



**The Workshop on**  
**“Sustainable Society and Industry Transformation**  
**with Zero Emission Initiatives”**

**6, 7 November 2006**

**New World Hotel Saigon, Ho Chi Minh City**

**Organized by:**

*University of Natural Sciences, Vietnam National  
 University Ho Chi Minh City (VNU-HCM)*

*Nong Lam University*

*Ho Chi Minh City Department of Natural Resources and  
 Environment (DONRE)*

*Integrated Research System for Sustainability Science  
 (IR3S)*

*Osaka University Research Institute for Sustainability  
 Science (RISS)*

*United Nations University Zero Emissions Forum  
 (UNU/ZEF)*

*Hokkaido University Sustainability Governance Project  
 (SGP)*

*EBARA Hatakeyama Memorial Fund*

**Supported by:**

*Special Coordination Funds for Promoting Science and  
 Technology of the Ministry of Education, Culture, Sports,  
 Science and Technology (MEXT) of Japan*



**RATIONALE**

One of the key issues to address the sustainable development challenge is the promotion of technology development and management initiatives for environmental conservation. Reduction of greenhouse gas emissions, promotion of renewable energy technologies, development of recycling technologies and unused resources are among the technologies encouraged. The conversion of waste into valuable products, electricity or heat is one clear example of the waste transformation into new and useful products. These technologies are now evaluated based on their environmental-friendliness potential that will eventually enable us a transition towards sustainable development.

**OBJECTIVES**

The two-day workshop is intended to exchange innovative ideas and models among researchers and to enrich capability and skills of participants in practical engineering fields.

On the first day of the workshop, selected presentations from Japan and Vietnam will address various perspectives of sustainable industry, resources management, and biomass utilization strategy towards building sustainable societies in Asia. Speakers are from major Japanese Universities, University of Natural Sciences VNU-HCM, Nong Lam University, and the Ho Chi Minh City Department of Science and Technology.

On the second day, the seminar will open with a keynote speech by the Chairman of United Nations University Zero Emissions Forum, followed by six presentations on the practical technologies and industrial structure transformation based on the zero emission strategy. Speakers are from major Japanese industries.

**PARTICIPANTS**

First day (6 November 2006)

A total of 50 participants will be invited from policy leaders of the party and governments, scientists of academic institutions and universities, and university students.

Second day (7 November 2006)

A total of 100 participants will be invited from administrators and engineers of the party, governments, private industrial sectors, consulting firms, academic institutions and universities.

**Integrated Research System for Sustainability Science (IR3S)**

The Integrated Research System for Sustainability Science

(IR3S) is an alliance comprised of the University of Tokyo, Kyoto University, Osaka University, Hokkaido University, Ibaraki University and other universities and research institutes, supported by the Special Coordination Funds for Promoting Science and Technology of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan. Taking on a challenge of addressing global environmental and sustainability issues, IR3S will promote education and research in Asia, which in every sense holds the key to understanding and solving these pressing problems.

**Osaka University Research Institute for Sustainability Science (RISS)**

Since April 2006 Osaka University Research Institute for Sustainability Science (RISS) started its research project which is supported by the Special Coordination Funds for Promoting Science and Technology of MEXT. RISS research initiative intends to address the sustainable development challenge with the introduction of an integral and dynamic innovation system where technology plays the central role of fulfilling societal functions. Since technology management is the key to propel an effective innovation system, RISS proposes a technology transition through the interaction of technology push (science and technology creators), demand pull (science and technology users) and institutional design. RISS will materialize this innovation system based on these pillars and through the design of dynamic scenarios and their roadmaps.

**United Nations University Zero Emissions Forum**

United Nations University (UNU) was launched in 1975 under the joint sponsorship of United Nations and United Nations Educational, Scientific and Cultural Organization (UNESCO) to contribute through research and capacity building to efforts to resolve the pressing global problems that are the concern of the United Nations, its Peoples and Member States. United Nations University Zero Emission Forum (UNU/ZEF) was launched in 2000 as a United Nations University-based initiative promoting the realization of a more sustainable industrial-societal system. In its current form, this forum has International and Japanese components, the latter involving over 150 representatives from Japanese enterprises, local governments, academia, and NPO. ZEF intends to promote collaborative projects between industry, government, and academia to implement Zero Emissions.

