

RECENT ADVANCES IN BUBBLE COLUMNS

5th November 2019 Paris - France

Bubble columns are frequently used in the chemical, biotechnology and water treatment industries, as well as many others. Despite decades of research, the design and scale-up of bubble column reactors is still a challenging task. What are the challenges and opportunities? What are the latest experimental and numerical techniques and tools that will help design and operation?

The group 'Reactors & Intensification' of the French society of chemical engineering (SFGP) and the Working Party 'Multiphase Flows' of the European Federation of Chemical Engineering (EFCE) invite you to participate in a 1-day workshop on the recent scientific developments in the field of bubble columns and bubbly flows involved in chemical reactors. This event will bring together some of the principal experts in the field today and will be the opportunity to discuss the current challenges.



On-line registration

https://www.weezevent.com/ recent-advances-in-bubblecolumns

70€ - SFGP members 90€ - non-SFGP members

Deadline for registration 25th October



Conservatoire National des Arts et Métiers (CNAM)

2 rue Conté (métro Arts et Métiers) Paris, France



EFCE WP 'Multiphase Fluid Flow' michael.schlueter@tu-harburg.de







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	8:45 - 9:15	Registration / Welcome
	9:15 - 10:25	New experimental techniques for characterising bubbly flows
	9:15	Bubble columns hydrodynamics revisited according to new experimental data Alain Cartellier, University of Grenoble Alpes
	9:50	Tracking the concentration of reactants behind rising bubbles by means of Time Resolved Scanning Laser Induced Fluorescence (TRS-LIF) Michael Schlüter, Hamburg University of Technology
	10:25 - 10:45	Coffee break
	10:45 - 14:20	Advances in modelling of bubbly flows
	10:45	Recent advancements in the simulation of bubble columns with CFD and PBM Daniele Marchisio, Politecnico of Torino
	11:20	Agitation induced by bubbles: physical interpretation and modelling Frédéric Risso, Institut de Mécanique des Fluides de Toulouse
	11:55	Scale-bridging interface-resolving simulation of bubble flow Holger Marschall, Technical University Darmstadt
	12:30 - 13:45	Lunch
	13:45	Insights into turbulent bubbly flows from Direct Numerical Simulations Guillaume Bois, CEA Saclay
	14:20 - 16:05	Industry related flow studies
	14:20	To be confirmed Arne Hoffmann, BASF SE
	14:55	Tailoring bubble action for intensified gas-liquid contacting Niels Deen, University of Eindhoven
	15:30	Computational modelling of pilot & industrial bubble columns - successes & challenges David Fletcher, The University of Sydney



16:05 - 16:30 Conclusions



