



The Fifth Congress of the East Asian Association of Environmental and Resource Economics

Green Economy and Sustainable Development

Conference Handbook

Hosted by

East Asian Association of Environmental and Resource Economics

Institute of Economics, Academia Sinica

Department of Economics, National Taipei University

Institute of Nuclear Energy Research, Atomic Energy Council, Executive Yuan

Taiwan Association of Environmental and Resource Economists

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GREETING FROM THE PRESIDENT OF EAAERE

Dear Colleagues,

It is a great honor and pleasure to give you a welcoming message at the 5th Annual Congress of the East Asian Association of Environmental and Resource Economics (EAAERE) held in Academia Sinica, Taipei, Taiwan. I am glad to see some of you again, since I met you both in the 4th congress held in Pusan, Korea and the Inter-congress conference held in Jakarta, Indonesia.

First of all, I would like to give my gratitude to many people for making this 5th Congress of EAAERE successful. Above all, I appreciate the Chair of Local Organizing Committee (LOC), the former president of EAAERE, Dr. Daigee Shaw, and the co-chairs of Scientific Committee and Program Committee, professors Hsiao-Chi Chen and Orapan Nabangchang, and the members of all three committees, for their sacrificing effort with great management capability. I also feel a deep appreciation to three keynote speakers, Professors Robert O. Mendelsohn, Paul Ekins and Jason Shogren for sharing their busy time with us to give their keen insight into the issues of the environmental and energy economics. Finally, I would like to express my sincere appreciation to all participants of this 5th Congress. I do not think we are able to guarantee this 5th Congress as a success without your active participation.

By participating in all the congresses and the Inter-congress conference held by EAAERE, our association has made the fast advancement in size and quality in a short period of time. This fast growth of EAAERE would be proved in this Taipei Congress. In this 5th Congress, about 150 participants from 14 countries are supposed to present over 130 high quality papers and posters. The Environmental Economics and Policy Studies (EEPS), EAAERE's official journal, is now recognized as one of the high quality journals in the field of environmental and resource economics. In addition, EAAERE has become the co-host of the WCERE 2018 with the Association of Environmental and Resource Economists (AERE) and the European Association of Environmental and Resource Economists (EAERE). EAAERE members will take part in various committees with the same right as the AERE and EAERE. And EAAERE members will also have the benefit of paying the special discount registration fee for the WCERE 2018, which only the members of AERE and EAERE have had so far. This is a great achievement for EAAERE since this would mean EAAERE becomes and is recognized as a real global association.

All these achievements of EAAERE could not have been accomplished in such a short period of time without you, the members of EAAERE. Therefore, I express my sincere appreciation to all of you for your interest and participation in the various activities of EAAERE once more.

As all of us know, East Asia is one of the most important regions in the world with respect to environment and resource problems as well as poverty. This region therefore would be the best place for practicing the main theme of the 5th Congress of the EAAERE, "Green Economy and Sustainable Development." The environmental and resource economists' role to achieve the sustainable development would be very important in the sense that the current development strategies of most countries in this East Asian region are biased toward quantity-oriented economic growth rather than the sustainability. We, as the environmental and resource economists, are responsible for helping solve these problems by exploring new theories, finding facts, and identifying the problems and applying the existing theories to the real world problems in this region. In this regard, this EAAERE Congress is the important place to carry our mission since in this congress we will discuss these problems of environment and resource with our theoretical and empirical research results and derive excellent policy implications for achieving the green economy and the sustainable development. I hope we will have heated discussions and deduce fruitful results from the discussions during this congress. And also, I hope all participants have a comfortable stay and enjoy the beautiful city of Taipei, Taiwan.

Il Chung Kim
President of EAAERE

GREETING FROM THE LOCAL ORGANIZING COMMITTEE OF EAAERE

Good morning! Distinguished guests, ladies and gentlemen.

It's my great pleasure to welcome you and thank you for being with us in the 5th EAAERE Congress. On behalf of the LOC, I would like to take this opportunity to welcome all of you coming from all over the world to attend the 5th EAAERE Congress. I also wish to extend my most cordial greetings to our distinguished keynote speakers, Professors Paul Ekins from UCL, Robert Mendelsohn from Yale and Jason Shogren from Wyoming, and all participants of the Congress. I also wish to express my deepest gratitude to our co-organizers and co-hosts, the Institute of Economics in Academia Sinica, the Department of Economics at National Taipei University, the Taiwan Association of Environmental and Resource Economists (TAERE), and the Institute of Nuclear Energy Research for their wholehearted support. Finally, I would like to especially say thank you to our hardworking staff and team members of the Local Organizing Committee and Program Committee. Without your devoted effort in the past year, this Congress cannot come true.

The theme of this Congress is "Green Economy and Sustainable Development." In our call-for-papers, we have put forward several questions to be tackled for a successful transition from the current brown economy to a green one. It is worthwhile to repeat the questions here: what economic instruments could internalize intergenerational externalities, what policies could avoid and/or improve intergenerational inequalities, what macroeconomic policies could promote a green economy, what types of policy instruments could be used to green industries, what stimulus programs could induce higher levels of innovation needed for a green economy, what international trade policies could spur the development of a green economy, etc.

This Congress will give us an excellent opportunity to take stock of the past development of researches on sustainable development, green growth, green economy, environmental protection, resource conservation, etc and assess how they progress in terms of how they can aid and foster a sustainable and green economy.

And finally, on behalf of the LOC, I wish all participants a fruitful exchange at the conference and a pleasant stay in Taiwan.

Thank you.

Daigee Shaw
Chair, Local Organizing Committee

COMMITTEES

Scientific Committee

Hsiao-Chi Chen (National Taipei University): Co-Chair
Orapan Nabangchang (Sukhothai Thammatirat Open University): Co-Chair
Ken-Ichi Akao (Waseda University)
Young Sook Eom (Chon Buk National University)
Shiqiu Zhang (Peking University)

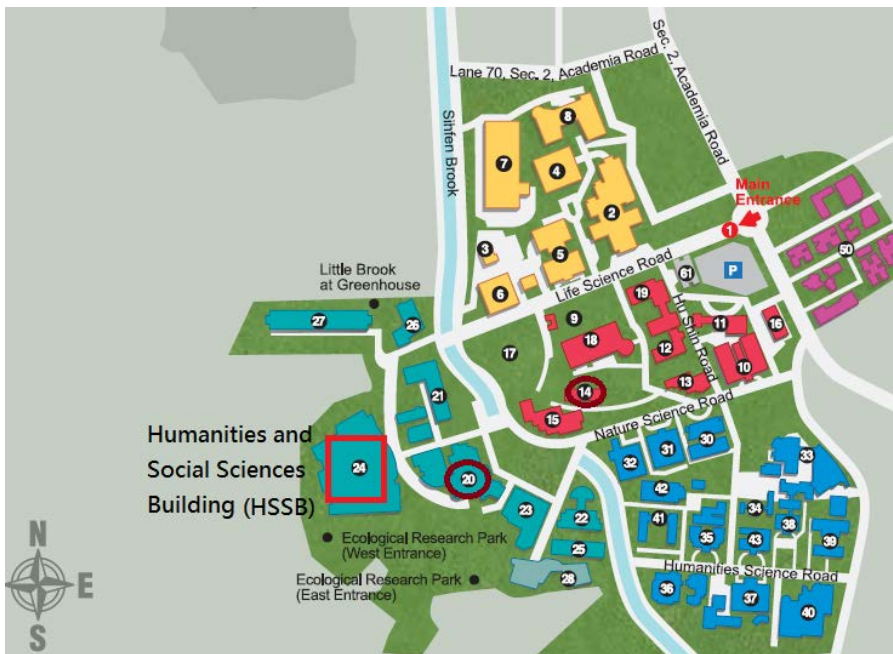
Program Committee

Hsiao-Chi Chen (National Taipei University): Co-Chair
Orapan Nabangchang (Sukhothai Thammatirat Open University): Co-Chair
Ken-Ichi Akao (Waseda University)
Jong Ho Hong (Seoul National University)
Oh Sang Kwon (Seoul National University)
Huei-Chu Liao (Tamkang University)
Budy Prasetyo Resosudamo (Australian National University)
Katsuya Tanaka (Shiga University)
Jian Wu (Renmin University of China)
Shiqiu Zhang (Peking University)

Local Organizing Committee

Daigee Shaw (Academia Sinica): Chair
Chi-Chung Chen (National Chung-Hsing University)
Hsiao-Chi Chen (National Taipei University)
Ching-Cheng Cheng (Academia Sinica)
Chang-Erh Chou (Taiwan Institute of Economic Research)
Jin-Li Hu (National Chiao Tung University)
Chung-Huang Huang (Taiwan Research Institute)
Fu-Kuang Ko (Institute of Nuclear Energy Research)
Yu-Bong Lai (National ChengChi University)
Chien-Ming Lee (National Taipei University)
Chao-Ning Liao (National Tsing-Hua University)
Kwo-Dong Wei (National Taipei University)
Lih-Chyi Wen (Chung-Hwa Institution for Economic Research)

