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PSAM12 Speaker Bio

Safety of LPG rail transportation: influence of safety barriers

Short Statement: Corresponding author.

BIOGRAPHY

Education: Ph.D. in Industrial Chemistry and Chemical Engineering (*cum laude*), Politecnico di Milano, 2004-2007. 2006: visiting student in the research group of prof. R. Langer at the Massachusetts Institute of Technology (MA) in 2006 winning the 'Foundation R. Rocca' prize for academic excellence Degree in Chemical Engineering (*Laurea cum laude*), Politecnico di Milano (Italy), 2003.

Working Positions:, 2008-present: Assistant Professor, Politecnico di Milano

Teaching: *Modelling of the consequences of accidents in industrial plants.* at Politecnico di Milano (2008-present).

Areas of Research and Expertise: The research (experimental and modeling) is summarized in publications, mainly in the fields of industrial safety and bioengineering. In particular, with regard to industrial safety analysis she has dealt with the consequences of accidental events related to emerging risks, such as CFD modelling of the dispersion of heavy gases in geometrically complex environments and the definition of methodologies for risk assessment of industrial accidents triggered by natural events (called NaTech events). As for bioengineering, she has focused in particular on materials and biomolecules interactions, and on studies of biocompatibility of materials for the development of proteins separation processes.

