

INFORMAZIONI PERSONALI Prof. Gianpaolo Ruocco, PhD

ACADEMIC EXPERIENCE

nov 1997 – present	Associate Professor, tenured position Qualified for full professorship in the 2012/13 National Call for 09/C2 academic sector “Engineering thermodynamics and nuclear engineering”
Activity field	Teaching and research: Thermodynamics, Transport phenomena, Bioengineering, Energy management
Live research links	– ORCID record http://orcid.org/0000-0001-5342-3208 – SCOPUS Author ID https://www.scopus.com/authid/detail.uri?authorId=7005837421
Teaching	– from AY 2005/06 to date: Transport Phenomena – from AY 1997/98 to 2015/16: Engineering Thermodynamics – from AY 1997/98 to 1998/99: Fundamentals of Statistics and Computer Science – from AY 2004/05 to 2010/11: Alternative Energy Management
Supervision	A total of 20 Doctoral and Master’s Degree Thesis in the field of Thermal Fluid Science
Name and address of employer	Engineering College, University of Basilicata, Campus Macchia Romana, I-85100 Potenza
dec 2013 – dec 2015	Research Fellow
Activity field	Research coordination for various bioengineering projects
Name and address of employer	Institute of Food Science ISPA-CNR, 122/o Via G. Amendola, I-70126 Bari
oct 2000 – mar 2002	Lecturer
Activity field	Engineering thermodynamics
Name and address of employer	University of Rome “Tor Vergata”, 1 Via del Politecnico I-00133 Rome
1999 – 2008	Head of Research for Projects of Relevant National Interest – PRIN
Activity field	Organization, management, coordination of the local research group
Total amount raised	About €200k
Project titles	– Combined modes of heat transfer in gaseous impinging jets – Visualization and integrated simulation for the evaluation of heat transfer from impinging jets over plates in innovative configurations – Practical applications in process industries of heat and mass exchange due to impinging jets – Transport phenomena from plane and modified surfaces
Name and address of employer	Italian Ministry of University, 76A Viale Trastevere, I-00153 Rome
oct 1994 – oct 1997	Assistant Professor in tenure-track
Activity field	Teaching and research: industrial and environmental engineering
Name and address of employer	University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples
oct 1993 – jun 1994	Lecturer

Activity field Mathematics
 Name and address of employer University of Maryland University College Europe, NSA Capodichino, Naples
 oct 1986 – jun 1987 [Teaching Assistant](#)
 Activity field Thermal and fluid science
 Name and address of employer Tufts University, 419 Boston Ave, Medford, MA 02155

PROFESSIONAL EXPERIENCE

2016 – present [Academic spin-off “BMB”](#) (initiatives for Bio-Materials Behavior)
 Activity field Development and implementation of bioengineering applications based on thermodynamics and computational transfer phenomena
 Name and address of employer Engineering College, University of Basilicata, Campus Macchia Romana, I-85100 Potenza
 Tasks CEO
 2011 – 2014 [Incubated work group “CFDINNOVA”](#)
 Activity field Multi-physics virtualization in process bioengineering
 Name and address of employer AREA Science Park, 99 Padriciano, I-34149 Trieste
 Tasks CEO
 2010 – present [Technology transfer group “CFDnova”](#)
 Activity field Research and Development in Food & Bioengineering
 Name and address of employer Self-employed
 Total amount raised Ca. €300k
 Tasks CEO
 feb 2006 – oct 2007 [Advisor of Commission of Patents and Technological Transfer](#)
 Activity field Institutional management
 Name and address of employer University of Basilicata, Campus Macchia Romana, I-85100 Potenza
 Tasks Advisor, coordinator
 nov 2002 – jul 2005 [Director of Scientific Library](#)
 Activity field Institutional management
 Name and address of employer University of Basilicata, Campus Macchia Romana, I-85100 Potenza
 Tasks Administrative direction and personnel management
 2002 – 2003 [Expert Evaluator for Framework Programmes 5 and 6 of the European Community](#)
 Activity field Technical and administrative management of international research projects
 Task Paneler for projects evaluation, in the energy framework
 Name and address of employer Research Directorate-General, European Community, SDME 2/2, B-1049 Bruxelles
 1995 – 1996 [Professional Engineer, Thermal Systems](#)
 Activity field Engineering firm
 Task Design, verification, testing of mechanical systems in buildings (Part-time)
 Name and address of employer Tecnosistem SpA, 9 Vico II San Nicola alla Dogana, I-80133 Naples
 1985 – 1994 [Professional Engineer, Thermal Systems](#)
 Activity field Engineering firm
 Task Design, verification, testing of mechanical systems in buildings (Part-time)
 Name and address of employer Fred S. Dubin Associate, Viale Tiziano, I-00196 Rome

