

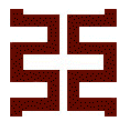
[DRAFT]

CFP for ICASS07

***AEARU Joint Workshop –
International Collaboration for Asian Sustainable Society***

October 25-26, Nanjing, China

October 29-30, Wuxi, China



東亞研究型大學協會
東アジア研究型大学協会
동아시아연구중심대학협의회
The Association of East Asian Research Universities

Organized by
The University of Tokyo

Co-organized by (Nanjing Workshop)
Nanjing University

Scope

Recently, East Asia has undergone a rapid economic development. As a result, serious problems of resource shortage and environmental pollution arose. It is necessary to construct a global cooperation network and find out key solutions on the way to a sustainable development social system. This symposium is thus initiated. Wide topics such as resources reduce, reuse & recycle, clean & high efficient energy, environmental protection and environmental friendly manufacturing technology will be discussed. Some international cooperation projects & strategies will be expected.

Conference Chair:

Kimihiko HIRAO, Vice President of The University of Tokyo

Co-Chair for Nanjing Workshop

Vice President, Nanjing University

Advisory Board Members

Kazuhiko TAKEUCHI, Director of Division for International Relations, The University of Tokyo

Yoichiro MATSUMOTO, Dean of School of Engineering, The University of Tokyo

Akihiko YOKOYAMA, The University of Tokyo

Yuji MIYAUCHI, The University of Tokyo Beijing Representative Office

Hansjoerg GRIESE, IZM, Fraunhofer Institute, Germany

Jie YANG, University of Science and Technology of China

Keyun BI, Chinese Semiconductor Association

Qian ZHOU, Director of Wuxi New District

Koji AJIKI, Wuxi EcoDesign and Microelectronic Research Institute

Organizing Committee Members

Satoru TANAKA, The University of Tokyo

Zhonghua XU, The University of Tokyo

Keisuke HANAKI, The University of Tokyo

Hiroyuki YAMATO, The University of Tokyo

Tetsuo YUHARA, The University of Tokyo

Toshiya WATANABE, The University of Tokyo

Sohei SHIMADA, The University of Tokyo

Fumihiko KIMURA, The University of Tokyo
Tadatomo SUGA, The University of Tokyo
Qingxiang GUO, University of Science and Technology of China
Hidetaka HAYASHI, The University of Tokyo

Nanjing Workshop October 25-26, Nanjing, China
Organized by *The University of Tokyo*, Co-organized by *Nanjing University*

Part 1

3rd AEARU Science and Technology Park Workshop: University & Industry Cooperation
In cooperation with *Intellectual Property Association of Japan*

Topics

- Presentation of current status of university technology transfer and IP management
- Presentation of current status of start up form university
- Presentation of innovation strategy by university industry cooperation

Part 2

3rd International Conference on EcoElectronics
In cooperation with *Japan EcoDesign Promotion Network*
IZM, Fraunhofer Institute, Germany
Japan Science and Technology Agency
IEEE CPMT Beijing Chapter

Topics

- **Design:** Design tool for electronics on material, process, equipment, reliability, energy system, etc.
- **Materials:** New environmentally friendly electronic materials, material fabrication process. It includes halogen free material, lead free solder, eco-packaging materials for electronics.
- **Energy:** High efficient energy system on electronics, focusing on the energy reduction.
- **Fabrication:** Environmentally friendly fabrication process, device, and inverse manufacturing technology.
- **Reliability & Testing:** Technology on the evaluation and analysis of electronic device will be discussed.
- **Reduce, Reuse & Recycle (3R):** Global collaboration and solution for 3R system.

Wuxi Workshop October 29-30, Wuxi, China
Workshop on Engineering for Resources, Energy, and Manufacturing Technology
Organized by *The University of Tokyo*
In cooperation with *Japan-China Environmental and Energy System Promotion Network*
Japan EcoDesign Promotion Network

Topics

- *Management of air and water environment*
- *Clean coal technology*
- *Nuclear technology including nuclear technology*
- *Asian logistic research and practice*
- *Cleaning manufacturing technology*

Registration

- *Free for members from AEARU universities and pre-registration needed.*
- *Totally, 100US\$ for all workshops for members from non-AEARU universities.*
- *Please fill and send back registration form to the Secretariat by October 5, 2007.*

Paper Submission

- Those who interested in presenting a paper are required to submit an abstract first by **August 30, 2007**. The abstract content must include title, abstract brief, author name, affiliation, address, telephone, fax and email.
- When you send abstract, please mark out **which workshop or session** you will give presentation.
- Please send the abstract, paper or presentation material by fax or to aearu_ut@su.t.u-tokyo.ac.jp.

