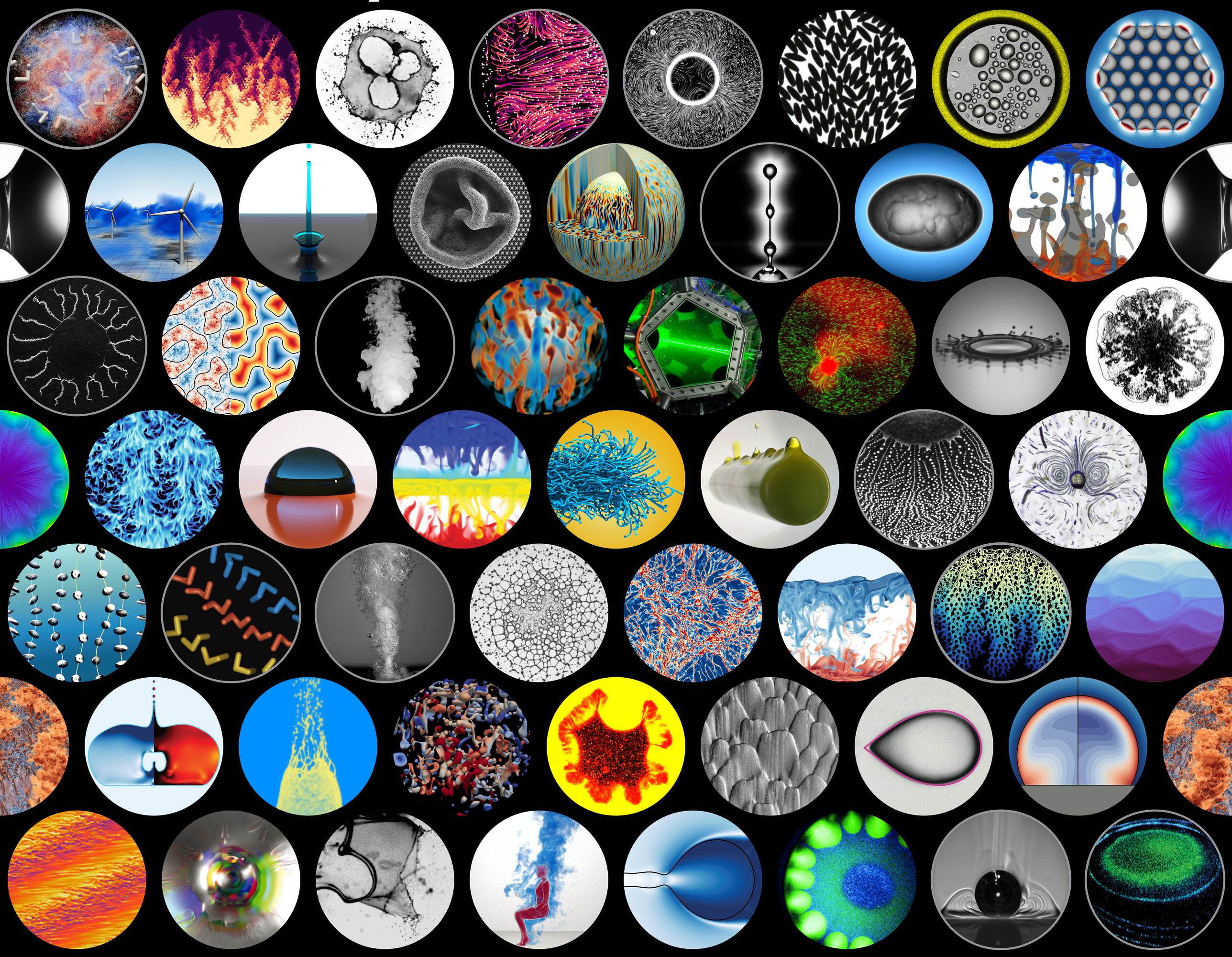
Physics of Fluids



The Physics of Fluids group is studying a wide variety of flow phenomena, both fundamental and applied, and we combine experimental, theoretical, and numerical methods to solve problems in fluid dynamics. The range of topics go from nano bubbles to accretion disks, from granular flow to medical flow, and from wind turbines to microfluidic chips. The problems we study generally get their complexity from phase transitions (boiling, cavitation, melting, dissolution), from particulate additions (particles, bubbles, droplets), from chemical additions (surfactants, pH), from gradients (salinity, thermal, velocity), from boundary conditions (pinning, (de)wetting, superhydrophobicity), or material properties (elasticity, plasticity). Complexity can also arise from very small scales or very high velocities, which can be solved by using the latest high-speed cameras, (confocal) microscopes, and high speed lasers, or by simulating the problems.

Physics of Fluids

UNIVERSITY OF TWENTE.

Full-time

Prof. Detlef Lohse
Prof. Devaraj van der Meer
Prof. Jacco Snoeijer
Prof. Michel Versluis
Assoc. Prof. Sander Huisman
Assoc. Prof. Dominik Krug
Assis. Prof. Guillaume Lajoinie
Assoc. Prof. Corinna Maaß
Assoc. Prof. Alvaro Marin
Assoc. Prof. Richard Stevens

Part-time

Dr. Martin van der Hoef
Prof. Chris de Korte
Prof. Marjolein van der Linden
Prof. Andrea Prosperetti
Prof. Chao Sun
Prof. Roberto Verzicco
Prof. Xuehua Zhang

MAX-PLANCK-GESELLSCHAFT

pof.tnw.utwente.nl

twitter.com/poftwente

youtube.com/c/PoFTwente