

International symposium on complex systems Toward Sustainable Social Systems

(Phase transition - Evolution - Polysemy)

Date: Monday & Tuesday, 14-15 December, 2009 / Time: 9:30 am - 5:00 pm

Venue: Fujiwara Hiroshi Hall (Kyosei-kan) of Keio University, Hiyoshi Campus, Yokohama

Admission free. Online registration is required.

<http://www.riken.jp/engn/r-world/event/2009/keio-riken-rchc/>

Monday, 14 December

Science and Culture (Chair: Shigeru Watanabe)

Yoshiharu Doi (Executive Director, RIKEN)

Shigeru Watanabe (Center Director, CHC)

Opening Remarks

Chris Wood (Vice President, Santa Fe Institute)

Catalyzing trans-disciplinary research: Lessons from SFI's 25-year experience

Monique van Donzel (Nanyang Technological University)

Directions of NTU towards an Asian hub for interdisciplinary research

Erling Norrby (The Royal Swedish Academy of Science, Institute Para Limes)

Do the cultural conditions for making discoveries awarded with Nobel Prizes change with time?

Culture and Evolution (Chair: Jan Vasbinder)

Luis Bettencourt (Los Alamos National Laboratory, CHC)

Growth, innovation, scaling, and the pace of life in cities

Atsushi Iriki (RIKEN Brain Science Institute, CHC)

Neuroscience of primates' intellectual evolution

Michel Hofman (Royal Academy of Arts and Science, Netherlands)

Human cognitive evolution

Yuichiro Anzai (Keio University)

Is cognition complex?

John Holland (University of Michigan, Santa Fe Institute)

Future directions of complex adaptive systems

Tuesday, 15 December

Complex System (Chair: Monique van Donzel)

Yilong Lu (Nanyang Technological University)

Evolutionary algorithm in natural, artificial and social systems

Hideyuki Okano (Keio University, CHC)

Innovative technologies on CNS regeneration and generation of neurological diseases model

Peter van den Besselaar (Rathenau Institute, Institute Para Limes)

Science as a complex ecosystem

Helena Hong Gao (Nanyang Technological University)

Linguistics as a complex adaptive system

Sustainable Evolution (Chair: Chris Wood)

Daan Frenkel (University of Cambridge, Institute Para Limes)

Thermodynamics and phase transitions

Jessika Trancik (Omidyar Fellow, Santa Fe Institute)

Modeling the innovation dynamics of energy systems and the levers for reducing carbon emissions

Jan Vasbinder (President, Institute Para Limes)

Direction of IPL and intellectual interactions in Europe

Takashi Maeno (Keio University, CHC)

Concluding Discussions

Toshiaki Makabe (Executive Director, Keio University)

Registration deadline: Friday, 11 December, 2009

This event will be held in English; no interpretation will be provided.

Organizer: KEIO-RIKEN Research Centre for Human Cognition (CHC)

Co-organizers: RIKEN Brain Science Institute

Keio University Global COE Program

"Center for Advanced Research on Logic and Sensibility"

"Education and Research Center for Stem Cell Medicine"

"Organization of Education and Research of Safe, Secure and Symbiotic System Design"

Venue: Fujiwara Hiroshi Hall (Kyosei-kan) of Keio University, Hiyoshi Campus, Yokohama

4-1-1 Hiyoshi, Kohoku-ku, Kanagawa 223-8526

Contact for inquiries: KEIO-RIKEN Research Centre for Human Cognition (CHC)

at human-cognition@adst.keio.ac.jp