## EBARA Hatakeyama Memorial Fund

The EBARA Hatakeyama Memorial Fund was founded in 1989 in commemoration of the late president by EBARA Corporation, a representative engineering firm and manufacturer in Japan specializing in fluid machinery and environmental protection systems. Its aim is to promote voluntary activities for international cooperation in Southeast Asian countries on non-commercial basis. The activities are formulated to meet with particular regional needs in ways that enhance capability of human resources through technology transfer and assist development of appropriate technologies.

## PROGRAM

### PART 1: Towards Sustainable Societies

(Monday, 6 November 2006)

- 07:30-08:00 Registration
- 08:00-08:30 Opening Remarks
- 08:30-09:00 Industrial Transformation Strategies towards Sustainable Development
- 09:00-09:30 Environmental Management in Industrial Development: Resources Conservation and Material Recycling Strategy in Vietnam
- 09:30-10:00 Integrated Water Resource Management Strategies towards Sustainable Development
- 10:00-10:20 Coffee Break
- 10:20-10:50 Science and Technology Development for Renewable and Green Resources Utilization
- 10:50-11:20 Plant-based Fuel Potential as a Renewable Energy Source
- 11:20-11:50 Biomass-Asia Partnership
- 11:50-12:20 Future Prospect of Biomass Utilization in Vietnam
- 12:20-13:40 Lunch Break
- 13:40-14:10 Vulnerability and Sustainability of Biomass Production in Tropical Wetland
- 14:10-14:40 Conservation of Biological Productivity Supporting Sustainable Biomass Utility
- 14:40-15:10 Toward Sustainable Rural Development: Combining Biodiversity Conservation with Poverty Alleviation - A Case Study in Phu My Village, Kien Giang Province, Vietnam
- 15:10-15:20 Closing Remarks
- 15:20-16:00 Refreshment

### PART 2: Industry Transformation with Zero Emission Initiatives

(Tuesday, 7 November 2006)

- 07:30-08:00 Registration
- 08:00-08:30 Opening Remarks
- 08:30-09:30 Key Note Speech: Zero Emission and Vietnam
- 09:30-09:50 Coffee Break
- 09:50-10:40 Missions and Activities of UNU/ZEF
- 10:40-11:30 Green Strategy in Construction Industry
- 11:30-12:20 Zero-Emission Activities at Canon
- 12:20-13:40 Lunch Break
- 13:40-14:30 Sustainable Society Creation Applying Renewable Energies
- 14:30-15:20 From Manufacturing to Ecofacturing: Cement Co-Processing in Japan
- 15:20-16:10 Biomass Applications for Zero Emission Achievement
- 16:10-16:20 Closing Remarks
- 16:20-17:00 Consulting Time (with Refreshment)

### Updated Information

The updated information related to this workshop is available in the following links:

[http://www.hcmuns.edu.vn/hcmuns\\_english/xxxx.html](http://www.hcmuns.edu.vn/hcmuns_english/xxxx.html) and <http://www.riss.osaka-u.ac.jp/en/event/vietnam2006/index.html>

## The Workshop on “Sustainable Society and Industry Transformation with Zero Emission Initiatives”

6, 7 November 2006

### APPLICATION FORM

(Write in block letters)

Name: (Mr./Ms.) \_\_\_\_\_

Organization: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Occupation/Job Title: \_\_\_\_\_

Your specialty and interest: \_\_\_\_\_

Please send this form **no later than 20 October 2006**

to:

Mr. Nguyen Duc Thanh  
Nong Lam University,  
Thu Duc District – Ho Chi Minh City  
Tel: (08)8961-051, Fax: (08)8966-946  
E-mail: [ndthanh@hcmuaf.edu.vn](mailto:ndthanh@hcmuaf.edu.vn) or  
[inter-relations@hcmuaf.edu.vn](mailto:inter-relations@hcmuaf.edu.vn)