

## CURRICULUM VITAE

### Romano BORCHIELLINI

Romano Borchiellini was born in Turin, Italy, in 1958. He graduated in Mechanical Engineering in 1983 at Politecnico di Torino, Italy. Since February 2001, Romano Borchiellini is Full Professor at the Department of Energy of the Politecnico di Torino. His teaching activities cover thermodynamics, heat and mass transfer, and HVAC system in undergraduate and graduate degree courses. In 2010 he taught a PhD course (30h) in "Ventilation and fire safety in tunnel" at the National Technical University of Mendoza (Argentina). In the Politecnico he was Vice Rector (2005-2007 and 2009-2018), Member of the Board of Governors (2007-2013), Rector's Delegate for labor relations (2012-2018).

Among his publications there are more than 150 papers published in journals and international and national conferences. Most of these papers refer to analysis and modelling of thermal systems; he is reviewer for international journal and conferences.

He coordinated the research program "Transient thermo-fluid dynamic study of the Mont Blanc Tunnel in case of fire". For the results obtained in this program, he was charged by the Italian Ministry of Infrastructures and Transportations with a technical advice in the legal action carried by the Italian Lawyers in relation to the accident occurred on March 24 1999 in the Mont Blanc Tunnel.

He was the coordinator of the research unit of the Politecnico di Torino in the frame of the co-financed PRIN (Research program of national interest) 2004 and 2006 for research programs related to ventilation and smoke control in tunnel in case of fire.

Since 2012, he is vice-president of the Italian Committee for Tunnel Management of the World Road Association (PIARC); since 2009 he is one of the two Italian delegates appointed by Ministry of Infrastructures and Transportations in the Technical Committee "Road Tunnel Operation" of PIARC.

In October 2014 he was appointed as "Expert" in the Tunnel Standing Committee of the "Consiglio Superiore dei Lavori Pubblici" (Supreme Council responsible for overseeing public works).

Since 2016, he is member of the "Commissione Sicurezza Gallerie Ferroviarie" (National Committee for railway tunnel safety).

In November 2016 he was appointed as a member of the "Consiglio Superiore dei Lavori Pubblici" (Supreme Council responsible for overseeing public works) by the Italian Ministry of Infrastructures and Transport (2016-2019) and in may 2017 as a member of the Tunnel Standing Committee of the "Consiglio Superiore dei Lavori Pubblici".

Moreover, he was the national coordinator of PRIN 2008 "Biomass-to-Energy: Experimental Analysis and Demonstration of the Biogas Utilization in Solid Oxide Fuel Cells" and he was the Italian coordinator of the Joint Research Projects "Development of an efficient Parallel code for large-scale Radiation modelling (PARAD)" in the framework of the Executive Programme of Scientific and Technological Co-operation (2008-2010).

Between 2004 and 2010 he was Italian member in the Implementation-Liaison Committee Codes and Standards of the International Partnership for Hydrogen Economy (IPHE), appointed by the Italian Ministry of Environment and Territory Protection. He was also member of the Italian Hydrogen and Fuel Cells Technology Platform and from 2004 to 2010 he chaired the Hydrogen Committee of CTI-UNI (National Organisation for Standards) that is the Italian mirror of ISO TC 197 Hydrogen Technologies.

Between July 2014 and December 2018 he was the President of SiTI (Higher Institute on Territorial Systems for Innovation), a non-profit association set up in 2002 between the Politecnico di Torino and the *Compagnia di San Paolo* (founded in Turin in 1563 as a charitable brotherhood and is one of Europe's most important private foundations of banking origin), to carry out research and training activities oriented towards innovation and socio-economic growth.

Since December 2014, he has been chairing the Advisory Board of the Energy Center in Turin, a joint initiative of Piedmont Region, City of Turin, Politecnico di Torino and *Compagnia di San Paolo*.

Since March 2018 he is the Coordinator of the Energy Center initiative.