

Francesca Malpei

M.Sc. Degree In Civil Engineering at Politecnico di Milano and a PhD in Environmental Engineering (1988-1991) in the same University. Assistant Professor (1999), Associate Professor (2005) and Full Professor (January 2016). She is now professor of Wastewater Treatment Engineering (M.Sc level, 10 ECTS, Faculty of Civil and Environmental Engineering of Politecnico di Milano- Milano Leonardo Campus).

Member of the Environmental Engineering Ph.D Committee of Politecnico di Milano from 2005 to 2008, she is now member of the Teaching Committee of the Environmental Engineering Ph.D of the Ph.D School of Politecnico di Milano. She was invited as member of 5 foreign Examination Boards and several Italian boards.

Since 2005 she tutored 30 Master thesis, 6 Ph.D. thesis (completed) and 2 in progress Ph.D thesis.

Her research activities have over the years focused on the study of innovative treatment of municipal and industrial wastewater, on sludge dewaterability, on biological removal of organic micro-pollutants and priority substances, on the reuse of wastewater. In the most recent years the research has focused on anaerobic processes to treat and to recover green energy from wastewater and solid wastes and specifically: pre-treatments to increase anaerobic biodegradability; methods, measurement and models to detect and predict anaerobic degradation; the use of anaerobic membrane bioreactors for the sustainable treatment of municipal wastewater and industrial. She is also active in biohydrogen production by dark fermentation and biogas upgrade to biomethane by methanogenic hydrogenotrophy.

She is scientific director of the "A.Rozzi" and Environmental Engineering laboratories (DICA Dept.) and of "Fabbrica della Bionergia" (Polo Cremona, Politecnico di Milano), a research and technology transfer centre specifically dedicated to anaerobic processes.

Member of the Scientific Committee of the "13th IWA World Congress on Anaerobic Digestion", Santiago de Compostela (Spain), 25-28 June 2013, and "14th IWA World Congress on Anaerobic Digestion", Vina del Mar (Chile), 15-18 November 2015.

In the last 10 years and with reference to the anaerobic digestion topic, she coordinated two research projects of national or regional competitive calls (Italian Ministry of Agriculture and Ministry of Education / Lombardy Region) and an emblematic project of the Cariplo Foundation. She was also scientific director of local units within national and European research projects, including a project LIDIA PRIN2007 and the National Cluster Green Chemistry.

Author of over 150 publications, contemporary H index of 12.