CAMPUS MAP AND LOCATION OF CONGRESS ACTIVITIES



No. 24: Humanities and Social Sciences Building (HSSB)

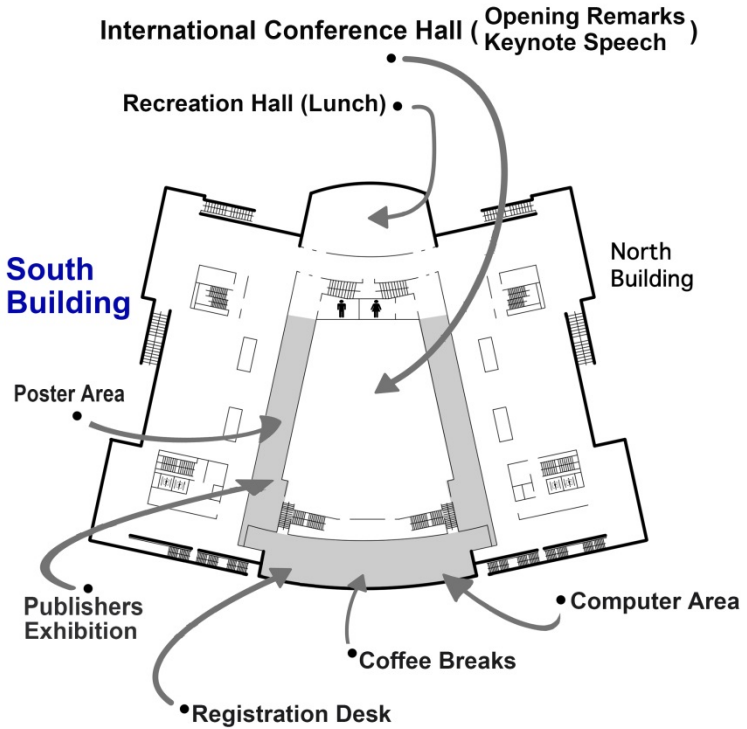
No. 20: Center of Academic Activities (Activity Center)

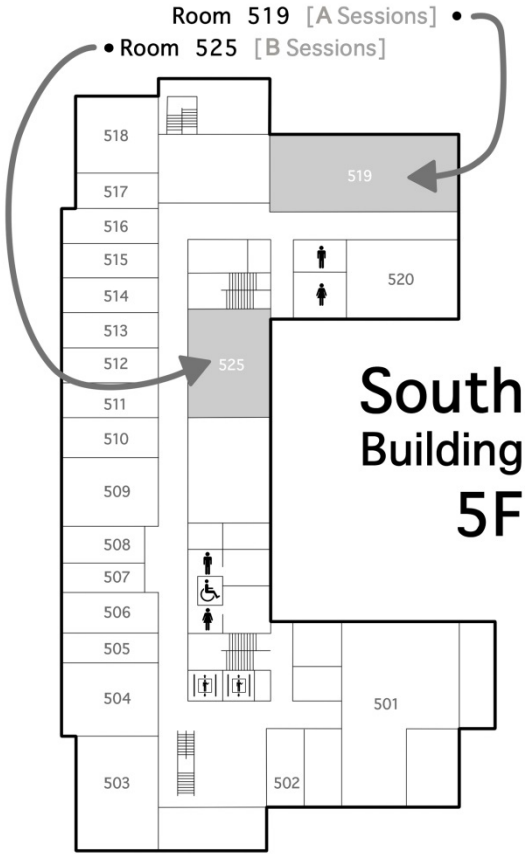
No. 14: Tsai Yuan-Pei Memorial Hall (Faculty Club)

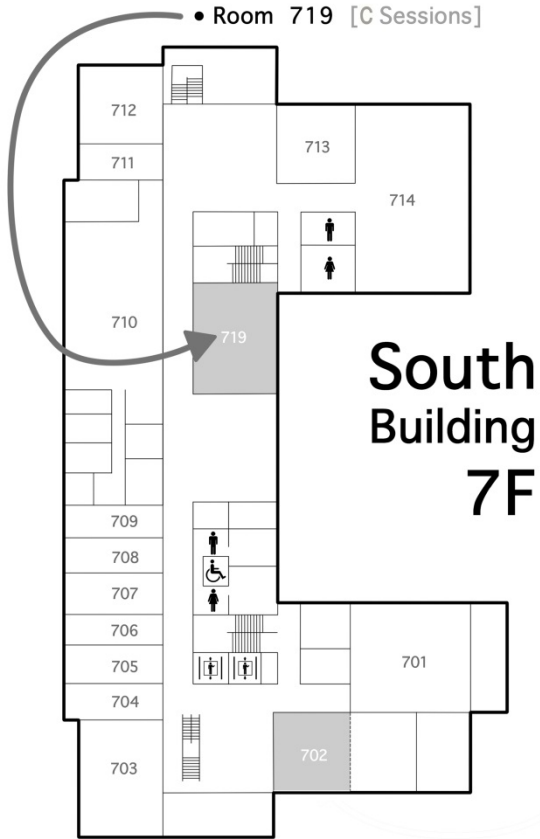
HSSB MAP

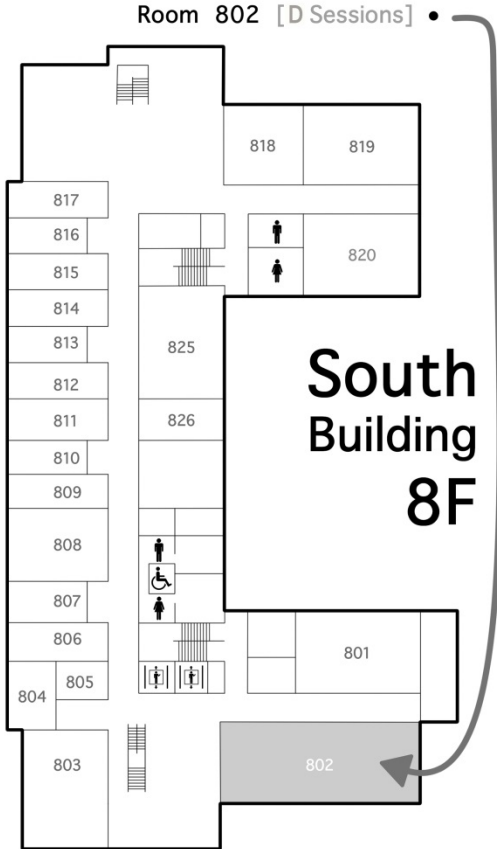
Humanities and Social Sciences Building (HSSB)

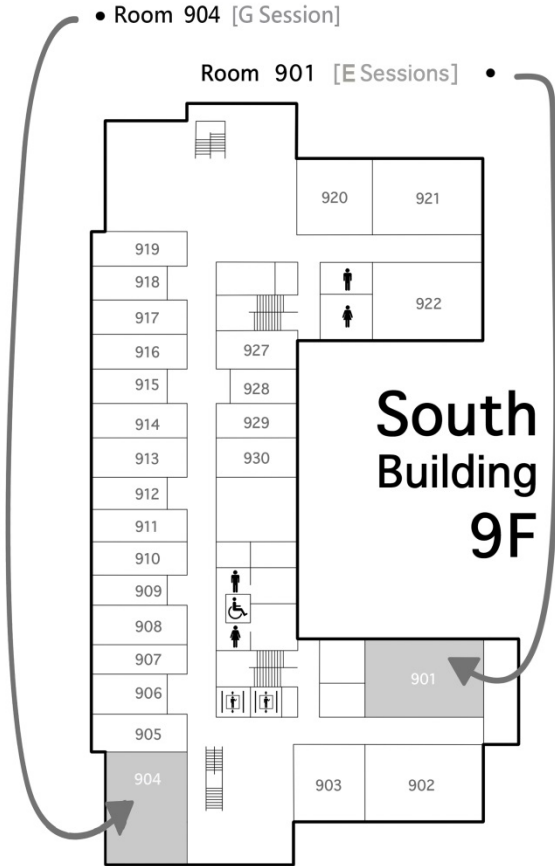
4F



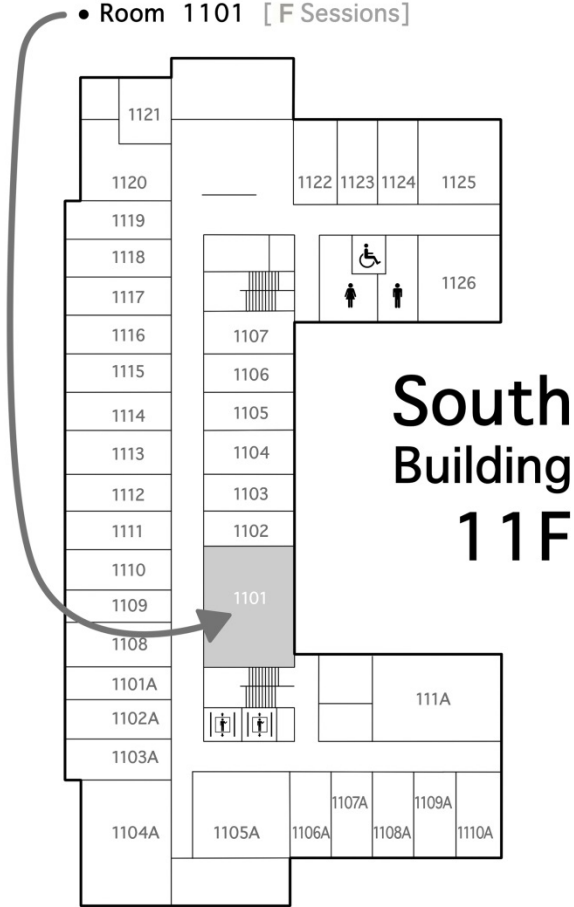








- Room 1101 [F Sessions]