Important Date

Submission of abstract form: **August 30, 2007**
Notification of paper acceptance: **September 5, 2007**.
Submission of presentation materials or full paper: **September 30, 2007**.
Submission of registration form: **October 5, 2007**

Secretariat [aearu_ut@su.t.u-tokyo.ac.jp/](mailto:aearu_ut@su.t.u-tokyo.ac.jp)

Website: <http://www.aearu-ICASS2007.net/>

China: Dr. Zhonghua XU/ Wuxi Representative Office, The University of Tokyo
TEL/FAX: +86-510-8522-5248

Japan: Ms. Natsuko KAWAMATA/ School of Engineering, The University of Tokyo
TEL: +81-3-5841-6491 FAX: +81-3-5841-6485

Nanjing Workshop: Part I
3rd AEARU Science and Technology Park Workshop: University & Industry Cooperation

October 25-26, 2007 / Nanjing, China

Organizing Committee Chairman

Toshiya WATANABE, The University of Tokyo

Background & Objectives

The knowledge-based industry has become the mainstream in the new economy, and science and technology are the cornerstones of the increasingly rapid development of the knowledge-based economy. We, therefore, plan to invite representatives from East Asian research universities, scholars, and experts involved in technology incubation and industrial-academia collaboration to this international workshop where they can exchange their experiences and policy. By presenting and discussing different cooperation models for technology transfer, start up from university and technological development, science-based industrial parks intellectual property management, we intent to create vibrant and dynamic thoughts about efficient cooperation between university and industry. In turns, the greatest possible economic benefit could spin out from the relationship in all regions.

Language

Official language will be **English**.

Targeted Participants

Representatives, scholars and experts from AEARU member universities; From other Asian Universities and Industries

Topics

1. Presentation of current status of university technology transfer and IP management
2. Presentation of current status of start up from university
3. Presentation of innovation strategy by university industry cooperation

Proposed Sessions

2-Day Workshop, Oral presentation, *Each presentation will be about 20 minutes. Time for Q&A for each session will be assigned.*

Paper Submission/Registration

When paper submission is planned, please send an abstract to the secretariat first by August 30, 2007. In case of any help needed, please freely contact with the secretariat also. Abstract submission requirement and registration form could be found in the attached or you may also download at the workshop website. This workshop will be free for all attendee.

Secretariat

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Nanjing Workshop: Part II
3rd International Conference on EcoElectronics
October 25-26, 2007 / Nanjing, China

Organizing Committee Chairman
Tadatomo SUGA, The University of Tokyo

Background & Objectives

Sustainable development is a global topic. To ensure it, eco-design is so important in whole lifetime of device including material selection, system design, fabrication process, marketing, product usage, disassemble & recycle. New technology on the material design, high efficient energy resource, and environmentally friendly industry process must be developed. This conference will focus on the electronic field. Contrasted to the other environmental topics, eco-electronics was a new hot point, however developed so quickly especially when EU, Japan, China and other areas passed a series of environmentally related regulations such as RoHS and WEEE. The 1st and 2nd *International Conference on EcoElectronics* have been hold successfully in Shanghai and Beijing. It created a good chance to the global academic and technical attendee on the communication of environmental friendly electronic technology, policy, strategy and management. We wish the 3rd could continually to provide a chance of good understanding on the new achievement of eco-electronics.

Language

Official language will be **English**.

Conference Topics

- **Design:** Design tool for electronic material, process, equipment, reliability, energy system, etc.
- **Materials:** New environmentally friendly electronic materials, material fabrication process. It includes halogen free material, lead free solder, eco-packaging materials for electronics.
- **Energy:** Design & technology on new high efficient energy system for electronics. It focuses the energy reduction in the every point of lifetime of the electronics device.
- **Fabrication:** Research achievements on the new concept, method and equipment of environmentally friendly fabrication technology, and inverse manufacturing technology.
- **Reliability & Testing:** New technology on the evaluation and analysis of electronic device will be discussed.
- **Reduce, Reuse & Recycle (3R):** Global collaboration and solution for 3R system of electronic device. It includes material and WEEE recycle and international collaboration on global recycle.

