

The Second International Conference of Kyoto University Global COE Program  
*In Search of Sustainable Humanosphere in Asia and Africa*  
 co-organized by the JSPS Exchange Program for East Asian Young Researchers

## **Biosphere as a Global Force of Change**

### **PROGRAM**

#### DAY 1 ( March 9 )

8:30 ~ 9:00 Registration

9:00 ~ 9:20

#### ***Welcoming Remarks***

by Kosuke Mizuno (Director, Center for Southeast Asian Studies (CSEAS), Kyoto University)

#### ***Opening Remarks***

*Geosphere, Biosphere and Humanosphere: A New Perspective of Modern Global History*

by Kaoru Sugihara (CSEAS and Convener, G-COE Program, Kyoto University)

#### ***Session 1 : Biospheric Parameters in Actions and Norms: Institutional Arrangements and Quantified Expressions***

Chair : Kaoru Sugihara (CSEAS and Convener, G-COE Program, Kyoto University)

9:20 ~ 9:50

**I-1** *Conflicts and Anarchy in Indian Natural Resources Governance: Need for a Paradigm Shift*

by Vishwa Ballabh (Centre for Rural Management, XLRI Jamshedpur School of Business & Human Resources)

9:50 ~ 10:20

**I-2** *Bridging the Formal-Informal Gap? Changing Institutional Arrangements in Communal Forest Management in Thailand*

by Fumikazu Ubukata (CSEAS, Kyoto University)

10:20 ~ 11:05

Comments

by Koichi Fujita (CSEAS, Kyoto University)  
 Takeshi Murota (Faculty of Economics, Doshisha University)  
 James E. Nickum (International Careers Course, Tokyo Jogakkan College)

11:05 ~ 11:20

***Coffee Break***

11:20 ~ 11:50

**I-3** *How to Assess the Sustainability of Our Humanosphere? Towards the Development of Humanosphere Index*

by Takahiro Sato and Taizo Wada (CSEAS, Kyoto University)

11:50 ~ 12:05

Comments

by Yasuyuki Kono (CSEAS, Kyoto University)

12:05 ~ 12:45

Discussion

12:45 ~ 14:15

***Lunch***

**Session 2 : Learning from the Dynamics of Geosphere and Biosphere**

Chair : Masayuki Yanagisawa (Center for Integrated Area Studies (CIAS), Kyoto University)

- 14:15 ~ 14:35 **II-1** *Biosphere as a Mediator between Geosphere and Humanosphere*  
by Masayuki Yanagisawa (CIAS, Kyoto University)
- 14:35 ~ 14:55 **II-2** *Interrelationship between Hydrological Cycle and Human Activities*  
by Osamu Kozan (CSEAS, Kyoto University)
- 14:55 ~ 15:15 **II-3** *Biodiversity and Ecosystem Function in the Human-made Landscape: Birds Transport Human-Derived Nutrients into Urban Forests*  
by Motoko Fujita (CSEAS, Kyoto University)
- 15:15 ~ 15:35 **II-4** *Coping with Natural and Socio-economic Uncertainty in Arid Africa*  
by SUN Xiaogang (CSEAS, Kyoto University)
- 15:35 ~ 15:50 **Coffee Break**
- 15:50 ~ 17:15 Discussion  
Chair: Mamoru Kanzaki (Graduate School of Agriculture, Kyoto University)
- Comments  
by Tetsuzo Yasunari (Hydrospheric Atmospheric Research Center, Nagoya University)  
J. Terrace McCabe (Institute of Behavioral Science, University of Colorado)  
Sara A. O. Cousins (Department of Physical Geography and Quaternary Geology, Stockholm University)
- 18:00 ~ 20:00 **Reception Party (at Shiran Kaikan)**

**DAY 2 ( March 10 )****Session 3 : Biofuel as a Global Force of Change****Poster Session**

Chair : Rumi Kaida (Research Institute for Sustainable Humanosphere (RISH), Kyoto University)

9:00 ~ 9:30 **P1-15** Poster Presentation (2 minutes for each person)  
*See "Poster Titles" page for detail*

9:30 ~ 10:00 **P1-15** Poster session (with snack and coffee)

