

# International Symposium on Complex Systems 2011

Perspectives on the Legacy of Torahiko Terada

*December 1 and 2, 2011 :*

*Koshiba Hall, The University of Tokyo, Tokyo, Japan*

## Program

Day 1 [December 1, 2011]

Opening Remark [8:50 – 9:00]

M. Sano (General Coordinator)

Session 1 [9:00 – 10:40]

Leonard M. Sander (University of Michigan, USA)

“Computing impossible things: the harmonic measure of fractals”

Shigeru Kondo (Osaka University, Japan)

“Periodic pattern formation in the skin of animals”

--- Coffee Break (20 min) ---

Session 2 [11:00 – 12:40]

Hajime Tanaka (University of Tokyo, Japan)

“Pattern Evolution – From Phase Separation to Mechanical Fracture”

Lydéric Bocquet (Université Lyon-I, France)

“Playing with osmotic forces: from mixing to self-propelled swimmers”

--- Lunch Time ---

Poster Session 1 [14:20 – 16:20]

Group A

--- Coffee Break (20 min) ---

Session 3 [16:40 – 18:20]

Chi K. Chan (Institute of Physics, Academia Sinica, Republic of China)

“Synchronization and Control of Cardiac Systems”

Shoichi Kai (Kyushu University, Japan)

“Pattern Formation in Electro-convection in Liquid Crystals”

Banquet [19:00 – 21:00]

Day 2 [December 2, 2011]

Session 4 [9:00 – 10:40]

Kei Kurita (University of Tokyo, Japan)

“Torahiko's omnivorous courage and high susceptibility to nature

– What modern seismology has lost during its growth –”

Hans J. Herrmann (ETH, Switzerland)

“Fracturing Ranked Surfaces”

Group photo

--- Coffee Break (20 min)---

Poster Session 2 [11:00 – 13:00]

Group B

--- Lunch Time ---

Session 5 [14:20 – 16:00]

Hiraku Nishimori (Hiroshima University, Japan)

" Quantitative analysis of behavior of foraging ants:

Decision-making under conflicting information"

Tamás Vicsek (Eötvös Loránd University, Hungary)

“Network dynamics in collective motion”

--- Coffee Break (20min) ---

Session 6 [16:20 – 17:20]

Mitsugu Matsushita (Chuo University, Japan)

" Statistical Features of Complex Systems

– Toward establishing sociological physics –"

Closing [17:20 – 17:30]

## Time table

Thursday, Dec.1, 2011	Friday, Dec.2, 2011
8:50 – 9:00 Opening	
9:00 – 10:40 (Session #1) <b>L. M. Sander</b> <b>S. Kondo</b>	9:00 – 10:40 (Session #4) <b>K. Kurita</b> <b>H. J. Herrmann</b>
Coffee break (20 min)	Coffee break (20 min)
11:00 – 12:40 (Session #2) <b>H. Tanaka</b> <b>L. Bocquet</b>	11:00 – 13:00 <b>Poster Session</b> <b>Group B</b>
Lunch (12:40 - 14:20)	Lunch (13:00 - 14:20)
14:20 – 16:20 <b>Poster Session</b> <b>Group A</b>	14:20 – 16:00 (Session #5) <b>H. Nishimori</b> <b>T. Vicsek</b>
Coffee break (20 min)	Coffee break (20 min)
16:40 – 18:20 (Session #3) <b>C. K. Chan</b> <b>S. Kai</b>	16:20 – 17:20 (Session #6) <b>M. Matsushita</b>
19:00 – 21:00 Banquet (at Lever son Verre Hongo)	17:20 – 17:30 Closing