

## Maurizio Bevilacqua

### 1. Academic position

- Since 01/11/2007: Full Professor of Mechanical and Industrial Plants (ING-IND/17) - Faculty of Engineering, Università Politecnica delle Marche
- 01/11/2001- 31/10/2007: Full Professor of Mechanical and Industrial Plants (ING-IND/17) - Faculty of Engineering, Università degli Studi di Bologna
- 01/11/1998 – 31/10/2001: Associate Professor Mechanical and Industrial Plants (ING-IND/17) – Faculty of Engineering, Università degli Studi di Parma
- 26/05/1990-31/10/1998 Tenured Researcher (Mechanical and Industrial Plants) - Faculty of Engineering, Università degli Studi di Ancona (presently Università Politecnica delle Marche)

### 2. Education

- 1986 – Master Degree in Mechanical Engineering with distinction, Faculty of Engineering, Università degli Studi di Ancona, (presently Università Politecnica delle Marche)

### 3. Institutional Services

- From November 2020 Dean for the Faculty of Engineering at Università Politecnica delle Marche
- From November 2018 to October 2020 Director of Department of Industrial Engineering and Mathematical Sciences at Università Politecnica delle Marche
- From May 2016 to a March 2017 Component of GEV ANVUR committee for Italian Research evaluation VQR 2011-2014
- From 2015, January - Università Politecnica delle Marche deputy delegate for CINECA Council.
- From 2013, September - Università Politecnica delle Marche deputy delegate “Istituto Tecnico Superiore - Nuove tecnologie per il Made in Italy di Recanati” Council and Technical Scientific Committee
- From 2013, September - Università Politecnica delle Marche deputy delegate for “Istituto Tecnico Superiore per le nuove tecnologie per il Made in Italy” Assembly and Council.
- From November 2012 to October 2018 he is director of Engineering Management Master Degree, Faculty of Engineering, Università Politecnica delle Marche.
- 2013-2014: Chair of the Italian National Commission for university professors recruitment for industrial engineering sector (ASN settore concorsuale 09/B2)

### 4. Scientific and Professional Membership

- Member of European Academy for Industrial Management (AIM)
- Member of AIDI (Associazione Italiana Docenti Impianti Industriali)

## 5. Teaching activities

Since Academic Year 1990/91 he teaches or has taught the "Impianti Industriali" (Operation Management), "Impianti Meccanici" (Industrial Plants Services), "Gestione della Produzione Industriale" (Industrial Production Management), "Gestione degli Impianti Industriali" (Industrial Plant Management), "Logistica Industriale" (Industrial Logistics), "Gestione dei Progetti e degli Impianti Industriali" (Project Management), "Progettazione e Gestione della Catena Logistica" (Supply Chain Management), "Sicurezza degli Impianti Industriali" (Industrial Safety Management) at the School of Engineering of University of Parma, Bologna and Ancona (now Università Politecnica delle Marche).

### Ph.D. and Master Degree student supervision

- He is at present supervising 3 Ph.D. students.
- Since 1992 he has supervised more than 250 Master students.

## 6. Research activity

### Areas of scientific interest

He is author of more than 100 scientific papers that have been published on national and international proceedings and journals.

His research topics mainly focus on:

- Industrial plants design
- Logistic and transportation management
- Quality Management and Control
- Energy Management
- Business Process Reengineering (BPR) and simulation methods in operation sector
- Develop of innovative models for risk analysis
- Experimental analysis of separation systems for two phase liquid-gas flows
- Project Management techniques applied to small-medium firms
- Life Cycle Assessment (LCA) in the development of a sustainable supply chain
- Fuzzy mathematics methods implemented in operation management

### Editorial and reviewer activity

- Referee for the Scientific Journals: Reliability Engineering & System Safety, European Journal of Operation Research, Journal of Food Engineering, European Journal of Innovation Management, International Journal of Production Economics, International Journal of Quality & Reliability Management, International Journal of Sustainable Engineering.
- Reviewer of the following research projects
  - Futuro in ricerca, 2012, MIUR
  - Fabbrica del futuro, 2012, MIUR
  - PRIN 2010, MIUR
  - PRIN 2009, MIUR

### Research projects

Prof. Bevilacqua attended 3 PRIN projects funded in 1997, 2001 and 2008, several projects MIUR 60%. Moreover, he collaborated in various research agreements with public and private bodies. A brief description of the projects has been mentioned in the following sections:

#### Progetti Internazionali

- BIO-ALL, Erasmus+ Programme – Key Action 2 (KA2), 2019-2022
- Ecotextyle: Vocational Education and Training on Product Environmental Management for the Footwear and Textile Sector, Erasmus+ programme Key Action 2 (KA2), 2017-2019
- ANL-MEd Algerian National Laboratory in Maintenance Education, Erasmus+ programme Key Action 2 (KA2), 2017-2020

### **PRIN project**

- Research topic: Drug management in health care  
PRIN project 2008: "Modelling, simulation and testing of innovative network for drug management in healthcare".  
Principal investigator: Prof. Giancarlo Giacchetta
- Research topic: Human operator influence on production systems management  
PRIN project 2001: "development and validation of a methodology to assess the incidence of human cognitive capacity on production systems performance "  
Principal investigator for the project: Prof. Augusto di Giulio
- Research topic: Multiphase flow analysis of industrial process plants  
PRIN project 1997: "theoretical and experimental analysis of fluids thermo-physical properties and of environmental impact energetics systems.  
Principal investigator for the project: Prof. Giovanni Latini

### **MIUR 60% Project**

- Big Data Analytics tools for maintenance management of industrial plants, 2018, Marche Polytechnic University
- The Functional Resonance Analysis Method (FRAM) for industrial safety analysis, 2017, Marche Polytechnic University
- Data Mining tools for assessing the level of adoption of Lean Production concepts in the industrial sector, 2016, Marche Polytechnic University
- Analysis and development of graphic methods to support the choice of maintenance policies, 2015, Marche Polytechnic University
- Tools and techniques for de-stressing the supply chain, 2014, Marche Polytechnic University
- Pharmaceutical logistic modelling for territorial districts  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 2013, Università Politecnica delle Marche
- Supply chain modelling through simulation analysis  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 2012, Università Politecnica delle Marche
- Fuzzy cognitive maps system and process safety analysis  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 2011, Università Politecnica delle Marche
- Agro food supply chain management  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 2010, Università Politecnica delle Marche
- Innovative tools for food process safety analysis  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 2008-2009, Università Politecnica delle Marche
- Quality and safety of food production systems analysis  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 2003-2007, Università degli Studi di Bologna
- Maintenance management innovative tools  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 2002, Università degli Studi di Bologna
- Quality, safety and eco compatibility of production systems  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 1999-2001, Università degli Studi di Parma

- Multi criteria decision method for maintenance management  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 1998, Università degli Studi Ancona
- Industrial systems safety  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 1997, Università degli Studi Ancona
- Reliability and maintenance of production systems  
Principal Investigator Prof. Ing. Maurizio Bevilacqua, 1995, Università degli Studi Ancona
- Experimental analysis of multi phase flow separation systems  
Principal Investigator Prof. Ing. Giancarlo Giacchetta, 1991-1993, Università degli Studi Ancona
- Automated factory for SME  
Principal Investigator Prof. Ing. Giancarlo Giacchetta, 1989-1990, Università degli Studi Ancona

## **7. Bibliometric indicators**

- At 2023, MAY, Maurizio Bevilacqua scientific production is characterized by the following parameters (source SCOPUS database):

**Number of documents: 74**

**Citations: 4071**

**H index: 30**