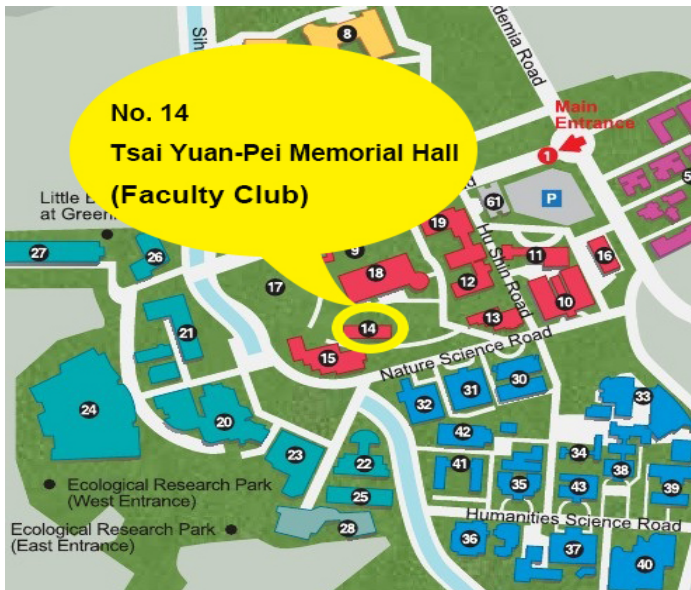


SOCIAL EVENTS

■ Welcome Reception

Time: 18:00-20:00, August 5, 2015

Location: Tsai Yuan-Pei Memorial Hall (Faculty Club), Academia Sinica (No.14)



- ☆ Tsai Yuan-Pei Memorial Hall (Faculty Club) is located on the top of the slope of the intersection of Nature Science Road and Hu Shin Road. A direction will be on the intersection of the two roads. Please go straight up the gentle slope.

■ Conference Dinner

Time: 18:00-21:00, August 6, 2015

Location: Howard Plaza Hotel (160, Ren Ai Road, Sec. 3, Taipei, Taiwan)

- ☆ Shuttle buses are available on August 6 to go to and come back from the Conference dinner. Bus schedule is as follows:

18:00

HSSB, Academia Sinica → Howard Plaza Hotel

21:00

Howard Plaza Hotel → Forward Hotel Nangang → Activity Center, Academia Sinica

✂ **Registered participants are invited to both dinners.**

GENERAL INFORMATION

CONFERENCE VENUE (HSSB)

South Building

Humanities and Social Sciences Building (HSSB), Academia Sinica

Registration	4F	Lobby
Opening Remarks / Keynote Speech	4F	International Conference Hall
Poster Session	4F	Poster Area
Parallel Session	Conference Rooms (South Building)	
	5F	A Sessions (Room 519)
	5F	B Sessions (Room 525)
	7F	C Sessions (Room 719)
	8F	D Sessions (Room 802)
	9F	E Sessions (Room 901)
	11F	F Sessions (Room 1101)

REGISTRATION

Wednesday	August 5	17:00-18:00	2 nd floor Lobby, Activity Center
Thursday	August 6	08:00-18:00	4 th floor Lobby, HSSB
Friday	August 7	08:30-17:00	4 th floor Lobby, HSSB

INFORMATION DESK

You will find all information related to EAAERE 2015 congress as well as Taipei and Academia Sinica in the registration desk.

PARALLEL SESSION ASSISTANTS

There are two congress assistants in each parallel session room, ready to help participants and to provide technical assistance.

NAME BADGES

For security and administrative purposes, please wear your name badge in conference functions and social events.

MESSAGE BOARD

A message board will be available in the 4th floor Lobby, HSSB. Leave your messages for friends and colleagues. Look for message left for you from your friends and/or colleagues.

PROGRAM CHANGES

General announcements, changes and updates to the program will be also displayed on the message board.

PC AND PRINTING

Computers with internet connection are available in the 4th floor Lobby of HSSB during the congress processing time. Printing facilities are also available. Please contact congress assistants if you need to photocopy your documents. Within a limited amount of copies the service is free.

INTERNET ACCESS

1. We provide free WiFi as “**EAAERE2015**” without password.
2. The free WiFi as “AS _Guest” is available as well. You may either enter your eduroam, iTaiwan (@itw), guest (@guest) account or apply for a guest account.

ECO-CUPS

To be an environmentally friendly conference, no bottled water will be provided in this congress. Please carry along your own reusable tumbler. Boiled water will be provided by water machines on each floor. Tea and coffee will be provided all the times during the congress at the 4th floor Lobby of HSSB.

CATERING

Coffee breaks are held in the 4th floor Lobby of HSSB and lunches are held in the recreation hall on the 4th floor, HSSB.

DRESS CODE AND CLIMATE

The dress code for the conference is smart casual. Average temperature ranges from 26°C to 35°C. It is recommended that you always carry a sunglasses and an umbrella with you when you go outdoors.

ATTENDANCE AND PUNCTUALITY

The EAAERE Committee would like to extend its gratitude for your presence and for coming on time in all sessions and activities throughout the congress.

EMERGENCIES/ ACCIDENTS REPORTING

Day: Conference staff
Night: DIAL 119
Day and Night: 2015eaaere@econ.sinica.edu.tw

TRANSPORTATION

By Taxi

It is the most convenient and not expensive way to get to the venue and get around Taipei.

By MRT

- (1) MRT Station: Taipei Nangang Exhibition Center (Line 1 and 5), Exit 5.
- (2) Go across the intersection of Nangang Road and Academia Road by pedestrian overpass and take Bus 205, 212, 276, 306, 620, 645, 679 on Academia Road for NT\$15.
- (3) Get off at the Academia Sinica stop (travel time: 10 minutes).

PUBLISHER EXHIBITION

Three academic publishers will exhibit their publications at the 4th floor of the Humanities and Social Sciences Building (HSSB) during the Conference.

Below is the list of the academic publishers:

1. World Scientific Publishing Co Pte Ltd
2. Elsevier Taiwan LLC
3. Springer Science+ Business Media Singapore Private Limited

SCHEDULE AT A GLANCE

Wednesday August 5, 2015	Thursday August 6, 2015	Friday August 7, 2015
	08:00 – 18:00 Registration	08:30 – 17:00 Registration
	09:00 – 11:00 Parallel Session I	09:30 – 11:00 Parallel Session III
	Coffee Break	Coffee Break
	11:15 – 11:25 Opening Remarks	11:15 – 12:15 Keynote Speech III
	11:25 – 12:25 Keynote Speech I	
	12:25 – 13:35 Lunch General Asseble, EAAERE	12:15 – 13:25 Lunch
	13:35 – 14:25 Poster Session I	13:25 – 14:15 Poster Session II
	14:25 – 16:25 Parallel Session II	14:15 – 15:45 Parallel Session IV
	Coffee Break	Coffee Break
	16:40 – 17:40 Keynote Speech II	16:00 – 17:30 Parallel Session V
17:00 – 18:00 Registration		
18:00 – 20:00 Welcome Reception	18:00 – 21:00 Conference Dinner	
20:00 – 21:00 EAAERE BOD Meeting	20:30 – 21:30 EAAERE BOD Meeting	

SCHEDULE AT A GLANCE

Wednesday, August 5, 2015

17:00 – 18:00	Registration	2 nd floor Lobby, Activity Center
18:00 – 20:00	Welcome Reception	Faculty Club
20:00 – 21:00	EAAERE BOD Meeting	Faculty Club

