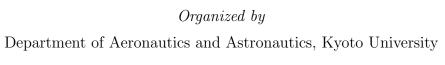
Workshop on

# Kinetic Theory and Fluid Dynamics: From micro to macroscopic modeling

in honor of Yoshio Sone's 80th Birthday and Kazuo Aoki's 65th Birthday

Kyoto University (Rakuyu-Kaikan), Kyoto, Japan, May 26 – 28, 2016







# Program Overview

	26 (Thu)	27 (Fri)	28 (Sat)
9:00 - 9:20	Registration		
9:20 - 9:30	Opening		
9:30 - 10:20	Tai-Ping Liu	Francois Golse	Irene Gamba
10:40 - 11:30	Andres Santos	Takeru Yano	Takeshi Kataoka
11:40 - 12:30	Seung-Yeal Ha	Shih-Hsien Yu	Giovanni Russo
	Lunch		
14:10 - 15:00	Hiroshi Sugimoto	Satoshi Taguchi	
15:10 - 16:00	Aldo Frezzotti	Shugo Yasuda	
	Cofee Break		
16:20 - 17:10	Takaaki Nishida	Hailiang Li	
19:00 -		Banquet	

## PROGRAM

#### 26th, Thursday

9:00	-	9:20	Registration	
9:20	-	9:30	Opening (S. Takata, Kyoto University)	
			Session chair: S. Takata	
9:30	-	10:20	TP. Liu (Stanford University, USA & Academia Sinica, Taiwan) Sone Manifold for Stationary Boltzmann Equation	
			Coffee Break	
10:40	-	11:30	A. Santos (Universidad de Extremadura, Spain) Hydrodynamics for granular flow at low density: Navier-Stokes and Bur- nett constitutive equations	
11:40	-	12:30	SY. Ha (Seoul National University, Korea) Flocking dynamics of the particle, kinetic Cucker-Smale model in a ran- dom environment	
Lunch				
			Session chair: TP. Liu	
14:10	-	15:00	H. Sugimoto (Kyoto University, Japan) Separation of Gas Mixture by the Thermal Transpiration through Porous Membrane	
15:10	-	16:00	A. Frezzotti (Politecnico di Milano, Italy) On the applicability of Diffuse Interface Models to evaporation and con- densation flows description	
Coffee Break				
16:20	-	17:10	T. Nishida (Kyoto University, Japan) Instabilities of compressible Poiseuille flow and traveling waves	

#### 27th, Friday

Session chair: S. Yasuda

9:30	-	10:20	F. Golse (Ecole Polytechnique, France) A New Approach to Mean-Field Limits of Large Particle Systems			
Coffee Break						
10:40	-	11:30	T. Yano (Osaka University, Japan) Long time behavior of nonlinear resonant gas oscillation with weak shock wave			
11:40	-	12:30	SH. Yu (National University of Singapore, Singapore) Layers for Viscous Conservation Laws and Boltzmann Equation			
Lunch						
			Session chair: F. Golse			
14:10	-	15:00	S. Taguchi (The University of Electro-Communications, Japan) Slow flow of a rarefied gas past a spinning sphere			
15:10	-	16:00	S. Yasuda (University of Hyogo, Japan) Monte Carlo simulation for kinetic chemotaxis model of bacteria			
Coffee Break						
16:20	-	17:10	H. Li (Capital Normal University, China) Spectrum structure and behaviors of Vlasov-Poisson(Maxwell)- Boltzmann equations			

#### Banquet

The Banquet will be held on Friday evening from 19:00 at Kyoto Century Hotel, located close to the JR Kyoto Station (http://www.kyoto-centuryhotel.co.jp/english/access/).

### 28th, Saturday

Session chair: S. Taguchi

9:30	-	10:20	I. Gamba (University of Texas-Austin, USA) Approximations to Vlasov-Poisson-Landau equations
			Coffee Break
10:40	-	11:30	T. Kataoka (Kobe University, Japan) Stability of internal wave beams to 3D perturbations
11:40	-	12:30	G. Russo (Università di Catania, Italy) Semilagrangian schemes for the BGK model
12:35			Closing (S. Taguchi, The University of Electro-Communications)