

Dispersed Two-Phase Flows (6th Edition)

November 23rd-25th, 2026

Keynotes speakers:

Catherine Colin, Full Professor at Toulouse INP and Institut de Mécanique des Fluides de Toulouse,

Sergio Chibarro, (LISN, Université Paris-Saclay),

Dirk Lucas, Head of CFD division, Senior Researcher at Helmholtz-Zentrum Dresden-Rossendorf (HZDR),

Romain Monchaux, (ENSTA),

Valérie Vidal, (ENS Lyon).

ORGANISED BY : SOCIÉTÉ HYDROTECHNIQUE DE FRANCE

Scientific Comitee : Renaud Ansart (INTP), William Benguigui (EDF), Nicolas Rimbert (LEMTA), Nathalie Seiler (CEA), Stéphane Vincent (UGE).

Co-organisation : Christophe Josserand (LadHyX), Stéphane Mimouni (EDF), Véronique Roig (IMFT).





Call for papers

November 23rd-25th, 2026 - Chatou, EDF Lab (78400)

EVENT PRESENTATION

The objective of the conference is to bring together researchers from different communities (academics and researchers from industrial research institutes in fluid mechanics, chemical engineering, ...) working on fundamental problems involving dispersed flows.

In many industrial or environmental situations, particles, drops or bubbles are dispersed in a carrier fluid. Understanding and modeling dispersed flows is therefore a major issue for many applications including chemical engineering (bubble columns, water treatment, fluidized beds, oil refining), nuclear industry (boiling in steam generators, containment spray systems), environmental engineering (sediment transport, coastal erosion, river restoration), geophysics (volcanic processes, fluid migration in sedimentary basins), astrophysics (protoplanetary dust, planet formation) and combustion applications (atomization, spray combustion).

Experimental, numerical and theoretical studies will be presented on the following topics:

- Dynamics and transfer around isolated particles;
- Interfacial dynamics (deformation, coalescence and rupture);
- Hydrodynamics of dispersed flows (turbulence, dispersion, two-way coupling);
- Mixing, transfers and phase-change in dispersed flows;
- Transport in dispersed flows at high volume fraction;
- Complex dispersed flows: density/viscosity stratification, granular & non-Newtonian flows
- Development of experimental methods;
- Development of numerical methods;
- Multiscale, multiphysics modeling;
- Deep-learning and multiphase flow.

KEY DATES :

Abstract deadline: July 31st, 2026 (One page in English required)

Abstract selection: October 1st, 2026

Final program: October 15th, 2026

To submit your abstract, visit the conference's official page :
<https://www.shf-hydro.org/colloques/dispersed-two-phase-flows-2026/>