Thursday, August 6, 2015

08:00 – 18:00	Registration	4 th floor Lobby, HSSB
09:00 – 11:00	Parallel Session I	5 th -11 th Conference Rooms, HSSB
	1A: Green Economy I	
	1B: Vaulation I	
	1C: Environment and Growth	
	1D: Energy Demand and Supply	
	1E: Energy and Growth	
	1F: Regulation	
11:00 – 11:15	Coffee Break	4 th floor Lobby, HSSB
11:15 – 11:25	Opening Remarks	4 th floor International Conference Hall, HSSB
11:25 – 12:25	Keynote Speech I	4 th floor International Conference Hall, HSSB
12:25 – 13:35	Lunch	4 th floor Recreation Hall, HSSB
	General Assembly, EAAERE	
13:35 – 14:25	Poster Session I	4 th floor Poster Area, HSSB
14:25 – 16:25	Parallel Session II	5 th -11 th Conference Rooms, HSSB
	2A: Green Economy II	
	2B: Energy Efficiency	
	2C: Climate Change I	
	2D: Game Theory and Environment	
	2E: Ecosystem	
	2F: Waste and Recycling	
16:25 – 16:40	Coffee Break	4 th floor Lobby, HSSB
16:40 – 17:40	Keynote Speech II	4 th floor International Conference Hall, HSSB
18:00	Charter buses are served in front of the HSSB	
18:00 – 21:00	Conference Dinner	Howard Plaza Hotel
20:30 – 21:30	EAAERE BOD Meeting	Howard Plaza Hotel

SCHEDULE AT A GLANCE

Friday, August 7, 2015

08:30 – 17:00	Registration	4 th floor Lobby, HSSB
09:30 – 11:00	Parallel Session III	5 th -11 th Conference Rooms, HSSB
	3A: Green Economy III	
	3B: Valuation II	
	3C: Energy Policies	
	3D: Energy Prices	
	3E: Energy Planning	
	3F: Behavior and Environment	
11:00 – 11:15	Coffee Break	4 th floor Lobby, HSSB
11:15 – 12:15	Keynote Speech III	4 th floor International Conference Hall, HSSB
12:15 – 13:25	Lunch	4 th floor Recreation Hall, HSSB
13:25 – 14:15	Poster Session II	4 th floor Poster Area, HSSB
14:15 – 15:45	Parallel Session IV	5 th -11 th Conference Rooms, HSSB
	4A: Energy Economics and Valuation	
	4B: Thematic Session: Economic Analysis of Dynamic Electricity Pricing	
	4C: Climate Change II	
	4D: Environmental Policies Evaluation	
	4E: Ecology and Environment	
	4F: Renewable Resources I	
15:45 – 16:00	Coffee Break	4 th floor Lobby, HSSB
16:00 – 17:30	Parallel Session V	5 th -11 th Conference Rooms, HSSB
	5A: Energy Economics	
	5B: Valuation III	
	5C: Cost and Energy-Intensity Estimations	
	5D: Ecosystem and Resources	
	5E: Climate Change and ODA Funding	
	5F: Renewable Resources II	

KEYNOTE SPEAKERS**Keynote Speech I**

Thursday, August 6, 2015

11:25 – 12:25

Robert O. Mendelsohn**Edwin Weyerhaeuser Davis Professor of Forest Policy
Yale University***Climate Change:
Options and Policy Implications*

The focus of Professor Robert O. Mendelsohn's research has been the valuation of the environment. He has developed methods to value natural ecosystems including coral reefs, old-growth forests, non-timber forest products, ecotourism, and outdoor recreation. He has also developed methods to value pollution including emissions of criteria pollutants (such as particulates and sulfur dioxide) and hazardous waste sites. His most recent work values the impacts of greenhouse gases, including the effects of climate change on agriculture, forests, water resources, energy, and coasts. This research carefully integrates adaptation into impact assessment and has recently been extended to developing countries around the world. He has also been involved in studies of nonrenewable resources, forest management, and specifically carbon sequestration in forests. Professor Mendelsohn has written over one hundred peer-reviewed articles and edited six books.

Keynote Speech II

Thursday, August 6, 2015

16:40 – 17:40

Paul Ekins

University College London

Global Energy: Options and Implications



Professor Paul Ekins' academic work focuses on the conditions and policies for achieving an environmentally sustainable economy, and he is an authority on a number of areas of energy-environment-economy (E3) interaction and environmental policy, including: sustainable development assessment methodologies; resource productivity; sustainable energy use; E3 modelling and scenarios; the adjustment of national accounts to take account of environmental impacts; environmental economic instruments and ecological tax reform; sustainable consumption; and environment and trade. He is the author of numerous papers, book-chapters and articles in a wide range of journals, and has written or edited twelve books. Two of his most recent books of which he is editor or co-editor are *Environmental Tax Reform: a Policy for Green Growth* (Oxford University Press, Oxford); and *Energy 2050: the Transition to a Secure, Low-Carbon Energy System for the UK* (Earthscan, London). In 2015 he was awarded an OBE in the UK's New Year's Honours List for services to environmental policy.

Keynote Speech III

Friday, August 7, 2015

11:15 – 12:15

Jason F. Shogren

**Stroock Professor of Natural Resource Conservation
and Management**

University of Wyoming

*Global Environmental Risks - Some
Observations on the Economics of Pandemics*



Professor Jason F. Shogren has background and research interests that include risk, experimental methods, endangered species, invasive species, climate change, environmental federalism, non-market valuation, environmental liability; agricultural management, forest management, energy, health, political economy, regulation, trade, and paleoeconomics. He has published more than 200 articles in the past 20 years, in a broad range of areas relevant to environmental and resource economics. Additionally, he served as co-editor of *Resource and Energy Economics*, and editor-in-chief of Elsevier's online *Encyclopedia of Resource, Energy and Environmental Economics*. He has been named a fellow of the Association of Environmental and Resource Economists (AERE) in 2014 to recognize his outstanding professional contributions and demonstrated leadership in the field of environmental economics.

INSTRUCTIONS FOR CONFERENCE PARTICIPANTS

PARALLEL SESSIONS

Equipment and Time Frame

A computer (MS Windows environment) will be available in each room. Session participants can use either PowerPoint (.ppt or .pptx) or Portable Document Format (.pdf) for their presentations. Conference staffs will be happy to assist in resolving any technical issues. However, connecting personal laptops is not encouraged. The time available for each paper is 30 minutes, including 20 minutes for presentation, 5 minutes for discussant's comments, and 5 minutes for the authors' responses and a general discussion.

Presenters and Discussants

Presenters and discussants ought to finish uploading their files to the computers 10 minutes prior to the beginning of a session. Common file names such as EAAERE or 2015 should not be used to avoid overwriting other people's presentation. Discussants are expected to provide a brief and focused comment. Any detailed suggestions can be passed on to the presenters after the session, in written form if preferred.

Chairs

Chairs are invited to come to the room 10 minutes prior to the beginning of a session. They will introduce the session and speakers, make sure the presentation proceed as scheduled, and guide the discussion from the floor following paper presentation. In each session, the chair is programmed to be the presenter of the last paper. In case the scheduled chair does not attend, the presenter of the session's actual last paper is expected to take the role of chair.

POSTER SESSIONS

Equipment and Time Frame

The panel size for a poster stand is 1m x 1m (or apron. 3ft by 3 ft). The Poster area is located at the 4th floor of the Humanities and Social Sciences Building (HSSB) of Academia Sinica. Conference staffs and the necessary tools and materials (tapes, pins, scissors, etc.) will be ready to help authors hang their posters on the panel. The time for oral presentation of each poster is 5 minutes. Nevertheless, all posters will be exhibited throughout the entire duration of the Conference.

Presenters

Presenters should first check the number of your poster stand from the list located in the poster area, and display the poster at your earliest convenience. For the presentation, a session chair will be responsible to keep the time and move the audience smoothly from poster to poster. Presenters are encouraged to stay next to their posters long enough to answer questions and interact with the audience after the oral report.

CONFERENCE PROGRAM

Wednesday, August 5

17:00 – 18:00	Registration	2 nd floor Lobby, Activity Center
18:00 – 20:00	Welcome Reception	Faculty Club
20:00 – 21:00	EAAERE BOD Meeting	Faculty Club

Thursday, August 6

08:00 – 18:00	Registration	4 th floor Lobby, HSSB
09:00 – 11:00	Parallel Session I	5 th -11 th Conference Rooms

1A Green Economy I Room 519

Session Chair: Jue Yang (Fujitsu Research Institute)

Indonesian Cities Green Development Index: A Prototype Measurement

Zuzy Anna (Padjadjaran University)

Akhmad Fauzi (Bogor Agricultural University)

Discussant: **Satoshi Yamazaki**

How Do Local Governments Integrate Conservation and Development in Restricted Development Area in West China? A Case of New Interventions and Pathways in Ankang Municipality, Shaanxi Province, China

Jie Li (Xi'an Jiaotong University)

Linjing Ren (Xian Jiaotong University)

Discussant: **Zuzy Anna**

Intra- and Inter-Village Conflict in Rural Coastal Communities in Indonesia: The Case of Kei Islands

Satoshi Yamazaki (University of Tasmania)

Budy P. Resosudarmo (Australian National University)

Wardis Girsang (University of Pattimura)

Eriko Hoshino (University of Tasmania Tasmania)

Discussant: **Jie Li**

Inequality, Poverty, And Sustainable Development

Jue Yang (Fujitsu Research Institute)

Shunsuke Managi (Kyushu University)

Discussant: **Mau-Ting Lin**

09:00 – 11:00

Parallel Session I

5th-11th Conference Rooms**1B** **Vaulation I**

Room 525

Session Chair: Young Sook Eom (Chon Buk National University)

