

## **Humanosphere Science School 2009**

### **“Scientific Exploration and Sustainable Management of Peat Land Resources in Giam Siak-Bukit Batu Biosphere Reserve of Riau, Sumatra”**

Date : August 4 - 5, 2009

Venue : Riau University

The Humanosphere Science School was held at Riau University with lectures addressing the need of developing interdisciplinary approaches toward a sustainable humanosphere. The School has been initiated by the Research Institute of Sustainable Humanosphere (RISH), the Center of Southeast Asian Studies (CSEAS), and the Global Center of Excellence (GCOE) of Kyoto University in collaboration with the R & D Unit for Biomaterials-LIPI. The School in 2009 was in particular co-organized by Riau University. The topics that will be able to apply to the Biosphere Reserve were introduced by researchers from various fields of research. The subjects of the lectures were categorized into the groups; Geosphere Aspects, Peat Land Ecosystem, Water and Carbon cycle, Biodiversity, Forest Biomass, Bioethanol Production, and Socio-cultural Aspects. There were 23 lectures in total including those from Kyoto University (10), JICA (1), LIPI (5), BPPT (1), Riau University (4), Sinar Mas Forestry (1), and BBKSDA Riau (1).

#### Program

##### **August 4**

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| 08.00 – 08.30 | Registration  |
| 08.30 – 09.00 | Opening ceremony<br>Opening speech from Suprapedi<br>Opening speech from Rector UR, who will officiate the opening  |
| 09.00 – 09.15 | Coffee break  |
| 09.15 – 09.45 | Endang Sukara (LIPI)<br>Biosphere reserve toward sustainable development of Riau – an update  |
| 09.45 – 10.15 | Shigeo Kobayashi (Kyoto University)<br>Ecological functions of peat swamp forest and land resource management option for global warming mitigation in Southern Asian wetlands |

- 10.15 – 10.45 Sofyan H. Siregar (Riau University)  
The use of epilithic diatom (*Bacillariophyceae*) as bioindicator pollution in aquatic ecosystem
- 10.45 – 11.15 A. Rachman Sidik (KSDA)  
Scientific studies for reserve management and empowerment of local communities
- 11.15 – 11.45 Shen Tse An (Sinarmas)  
Tree improvement - the way to be sustainable for plantation and paper company
- 11.45 – 12.15 Koji Tanaka (Kyoto University)  
Social forestry and empowerment of local communities: a lesson from the Gunung Betung, Lampung Province
- 12.15 – 13.15 Lunch time
- 13.15 – 13.45 Saiful Hadi (Riau University)  
Toward a biosphere reserve: socioeconomic dynamics and challenges of sustainable management of Giam Siak-Bukit Batu Area in Riau
- 13.45 – 14.15 Noa Nishimoto (Kyoto University)  
A descriptive study of the antandroy dialect of Malagasy: concept of time and space
- 14.15 – 14.45 Enny Sudarmonowati (LIPI)  
Research results and potential activities in Riau areas: its support to ecosystem and community
- 14.45 – 15.15 Arif Yudiarto (BPPT)  
Indonesia prospect as “Brazil” of Asia ethanol production
- 15.15 – 15.45 Coffee break
- 15.45 – 16.15 Takahisa Hayashi (Kyoto University)  
Case study on bioethanol production in Riau
- 16.15 – 16.45 Titania Nugroho (Riau University)  
Isolation, molecular identification and phylogenetic analysis of industrially important fungi from soil (case study *Trichoderma*)
- 16.45 – 17.15 Rumi Kaida (Kyoto University)  
Enhancement of saccharification in transgenic trees

### **August 5**

- 08.30 – 09.00 Shuichi Kawai (Kyoto University)  
Sustainable production and utilization of forest biomass in tropics

- 09.00 – 09.30 Joenie Setijo Rahajoe (LIPI)  
Carbon cycle and sink in several forest ecosystem types and agriculture land in relation to carbon trade
- 09.30 – 10.00 Yasuo Iijima (JICA)  
JICA`S activities in department forestry
- 10.00 – 10.30 Osamu Kozan (Kyoto University)  
Heat, water and CO<sub>2</sub> cycle in South East Asia
- 10.30 – 11.00 Coffee break
- 11.00 – 11.30 Ignatius Sutapa (LIPI)  
Water management system in peat swamp region
- 11.30 – 12.00 Kosuke Mizuno (Kyoto University)  
People`s management of natural resources: the case of peat land conservation and restoration
- 12.00 – 13.30 Lunch time
- 13.30 – 14.00 Herwin Simbolon (LIPI)  
Peat swamp forest ecosystem: an important ecosystem on regional land use planning
- 14.00 – 14.30 Motoko Fujita (Kyoto University)  
Biodiversity in plantation: case studies in acacia plantation on birds, termites and fungi
- 14.30 – 15.00 Delita Zul (Riau University)  
The use of microorganisms in soil quality assessment and monitoring
- 15.00 – 15.30 Asami Kabasawa (Kyoto University)  
Ecotourism in Indonesia: seeking models for developing ecotourism in Riau
- 15.30 – 16.00 Closing ceremony