

Francesca Scargiali

Biographical Summary

Francesca Scargiali has been an Associate Professor of Unit Operations and Chemical & Biochemical Plant Design at the University of Palermo since November 2019. She has been the Coordinator of the Bachelor and Master Degree in Chemical Engineering at the University of Palermo since November 2022. She has obtained the qualification of Full Professor (ASN 2018-2020, Chemical Plant and Industrial Processes) in 2020. After her degree, she worked for about ten years as a chemical engineer at SARAS Refinery technical offices in Milan. In 2002 she got back to research by means of a collaboration with the Chemical Engineering Department in Palermo where she got her PhD in Chemical Engineering in 2007 and became a permanent Researcher in 2011.

The research activity carried out has led to over 80 scientific publications and mainly regarded the experimental investigation as well as the modelling and development of single-phase and multiphase bioreactors. She developed several original experimental techniques in this field, especially for assessing gas-liquid mixing phenomena. She has also been involved in using Computational Fluid Dynamics (CFD) techniques as a tool for the solution of complex modelling tasks.

Since 2010 she has the full responsibility for the “Biochemical Reactors” and “Chemical and Biochemical Plants” courses.

In 2005, she received the Senior Moulton Medal from the UK Institution of Chemical Engineers (IChemE), a prize awarded to the authors of the best paper published by the Institution during the year.