

## Solvay Workshop on "Mixing: At the crossroads of foundations and practices"

4-6 December 2024, ULB - Campus Plaine - Building NO - 5<sup>th</sup> Floor - Solvay Room

### WEDNESDAY 4 DECEMBER

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08:30 - 08:45	Registration
08:45 - 09:00	Opening and welcome speech
09:00 - 10:00	<b>Patrice Meunier:</b> <i>The diffuselet method for scalar mixing</i>
10:00 - 11:00	<b>Marco Dentz:</b> <i>Dispersion and mixing in heterogeneous media across scales</i>
11:00 - 11:30	COFFEE BREAK
11:30 - 12:30	<b>Emmanuel Villermaux:</b> <i>The quantum architecture of mixtures</i>
12:30 - 14:00	LUNCH BREAK
14:00 - 15:00	<b>Kevin Roger:</b> <i>Nanoprecipitation: when (mixture) thermodynamics meet (mixing) hydrodynamics</i>
15:00 - 16:00	<b>Joachim Mathiesen:</b> <i>Dispersion in two-phase porous flow</i>
16:00 - 17:00	Discussions
<b>17:00</b>	<b>Poster session (Belgian Beers and Cheese) - 9th Floor</b>

### THURSDAY 5 DECEMBER

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09:00 - 10:00	<b>Colm-Cille Caulfield:</b> <i>Something old, something new: (Some of the ways) history matters for stratified mixing</i>
10:00 - 11:00	<b>Jörg Schumacher:</b> <i>Numerical studies of mixing in clouds</i>
11:00 - 11:30	COFFEE BREAK
11:30 - 12:30	<b>Detlef Lohse:</b> <i>Melting and mixing</i>
12:30 - 12:40	GROUP PHOTO
12:40 - 14:00	LUNCH BREAK
14:00 - 15:00	<b>Eric Clément:</b> <i>Active bacterial mixing from individual to collective</i>
15:00 - 16:00	<b>Eleonora Secchi:</b> <i>Stress hardening, transport dynamics, and adaptive strategies in the environment</i>
16:00 - 16:30	COFFEE BREAK
16:30 - 17:30	<b>Marc Hesse:</b> <i>Mixing and transport across ice shells in ocean worlds</i>
<b>19:30</b>	<b>BANQUET (Les Petits Oignons, 25 rue de la Régence, 1000 Brussels. Registration is mandatory)</b>

## FRIDAY 6 DECEMBER

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- 09:00 - 10:00 **Chris MacMinn:** *Deformation-driven mixing in a soft porous medium*
- 10:00 - 11:00 **Elisabeth Guazzelli:** *Break-up of falling clouds of particles in vortical flows*
- 11:00 - 11:30 COFFEE BREAK
- 11:30 - 12:30 **Henri Lhuissier:** *Mixing with viscosity contrast*
- 12:30 - 14:00 LUNCH BREAK
- 14:00 - 15:00 **Tom Solomon:** *Active mixing in laminar flows: swimming microbes and propagating reaction fronts*
- 15:00 - 16:00 **Anne De Wit:** *Reactive fluids: from mixing to self-organization*
- 16:00 - 16:30 COFFEE BREAK
- 16:30 - 17:30 **Tanguy Le Borgne:** *Mixing-induced reactions in porous media*