EDUCATION AND TRAINING

feb 1993 – sep 1994	Post-doctorate , with awarded scholarship
Majors	Transport phenomena, Environmental energy management
Name and address of employer	University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples
nov 1989 – aug 1992	Ph.D. in Mechanical Engineering , with awarded scholarship
Majors	Transport phenomena, Environmental energy management, High-temperature solar energy
Name and address of institution	University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples
aug 1985 – dec 1987	M.S. in Mechanical Engineering , with awarded tuition scholarship, GPA A-
Majors	Heat transfer, Fluid mechanics, Computer aided design
Name and address of institution	Tufts University, 419 Boston Ave, Medford, MA 02155
oct 1979 – mar 1985	Laurea degree in Mechanical Engineering , graduated summa cum laude
Majors	Energy systems, Acoustics, Heat transfer
Name and address of institution	University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples

REFEREE ACTIVITY

International Journal	– Swiss National Science Foundation, from 2016
	– Propulsion and Power Research, from 2016
	– Biosystems Engineering, from 2016
	– Drying Technology, from 2015
	– Applied Thermal Engineering, from 2015
	– Postharvest Biology and Technology, from 2014
	– International Journal of Energy and Environmental Engineering, from 2014
	– Powder Technology, from 2014
	– Food Engineering Reviews, from 2014
	– Chemical Engineering Science, from 2014
	– Chemical Engineering and Processing: Process Intensification, from 2014
	– Chemical Engineering Research and Design, from 2014
	– International Journal of Heat and Fluid Flow, from 2013
	– Food Research International, from 2012
	– Experimental Thermal Fluid Science, from 2012
	– International Journal of Computational Fluid Dynamics, from 2012
	– Applied Energy, from 2011
	– International Journal for Computational Methods in Engineering Science & Mechanics, from 2009
	– Food and Bioproducts Processing, from 2009
	– Food and Bioprocess Technology, from 2009
	– AIAA Journal of Thermophysics and Heat Transfer, from 2009
	– Journal of Food Engineering, from 2008
	– International Communications in Heat and Mass Transfer, from 2004
	– International Journal of Heat and Mass Transfer, from 2004
	– Heat and Mass Transfer, from 2001
	– International Journal of Thermal Sciences, from 2001
	– Numerical Heat Transfer, in 1997-01

INVITED SEMINARS

1999	Jet impingement heat transfer (with fellowship). Department of Mechanical Engineering, University of Tokyo, Tokyo (host: Prof. M. Shoji)
1999	Selected topics in heat transfer (with fellowship). Institute of Fluid Science, Tohoku University, Sendai (host: Prof. T. Aihara)

- 2004 Selected topics in heat transfer. Institute of Fluid Science, Tohoku University, Sendai (host: Prof. S. Maruyama)
- from 2006 – present Selected topics in transport phenomena in biosubstrates (with fellowship). Universidad Politécnica de Valencia, Valencia (host: Prof. A. Mulet Pons)
- 2010 Selected topics in conjugate heat transfer. Universidad Politécnica de Cataluña, Barcelona (host: Prof. M. Chiumenti)
- nov 2012 In-silico experiments of conjugate momentum, heat and mass transfers (with fellowship). University of Castilla–La Mancha, Ciudad Real (host: Prof. A. Salvador)
- oct 2015 Virtualization of biosubstrates processing. University of Salerno, Salerno (host: Prof. F. Marra)