*Latent Preferences and Valuation of Health Walk on Footpath in UK***Hisako Nomura** (Kyushu University)

Mitsuyasu Yabe (Kyushu University)

Masuda Begum Sampa (Kyushu University)

Discussant: **Shi-Miin Liu***How Much Do People Value Atmospheric Visibility? A Contingent Valuation Study in Beijing, China***Desheng Huang** (Ministry of Environmental Protection, China)

Henrik Andersson (Toulouse School of Economics)

Shiqiu Zhang (Peking University)

Discussant: **Young Sook Eom***A General Framework for Treatment of Protests and Don't Know/Uncertainty Responses in Contingent Valuation Method***Pei-Ing Wu** (National Taiwan University)

Szu-Hao Chen (Military of National Defense, Taiwan)

Je-Liang Liou (Chung-Hua Institution for Economic Research)

Discussant: **Yih-Ming Lin***Measuring Social Benefits of Reliability in Multi-Regional Water Network in Korea***Young Sook Eom** (Chon Buk National University)

Jin Ok Kim (Chon Buk National University)

Sang Cheol Lee (K-Water Corporation)

Ji Young Moon (K-Water Corporation)

Discussant: **Yu-Lan Chien**

09:00 – 11:00 **Parallel Session I**5th-11th Conference Rooms**1C Environment and Growth**

Room 719

Session Chair: Yoomi Kim (Seoul National University)

An Empirical Analysis of The Impacts of Abenomics on the Japanese Economy and CO2 Emissions – An Assessment Based on the E3MG Macro-Econometric Model

Soocheol Lee (Meijo University)

Hector Pollitt (Cambridge Econometrics)

Discussant: **Ruei-He Jheng**

How to Prevent Catastrophe: Economic Perspectives on Technological Development at the Environmental Tipping Point

Eric Yan (Academia Sinica)

Daigee Shaw (Academia Sinica)

Discussant: **Ken-Ichi Akao**

Sustainability Indicator and the Shadow Price of the Natural Capital

Masayuki Sato (Kobe University)

Runsinarith Phim (Kobe University)

Shunsuke Managi (Tohoku University)

Discussant: **Paola Ovando Pol**

Estimating the Province-Specific Environmental Kuznets Curve in China: A Geographically Weighted Regression Approach

Yoomi Kim (Seoul National University)

Katsuya Tanaka (Shiga University)

Chazhong Ge (Chinese Academy for Environmental Planning)

Discussant: **Shi-Miin Liu**

09:00 – 11:00

Parallel Session I

5th-11th Conference Rooms**1D Energy Demand and Supply**

Room 802

Session Chair: Huei-Chu Liao (TamKang University)

Energy Security and Electricity Supply Planning in Taiwan – An Application of Multi-Objective Programming Model (MultEEE)

Ssu-Li Chang (National Taipei University)

Tseng-Yu Chen (Taiwan Research Institute)

Jen-Yi Hou (National Taipei University)

Discussant: **Fu-Kuang Ko**

Scenario Analysis of Energy Demand and Air Pollutants Emission in Transportation Sector in China

Chenmin He (Peking University)

Kejun Jiang (Energy Research Institute)

Discussant: **Hsing-Chun Lin**

An Empirical Analysis on the Impact of a Carbon Banking Program on Household Electricity Demand

Hea Young Jung (Chonnam National University)

Jeong Hwan Bae (Chonnam National University)

Discussant: **Zenaida M. Sumalde**

A Snapshot of World Oil Demand and Oil Supply Evolution

Huei-Chu Liao (TamKang University)

Yun Chi Chen (TamKang University)

Shu-Chuan Lin (National Taipei University)

Discussant: **Eiji Sawada**

09:00 – 11:00 **Parallel Session I**5th-11th Conference Rooms**1E Energy and Growth**

Room 901

Session Chair: Sunhee Suk (Kyoto University)

*Using LMDI Method to Analyze GHG Emissions from Electricity Generation in Korea***Suyi Kim** (Hongik University)Discussant: **Uchida Shinsuke***Determinants of CO2 Emissions for Post-Soviet Independent Countries***Dmitriy D. Li** (Chonnam National University)

Jeong Hwan Bae (Chonnam National University)

Meenakshi Rishi (Seattle University)

Discussant: **Ming-Feng Hung***Energy Efficiency Policies in East Asia – Macroeconomic Implications and Interactions with Existing Climate Policies*

Unnada Chewpreecha (Cambridge Econometrics)

Seonghee Kim (Institute of Energy Economics)

Lisa Ryan (University College Dublin)

Sunhee Suk (Kyoto University)Discussant: **Ssu-Li Chang**

09:00 – 11:00	Parallel Session I	5 th -11 th Conference Rooms
1F	Regulation	Room 1101
	Session Chair: Hiroaki Yamagami (Seikei University)	
	<i>Optimal Environmental Policy Instruments under Uncertainty with the Dominant Firm Model</i>	
	Daiken Mori (Kyushu University)	
	Discussant: Hsiao-Chi Chen	
	<i>Voluntary Approach and Regulatory Threat Incentive</i>	
	Emiko Inoue (Kyoto University)	
	Takashi Saito (Kyorin University)	
	Discussant: Hiroaki Yamagami	
	<i>Optimal Regulation for Production with Multiple Externalities</i>	
	Hyungna Oh (Kyung Hee University)	
	Jaeuk Ju (Korea Information Society Development Institute)	
	Discussant: Tsung-Hsiu Tsai	
	<i>Can Induced Technological Change Produce a Double Dividend?</i>	
	Antung Anthony Liu (Resources for the Future, Washington D.C. and Cheung Kong Graduate School of Business)	
	Hiroaki Yamagami (Seikei University)	
	Discussant: Tiefeng Qian	
11:00 – 11:15	Coffee Break	4 th floor Lobby, HSSB
11:15 – 11:25	Opening Remarks	4 th floor International Conference Hall, HSSB
	Il Chung Kim (Dongguk University)	
	Daigee Shaw (Academia Sinica)	
11:25 – 12:25	Keynote Speech I	4 th floor International Conference Hall, HSSB
	Session Chair: Il Chung Kim	
	<i>Climate Change: Options and Policy Implications</i>	
	Robert O. Mendelsohn (Yale University)	
12:25 – 13:35	Lunch	4 th floor Recreation Hall, HSSB
12:25 – 13:35	General Assembly, EAAERE	4 th floor Recreation Hall, HSSB

13:35 – 14:25

Poster Session I4th floor Poster Area, HSSB

Session Chair: Shi-Miin Liu (National Taipei University)

Does an Optimal Voluntary Approach Flexibly and Efficiently Control Emissions from Heterogeneous Firms?

Ryo Ishida (Ministry of Finance, Japan)

Takuro Miyamoto (Waseda University)*Transition from Environmental Charges to Taxes in China: An Application of Polluter-Pays Principle***Yazong Mai** (Renmin University of China)

Xue Tan (Renmin University of China)

Zhe Yang (Renmin University of China)

Tao Li (Renmin University of China)

Lei Shi (Renmin University of China)

Zhong Ma (Renmin University of China)

*Research on Sustainable Development of the City with Amenity Resources: On the Case Study of Huangshan City***Qi Xiaoxu** (Capital University of Economics and Business)*An Economic Evaluation for the Waste and Recycling Policy of Japan and Taiwan***Hideyuki Akaishi** (Hosei University)

Kazuka Nambu (Fukushima University)

Rie Murakami ((K.K. Satisfactory International)

*What Kind of Information is Required after the Accident of Fukushima No.1 Nuclear Power Plant?***Tomoko Imoto** (Tokyo Institute of Technology)*Designing Incentives towards Adoption of Sustainable Agriculture Practices in South African Fruit and Wine Sectors*

Wendy Engel (World Wide Fund for Nature, South Africa)

Nicole Wagner (Western Cape Department of Agriculture, South Africa)*Does the Kyoto Protocol Have Carbon Reduction Effects? A Panel Data Rolling Regression Analysis***Chien-Ho Wang** (National Taipei University)

Wan-Jiun Chen (Chinese Culture University)

Min-Hui Ke (National Taipei University)

14:25 – 16:25

Parallel Session II5th-11th Conference Rooms**2A****Green Economy II**

Room 519

Session Chair: Zhenyu Zhang (Shanghai Ocean University)

*Estimating Green Net National Product for Puerto Rico: An Economic Measure of Sustainability***Shanshan Wu** (Zhongnan University of Economics and Law)

Matthew T. Heberling (US Environmental Protection Agency)

Discussant: **Chang-Erh Chou***Regional Sulfur Dioxide Emissions: Will We Fail in the Goal?***Xue Tan** (Renmin University of China)

Yazong Mai (Renmin University of China)

Zhe yang (Renmin University of China)

Lei Shi (Renmin University of China)

Zhong Ma (Renmin University of China)

Discussant: **Yukiko Omata***Low-Carbon Economy of Shanghai Agricultural Carbon Emission, Abatement and Decoupling Elasticity***Zhenyu Zhang** (Shanghai Ocean University)Discussant: **Shanshan Wu**