Participants

The conference focused on the new academic achievement and technical progress of eco-electronics. Attendee may come from academic units, industry, organization and government.

Paper Submission/Registration

When paper submission is planned, please send an abstract to the secretariat first by August 30, 2007. In case of any help needed, please freely contact with the secretariat also. Abstract submission requirement and registration form could be found in the attached or you may also download at the workshop website. Totally, 100US\$ will be for all workshops including Wuxi and Nanjing Workshop.

Secretariat

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Wuxi Workshop

Workshop on Engineering for Resources, Energy, and Manufacturing Technology

October 29-30, 2007 / Wuxi, China

Organizing Committee Chairman

Satoru TANAKA, The University of Tokyo

Language

Official language will be **English**.

Participants

This workshop focuses on key technologies that are important for Asian Sustainable Society. Issues and methods to solve them will be discussed. The WS consists of five sessions. So attendee will be scholars from academic units, experts or representative from industry & organization, and governors.

Sessions

■ **Management of air and water environment**---Chair: Keisuke HANAKI

Air and water environment is vital issue for human being. Urbanization taking place in many of the developing region deteriorates air and water environment. Higher quality of air and water environment is the target in the developed region. The topics included are water pollution, water supply and wastewater treatment, water resource management, health-related water issue, impact of global warming, air pollution, acid precipitation, risk of air pollutants, and related issues.

■ **Clean coal technology**---Chair: Sohei SHIMADA

Coal, as an abundant primary energy resource, has been considered as a key resource to maintain a stable future energy supply. However, compared with other primary energy resources, the use of coal usually creates high environmental burden. To overcome this disadvantage, clean coal technology (CCT) is proposed and regarded as a key bridging technology to the future hydrogen society. The national projects regarding CCT have been employed in China (Green Gen Project), USA (Future Gen Project) and other regions. CCT is a promising technology to the Asian countries of abundant coal resources. In this session, the fundamental researches, recent commercial development and national projects of CCT, together with other technologies and strategies of stable future energy supply in Asian countries will be discussed.

■ **Energy Production including nuclear technology**---Chair: Satoru TANAKA

Rapid increase in energy demands in Asian countries strongly affects global environment and energy supply system in the world. In this session, discussion and possible suggestion will be conducted about how to solve these problems by advanced technology of coal, oil, LNG and nuclear energy systems and effective energy utilization under the environment and supply constraints.

■ **Asian Logistic Research and Practice**---Chair: Hiroyuki YAMATO

Sustainable developments in Asian countries can be supported by the powerful and efficient logistic system. Countries in Asia have a good variety in the population, custom, economic and geographical conditions. According to the situations in each country, problems and solutions for them may differ. The session is going to discuss on aspects of logistics including domestic and international transportation in countries in Asia. Especially papers dealing the Chinese logistic system will be most welcomed in this session

■ **Cleaning manufacturing technology**---Chair: Fumihiko KIMURA

This session will focus on the product system design considered service/function which the product provides in its life cycle. Also it include what to design, how to make, how to use and how to treatment.

Paper Submission/Registration

When paper submission is planned, please send an abstract to the secretariat first by August 30, 2007. In case of any help needed, please freely contact with the secretariat also. Abstract submission requirement and registration form could be found in the attached or you may also download at the workshop website. Totally, 100US\$ will be for all workshops including Wuxi and Nanjing Workshop.

Secretariat

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PAPER SUBMISSION

1. **T**hose who interested in submitting a paper or giving presentation at the AEARU Joint Workshop-ICASS 2007, are required to submit an abstract first by **August 25, 2007**. The abstract content must include *paper title, abstract brief, author name, affiliation, address, telephone, fax and email*. Please send the abstract to the secretariat by email or fax.

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Tokyo
Japan: Ms. Natsuko KAWAMATA/School of Engineering, The University of
TEL: +81-3-5841-6491 FAX: +81-3-5841-6485

2. **P**lease select the workshop that you plan to give your presentation
 - 3rd AEARU Science and Technology Park Workshop: University & Industry Cooperation*
 - 3rd International Conference on Eco-electronics*
 - Workshop on Engineering for Resources, Energy, and Manufacturing Technology*

3. **I**mportant Date

Submission of abstract form: **August 30, 2007**

Notification of paper acceptance: **September 5, 2007**.

Submission of presentation materials or full paper: **September 30, 2007**.