**Oral Presentation**

Chair : Takashi Watanabe (RISH, Kyoto University)

10:00 ~ 10:40 **III-1** *Drivers for Sustainable Use of Bioenergy on a Global Scale*  
by Andre Faaij (Copernicus Institute, Utrecht University)

10:40 ~ 11:10 **III-2** *R&D on Bio-Fuel Production and Asian Biomass Strategy*  
by Kinya Sakanishi (Biomass Technology Research Center, AIST)

### Discussion

Chair : Takahisa Hayashi (RISH, Kyoto University)

11:10 ~ 12:10 Comments  
by Retno Kusumaningtyas (RISH, Kyoto University)  
Toshiaki Umezawa (RISH, Kyoto University)  
Rumi Kaida (RISH, Kyoto University)

12:10 ~ 13:40 **Lunch**  
**P1-15** Poster Session (with snack and coffee)

14:00 ~ 18:00 **Excursion**  
(Kyoto city sightseeing; Invited participants only)

## DAY 3 ( March 11 )

### **Session 4 : Rehabilitating Biospheric Perspective in the Modern World.**

Chair : Hiromu Shimizu (CSEAS, Kyoto University)

9:00 ~ 9:20 **IV-1** *A Virus, Democracy, and Sustainable Society: The Experience of Community-based HIV/AIDS Initiatives among the Gurage, Southern Ethiopia*  
by Makoto Nishi (CSEAS, Kyoto University)

9:20 ~ 9:40 **IV-2** *To "Live With" Earthquakes: An Attempt to Build a Better Relationship between the Humanosphere and the Geosphere in Istanbul, Turkey*  
by Shuhei Kimura (CSEAS, Kyoto University)

9:40 ~ 10:00 **IV-3** *Rice and People; Mechanistic and Organic Visions on Biosphere and Humanosphere*  
by Harro Maat and Edwin Nuijten (Technology and Agrarian Development Group, Wageningen University)

10:00 ~ 10:20 **IV-4** *Political Ecology of Life: Ideas on Humanosphere*  
by Akio Tanabe (Institute for Research in Humanities, Kyoto University)

10:20 ~ 10:35 **Coffee Break**

10:35 ~ 12:10 Discussion  
Comments  
by Yoko Hayami (CSEAS, Kyoto University)  
Koji Tanaka (CIAS, Kyoto University)

12:10 ~ 13:40 **Lunch**

**Session 5 : General Discussion**

13:40 ~ 16:40 Chair : Yasuyuki Kono & Noboru Ishikawa (CSEAS, Kyoto University)

## Comments

by James E. Nickum (International Careers Course, Tokyo Jogakkan College)  
 David Pietz (Department of History, Washington State University)  
 Hiroki Nogami (Institute of Developing Economies, JETRO)  
 Shuichi Kawai (RISH, Kyoto University)  
 Hiromu Shimizu (CSEAS, Kyoto University)

16:40 ~ 17:00

**Closing Remarks**

by Noboru Ishikawa (CSEAS, Kyoto University)

17:30 ~ 19:30

**Advisory Session**

(Closed Session)

**POSTER TITLES**

(Poster Session, Session 3, March 10th)

- 9:00 ~ 9:02 **P1** *Evaluation of Biomass Production of Plantation Forest in Tropical Area; A Case Study of Acacia Plantation Forest, P.T. Musi Hutan Persada, Indonesia*  
 by R. Widyorini, S. Kawai, B. Subiyanto\*, E.B. Hardiyanto\*\*, A. Firmanti\*\*\*, R. Gunawan†, T. Suryanti† and A. Wicaksono† (RISH, Kyoto University; \*LIPI, Indonesia; \*\*Gadjah Mada University, Indonesia; \*\*\*Research Institute for Human Settlements, Indonesia; †PT Musi Hutan Persada, Indonesia )
- 9:02 ~ 9:04 **P2** *Estimation of Planted Tree Growth Using Ground-based Observation and Satellite Remote Sensing Data*  
 by Shoko Kobayashi, Yoshiharu Omura\* and Shuichi Kawai\* (CSEAS, Kyoto University; \*RISH, Kyoto University)
- 9:04 ~ 9:06 **P3** *Addressing the Food-Biofuel Dilemma; Using Parasenriathes falcataria as a Bioethanol Feedstock in an Integrated Cropping Approach*  
 by Retno Kusumaningtyas and Takahisa Hayashi (RISH, Kyoto University)
- 9:06 ~ 9:08 **P4** *Loosening Xyloglucan for The Enzymatic Degradation of Cellulose in Wood*  
 by Rumi Kaida, Tomomi Kaku, Kei'ichi Baba and Takahisa Hayashi (RISH, Kyoto University)
- 9:08 ~ 9:10 **P5** *Molecular Breeding of Tropical Acacia*  
 by Shiro Suzuki, Md. Mahabubur Rahman\*, Takefumi Hattori\* and Toshiaki Umezawa\* (CSEAS, Kyoto University; \*RISH, Kyoto University)