14:25 – 16:25 **Parallel Session II**5th-11th Conference Rooms**2B Energy Efficiency**

Room 525

Session Chair: Xing Zhao (Renmin University of China)

*Taiwan's Changing Energy Intensity Trend - A Decomposition Analysis***Wei-Hong Hong** (Institute of Nuclear Energy Research)

Fu-Kuang Ko (Institute of Nuclear Energy Research)

Discussant: **Satoshi Honma***Metafrontier Analysis for Energy Efficiency of Regions in Japan***Satoshi Honma** (Tokai University)

Jin-Li Hu (National Chiao Tung University)

Discussant: **Yunchang (Jeffrey) Bor***Assessment of Rebound Effects in Response to Improved Energy Efficiency in Taiwan*

Szu-Chi Fu (National Cheng Kung University)

Jung-Hua Wu (National Cheng Kung University)

Yun-Hsun Huang (Industrial Technology Research Institute)

Chia-Yon Chen (National Cheng Kung University)

Kuei-Yen Wu (National Cheng Kung University)Discussant: **Yusen Sung***Analysis of Environmental Efficiency, Energy-Saving and Emission-Reduction Potential of Thermoelectricity Power Generation in China Based on DEA Theory***Xing Zhao** (Renmin University of China)

Jing-You Wang (Renmin University of China)

Lei Shi (Renmin University of China)

Zhong Ma (Renmin University of China)

Discussant: **Jyh-Yih Hsu**

14:25 – 16:25

Parallel Session II

5th-11th Conference Rooms

2C

Climate Change I

Room 719

Session Chair: Shiro Takeda (Kyoto Sangyo University)

*A CGE Analysis of Introducing Carbon Tax in the East Asia Region***Xuemei Shen** (Chubu Region Institute for Social and Economic Research)Discussant: **Soocheol Lee***Urbanization and Lifestyle Trends in China: Implications for the Carbon Emissions Problem***Jun Li** (Curtin University)Discussant: **Li-Fen Lei***Estimating Mitigation Costs of Greenhouse Gas from Agricultural Production: A Korean Agricultural Sector Model Analysis*

Oh Sang Kwon (Seoul National University)

Hanbin Lee (Seoul National University)

Hye-Jung Kang (Chonnam National University)

Kyung-Won Park (Seoul National University)

Discussant: **Shi-Miin Liu***Labor Market Distortions and Welfare-Decreasing International Emissions Trading***Shiro Takeda** (Kyoto Sangyo University)

Toshi H. Arimura (Waseda University)

Makoto Sugino (Yamagata University)

Discussant: **Chung-Huang Huang**

14:25 – 16:25 **Parallel Session II**5th-11th Conference Rooms**2D Game Theory and Environment**

Room 802

Session Chair: Ken-Ichi Akao (Waseda University)

*Technology Licensing and Environmental R&D Investments:
Implications for Emission Tax Policies***Tsung-Hsiu Tsai** (National University of Kaohsiung)Discussant: **Yu-Hsuan Lin***International Environmental Agreements with Full Participation in
the Case of Ancillary Benefit: Repeated Game Analysis***Nobuyuki Takashima** (Kyushu University)Discussant: **Hsiao-Chi Chen***Altruism in a Climate Coalition Game: Theory and Experimental
Evidence***Yu-Hsuan Lin** (Catholic University of Korea)Discussant: **Nobuyuki Takashima***An Economic Analysis of the "Home Appliance Eco-Point System"
in Japan***Ken-Ichi Akao** (Waseda University)Discussant: **Tsung-Hsiu Tsai**

14:25 – 16:25

Parallel Session II5th-11th Conference Rooms**2E Ecosystem**

Room 901

Session Chair: Yu-Lan Chien (National Taipei University)

*Spatial Valuation of Forests Environmental Assets: An Application to Andalusia Silvopastoral Farms***Paola Ovando Pol** (London School of Economics and Political Science)

Alejandro Caparrós (Spanish National Research Council)

Luis Díaz-Balteiro (Technical University of Madrid)

María Pasalodos (National Institute for Agricultural and Food Research and Technology)

José L.Oviedo (Spanish National Research Council)

Gregorio Montero (National Institute for Agricultural and Food Research and Technology)

Pablo Campos (Spanish National Research Council)

Discussant: **Sittidaj Pongkijvorasin***Roles of Incentive Scheme in Farmer's Decision to Reduce Highland Maize Farming***Sittidaj Pongkijvorasin** (Chulalongkorn University)

Khemarat Talerngsri (Chulalongkorn University)

Discussant: **Hisako Nomura***The Carbon Footprint And Carbon Neutral of Landscape Architecture - A Case of HouseStyle Community Patterns in Cheng-Gong Segments, Longtan, Taoyuan City***Yue-Rong Hong** (National Taipei University)

Chien-Ming Lee (National Taipei University)

Chen-Chung Hsu (National Taipei University)

Discussant: **Yung-Shuen Shen***Valuing Ecosystem Services of Taiwan's Jon-Hua Coastal Wetland with Integrating Contingent Valuation Method and Conjoint Analysis Method***Yu-Lan Chien** (National Taipei University)Discussant: **Katsuya Tanaka**

14:25 – 16:25	Parallel Session II	5 th -11 th Conference Rooms
2F	Waste and Recycling	Room 1101
	Session Chair: Tatsuo Suwa (Yamaguchi University)	
	<i>Dilemma between Proper Treatment of Waste: Optimal Number of Incinerators</i>	
	Masashi Yamamoto (University of Toyama)	
	Discussant: Kwo-Dong Wey	
	<i>Trust and Leadership in a Community-Based Recycling Activity: A Field Experiment</i>	
	Alin Halimatussadiah (University of Indonesia)	
	Diah Widyawati (University of Indonesia)	
	Discussant: Chiung-Ting Chang	
	<i>Spatial Distribution of Disposal Sites: Empirical Evidence from Japan</i>	
	Yuichi Ishimura (Kobe University)	
	Kenji Takeuchi (Kobe University)	
	Discussant: Tatsuo Suwa	
	<i>Estimating the Relationship between Unit-Based Garbage Pricing and Municipal Solid Waste Generation: A Multivariate Double-Selection Approach</i>	
	Tatsuo Suwa (Yamaguchi University)	
	Takehiro Usui (Soka University)	
	Discussant: Yen-Lien Kuo	
16:25 – 16:40	Coffee Break	4 th floor Lobby, HSSB
16:40 – 17:40	Keynote Speech II	4 th floor International Conference Hall, HSSB
	Session Chair: Akihisa Mori	
	<i>Global Energy: Options and Implications</i>	
	Paul Ekins (University College London)	
18:00 –	Charter buses are served in front of the HSSB	
18:00 – 21:00	Conference Dinner	Howard Plaza Hotel
20:30 – 21:30	EAAERE BOD Meeting	Howard Plaza Hotel

Friday, August 7

08:30 – 17:00 **Registration** 4th floor Lobby, HSSB

09:30 – 11:00 **Parallel Session III** 5th-11th Conference Rooms

3A Green Economy III

Room 519

Session Chair: Chin Wen Yang (Taiwan Research Institute)

Environmental Injustice Consequences of a Clean Air Law

Yanay Farja (Tel-Hai College)

Discussant: **Daigee Shaw**

*Modeling and Forecasting the Malaysian GDP and Green GDP:
A Comparative Analysis*

Abdul Samad Abdul Rahim (Universiti Putra Malaysia)

Abd Wahob Noraida (Universiti Putra Malaysia)

Discussant: **Sunhee Suk**

Indicators to Measure Industrial Transition and Greening

Chin Wen Yang (Taiwan Research Institute)

Discussant: **Lih-Chyi Wen**

3B Valuation II

Room 525

Session Chair: Andy Choi (National Institute of Ecology)

*Estimating Social Costs of Foot-and-Mouth Disease Outbreak in
Korea: An Equilibrium Displacement Model Approach*

Honglim Lee (Seoul National University)

Oh Sang Kwon (Seoul National University)

Discussant: **Hen-I Lin**

*The Willingness to Accept for Agriculture Sustainability: A Choice
Experiment Study in the Hani Terraces*

Ying Xiong (Renmin University of China)

Moucheng Liu (Chinese Academy of Science)

Discussant: **Andy Choi**

*Economic Valuation of Voluntary Carbon Offsets: Comparison
between Domestic and International Flights*

Andy Choi (National Institute of Ecology)

Discussant: **Hisako Nomura**

09:30 – 11:00

Parallel Session III

5th-11th Conference Rooms

3C

Energy Policies

Room 719

Session Chair: Budy P. Resosudarmo (Australian National University)

*Research Note: Re-Examining a Role of Electricity Retailers***Eiji Sawada** (Kyushu Sangyo University)Discussant: **Hsiao-Chi Chen***Benefit-Cost Analysis of Phasing out Coal in Power Plants and for Household Usage: An Empirical Analysis of The Chinese Action Plan Applied in Beijing*

