK
- Feb 1999 - Ott 2002, Senior Researcher, Consiglio Nazionale delle Ricerche (Italian National Research Council), Bari , It
- From Oct. 1998 to Feb.1999 Senior Research Fellow (full time), University of Southampton, UK
- From Feb. 1998 to Aug.1998, Post-doc with Prof. D. A. Hills, University of Oxford, UK. Fretting fatigue and contact mechanics
- From Jul. 1997 to Aug.1997, Research Fellow with Prof. JR Barber, University of Michigan, Ann Arbor USA. Thermoelastic instabilities in brakes and clutches

Education and training

- 1994-1998. PhD (“dottorato”) in Mech Eng, Politecnico di BARI. From March '96 to Aug.'97 at University of Oxford under Prof. DA Hills
- 1989-1994. “Laurea” in Mechanical Engineering (5 years course) – Magna cum Laude, Politecnico di BARI (It)

Conference organization

- * Co-organizer of the world conference ICEM12 (Int Conf on Experimental Mechanics, www.icem12.poliba.it) in Bari, Italy, 29 Aug.-2 Sept. 2004.
- * Co-organizer of the world conference Icf11 (International Congress on Fracture, www.icf11.com) in Torino, March 2005
- * International Scientific Committee of the world conference Icf (International Congress on Fracture) 2009, 2013
- * Co-organizer of the Italian conference on Fracture, in Bari, June 2000

Journal board memberships

- Member of Editorial Board of International Journal of Aerospace and Lightweight Structures (IJALS), from 2011-
- Associate Editor ASME J. Tribology, from 2010-2015

- Member of Editorial Board of International Journal of Solids & Structures, from Sept. 05 to May 08.
- Member of Editorial Board of Fat Fract Eng Mat & Struct, from Feb. 07-Feb. 12.
- Member of Editorial Board of Acta Tribologica from Dec. 08-.
- * Member of Editorial Board of Int J Mech Science from Feb 18.

Memberships

- International Congress of Fracture, ESIS European Structural Integrity Society, Italian Group of Fracture, Associazione Italiana per l'Analisi delle Sollecitazioni (AIAS), in various years

Scientific committees membership

- Member of International Scientific Committee of CISIT - International Campus on Safety and Intermodality in Transportation, set in 2007 to address strategic aspects of transport in Nord Pas de Calais. This center groups 360 people, researchers, teachers, engineers, post-graduates, post-doctorates and assistants, and for 2007-2013 period, disposed of 46 M€ budget from various regional-state-european sources. Includes Ecole Centrale de Lille , Ecole des Mines de Douai, Université d'Artois, Université des Sciences et Technologies de Lille, Université de Valenciennes et du Hainaut-Cambrésis, IFFSTTAR, ONERA, and other research centers.
- International Panel member of Phd Programs in Mechanics at Ecole Centrale de Lille, Univ Valencia, Univ Sevilla, Politecnico di Torino in various years

Selection of special awards & invited lectures

- * Invited visiting “maitre de conference” at Ecole Polytechnique, Paris Palaiseau, Dec 07/Oct 2008
- * Invited at NSF workshop on Friction modelling in Washington 14-15 Oct 2006
- * Invited lecture at Thermo-mechanical modelling of solids – Ecole Polytechnique, Paris Palaiseau 9-12 July 2007
- * Invited by the US Air Force (WOS Windows On Science program) to a cycle of conferences on Fretting Fatigue at MIT (Prof. Subra Suresh), Purdue University (Prof. T. Farris), Wright Patterson AF Research Lab (Dr. Ted Nicholas), UC Berkeley (Prof. Robert Ritchie), February, 2000. For presenting the work on Fretting to the Universities and the labs connected to the MU(Multi University Research Initiative) of the USAF
- * Invited by the Inst. of Physics (UK) to give a lecture at the workshop “Tribological Failure Mechanisms in Repeated Rolling Contacts” – Robinson College, Cambridge - 22 July 2003
- * Invited by the Inst. of Physics (UK) to give a lecture at the workshop “Contact Mechanics”, Bristol, march 2004
- * 1998 Capocaccia National Prize of the Italian Stress Analysis Association (AIAS), for outstanding contribution to the study of frictional contact.
- * CNR final price after the grant spent in Feb. 1998 – August 1998 at University of Oxford, UK

*CNR "short term" fellowship travel grants: in July-August 1997, to University of Michigan, visiting Prof. JR Barber, in July-August 1999, to University of Oxford, visiting Prof. DA Hills, in July-August 2000, to University of Harvard, visiting Prof. JR Rice, in July-August 2001, to University of Oxford, visiting Dr. D. Nowell

Selection of grants

*PON Ricerca e Competitività 2007-2013 Innovhead project – Innovative technologies for reducing emission, consumption and operational costs in Heavy Duty engines, co-PI with prof. Demelio of a research unit for ca. 50 kEu.

*Centre of Excellence in Computational Mechanics (CEMeC), from 2001--ongoing, as co-PI and member of Managing Board (PI prof. Michele Napolitano). Also, Director of research line on "Thermoelastic and Fatigue contact problems", at Politecnico di Bari. Funded by Italian Minister for Research and Education with so far 750 kEu.

*PROMOMAT project on multiscale computational mechanics for hi/tech composite materials and coatings, involving a large number of companies and academic partners in Italy. 2002-ongoing. PI with so far about 100 kEu.

*Research project of national interest (PRIN2004), 2005-2006, on "Residual and multiaxial stress states in rolling contact fatigue problems", PI, funded locally with 30.4 kEu

*Vigoni project, 2006-2007 as PI with University of Hamburg and Stuttgart. Funded by DAAD and CRUI, with 5 kEu.

*Galileo project 2004/2005 Egide/ CRUI Conferenza dei Rettori, 2002, with Dr. Robert Wood & Dr. Singellakis (Univ. Southampton):- Optimisation and testing of surface protection coatings for hot components of turbines. Travel Grant. Funded for £US\$ 5k.

*AUTOCON - Brite Euram European Network Framework V Project on "Intermittency in Electrical Connectors", 2002-2006, local PI, Coordinator: Dr. John McBride (Univ. Southampton). Funded locally with 100 kEu.

*Network on COmputational MEchanics of Solids (COMES), CNR, PI, 1999-2001, IRL 40 ml. (220 kEu). Funded.

*"Progetto Finalizzato Materiali Speciali per Tecnologie Avanzate II - PFMSTA II" co/PI with DPPI-Politecnico di Ba (Proff. Monno e Demelio), CNR, 1999-2000, IRL 29 ml.

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