

International Workshop on
What is Creativity?-Emergent Phenomena in Complex Adaptive Systems

Organized by
Institute of Economic Research and Yukawa Institute for Theoretical Physics
Kyoto University

In cooperation with International Institute for Complex Adaptive Matter (I2CAM), Asia Pacific Center for Theoretical Physics (APCTP), Advanced Institute for Complex Systems Waseda University, Hayashibara Group, The Integrated Economic Research Foundation, and Kyoto University Open Course Ware

Date: October 20 and 22, 2008, Place: Co-op Inn Kyoto Conference Hall

October 20 (Mon.)

18:00~21:00 **Reception** at Restaurant (located on the first floor of Co-op Inn Kyoto)

October 21 (Tue.)

Chair: Shigetoshi Nara (Okayama University)

9:00 ~ 9:10 Opening Speech: Kazuo Nishimura (Institute of Economic Research, Kyoto University)

9:10 ~ 9:50 Masatoshi Murase (Yukawa Institute for Theoretical Physics, Kyoto University)
"What is Creativity?"

Break

10:00~11:00 Harald Atmanspacher (Institut für Grenzgebiete der Psychologie und Psychohygiene e.V.)
"Biographical Sources and Systematic Studies of Aspects of Creative Work in Science"

Break

11:20~12:00 Yasuko Takezawa (Institute for Research in Humanities, Kyoto University)

"Challenging a Western Paradigm: Questioning "Race" from a Japanese Viewpoint"

12:00~13:30 Lunch Break

Chair: Shigeru Miyagawa (Massachusetts Institute of Technology)

13:30~14:30 Mark S. Blumberg (University of Iowa)
"Developing Creations and Creating Development"

Break

Chair: Adrian David Cheok (National University of Singapore)

14:40~15:40 Challenging Session

14:40~15:00 Trevian Cynthia (University of California, Davis, Department of Physics)

"Creativity in Science: Theoretical Predictions in Chemical and Biological Physics"

15:00~15:20 Krishan Kapilanjani (Universite de Marne-la-Vallee)

"Potential universal mechanisms for stress focusing in experimental non-equilibrium fluid flows"

15:20~15:40 West Jevin (University of Washington, Department of Biology)

"TBA"

Break

Chair: Yukio-Pegio Gunji (Kobe University)

16:00~16:40 Naoko Tosa (Academic Center for Computing and Media Studies, Kyoto University)
"Cultural computing"

Break

Chair: Kazuyoshi Yoshimura (Kyoto University, Department of Chemistry)

17:00~18:00 Ludwik Leibler (Centre National de Recherche Scientifique)

"Self-healing rubbers via supramolecular assembly."

18:00~21:00 **Reception** Middle conference room on the Second floor

October 22 (Wed.)

Chair: Harald Atmanspacher (Instituts für Grenzgebiete der Psychologie und Psychohygiene)

9:00~10:00 Shigeru Miyagawa (Massachusetts Institute of Technology)

“The Human Linguistic System Engenders Creativity Through Recursive Operations”

Break

Chair: Mark S. Blumberg (University of Iowa)

10:30~11:30 Adrian David Cheok (National University of Singapore)

“Feeling Communication: Social and Physical Interactive Communication and Entertainment”

11:30~13:30 Lunch Break

Chair: Shigeo Ohkubo (Kochi Women’s University)

13:30 ~ 14:00 Agladze Konstantin (Kyoto University, Institute for Integrated Cell-Material Science)

"How chemical waves could help us to heal?"

Break

14:10~15:00 Shunichi Noma (Graduate School of Medicine, Kyoto University)

“Creativity in Pathology -- On Dissociation and Questions of the Self-Existence”

Break

Chair: West Jevin (University of Washington, Department of Biology)

15:10~15:55 Challenging Session

15:10~15:25 Shu-ichi Kinoshita (Niigata University)

“Statistical properties of the rugged fitness landscape in the NK-Kauffman model with scale-free topology”

15:25~15:40 Taizo Kobayashi (Kyushu University)

“TBA”

15:40~15:55 Tsuyoshi Hondou (Tohoku University, Department of Physics)

“TBA”

Break

Chair: Trevian Cynthia (University of California, Davis, Department of Physics)

16:00~16:30 Arno Suzuki (Kyoto University, Graduate School of Science)

”Improvisation - A Few Notes in Music”

16:30~16:35 Closing Address Mastoshi Murase (YITP, Kyoto University)