

*ICR-International Workshop*



**Unsettled Issues  
in Rheology and Dynamics of Softmatters**

*Period:* August 8-10, 2010

*Venue:* Obaku Plaza, Uji, Kyoto

# ICR International Workshop “Unsettled Issues in Rheology and Dynamics of Softmatters”, Aug.8-10, 2010

Obaku Plaza, seminar room #4&5  
 Institute for Chemical Research, Kyoto University  
 Gokasho, Uji, Kyoto 611-0011 Japan

## August, 8 (Sun)

9:30		welcome address
9:40	Watanabe	So-called established but actually unsettled issues in polymer entanglement
10:25	Shaqfeh	Wake stabilization in viscoelastic flow past a cylinder
11:15	Masubuchi	Conformational relaxation cannot be reproduced by tube/sliplink models
12:00	lunch	
13:00	Kwon	Selected Issues in Rheology (1 Purely elastic instability 2 Reptation)
13:50	Urakawa	Rheology of Intermolecular Hydrogen-Bonding Polymers in Melts Is the Mean Field Approximation Valid?
14:35	Cho	Ideas on Identification of Chain Architecture of Nonlinear Polymers from Rheology: Application of Large Amplitude Oscillatory Shear
15:25	break	
15:45	Kanaya	Precursor in flow-induced crystallization
16:30	Sakurai	let's play with temperature gradients!
17:15	Shen	Microfluidics enhanced materials synthesis
18:05	Sun	Relationship between Molecular Motivation and Structure of Biomaterials

## August, 9 (Mon)

9:35	Urayama	biaxial strain testing of extremely soft gels
10:20	Yu	some aspects in rheology of complex fluids with yield stress
11:10	Ahn	Unsolved issues in rheology
12:00	lunch	
12:40	Tao	On the mechanism in the synthesis of polymeric microparticles and microbubbles
13:30	Shaqfeh	The dynamics and rheology of vesicle suspensions
14:20	Fried	Dynamical equation for the contact line of an evaporating sessile drop
15:10	break	
15:30	Takahashi	seems to be established but actually unsolved/unsettled issues in solution properties of polymers
16:15	Sukumaran	Modeling entanglement polymer dynamics
17:00	Takimoto	Unsettled Issues in Rheology and Dynamics of Soft Matters
17:45	poster	

## August, 10(Tue)

whole day	Free discussion
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## Poster presentation on August 9th

P1	Iwawaki	Osaka Univ	Dynamic birefringence and viscoelasticity of polymacromonomer
P2	Nobukawa	Osaka Univ	Size effect on Molecular Orientational Correlation in Polymer/Low-mass Compound Blends
P3	Horio	Kyoto Univ	Rheo-dielectric and velocity field analysis of an entangled polyisoprene solution under uniform shear flow
P4	Suzuki	Kyoto Univ	Analysis of the Adsorption of HEUR on Latex particles under Shear Flow
P5	Chung	Kyoto Univ	Numerical Simulation on Shear Banding Phenomena using Diffusive Rolie-Poly Model
P6	Morishima	Osaka Univ	An Apparatus for Dynamic Viscoelasticity Measurement Using Laser Particle Tracking
P7	Chen	Kyoto Univ	Dynamics of Polyisoprene-Poly(p-tert-butyl styrene) Diblock Copolymer in Disorderd State
P8	Kitamura	Osaka Univ	Electric Birefringence Behavior of Supramolecular Polymers Formed by Hydrogen Bonds in Apolar Solvents