- 9:10 ~ 9:12 **P6** *Development of Pretreatment System for Enzymatic Saccharification of Japanese Cedar Wood by Wet-Grinding bench plant*  
by Motohito Yoneda, Sadayoshi Kitajima\* and Takashi Watanabe (RISH, Kyoto University; \*Yamani Co. Ltd.)
- 9:12 ~ 9:14 **P7** *Technology of Biodiesel Production in China*  
by Jian Liu and Takashi Watanabe (RISH, Kyoto University)
- 9:14 ~ 9:16 **P8** *Energy Development in East Kalimantan, Indonesia*  
by Yasunori Ohashi, Rudianto Amirta\* and Takashi Watanabe (RISH, Kyoto University; \*Mulawarman University, Indonesia)
- 9:16 ~ 9:18 **P9** *Current Status of Biofuels Policy and Their Technological Development in India*  
by Pradeep Verma and Takashi Watanabe (RISH, Kyoto University)
- 9:18 ~ 9:20 **P10** *The Role of Remnant Forest in Conserving Bird Diversity in Acacia Plantation in Indonesia*  
by Motoko Fujita, Dewi M. Prawiradilaga\* and Tsuyoshi Yoshimura\*\* (CSEAS, Kyoto University; \*LIPI, Indonesia; \*\*RISH, Kyoto University)
- 9:20 ~ 9:22 **P11** *Spatial-Temporal Variabilities of Nitrous Oxide Emission from Acacia mangium Soils*  
by Ryota Konda, Seiichi Ohta and Shigehiro Ishizuka\* (Graduate School of Agriculture, Kyoto University; \*Forestry and Forest Products Research Institute)
- 9:22 ~ 9:24 **P12** *Land Surface Monitoring in The Kyzyl Kum Desert, Central Asia*  
by Osamu Kozan, Naoko Matsuo\*, Satoru Oishi\*\* and Kengo Sunada\*\* (CSEAS, Kyoto University; \*Mie University; \*\*University of Yamanashi)
- 9:24 ~ 9:26 **P13** *Resilience, Vulnerability and Regime Shift: Metamorphoses of A High Biomass Society in Sarawak, Malaysia.*  
by Noboru Ishikawa (CSEAS, Kyoto University)
- 9:26 ~ 9:28 **P14** *Protecting Forest, Empowering Communities: Development of Community Forestry Policy in Decentralizing Indonesia*  
by Motoko Shimagami, Motoko Fujita\*, Keron Petrus\*\* and Koji Tanaka (CIAS, Kyoto University; \*CSEAS, Kyoto University; \*\*University of Indonesia)
- 9:28 ~ 9:30 **P15** *Recent Collaboratives Researches for Developing Earthquake Resisting Wooden Residential Houses with Tropical Fast Growing Timbers*  
by Kohei Komatsu, Maryoko Hadi\* and Bambang Subiyanto\*\* (RISH, Kyoto University; \*Research Institute for Human Settlement, Indonesia; \*\*LIPI, Indonesia )

Abbreviations are as follows: CSEAS, Center for Southeast Asian Studies; CIAS, Center for Integrated Area Studies; RISH, Research Institute for Sustainable Humanosphere; AIST, Advanced Industrial Science and Technology; JETRO, Japan External Trade Organization; LIPI, The Indonesian Institute of Sciences; G-COE, Global Center of Excellence.