

# Bruno Fabiano

Associate professor

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## *Education and training*

2006

### **PhD in Environmental Technology and Economy**

Italian inter-University Consortium - Genova - Catania-Messina - IT

1988

### **MD in Chemical Engineering (with honour)**

110/110 cum laude

University of Genova - Genova - IT

## *Academic experience*

2011

### **Associate professor Chemical Plant sector**

University of Genova - Genova - IT

2001 - 2010

### **Assistant Professor Chemical Plant sector**

University of Genova

## *Teaching activity*

1996-1997 'Process Industry Plants', MD Chemical Engineering - Genova.

1999-2008 'Business Economy and Management 1', MD Chemical Engineering - Savona.

2002-2007 'Economy and Finance in the Process Industry', MD Chemical Engineering

2004-2010 'Industrial and Environmental Risk Management' MD Chemical Engineering - Genova

2008-2010 'Reliability and Safety in the Process Industries', MD Chemical Engineering - Genova

2011-2014 'Industrial and Environmental Risk Management', MD Chemical Engineering - Genova

2016-2018 'Unit Operation and Process Plants 1', BD Chemical Engineering - Genova

2009- 'Reliability, Safety and Risk Management', MD Chemical Engineering - Genova

## ***Postgraduate research and teaching activity***

### **PhD committees membership**

Professor and council member in the PhD course 'Chemical, Material and Process Engineering' currently 'Civil, Chemical and Environmental Engineering' - curriculum Chemical, Material and Process Engineering - Genoa University.

### ***Research interests***

The main research interests are focused on safety and environmental sustainability of industrial processes, with emphasis on the development of novel methodologies for safer and cleaner process plants. Current research topics include:

Methodologies and modeling addressed to environmental and accidental quantitative risk assessment (QRA).

Combustion and deflagration of gas, vapour and dusts: experimental simulation in wind tunnel, modeling and risk mitigation.

Inherent safety and sustainability of chemical processes and plants, with emphasis on hydrogen, biofuels, nanomaterials and CCS chain.

Human factor role in occupational and process risk.

Risk assessment in the multimodal transport of hazardous materials (road, rail, ship, pipeline).

Development of innovative chemical processes for sustainable and inherent safe production of novel nano materials.

### ***Editorial activity***

Member of the Editorial Board of 'Journal of Loss Prevention in the Process Industries', Elsevier

Member of the Editorial Board of 'Process Safety and Environmental Protection', IChemE - Elsevier.

Member of the Editorial Board of 'Chemical Engineering Transactions', AIDIC Servizi S.r.l.

Member of the Editorial Board of 'Int. J. of Oil, Gas and Coal Technology', Inderscience Publishers Ltd.

Guest editor of 'Process Safety and Environmental Protection' Special Issue 92(4), 2014.

Co-guest editor of 'Chemical Engineering Transactions' vol. 31(1-2), 2013.

Co-guest editor of 'Chemical Engineering Transactions' vol. 67, 2018.

Author of over 170 papers on profiled ISI journals, scientific and international conference books, dealing with chemical engineering topics, with emphasis on industrial and occupational safety, loss prevention, mathematical modeling and environmental protection.

ERC fields : PE8\_2 PE8\_10 PE8\_13

### ***Other professional activities***

Project leader and scientific responsible of the national research programme "Innovative methodologies for atmospheric pollution

monitoring by remote-sensing spectrophotometry” supported by the Ministry of Environment (Interministry Decree 1177/1989 G.U. n° 173/1989. Since 2007 he has been member for Italy of the Loss Prevention Working Party of the European Federation of Chemical Engineering (EFCE). Chairman of the Loss Prevention Working Party of the European Federation of Chemical Engineering (EFCE) for the years 2016-2019. Board member of the “European Process Safety Centre” EPSC, U.K. Member of Institute of Chemical Engineering (ICHEME ), U.K. Member of the International Panel of Loss Prevention Bulletin – ICHEME, U.K. Member of the Italian Association of Chemical Engineering (AIDIC) – Division Energy, Environment Safety & Quality.