Submission of registration form: **October 5, 2007**

REGISTRSTION

1. **I** will attend the following workshop as marked below.
 - 3rd AEARU Science and Technology Park Workshop: University & Industry Cooperation*
 - 3rd International Conference on Eco-electronics*
 - Workshop on Engineering for Resources, Energy, and Manufacturing Technology*

2. **Fee**
 - *Free for members from AEARU universities and pre-registration needed.*
 - *Totally, 100US\$ for all workshops for members from non-AEARU universities.*
 - *Payment will be done by cash at the workshop site*

3. **Please fill the registration form and send it back to the Secretariat by October 5, 2007.**

Unit name			
Unit address		Postal Code	
Name	Title	Telephone/Fax	E-mail

Secretariat of “AEARU Joint Workshop-ICASS 2007”.

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AEARU Joint Workshop-ICASS 2007



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동아시아연구중심대학협의회
The Association of East Asian Research Universities

International Collaboration for Asia Sustainable Society

Nanjing Workshop, October 25-26, Nanjing New Era Hotel

Wuxi Workshop, October 29-30, Wuxi Kapok Hotel

1. *3rd AEARU Science and Technology Park Workshop: University & Industry Cooperation*
2. *3rd International Conference on Eco-electronics*
3. *Workshop on Engineering for Resources, Energy and Manufacturing Technology*



Opening Ceremony of Nanjing Workshop

October 25, Jia He Function Room / 嘉和厅, 2nd Floor, Nanjing New Era Hotel

- 09:00-09:05 Kimihiko HIRAO, The University of Tokyo
- 09:05-09:10 **Yi PAN, Nanjing University, Nanjing University**
- 09:10-09:30 Break

Nanjing Workshop-1

3rd AEARU Science and Technology Park Workshop: University & Industry Cooperation

October 25, Meeting Room 6 / 6 号会议室, 3rd Floor, Nanjing New Era Hotel

- 09:30-09:35 Session Opening, Toshiya Watanabe, University of Tokyo
- 09:35-10:20 Research University, A Foundation of Independent Innovation
LI Cheng, Office of Science & Technology, Nanjing University
- 10:20-11:05 Constitution and Implementation of Intellectual Property in Jiangsu Province
Yu ZHU, Intellectual Property Office of Jiangsu Province
- 11:05-11:35 New Challenge For University-Industry Collaboration in TU, 2 samples of Collaboration Style
Makiko Takahashi, Center for Research Strategy & Support, Tohoku University
- 11:35-11:50 Discussion
- 12:00-13:00 Lunch & Break - Western Food Restaurant / 西餐厅, 2nd Floor
- 13:00-13:30 The Challenges of the University of Tokyo Edge Capital Co., Ltd. (UTEC)
Tomotaka Goji, The University of Tokyo Edge Capital
- 13:30-14:15 Prourokinase from lab bench side to hospital bedside: A story about the biopharmaceutical discovery and development
Jian-Ning LIU, Institute of Molecular Medicine, Nanjing University
- 14:15-14:45 A case analysis, KFS of university start-up in pharmaceutical area
Megumi TAKATA¹, Hardy KAGIMOTO², ¹Kyushu University Business School, ²Aqumen Biopharmaceuticals
- 14:45-15:00 Coffee Break
- 15:00-15:30 Cooperation between the University of Tsukuba and Japanese Pulp and Paper Industries
Hiroshi OHI, Graduate School of Life and Environmental Science, University of Tsukuba
- 15:30-16:00 From Start-up to Joint Venture
Tony R Eastham, Matthew M F Yuen, Claudia J Xu, Rocky C S Law, Shirley S W Woo, HKUST
- 16:00-16:30 Internet Data Base of Proposals for U-I Collaborative Researches (CCR-DB)
Kazuya MATSUO, Center for Collaborative Research, The University of Tokyo
- 16:30-17:00 Patenting and Licensing from University - Still controversial but inevitable for open innovation era.
Toshiya Watanabe, Collaborative Research Center, University of Tokyo
- 17:00-17:40 Discussion
- 18:00-20:00 Banquet - Western Food Restaurant / 西餐厅, 2nd Floor

October 26, Meeting Room 6 / 6 号会议室, 3rd Floor, Nanjing New Era Hotel

- 09:00-11:40 Discussion
- 12:00-13:00 Lunch & break - Western Food Restaurant / 西餐厅, 2nd Floor
- 14:00-17:00 Industry Tour
- 18:00-20:00 Dinner (TBD)

