

Short Curriculum Vitae of Michele La Rocca

Education

1984-1991, Master Degree in Mechanical Engineering, La Sapienza University of Rome

1992 - 1995, PhD in Theoretical and Applied Mechanics at Federico II University, Naples

1994 Successful candidate in the ENEL (Italian Electric National Company) open competition for Mechanical Engineers

2009, Successful candidate in the European Commission open competition for Administrators (AD5) in the building sector environmental technology management. OJ C 248 A of 23/10/2007

Positions

1994 -2004, Researcher at the Faculty of Engineering, Roma Tre University.

2004-2012, Associate Professor at the Department of Engineering, Roma Tre University.

2012 – Full Professor at the Department of Engineering, Roma Tre University.

Teaching

At Roma Tre University

1994 – 2004 Assistance to the course of Hydrodynamics

1994 – 2004 M.Sc. course Hydraulic modelling

2004 – present, B.Sc. course Fluid Mechanics

2006 – present, M.Sc. course Dynamics of pollutants in water bodies

2006 – present, M.Sc. course Advanced Hydrodynamics

2016 – present, M.Sc. course Advanced Hydraulics

2012-2014 M.Sc. course Bio-Fluid Mechanics

Tutoring of students

Tutor of several Bachelor, Master and Ph.D Students

At Arcadia University, in collaboration with Roma Tre University

2014 – present, Fundamentals of Fluid Mechanics

International teaching and research activity:

Courses and lectures given in the framework of the Socrates EU Teaching Staff Mobility Programme at the Polytechnic University of Catalunya, Barcelona, Spain (2004-2016)

Sabbatical leave at the Technical University of Berlin (September 2011-february 2012).

Courses and lectures given in the framework of the Socrates EU Teaching Staff Mobility Programme at the Technical University Berlin (2013-2017)

June 2016, Scientific Visit at the Department of Geology, Anna University, Chennai, India

Tutoring students both in their learning process and in final dissertation work.

Member of the Examination Committee of the final Ph.D. exam of David Velasco at the Politechnic University of Catalunya

President of the Examination Committee of the final Ph.D. exam of Anna Mujal at the Politechnic University of Catalunya

Tutor of the Ph.D. Student Mohamed Mahgoub at the Technical University Berlin.

Member of Examination Committee of the final Ph.D. exam of the Ph.D. Student Mohamed Mahgoub at the Technical University Berlin.

President of the Examination Committee of the final Ph.D. exam of Francesco Bregoli at the Politechnical University of Catalunya.

Tutor of the Ph.D. Student Elena Matta at the Technical University Berlin.

Member of Examination Committee of the final Ph.D. exam of the Ph.D. Student Elena Matta at the Technical University Berlin.

Research

Topics

Sloshing of free surface liquids in moving containers.

Unsteady two phase pipe flows.

Local scour phenomena in fluvial streams downstream of hydraulic structures.

Dynamics of environmental flows (gravity currents).

Lattice Boltzmann modelling of environmental flows.

Projects

2017 – Bilateral Indian-Italian project for mobility of researchers, funded by the Ministry of Foreign Affairs

2016 – TECO project. Funding for the Scientific Visit at the Department of Geology, Anna University, Chennai, India

PRIN 2013/2016 – Production of energy from osmosis in coastal environment (coordinator of the RU – Roma Tre – National Coordinator: Prof. Tullio Tucciarelli)

February-May 2013: joint Research Project between Technip and University Roma TRE on the transient's analysis in a pipe network.

March-May 2012: joint Research Project between ACEA and University Roma TRE on the analysis of the behaviour of a hydraulic damper for the prevention of the fall of bodies .

PRIN 2008/2010 – Modelling and measurement of the interaction between an open channel flow and sediments at different spatio-temporal scales.

PRIN 2002/2004 - Modelling of stratified fluid systems, open channel and varying celerity pipe flows

Hydraulic Research Group – Department of Civil Engineering Sciences, University RomaTRE - 2004-2009

PRIN 1994/1995 - Dynamics of vortex motion

PRIN 1996/1997 - Nonlinear dynamics of liquid motions

PRIN 1997/1999 - Turbulent modelling of open channel flows

CNR -Young researchers project - 2000 - Interfacial waves in a two phase liquid system

PRIN 2000/2002 - Interactions between whirling and turbulent flows and infrastructure in hydraulic engineering

Professional Activity

President of the Committee for the National Qualifying Examination of Professional Engineers. Year 2006.

Member of the Committee for the National Qualifying Examination of Professional Engineers. Years 2008-2012.

Assessor at the Court of Rome for Hydraulic and Mechanical Engineering

Expert evaluator for the Innovation Pole "Renewable Energy and mini hydro" of the Piemonte region - funded by the EFRD 2007-2013.

Expert evaluator for the European Commission – INEA H2020 Transport Calls

Bibliometric data (source: SCOPUS)

N. documents: 51

N. citations: 513

h-index: 13