



Alberto Traverso

Full professor

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Education and training

Mechanical Engineering and PhD in Fluid Machinery

University of Genoa - IT

Academic experience

2005 - 2014

Assistant Professor

University of Genoa

Language skills

English

Proficient

Spanish

Basic

Research interests

Alberto Traverso, Associate Professor of Energy Systems at University of Genoa (DIME) since 2014, formerly Assistant Professor since 2005 at Genoa Rolls-Royce University Technology Centre.

Qualifications: PhD in Mechanical Engineering (2004), Italian Professional Engineer (2000).

Main duties: Adjunct Professor at West Virginia University (USA) since 2010, Research scholar at National Energy Technology Laboratory – NETL (USA) since 2009, Chair, Vice-Chair and Point of Contact for Cycle Innovations Committee of the American Society of Mechanical Engineers – ASME in 2009-2015, Vice-Review Chair for ASME Turbo Expo' 2017 conference, Member of the Advisory Committee for the European Micro Gas Turbine Forum since 2017, Member of the International Advisory Committee (IAC) for Gas Turbine Society of Japan (GTSJ) since 2013.

Past Appointments: “Experienced researcher” under Marie Curie “EnSOFC” grant (2007 – 2010), at Rolls-Royce FCS laboratories, UK, and under Marie Curie “Bio-SOFC” grant (2007 – 2010), at AGH laboratories, Poland. External reviewer for Cambridge University PhD in 2008, for Royal Institute of Technology (KTH) PhD, Sweden, in 2016-2018, and for City University of London PhD, UK, in 2017.

Research interests: Alberto Traverso is active in the field of Advanced Energy Systems both in the experimental and theoretical fields. The main topics are: advanced energy cycle thermoeconomic assessment, dynamic

analysis of advanced gas turbine cycles - including fuel cell hybrid systems, development of advanced controls for energy systems, energy from the sea. Alberto Traverso leads or was involved in different experimental research activities: externally fired microturbine cycles, biomass gasification and pyrolysis, wave power technology, hydrogen production, smart polygeneration grids.

Research results: more than 150 scientific papers, most of them published at International conferences and Journals, 11 invited lecturers, 14 patents (Italy, US and World), 7 awards: 2018 GPPS Best Paper Award, 2017, 2013, 2008, 2003 ASME Best Paper Awards, 2009 Ansaldo Energia Innovation Award, 2006 10 most cited articles for the years 2002 to 2005 of the Journal "Applied Thermal Engineering", 2001 The European Talent Award for Innovative Energy Systems in Pow_Gen Europe Expo'. Transfer of knowledge to National companies (ENEL, ENI, Ansaldo Energia) and International companies (Rolls-Royce, LG Fuel Cell Systems, VAST Power Systems).

Leadership and funding: Alberto Traverso has been Scientific Responsible for the University of Genoa of more than 2,7Meuro research projects, including EU funded projects (H2020: PUMP-HEAT (coordinator), Bio-HyPP; FP7: Energy-Hub, RESILIENT), International projects (Air Force Office of Scientific Research – USA, National Energy Technology Laboratory – USA), National projects (Regional Council, Ministry of National Defence), private company research (Ansaldo Energia, RINA, etc.).

Review of research projects: Expert reviewer for Horizon 2020, European Commission, since 2014.