Nanjing Workshop 2

3rd International Conference on Eco-electronics

October 25, Jia He Function Room /嘉和厅, 2nd Floor, Nanjing New Era Hotel

- 09:30-09:35 Session Opening, Tadatomo SUGA, The University of Tokyo
- 09:35-10:05 Recycling of nickel and cadmium from spent Ni-Cdbatteries
ZHENG Zheng, Zhao Guo-hua, Luo Xing-zhang, School of Environment, Nanjing University
- 10:05-10:35 Reliable Products and Reliable Action, Realistic Eco-Design for the World Majority -The Resolution of Environmental Issue and Economic Disparity-
Hidetaka HAYASHI, The University of Tokyo
- 10:35-11:05 Dell's engagement on China RoHS legislation
Frank SHOU, Worldwide Environmental Affairs, Dell
- 11:05-11:35 Environment-Friendly and High-Efficiency White and Blue Light Emitting Devices and Materials for New Lighting Echo
Zhenchuan FENG, Graduate Institute of Photonics & Optoelectronics and Department of Electrical Engineering, National Taiwan University
- 12:00-13:00 Lunch & Break -- Western Food Restaurant / 西餐厅, 2nd Floor

Industry and Global Overview

Session Chair: Frank SHOU, Dell

- 13:00-13:30 Some European Initiatives in EcoElectronics
Otto Andersen, Western Norway Research Institute
- 13:30-14:00 Status of European Ecodesign legislation
Alexander Schloesser, IZM, Fraunhofer Institute, Germany

Eco-Material, energy and process technology

Session Chair: Otto Andersen and Takasuke Morita

- 14:00-14:20 The Application of XR-Instrument in Environmental Protection
Renpu CHEN, SII
- 14:20-14:40 Si-Based Environmentally Friendly Semiconductors for Future Electronic and Photonic Devices
Takashi Suemasu^{1,2}, Shigemitsu Murase¹, Teruhisa Ootsuka¹, Mitsushi Suzuno¹ and Kosuke Morita¹, ¹Institute of Applied Physics, University of Tsukuba, and ²PRESTO of Japan Science and Technology Agency
- 14:40-15:00 BGA with Lead-free Solder Reliability Evaluation on Drop Test
Yahong Wang, Jim Liu, Motorola(China) Electronic Ltd.
- 15:00-15:20 Coffee Break
- 15:20-15:40 Development and Clean Production of PCB Industry
Zhang Lin-nan^{1,2}, Wu Yan-jun², Sun Li-ying², Kong Ling-yu², Ni Jin-ren², ¹School of Science, Shenyang University of Technology, ²Department of Environmental Engineering, Peking University
- 15:40-16:00 Experimental study of the temperature parameter for the PCB disassembly
Yang CHENG, Jiping YANG, Dong XIANG, Department of Precision Instrument and Mechanology, Tsinghua University
- 16:00-16:20 A recycling process for waste PCB substrates and the analysis of pulverizing machine tool wear mechanics
¹Yehong Dong, ¹Peng Mou, ¹Dong Xiang, ¹Guanghong Duan, ¹Tsinghua TopSearch R&D Center of Green Manufacturing, Tsinghua University
- 16:20-16:40 Field Trial of LFG Collection and Study on Engineering Design Parameters
XU Xue-song, CHEN Ze-zhi, LIU Peng, LIU Ke-qing, Nanjing Univeristy
- 16:40-17:20 Simulation and optimization of flow field of bellows
Lv Chuanyi, Yang Xianhai, Li Jinliang, School of Mechanical Engineering, Shandong University of Technology

- 17:20-17:40 Aerobic Biodegradation of Polybrominated diphenyl ethers
*Juan Ding, Juan Zhou, Weiyang Jiang, Shixiang Gao**, School of Environment, Nanjing University
- 18:00-20:00 Banquet -- Western Food Restaurant / 西餐厅, 2nd Floor

October 26, Jia He Function Room /嘉和厅, 2nd Floor, Nanjing New Era Hotel

China-Japan Joint Workshop on UEEE Inverse Distribution as a Part of Circular Economic System in China

