

# FSI 2018

The 5th International Workshop on Modeling, Analysis, Simulations, and Applications  
of Inter-Facial Dynamics and FSI Problems

June 1—2, 2018 | Beijing, China

June 01, 2018 (Friday) Room 219, AMSS New Building		
08:30–08:40	Opening Remarks	
Session 1 Chair: Zhilin Li (NC State)		
08:40–09:25	Dynamics of the particulate Pulse Detonation Engine (PDE)	Boo Cheong Khoo NU Singapore
09:25–09:40	Take Group Photos	
09:40–10:00	Coffee Break	
Session 2 Chair: Chensong Zhang (AMSS)		
10:00–10:45	Numerical techniques for the simulation of discrete fracture networks	Philippe Devloo Univ of Campinas
10:45–11:30	Elastic contact in fluid-structure interactions	Thomas Richter Univ of Magdeburg
11:30–13:30	Lunch Buffet, 4th Floor, Wuke Hotel	
Session 3 Chair: Linbo Zhang (AMSS)		
14:00–14:45	On the stability and accuracy of partially and fully implicit schemes for phase field modeling	Jinchao Xu Penn State Univ
14:45–15:30	Implicit boundary and anisotropic mesh adaptation for multiphase flow simulations	Thierry Coupez Paris Tech
15:30–16:00	Coffee Break	
Session 4 Chair: Li Yuan (AMSS)		
16:00–16:45	A fast parallel algorithm for direct simulation of particulate flows using conforming grids	Peter Minev Univ of Alberta
16:45–17:30	Local lubrication model for spherical particles within an incompressible Navier-Stokes flow	Lisl Weynans Univ of Bordeaux
18:00–20:00	Banquet for Invited Guests, 2nd Floor, Liaoning Hotel	

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June 02, 2018 (Saturday) Room 219, AMSS New Building		
<b>Session 5</b> Chair: Philippe Devloo (Univ of Campinas)		
08:30–09:15	Some numerical techniques to solve Bernoulli's free boundary problem	Francois Bouchon Univ Clermont Auvergne
09:15–10:00	Free boundary problems and variational inequalities	Kazufumi Ito NC State Univ
10:00–10:20	Coffee Break	
<b>Session 6</b> Chair: Tiegang Liu (Beihan Univ)		
10:20–11:05	Sperm and ciliary motility and in viscous and viscoelastic media	Robert Dillon Washington State Univ
11:05–11:50	A least squares augmented method for fluid and porous media couplings	Zhilin Li NC State Univ
11:50–12:00	Closing Remarks	
12:00–14:00	Lunch Buffet, 1st Floor, Liaoning Hotel	



Direction from the Liaoning International Hotel to the conference venue (AMSS New Building, CAS). It takes 10 to 15 mins walk.