

Electrokinetics in Relation to Colloidal Flocculation and Sedimentation

Program

Friday, March 11

9:20	Registration desk open	
9:50	Opening remark	(Chairman) (Jun Ma)
9:55	Particle Coagulation and Flocculation Dynamics in Water: Mathematical Simulation and Experimental Verification Xiao-Yan Li, The University of Hong Kong	
10:45	Role of aluminum speciation in the removal of natural organic matter by coagulation process Chengzhi Hu, Chinese Academy of Sciences	(Shane Usher)
11:05	Preoxidation to enhance the coagulation of surface waters with full scale application in China Jun Ma, Harbin Institute of Technology	(Shane Usher)
11:55	Lunch (board meeting of Asian net work on flocculation)	
13:30	Dewatering and structural deformation of flocculated aggregates Shane Usher, University of Melbourne	(Xiao-Yan Li)
14:20	Removal of Fluoride from Aqueous Solution by Fe/Al impregnated Granular Ceramics Nan Chen, University of Tsukuba	(Chengzhi Hu)
14:40	Deposition of Colloidal Particles onto a Single Cylinder Yasuyuki Kusaka, University of Tsukuba	(Takeshi Nashima)
15:00	Current trends in instrumentation of electrokinetics Shinichi Takeda, Takeda Colloid Techno-Consulting Co., Ltd	(Takeshi Nashima)
15:30	Break	
15:50	Permeation Behavior of ion through Reverse Osmosis Membranes Keiichiro Saito, Tokyo Institute of Technology	(Koji Asami)
16:10	Formation of nano/micro-particles by aggregation of food materials Sosaku Ichikawa, University of Tsukuba	(Koji Asami)
17:00	Active control of fluid and particles by using induced-charge electro-osmosis with high-aspect-ratio structure Hideyuki Sugioka, Frontier Research Center, Canon Inc.	(Huan J. Keh)
17:20	Characterization of the permeability of fractal aggregates using particle image velocimetry (PIV) Feng Xiao, Chinese Academy of Sciences	(Huan J. Keh)
17:40	End of the first day	
18:00 -20:00	Banquet A	

Saturday, March 12

- 9:30 Direct Numerical Simulations of Colloidal Dispersions (Chairman)
(Sing Bor Chen)
Ryouichi Yamamoto, Kyoto University
- 10:30 Dielectric spectroscopy of heterogeneous systems (Hiroyuki Ohshima)
Koji Asami, Kyoto University
- 11:30 Lunch
- 13:00 Computer simulation on diffusion and migration of particles and chain molecules (Ryouichi Yamamoto)
in porous media
Sing Bor Chen, National University of Singapore
- 14:00 Sedimentation Adsorption of a Charge-regulated Colloidal Particle to a Charged Surface (Motoyoshi Kobayashi)
Jyh-Ping Hsu, National Taiwan University
- 15:00 Poster session
- 16:15 Colloid Transport by Interfacial Forces (Yasuhisa Adachi)
Huan J. Keh, National Taiwan University
- 17:15 Electrokinetics of highly charged soft particles (Jyh-Ping Hsu)
Hiroyuki Ohshima, Tokyo University of Science
- 17:35 Discussion (Yasuhisa Adachi)
- 17:50 End of the workshop
- 18:00 Banquet B (*uchiage*, farewell party)