Session Chair: Hidetaka HAYASHI, The University of Tokyo

- 08:30-08:50 Opening Speech by Hidetaka HAYASHI, The University of Tokyo
- 08:50-09:15 The management of life cycle information of electronic products
Zhenjie GAO, Ministry of Information Industry of China
- 09:15-09:40 Review of Chinese e-waste raw material market and development
Yan WANG, WEEE Recycle society, Chinese Home Application Association
- 09:40-10:05 The Sustainable Use of Electronics, An Economic Analysis of WEEE in Japan
Fumikazu Yoshida and Haruyo Yoshida**, Hokkaido University*
- 10:05-10:20 Coffee Break
- 10:20-10:45 Construction of Chinese WEEE Recycle System
Huan DU, Jiaying University and Director of the Institute of Recycling Economic Technology of the Yangtze Delta
- 10:45-11:10 Suggestion on the construction of second EEE product market
Benyao SHEN, Chinese Electronic Engineering Design
- 11:10-11:35 Study on Establishing new model of Second-hand Appliance Market in WEEE Recycling System in China
Hui TIAN, China Household Electrical Appliances Research Institute
- 11:35-12:00 Study on the Best Choice of Used or Waste EEE in China Based on the Long Chain Recycling Value Mode--Empirical Analysis on Recycling Modes of Used or Waste EEE of Dalian
Wang Jie¹, Hidetaka Hayashi², Cui Yanjuan¹, Sun Xiaocheng¹, Circular Economic Research Center, ¹Dalian Polytechnic University, ²Japan Science and Technology Agency
- 12:00-13:00 Lunch & Break -- Western Food Restaurant / 西餐厅, 2nd Floor

China-Japan Joint Workshop on UEEE Inverse Distribution as a Part of Circular Economic System in China

- 13:00-13:25 WEEE Recycling in China & Fortune Recycling Solution
May Jiang, Fortune Recycling (Shanghai) Ltd.
- 13:25-13:50 Residents' willingness to pay for advanced electronic waste recycling in Qingdao
Lu XING¹, Lei SHI², ¹School of Environmental Nature Resources, Renmin University of China, ²School of Environment, Nanjing University
- 13:50-14:15 Explore "The precious metal mine" in the city
Wang Yanfeng, SHANGHAI MITSUI XIN YUN PRECIOUS AND RARE METAL RECYCLE CO.,LTD
- 14:15-14:40 The Research of Copper Leaching from the Waste Computer Mainboards
Li Jingying¹, Sheng Guangneng², ^{1,2}College of Environment and Safety Engineering, Qingdao University of Science & Technology
- 14:40-15:05 Pilot Plant for UEEE Recovery Base in the University
Chao Huang¹, Hidetaka Hayashi², Xiuqin Ma¹, Miaomiao Liang¹, Chengwei Wang¹, ¹School of energy and environmental engineering, Hebei University of Technology, ²The University of Tokyo, Japan
- 18:00-20:00 Dinner – (TBD)

Wuxi Workshop

Workshop on Engineering for Resources, Energy and Manufacturing Technology

October 29, Bi Li Hall / 碧丽宫, 1st Floor, Hotel Kapok, Wuxi

Opening Ceremony

09:00-09:30 Prof. Kazuhiko TAKEUCHI, Director of Division for International Relations, The University of Tokyo
Prof. Yoichiro MATSUMOTO, Dean of School of Engineering, The University of Tokyo
Wuxi Government (TBD)

09:30-09:40 Break

Special Session: Review of Water Resource Management in East Asia

09:40-11:40 Professor Keisuke HANAOKI, The University of Tokyo
Hongzhi LIU, Vice Mayor of Wuxi Government
Liuyan YANG, Nanjing University

12:00-13:00 Lunch, Jiang Shan Restaurant / 江山餐厅, 1st Floor

Session 1: Management of Air and Water Environment

Session Chair, Keisuke HANAOKI, The University of Tokyo

13:00-13:20 Modelling of Biofilm in a Saline Sewage Sewer
*Jiang Feng¹, Derek Ho-wai Leung², Li Shiyu¹, Guang-Hao Chen^{*2}, ¹Department of Environmental Engineering, Sun Yat-sen University, PRC, ²Department of Civil Engineering, The Hong Kong University of Science & Technology*

13:20-13:40 Accelerated Removal of Chemical Pollutants Using Interaction between Aquatic Plants and Bacteria in Rhizosphere
Kazunari Sei, Michihiko Ike, Division of Sustainable Energy and Environmental Engineering, Osaka University

13:40-14:00 Investigation of Rice-Straw Burning Emissions in a State of the Art Aerosol Chamber
Jianmin Chen†, Xing-Nan Ye†, Hefeng Zhang†, Xin Yang†, Hong Chen†, and Renyi Zhang‡, †Center of Atmospheric Chemistry Studies, Department of Environmental Science & Engineering, Fudan University, ‡Department of Atmospheric Sciences, Texas A&M University*

