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The Society of Rheology, Japan

"New Aspects of Micro- and Macroscopic Flows in Soft Matters"

Jointly organized by OIST and SRJ (The Society of Rheology, Japan)

DATE: Monday, August 15, 2016 - Wednesday, August 17, 2016

LOCATION: OIST Seaside House and OIST Main Campus (Day 1 only)

Program

Arrival day (Sunday, August 14) Venue: Chura Hall at Seaside House

18:00 Welcome Dinner (Closed)

Day 1 (Monday, August 15) Venue: B250 Main Campus (9:00-)

9:00-9:20 Introduction

Interface and Instabilities – Chair: Peter Fischer

9:30-9:55	"Two-dimensional foam under shear: bubble migration, size segregation and
	evolving rheology" (Prof. James Feng)
9:55-10:20	"Asphaltenes at oil-water interfaces and their role in coalescence"
	(Prof. Dimitris Vlassopoulos)
10:20-10:45	"Properties of self-propelled droplets in a Leidenfrost state on liquid
	substrates" (Dr. Stoeffel Janssens)
10:45-11:00	Coffee Break

Interface and Instabilities - Chair: Sandra Lerouge

11:00-11:25	"The stabilizing effect of shear thinning on the onset of purely elastic
	instabilities in serpentine microflows" (Prof. Anke Lindner)
11:25-11:50	"Flow of wormlike micellar solutions around confined microfluidic cylinders"
	(Dr. Simon Haward)
11:50-12:15	"Heat transfer recovery on a surfactant drag-reducing flow"
	(Prof. Hiroshi Suzuki)
12:15-13:50	Lunch and Campus Tour (OIST Campus)





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Colloidal Systems and Microstructure Formation – Chair: Tsutomu Takahashi

14:00-14:25	"(Hydro)dynamics of self-propelled camphor boats at air-water interfaces"
	(Prof. Mahesh Bandi)
14:25-14:50	"Hydrodynamics of copepod locomotion, feeding, and sensing"
	(Prof. Daisuke Takagi)
14:50-15:15	"Steady and transient rheology of Graphene Oxide solutions"
	(Dr. Francesco Del Giudice)
15:15-15:40	"Patterning surfaces with colloid-bottlebrush polymer suspensions"
	(Prof. Michel Cloitre)
15:40-15:55	Coffee Break

Rheology and Dynamics of Complex Fluids – Chair: Charles Schroeder

15:55-16:20	"Shear banding (or not) in entangled polymers: what is the parameter space
	in which to look (or not)?" (Prof. Peter Olmsted)
16:20-16:45	"Dynamics of semidilute polymer solutions" (Prof. Ravi Jagadeeshan)
16:45-17:10	"Viscoelastic properties of supramolecular polymer melts end-functionalized
	with coordinative interactions" (Prof. Evelyne van Ruymbeke)
18:45-20:00	Dinner (Closed)

Evening Session – Chair: John Brady

20:00-20:30	"Evolution of miscible liquid sessile and pendant drops" (Prof. Gerry Fuller)
20:30-21:00	"Quantitative MODELING of The Extensional Rheology of saliva using a
	sticky Finitely extensible network (SFEN) model" (Prof. Gareth McKinley)





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Day 2 (Tuesday, August 16) Venue: Seaside House

Interface and Instabilities - Chair: Jan Vermant

9:00-9:25	"Fracture in polymeric liquids" (Prof. Ole Hassager)
9:25-9:55	"Elastically driven, intermittent microscopic dynamics in soft solids"
	(Prof. Emanuela Del Gado)
9:55-10:20	"Grain boundary kinetics during crystallization in magnetic colloidal
	monolayers" (Dr. Ryohei Seto)
10:20-10:45	"Numerical portrayal of elastic flow instability, its possible remedy and route to
	chaos with emphasis on melt fracture" (Prof. Youngdon Kwon)
10:45-11:00	Coffee Break

Rheology and Dynamics of Complex Fluids – Chair: Gerry Fuller

11:00-11:25	"Non-linear stress relaxation behavior of long chain polymer network and
	orientability of UHMWPE gels" (Prof. Ping Gao)
11:25-11:50	"Orientational cross correlation in entangled polymers"
	(Prof. Yuichi Masubuchi)
11:50-12:00	Lunch pick up and leave for Excursion (Participants Only)
12:00-18:00	Excursion to Aquarium (Participants Only)
18:15-20:00	Dinner (Closed)

Evening Session – Chair: Ron Larson

20:00-20:30	"Shear thickening in colloidal dispersions: colloidal hydrodynamics, dilatancy
	and/or friction" (Prof. Norm Wagner)
20:30-21:00	"The many faces of long end-associative polymers" (Prof. Julie Kornfield)





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Day 3 (Wednesday, August 17) Venue: Seaside House

Measurement and Modeling Techniques - Chair: Tadashi Inoue

9:00-9:25	"Moving from time to frequency domain without artefacts"
	(Prof. Manlio Tassieri)
9:25-9:55	"Onsager principle - a useful principle in soft matter dynamics"
	(Prof. Masao Doi)
9:55-10:20	"Advances in large-amplitude oscillatory shear flow of polymeric liquids"
	(Prof. Jeffrey Giacomin)
10:20-10:30	Coffee Break

Measurement and Modeling Techniques - Chair: Paula Wood-Adams

10:30-10:55	"Coarse-graining in description of entanglement dynamics of polymers"
	(Prof. Hiroshi Watanabe)
10:55-11:20	"Macro- and microscopic observation of dissolution process of cellulose into a
	few different ionic liquids" (Prof. Yoshiaki Takahashi)
11:20-11:45	"New numerical algorithms for the identification of linear viscoelasticity of
	polymers" (Prof. Kwang Soo Cho)
11:45-13:00	Lunch (Closed)

Polymers and Turbulence - Chair: Rob Poole

13:00-13:25	"Energy cascade in Reynolds' flashes" (Prof. Pinaki Chakraborty)
13:25-13:50	"Vortex deformation on two-dimensional turbulence affected by polymers"
	(Prof. Ruri Hidema)
13:50-14:15	"Flow-induced friction reduction and tumbling effects in entangled polymers"
	(Prof. Giovanni Ianniruberto)
14:15-14:30	Coffee Break

Polymers and Turbulence – Chair: Amy Shen

14:30-14:55	"Effect of rain-induced turbulent dissipation on hurricane intensity"
	(Dr. Tapan Sabuwala)
14:55-15:20	"Exact coherent structures in purely elastic turbulence"
	(Prof. Alexander Morozov)
15:20-15:45	"Activation energy of associative polymers" (Prof. Quan Chen)
18:30-18:45	Eisa Dance Performance by OCVB
18:45-20:00	Dinner (Closed)