



UNIVERSITÀ DEGLI STUDI DELL'AQUILA

Prof. Andrea Di Carlo

Curriculum scientifico

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Personal Data

Born: Avezzano, Italy, August 28, 1979

Master degree (2005) in Mechanical Engineering at the University "La Sapienza", Rome, Italy

Ph.D. (2009) in Industrial Production Engineering at the University of Rome "La Sapienza"

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POSITION:

RTD-B 09/D2, SSD ING-IND/24 at the Department of Industrial and Information Engineering and Economics- University of L'Aquila

WORK EXPERIENCES

26/05/2016-30/11/2019: Responsible for the Department of Industrial Engineering and Information and Economy-DIIE of the University of L'Aquila, for the project of the call B.1.1 - Biomass energy from the MISE-RDS entitled High performance flexible small scale biomass gasifier 2.0

01/06/2014-31/05/2018: Research grant at the Department of Industrial and Information Engineering and Economics: "Development of Eulerian-Eulerian models for the simulation of the process of Sorption Enhanced Steam Reforming", funded by the Project EU ASCENT GA608512

17/01/2017-16/01/2022: Scientific responsible of the international collaboration agreement between the Department of Industrial and Information Engineering and Economics of the University of L'Aquila and the AIST-Tsukuba research center for the following research: "Process development and optimization of the power generation with SOFC fueled by bio-derived fuels".

25/02/2017-08/03/2017: Invited researcher at AIST-Tsukuba Japan research center with 500,000 yen fellowship from AIST for the following joint research: "Process development and optimization of the power generation with SOFC fueled by bio-derived fuels".

06/05/2013-30/09/2015: Responsible for the development and testing of an electric power cogeneration plant (25 kWe-60 kWth) composed of a fluidized double bed biomass gasifier, biodiesel scrubber and internal combustion engine, within the project FILAS HyBioFlex

27/05/2013-31/05/2013: Consultant for the Abruzzo Region as energy expert for the EU Project Regions4GreenGrowth (R4GG), with the task of participating together with other European experts in carrying out a SWOT analysis of energy strategies undertaken by the Lazio Region in the field of renewable energy sources and energy efficiency.

01/02/2013-31/01/2014: Research grant at the Department of Mechanics and Aeronautics of the University of Rome "La Sapienza" entitled: Design and implementation of a catalytic cracking / reforming system for hydrocarbons and NH₃ for the supply of SOFC fuel cells financed by the Project EU UNIFHY GA299732

01/10/2013-05/11/2013: Consultant for the Municipality of Magliano Sabina for the assessment of the technical, scientific and environmental feasibility of a 600 kWe anaerobic digestion plant under construction in Magliano Sabina.

10/09/2012-10/12/2012: Professional Contract with CIRPS-Interuniversity Research Center for Sustainable Development. Object: Realization and test of a 100 kWth gasifier prototype for the European UNIFHY project

01/02/2012-31/01/2013: Research grant at the Department of Mechanics and Aeronautics of the University of Rome "La Sapienza" entitled Design and implementation of a catalytic cracking / reforming system for hydrocarbons and NH₃ for the supply of SOFC fuel cells financed by Far-Seas project, Ministry of Defense (NAVARM)

04/11/2011-31/12/2012: Professional collaboration agreement with MEPS-ki Srl with the object: assistance and consultancy activities for to the preliminary design of biomass power plants

01/03/2009-28/02/2011: Research grant funded by the EU Project 7FP UNIQUE-GA 211517 Dept. CHEMISTRY, CHEMICAL AND MATERIAL ENGINEERING University of L'Aquila, for the "Fluid-dynamic simulation of the freeboard of a fluidized bed gasifier using Eulerian-Eulerian and Eulerian-Lagrangian models "