Yana Jin (Peking University)

Henrik Andersson (Toulouse School of Economics, France)

Shiqiu Zhang (Peking University)

Presented by: **Dongyang Zhao** (Peking University)Discussant: **Je-Liang Liou***Energy Policy Reform with in the ASEAN Economic Community***Budy P. Resosudarmo** (Australian National University)

Ditya A. Nurdianto (Indonesian Ministry of Foreign Affairs)

Discussant: **Orapan Nabangchang**

09:30 – 11:00

Parallel Session III5th-11th Conference Rooms**3D Energy Prices**

Room 802

Session Chair: Ron Shadbegian (National University of Singapore)

*Should LNG Pricing be Oil-Indexed or Gas-Indexed? A Perspective from the Predictability of Value at Risk (VaR)***Hui-Chih Chai** (Institute of Nuclear Energy Research)

Fu-Kuang Ko (Institute of Nuclear Energy Research)

Discussant: **Yoshiaki Ushifusa***A Comparison of Electricity-Pricing Schemes for an Electricity-Deregulating Economy*

Bin-Tzong Chie (Tamkang University)

Ming-Feng Hung (Tamkang University)

Huei-Chu Liao (Tamkang University)

Discussant: **Suyi Kim***Do Renewable Portfolio Standards Affect Manufacturing Activity through Higher Electricity Prices?*

Ann E. Ferris (U.S. EPA – National Center for Environmental Economics)

Ann Wolverton (U.S. EPA – National Center for Environmental Economics)

Ron Shadbegian (National University of Singapore)

Wayne Gray (Clark University and NBER)

Discussant: **Jeong Hwan Bae**

09:30 – 11:00

Parallel Session III

5th-11th Conference Rooms**3E Energy Planning**

Room 901

Session Chair: Chien-Ming Lee (National Taipei University)

*Regional-Scale Electricity Planning Incorporating Demand Uncertainty - A Two Stage Stochastic Programming Approach***Yun-Hsun Huang** (Industrial Technology Research Institute)

Jung-Hua Wu (National Cheng Kung University)

Yu-Ju Hsu (National Cheng Kung University)

Discussant: **Yoomi Kim***Modelling the Power Sector in East Asia: Economic and Environmental Impacts by Choices of Power Sources***Yuki Ogawa** (Kyoto University)

Jean-Francois Mercure (Cambridge Centre of Climate Change Mitigation Research)

Soocheol Lee (Meiji University)

Hector Pollitt (Cambridge Econometrics)

Discussant: **Chien-Ming Lee***The Study of Optimal Electricity Portfolio Panning in Taiwan: Apply Portfolio Theory***Chien-Ming Lee** (National Taipei University)

Kuan-Chen Lee (National Taipei University)

Discussant: **Yuki Ogawa**

09:30 – 11:00	Parallel Session III	5 th -11 th Conference Rooms
3F	Behavior and Environment	Room 1101
	Session Chair: Toshi H. Arimura (Waseda University)	
	<i>Air Quality and Life Satisfaction : The Role of Perceived Health Status</i>	
	Pei-Shan Liao (Academia Sinica)	
	Daigee Shaw (Academia Sinica)	
	Yih-Ming Lin (National Chiayi University)	
	Discussant: Bianka Shoai Tehrani	
	<i>An Evidence of Updating Risk Perception: 2008 Great Flood Effect on Property Value in Des Moines</i>	
	Donggyu Yi (Korea Institute of Public Finance)	
	Discussant: Toshi H. Arimura	
	<i>Acceptance of the Nuclear Power Generation, Knowledge in Environmental Issues and Energy Saving Behaviors in Japan: An Empirical Study with Micro Data</i>	
	Yukiko Omata (Waseda University)	
	Hajime Katayama (Waseda University)	
	Toshi H. Arimura (Waseda University)	
	Discussant: Chao-Ning Liao	
11:00 – 11:15	Coffee Break	4 th floor Lobby, HSSB
11:15 – 12:15	Keynote Speech III	4 th floor International Conference Hall, HSSB
	Session Chair: Daigee Shaw	
	<i>Global Environmental Risks - Some Observations on the Economics of Pandemics</i>	
	Jason F. Shogren (University of Wyoming)	
12:15 – 13:25	Lunch	4 th floor Recreation Hall, HSSB

13:25 – 14:15

Poster Session II4th floor Poster Area, HSSB

Session Chair: Shi-Miin Liu (National Taipei University)

Measuring Production Efficiency and Environmental Efficiency in China's ProvinceLevel: A By-Production Approach

Zuoxiang Zhao (University of Exeter)

Assessment of Public's Willingness to Pay for Solid Waste Management: Yangon, Myanmar

Mya Lwin Lwin Aung (EEPSEA)

The Impact of Collective Forest Right System Reform on Farmer's Management of Nontimber Forest Products - Based on the Monitor of Collective Forest Right System Reform in Liao Ning Province, China

Xiang Zhang (Beijing Forestry University)

Xuemei Jiang (Beijing Forestry University)

The Factor Analysis of Energy Efficiency in Taiwan's Services Sectors and Energy-Saving Strategies

Chi-Yuan Liang (Chung-Hua Institution for Economic Research)

Ruei-He Jheng (Chung-Hua Institution for Economic Research)

Kyein-Lwan Yan (Chung-Hua Institution for Economic Research)

Po-Yao Kuo (Chung-Hua Institution for Economic Research)

Wen-Hsiang Lin (Taiwan Green Production Foundation)

Environmental Quality and Economic Development: The Effect of Infant Mortality

Asuka Oura (Osaka University)

Cumulative Damage from the Fukushima Nuclear Disaster: An Example of Kawauchi Village

Fujiwara Haruka (Hitotsubashi University)

13:25 – 14:15 **Poster Session II** 4th floor Poster Area, HSSB
 Session Chair: Shi-Miin Liu (National Taipei University)

Estimating the Shadow Prices of SO₂ for China's Thermal Power Enterprises: A Directional Distance Function Approach
Xiaolan Chen (Sichuan University)

Willingness to Accept Compensation for Forest Protection: A Case Study in Dinh Hoa District, Northern Vietnam
Thi Thanh Ha Nguyen (University of Hamburg)
 Michael Köhl (University of Hamburg)
 Prem Raj Neupane (University of Hamburg)

14:15 – 15:45 **Parallel Session IV** 5th-11th Conference Rooms

4A Energy Economics and Valuation Room 519

Session Chair: Ching-Han Deng (Institute of Nuclear Energy Research)

Analysis of Consumers' Preferred Value on Eco-Information

Jung-Ah Hwang (Seoul National University)

Youkyoung Park (KAIST)

Yeonbae Kim (Seoul National University)

Discussant: **Masayuki Sato**

Consumer Valuation of Energy-Efficiency Investment: The Case of Vietnam's Air Conditioner Market

Shigeru Matsumoto (Aoyama Gakuin University)

Yukiko Omata (Waseda University)

Discussant: **Hsing-Chun Lin**

Scenario Analysis of Power Mix in Taiwan

Chia-Hao Liu (Institute of Nuclear Energy Research)

Ching-Han Deng (Institute of Nuclear Energy Research)

Chia-An Chang (Institute of Nuclear Energy Research)

Fu-Kuang Ko (Institute of Nuclear Energy Research)

Discussant: **Lei Zhu**

14:15 – 15:45 **Parallel Session IV**5th-11th Conference Rooms**4B****Thematic Session:**

Room 525

Economic Analysis of Dynamic Electricity Pricing y

Session Chair: Yoshiaki Ushifusa (University of Kitakyushu)

The Decision to Leave the House: Impacts of Dynamic Electricity Pricing

Arata Sakurai (NS Solutions Corporation)

Ayano Tokuhara (University of Kitakyushu)

Fumitaka Maruyama (NS Solutions Corporation)

Keiji Aramaki (IBM Japan, Ltd.)

