CURRICULUM VITÆ MARINA CAMPOLO DEPT. ENGINEERING & ARCHITECTURE (DPIA) University of Udine, 33100, Udine, Italy EMAIL: MARINA.CAMPOLO@UNIUD.IT

Education

1999 : PhD in Chemical Engineering (Chemical technologies & new materials), University of Udine, Italy;

1995 : BS - MS, Industrial Engineering, University of Udine, Italy, University of Udine, Italy.

Current and past Academic Position and Qualification

2013 -	Associate Professor of Chemical Engineering, ING-IND/25, University of Udine:
2010 -	National Scientific Qualification to Associate Professor of Chemical Engineering, ING-IND/25, Univer
2004 -	Technical staff, University of Udine;
2002 - 2004:	Post Doc, Universidad Complutense de Madrid;
1998 - 2003:	Contract teacher, University of Udine;
1999 - 2002:	Post Doc researcher, University of Udine;
1995 - 1998:	PhD student, University of Udine;
1995 :	Fellow, Consorzio Pisa Ricerche, Pisa.

Awards

- ASME: 2007 Robert T. Knapp Award for the best paper on analytical, numerical or laboratory research. Titolo dell'articolo: Strategies for dispersion control by jet in crossflow (FEDSM2006-98245), by M. Campolo, A. Cremese, A. Soldati
- University of Udine: 2003 Business Plan Competition Award for innovative ideas. Project title: Advanced strategies for measuring, modeling and controlling odor emissions, M. Campolo, S. Colussi and S. Rivilli.

Research interests

- 1. OPTIMIZATION OF INDUSTRIAL PROCESSES Study of transport and dispersion mechanisms in chemical processes/equipment: stirred reactors, injection systems (cross-flow jets) and abatement systems.
- INNOVATIVE METHODS FOR THE ENVIRONMENTAL MANAGEMENT OF INDUSTRIAL IMPACTS Use of state of the art methodologies developed by chemical engineers to to model the dynamics of transport/transformation of pollutants in the environment: neural models for flowrate prediction, numerical models for water quality evaluation and optimization.
- ANALYSIS OF BIOLOGICAL/BIOMEDICAL SYSTEMS Study of the mechanisms of transport and dispersion of fluids/chemical species in bio-reactors and bio-medical devices.
- 4. ANALYSIS OF POLLUTANT FATE AND TRANSPORT IN THE ENVIRONMENT Study of mechanisms of transport and dispersion of chemical species in the environment for impact assessment; analysis of environmental pressure in industrial areas.

Scientific Referee per Riviste Scientifiche Internazionali

- 1. Atmospheric Environment;
- 2. Acta Mechanica;
- 3. Advances in Water Resources;
- 4. AIChE Journal;
- 5. Carbohydrate Polymers;
- 6. Chemical Engineering Communications;
- 7. Chemical Engineering Research and Design;
- 8. Chemical Engineering Journal;
- 9. Chemical Engineering Science;
- 10. Computers and fluids;
- 11. HESS (Hydrology and Earth System Sciences);
- 12. Hydrological Processes;
- 13. IEEE Computational Intelligence Magazine;
- 14. International Journal of Multiphase Flow;
- 15. Journal of Aerosol Science;
- 16. Journal of Hydrology;
- 17. Journal of Hydrological Sciences;
- 18. Natural Hazards;
- 19. SERRA (Stochastic Environmental Research & Risk Assessment).
- 20. Water Resources Research;

Teaching activities

- 1. Elements of Modeling and Process Simulation, B.Sc. in Industrial Engineering for Environmental Sustainability, University of Udine, a.a. 2021-2022.
- 2. Tools for the Evaluation of Environmental Impacts, M.Sc. in Management Engineering, University of Udine, a.a. 2020-2022.
- 3. Industrial processing plants, B.Sc. in Industrial Engineering for Environmental Sustainability, University of Udine, a.a. 2021-2022.
- 4. Design of Industrial Plants Dynamics and modeling of pollutants, M.Sc. in Environmental and Energy Engineering, University of Udine, a.a. 2013-2019.
- 5. Environmental Chemical Engineering, M.Sc. in Environmental and Resources Engineering, University of Udine, a.a. 2010-2011.
- 6. Chemical plants, M.Sc. in Management Engineering, University of Udine, a.a. 2000-2003.
- 7. Fluid mechanics, B.Sc. in Mechanical Engineerng, University of Udine, a.a. 1998-2000.

Industrial research activities

- Evaluation of the pollutant dispersion from industrial settlements (VIA, AIA procedures);
- Environmental studies on complex industrial areas;
- Analysis and verification of fume extraction systems;
- Analysis and modeling of industrial processes/equipment.