14:00-14:20 A hybrid water purification system combining magnetic separation to remove total phosphorus (T-P) and ecological treatment with aquatic plants to remove total nitrogen (T-N)
*¹Minoru MORITA, ²Hiroaki YODA, ³Kazuhiko TAKEUCHI, ^{*1}Matsudo Research Laboratory, Hitachi Plant Technologies, Ltd., ²Tsuchiura Research Laboratory, Hitachi Plant Technologies, Ltd., ³The University of Tokyo*

14:20-14:40 Risk Evaluation of Waterborne Infectious Diarrhea in the Mekong Watershed and Possible Scenarios of Water Utilization for Risk Reduction
Toru Watanabe^{1}, Takayuki Miura¹, Tsukasa Sasaki¹, Yoshifumi Masago¹, Satoshi Nakamura² and Tatsuo Omura¹, ¹Department of Civil and Environmental Engineering, Tohoku University, ²Research Institute, International Medical Center of Japan*

14:40-15:00 Research on the Configuration and Application of Hybrid of PV/Wind Pump System in Polluted Water Restoration
CHEN Wei¹, LI Xiao-ping^{1, 2}, SUN Cong-jun², ¹School of Environment and Chemical Engineering, Shanghai University, ²Shanghai Academy of Environmental Sciences*

15:00-15:20 Development of Molecular Tools for Identification of Microorganisms involved in Wastewater Treatment
Kengo Kubota^{1,}, Shuji Kawakami², Hiroyuki Imachi³, Hideki Harada¹ and Akiyoshi Ohashi⁴, ¹Department of Civil and Environmental Engineering, Tohoku University, ²Environmental Systems Engineering, Nagaoka University of Technology, ³Subground Animalcule Retrieval Program, Extremobiosphere Research Center, Japan Agency for Marine-Earth Science & Technology, ⁴Department of Social and Environmental Engineering, Hiroshima University*

15:20-15:35 Coffee

Session 2: Clean Coal Technology

Session Chair: Sohei SHIMADA, The University of Tokyo

- 15:35-15:55 Cleaner Use of Coal Resources - Clean Coal Technology and Coalbed Methane
Sohei SHIMADA, Department of Environment System, Graduate School of Frontier Science, The University of Tokyo
- 15:55-16:15 Study on Coal Combustion and Pyrolysis Gas Tar and Steam Polygeneration System
M. Fang, J. Cen, Q. Wang, Luo Z., Cen K., Institute for Thermal Power Engineering, Zhejiang University, Z. Cao, X. Zhang, J. Shu, X. Rao, G. Dong, J. Wang, Y. Wang, Huainan Mining Industry*
- 16:15-16:35 Progress and expectation in R & D on clean coal technology in China
Changsui, ZHAO, Southeast University
- 16:35-16:55 **华东理工大学**
- 16:55-17:15 Exploitation, Recovery and Utilization of CBM & CMM in Henan Province , Northern China
Huoyin LI¹, Yanqin LI¹, Sohei SHIMADA², ¹Research Center on Energy-saving, School of Chemical Engineering, Zhengzhou University, ²Institute of Environment studies, Graduate School of Frontier Science, The University of Tokyo
- 17:15-17:35 WAVELET ANALYSIS APPLICATION ON AERODYNAMIC FIELD MEASUREMENT IN FURNACE BY ACOUSTIC METHOD
LI Yan-qin, Huoyin Li, Research Center on Energy-saving, School of Chemical Engineering, Zhengzhou University
- 18:30-20:00 Banquet Bi Li Hall / 碧丽宫, 1st Floor