Takaaki Kato (University of Kitakyushu)

Yoshiaki Ushifusa (University of Kitakyushu)

Discussant: **Jin-Xu Lin***Impacts of Dynamic Pricing on Electricity Bill and Energy Conservation*

Arata Sakurai (NS Solutions Corporation)

Fumitaka Maruyama (Research Association of Kitakyushu Smart Community Project)

Kazuo Iwano (Research Association of Kitakyushu Smart Community Project)

Keiji Aramaki (Research Association of Kitakyushu Smart Community Project)

Takaaki Kato (University of Kitakyushu)

Yoshiaki Ushifusa (University of Kitakyushu)Discussant: **II Chung Kim***Carbon Reduction Evaluation for Residential Smart Meters*

Allen H. Hu (National Taipei University of Technology)

Chin-Yao Huang (National Taipei University of Technology)

Lance H. Huang (National Taipei University of Technology)

Yi-Feng, Hsieh (National Taipei University of Technology)

Discussant: **Takashi Saito**

14:15 – 15:45

Parallel Session IV5th-11th Conference Rooms**4C Climate Change II**

Room 719

Session Chair: **Bianka Shoai Tehrani** (RITE)*Flood Risk Management and Adaptation Actions for Taipower Transmission System***King-Min Wang** (Chung-Hua Institution for Economic Research)Discussant: **Lei Shi***Climate Change and Farmland Use: A Multivariate Fractional Data Analysis*

Oh Sang Kwon (Seoul National University)

Hyunkyung Cho (Seoul National University)

Yunsun Park (Seoul National University)

Discussant: **King-Min Wang***Measuring the Impact of Climate Change on Human Well-Being through Life Quality Index***Bianka Shoai Tehrani** (RITE)

Keigo Akimoto (RITE)

Discussant: **Yih-Ming Lin****4D Environmental Policies Evaluation**

Room 802

Session Chair: **Rao Fu** (Renmin University of China)*The Cost of APEC BLUE: The Impact of Environmental Regulation on Labor Demand in China***Mengdi Liu** (Nanjing University)

Bing Zhang (Nanjing University)

Discussant: **Ron Shadbegian***Analysis of Water Environment Carrying Capacity Based on Water Quality and Quantity: A Case Study of Gucheng Lake Basin***Zhe Yang** (Renmin University of China)

Yazong Mai (Renmin University of China)

Xue Tan (Renmin University of China)

Tao Li (Renmin University of China)

Lei Shi (Renmin University of China)

Zhong Ma (Renmin University of China)

Discussant: **Abdul Samad Abdul-Rahim***The Comparative Study on Urban Domestic Sewage Treatment Plant Discharge Limits between America and China***Rao Fu** (Renmin University of China)

Song Guojun (Renmin University of China)

Discussant: **Alin Halimatussadiyah**

14:15 – 15:45 **Parallel Session IV**5th-11th Conference Rooms**4E Ecology and Environment**

Room 901

Session Chair: Ibrahim Alhulail (Kobe University)

Ecotourism: Good for Biodiversity Conservation and Community Well-Being? An Analysis of Nha Trang Bay Marine Protected Area in Vietnam

Pham Thi Thanh Thuy (Nha Trang University)Discussant: **Jian Wu**

The Cost-Effectiveness of Agri-Environmental Payments in Japan: An Integrated Modeling Approach

Yu Nagamatu (Nihon Suido Consultants Co., LTD)

Tomoya Kawaguchi (Nihon Suido Consultants Co., LTD)

Makoto Kimura (Nihon Suido Consultants Co., Ltd)

Hiroaki Somura (Shimane University)

Katsuya Tanaka (Shiga University)

Discussant: **Oh Sang Kwon**

Charging Infrastructure, Range Anxiety, and Sales of Electric Vehicle: Empirical Evidence from Japan

Ibrahim Alhulail (Kobe University)

Kenji Takeuchi (Kobe University)

Discussant: **Pham Thi Thanh Thuy**

14:15 – 15:45

Parallel Session IV5th-11th Conference Rooms**4F Renewable Resources I**

Room 1101

Session Chair: Mai Miyamoto (Kobe University)

*Comparing the Effects of Using Nuclear and Renewable Power on the CO2 Emissions, PM10 and Income***Yen-Lien Kuo** (National Cheng Kung University)

Chun-Li Tsai (National Cheng Kung University)

Jhe-Ming Guo (National Cheng Kung University)

Discussant: **Fu-Kuang Ko***Patent Quality of Renewable Energy Technology in OECD Countries***Mai Miyamoto** (Kobe University)

Kenji Takeuchi (Kobe University)

Discussant: **Jing-Tang Yang***Deployment of Renewable Energies in Taiwan within the TIMES Framework***Pei-Ling Wen** (Industrial Technology Research Institute)

Ching-Wei Kuo (Industrial Technology Research Institute)

Tzu-Yar Liu (Industrial Technology Research Institute)

Ming-Lung Hung (Industrial Technology Research Institute)

Discussant: **Kwo-Dong Wey**

15:45 – 16:00

Coffee Break4th floor Lobby, HSSB

16:00 – 17:30 **Parallel Session V**5th-11th Conference Rooms**5A Energy Economics**

Room 519

Session Chair: Dongyang Zhao (Peking University)

*An Ex-Ante Assessment of Energy Security in Taiwan***Chun-Chiang Feng** (National Central University)

Yun-Peng Chu (National Central University)

Shih-Mo Lin (Chun Yuan Christian University)

Discussant: **Zhenyu Zhang***Study on Taiwanese Energy Security in Terms of International Index of Energy Security*

Jong-Shun Chen (Institute of Nuclear Energy Research)

Yi-Tze Tsai (Institute of Nuclear Energy Research)

Chia-Yu Han (Institute of Nuclear Energy Research)

Fu-Kuang Ko (Institute of Nuclear Energy Research)

Discussant: **Shih-Mo Lin***Cost-Effectiveness Analysis of Coal-Fired Power Plants and Industrial Coal Boilers in China: A Study Based on Coal Quality and Technical Efficiency***Dongyang Zhao** (Peking University)

Yana Jin (Peking University)

Shiqiu Zhang (Peking University)

Discussant: **Takaaki Kato****5B Valuation III**

Room 525

Session Chair: Gi-Eu Lee (Michigan State University)

*Measuring Local Acceptance of Biorefineries: A Case Study from the State of Michigan***Gi-Eu Lee** (Michigan State University)

Scott Loveridge (Michigan State University)

Satish Joshi (Michigan State University)

Discussant: **Orapan Nabangchang***Abatement Performance Evaluation of Climate Policies in China - A Study based on an Integrated Assessment Model***Lei Zhu** (Chinese Academy of Sciences)

Pan Peng (Chinese Academy of Sciences & University of Chinese Academy of Sciences)

Ying Fan (Chinese Academy of Sciences)

Discussant: **Lih-Chyi Wen**

16:00 – 17:30

Parallel Session V5th-11th Conference Rooms**5C Cost and Energy-Intensity Estimations**

Room 719

Session Chair: Zenaída M. Sumalde (University of the Philippines Los Baños)

*The Effect of Allocative Inefficiency on CO₂ Abatement Costs for the Korean Steel Industry: A Shadow Cost Approach***Myunghun Lee** (Inha University)Discussant: **Jong Ho Hong***Energy Saving Technology Change: Intensive Margin Versus Extensive Margin***Tiefeng Qian** (Central University of Finance and Econom)Discussant: **Ming-Chung Chang***How Much Households in a Subwatershed Pay for Damages and Adaptation Strategies during Extreme Event?***Zenaída M. Sumalde** (University of the Philippines Los Baños)

Armand Christopher C. Rola (University of the Philippines Los Baños)

Karen P. Quilloy (University of the Philippines Los Baños)

Agnes C. Rola (University of the Philippines Los Baños)

Discussant: **Hajime Katayama****5D Ecosystem and Resources**

Room 802

Session Chair: Ahmad Luthfi (Hiroshima University)

*Driving Forces for Establishing Nature Reserves in China***Jian Wu** (Renmin University in China)

Yazhen Gong (Renmin University in China)

Junjie Wu (Oregon State University)

Discussant: **Ayumi Onuma***Spillover Effect of Soil and Groundwater Contaminated Sites on Property Value: Evidence from Taiwan***Je-Liang Liou** (Chung-Hua Institution for Economic Research)

Pei-Ing Wu (National Taiwan University)

Han-Huei Chen (National Taipei University)

Discussant: **Hyungna Oh***Trapped in Resource Curse after Survived; Oil Price and Indonesian Macroeconomic Relation after Asian Crisis***Ahmad Luthfi** (Hiroshima University)Discussant: **Budy P. Resosudarmo**

16:00 – 17:30

Parallel Session V5th-11th Conference Rooms**5E Climate Change and ODA Funding**

Room 901

Session Chair: Akihisa Mori (Kyoto University)

*Impacts of Green ODA, Economic Growth, and Corruption on Climate Change***Jeong Hwan Bae** (Chonnam National University)Discussant: **Akihisa Mori***Estimating Damage Costs of Natural Disasters in Korea*

Jong Ho Hong (Seoul National University)

Miyeon Lee (Seoul National University)Discussant: **Jung-Ah Hwang***How Different Multilateral Implementing Entity Affects Outcomes in Adaptation Funding: UNDP and UNEP Adaptation Funding in Cambodia***Akihisa Mori** (Kyoto University)Discussant: **Desheng Huang****5F Renewable Resources II**

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Session Chair: Jin-Xu Lin (Chung Yuan Christian University)

*The Construction and Simulation of Adaptive Smart Grid with Micro-Grid under High Percentage of Renewable Energy Policy***Shao-Pin Hung** (National Taipei University)

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Discussant: **Kwo-Dong Wey***The Analysis on Renewable Energy Development in China***Lei Zhang** (University of Kitakyushu / Sino-Japan Friendship Centre for Environmental Protection)

Toru Matsumoto (University of Kitakyushu)

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Discussant: **Daniel Johnson***Feasibility of Taiwan's Offshore Wind Power Development*

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Discussant: **Ta-Hui Lin****End of the conference. Thanks so much for coming.**

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