October 30, Bi Li Hall / 碧丽宫, 1st Floor, Hotel Kapok, Wuxi

Session 3: Energy Production Including Nuclear Technology

Session chair: Satoru TANAKA, The University of Tokyo

- 08:30-08:50 Increase of Nuclear Energy in Asia and Importance of International Collaboration
Satoru TANAKA, School of Engineering, The University of Tokyo
- 08:50-09:10 Thermochemical Conversion of Biomass to Liquid Fuels
Xifeng Zhu, Quanxin Li, Qing-Xiang Guo, Anhui Key Laboratory of Biomass Clean Energy, University of Science and Technology of China
- 09:10-09:30 SURVEY ON FUTURE ENERGY SYSTEM STRUCTURE UNDER CO₂ CONSTRAINTS
Hiroshi UJITA and Kazuaki MATSUI, The Institute of Applied Energy, Tokyo, Japan
- 09:30-09:50 New concept solar cell: the learning curve
Deng Changsheng Cheng Ping, Institute of Nuclear and New Energy Technology, Tsinghua University
- 09:50-10:10 Research on Energy Consumption Control based on Resource Optimal Allocation^{*}
Li Xu, Chen Yusheng, Zhu Daoli, School of Management, Fudan University
- 10:10-10:25 Coffee Break

Session 4: Cleaning Manufacturing Technology

Session chair: Fumihiko KIMURA, The University of Tokyo

- 10:25-10:45 **Fumihiko KIMURA, The University of Tokyo**
- 10:45-11:05 EU directive on used automobile and Chinese Solution
Ming CHEN, Shanghai Jiaotong University
- 11:05-11:25 Development of Life Cycle Environmental Impact Quantification Model for Livestock Industry based on Agricultural Material Flow Analysis
Tomoko IWATA, Sohei SHIMADA, Graduate School of Frontier Sciences, The University of Tokyo
- 11:25-11:45 Green Design of Mechatronic Products and Its Implementation
Zhifeng LIU, Heifei University of Technology
- 11:45-12:05 Introduction of Tsinghua TopSearch R&D Center of Green Manufacturing (TTCGM)
Professor Guanghong DUAN, Jiping YANG, Department of Precision Instruments and Mechanology, Tsinghua University

12:05-13:00 Lunch, Jiang Shan Restaurant / 江山餐厅, 1st Floor

Session 5: Asian Logistics Research and Practice

Session chair, Hiroyuki YAMATO, The University of Tokyo

- 13:00-13:20 Financial Supply Chain
Daolin ZHU, Fudan University
- 13:20-13:40 A Study on Product Delivery Planning Improvement: Case Study at Cementhai Logistics Co., Ltd.
Hiroyuki Yamato, Maytouch Udommahuntisuk, A.A.B. Dinariyana, Graduate School of Frontier Sciences, The University of Tokyo*
- 13:40-14:00 Science Originates from Discussion and Develops through Communication
Yaoqiu Wang, Zhao Rui, Wang Yujie, School of Logistics Research, Beijing Jiaotong University
- 14:00-14:20 The Development of A New Public Transportation System: On-Demand Bus
Kota TSUBOUCHI¹, Hiroyuki YAMATO¹, Kazuo HIEKATA², Maytouch UDOMMAHUNTISUK¹, ¹Graduate School of Frontier Sciences, The University of Tokyo, ²Graduate School of Engineering, The University of Tokyo
- 14:20-14:40 Marine inventory routing for multi-commodity petroleum products in a hub-and-spokes network
A.A.B. Dinariyana¹, Hiroyuki Yamato¹, Hiroshi Matsukura², Udommahuntisuk Maytouch¹, ¹Institute of Environmental Studies, Graduate School of Frontier Sciences, The University of Tokyo, ²Environmental and Ocean Engineering, Graduate School of Engineering, The University of Tokyo
- 14:40-15:00 Effect of Cooperative Activities among Maritime Logistics Related Companies
Hiroshi MATSUKURA¹, Hiroyuki YAMATO², ¹School of Engineering, The University of Tokyo, ²School of Science, The University of Tokyo
- 15:00-15:15 Coffee Break

Session 6: Advanced Packaging Technology

Session chair: Tadatomo SUGA, The University of Tokyo

- 15:15-15:35 New surface finish technology for semiconductor packages
Shigeki SHIMIZU, Japan Pure Chemicals Co.
- 15:35-15:55 Development and Reliability of New Lead Free Solder System
Jusheng MA, Tsinghua University
- 15:55-16:15 Bumping technology
Tatsuo HIKIJI, Minami Co. Ltd.
- 16:15-16:35 Research on Electronic Packaging Material
Dingyan DONG and Ming LI, Shanghai Jiaotong University
- 16:35-16:55 International Cooperation of Research & Education of Packaging and Eco-electronics in China
Zhonghua XU and Tadatomo SUGA, School of Engineering, The University of Tokyo
- 16:55-17:05 Closing Speech
Satoru Tanaka, The University of Tokyo
- 18:00-20:00 Dinner (TBD)
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