

The 20th AIM International Workshop

January 23-25, 2015
Ohyama Memorial Hall, NIES
Tsukuba, Japan

DAY 1, January 23, 2015 (Friday)

- 10:00-10:35 Session 1: Opening Session**
Chairperson: Dr. Toshihiko Masui (NIES, Japan)
- 10:00-10:10 Welcome Address
 Dr. Toshihiko Masui (NIES, Japan)
- 10:10-10:20 Opening Speech
 Ms. Hiromi Masuda (MoEJ, Japan)
- 10:20-10:35 Activity in FY2013-2014 and research plan in FY2015
 Dr. Toshihiko Masui (NIES, Japan)
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- 10:35-12:10 Session 2: Toward COP21 in Paris: INDCs**
Chairperson: Dr. Toshihiko Masui (NIES, Japan)
- 10:35-10:40 Purpose of this session
 Dr. Toshihiko Masui (NIES, Japan)
- 10:40-11:35 Presentation from each country (5 minutes for each country)
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| Japan | Dr. Junichi Fujino (NIES, Japan) |
| China | Dr. Kejun Jiang (ERI, China) |
| India | Prof. P. R. Shukla (IIM, India) |
| Korea | Prof. Dong Kun Lee (SNU, Korea) and Prof. Tae Yong Jun (KDI, Korea) |
| Thailand | Prof. Bundit Limmeechokchai (SIIT, Thailand) |
| Indonesia | Prof. Rizaldi Boer (IPB, Indonesia), Prof. Retno Gumilang Dewi and Prof. Ucock WR Siagian (ITB, Indonesia) |
| Malaysia | Prof. Chin Siong Ho (UTM, Malaysia) |
| Vietnam | Dr. Tung Lam (ISPONRE, Vietnam) |
| Nepal | Prof. Ram Shrestha (AITM, Nepal) |
| Cambodia | Mr. Hak Mao (Ministry of Environment, Cambodia) |
| USA | Dr. Jae Edmonds (PNNL, USA) |
- 11:35-12:10 Discussion
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- 12:10-13:10 Lunch Break**

* indicates the poster to be voted.

shows display only.

- ① Designing low carbon land-use scenarios for Indonesia
Dr. Toni Bakhtiar (IPB, Indonesia)
- ② Reducing agricultural expansion into forests in Central Kalimantan Case
Dr. Muhammad Ardiansyah (IPB, Indonesia)
- ③ [Title]
Dr. Tania June (IPB, Indonesia)
- ④* [Title]
Mr. Bintang Budi Yuwono (ITB, Indonesia)
- ⑤* [Title]
Ms. Rias Parinderati (ITB, Indonesia)
- ⑥* [Title]
Mr. Iwan Hendrawan (ITB, Indonesia)
- ⑦* Post-2020 Mitigation for Thailand and the Road Ahead
Dr. Sujeetha Selvakkumaran (SIIT, Thailand)
- ⑧* A Design of Low Carbon Development Action of Cambodia towards 2050: Focused on Energy Policy
Mr. Hak Mao (Kyoto Univ., Japan and Ministry of Environment, Cambodia)
- ⑨* Assessing Climate Change Impact for Forest Sector Considering Uncertainties -Case Studies for Landslides and Biomass -
Mr. Ho Gul Kim, Mr. Sun Yong Sung, Prof. Dong Kun Lee (SNU, Korea)
- ⑩* Development of Climate Change Impact and Vulnerability Assessment Integrated Model for the Korean Environmental Spatial Planning Strategy -Establishing the Initial Conceptual Structure-
Dr. Jonghoon Park, Mr. Sunyong Sung, Mr. Yongwon Mo, Mr. Hyomin Kim, and Mr. Hogul Kim and Prof. Dong Kun Lee (SNU, Korea)
- ⑪* GHG and Air Pollution Emissions in Korea, 2010-2100 -Focused on Transport Sector-
Mr. Jin Han Park, Prof. Dong Kun Lee, Mr. Mi Jin Lee, Mr. Sun Yong Sung, Mr. Yong Won Mo, Mr. Ho Gul Kim (SNU, Korea), Prof. Tae Yong Jung (KDI School, Korea), Mr. Sang Kyun Kim, Mr. Sung Chul Hong (NIER, Korea) and Dr. Chan Park (NIES, Japan)
- ⑫* GHG and air pollution emissions in Korea, 2010~2100 -Focused on Commercial Sector-
Mr. Mi Jin Lee, Prof. Dong Kun Lee, Mr. Jin Han Park, Mr. Sun Yong Sung, Mr. Yong Won Mo, Mr. Ho Gul Kim (SNU, Korea), Prof. Tae Yong Jung (KDI School, Korea), Mr. Sang Kyun Kim, Mr. Sung Chul Hong (NIER, Korea) and Dr. Chan Park (NIES, Japan)
- ⑬* Proposal of a Low Carbon City study for Haiphong, Vietnam
Dr. Thai Hoa Nguyen (Kyoto Univ., Japan)
- ⑭* Analysis on Incorporating Household Lifestyle into EXSS Model
Dr. Biying Yu (Kyoto Univ., Japan)
- ⑮* Development of a Map of the Spatial Distribution of Global Electricity Demand
Dr. Diego Silva Herran (NIES, Japan)
- ⑯* Achieving Copenhagen Target through Carbon Emission Trading: Economic Impacts

Assessment in Guangdong Province of China.

Dr. Hangchen Dai (NIES, Japan)

⑰* Impacts of Low-Carbon Technologies for the Chinese Residential Sector at Provincial-Level

Dr. Rui Xing (NIES, Japan)

⑱* Potential GHG and Air-Pollutant Emission Pathway in the Korean Residential Sector under RCP-SSP Scenarios

Dr. Chan Park (NIES, Japan)

⑲* Assessing Air quality Co-benefits from Climate Change Mitigation Policies in the Transport Sector: Sub-National Level Analysis

Dr. Shivika Mittal (NIES, Japan)

⑳* Comparison of Municipal Scale Energy System Analysis

Dr. Hiroto Shiraki (NIES, Japan)

㉑* Barriers and Policy Instruments for Energy Efficiency Improvement in Designated Buildings under Thailand's NAMAs

Ms. Yumiko Asayama (NIES, Japan)

㉒* [Title]

Ms. Maiko Suda (NIES, Japan)

㉓* Urban Energy Systems and Their Increasing Importance in Global Long-term Energy Strategies

Ms. Miho Kamei (NIES, Japan)

㉔* Simulate Shared Socioeconomic Pathways (SSPs) by Using DICE

Dr. Xuanming Su (NIES, Japan)

㉕# Papers published in 2014 (including in press)

Dr. Naota Hanasaki (NIES, Japan)

㉖ Quantitative Analysis of Differences in Humidity among GCMs and Propagation of Uncertainty into Irrigational Water Withdrawal

Dr. Yoshimitsu Masaki (NIES, Japan)

㉗* Adaptation Pathways to Maintain Global Wheat Production through the 21st Century

Dr. Akemi Tanaka (NIES, Japan)

14:10-16:10 Session 4: JCM

Chairperson: Mr. Go Hibino (MHIR, Japan)

14:10-14:25 Presentation from Indonesia, IPB

Prof. Rizaldi Boer, Dr. Lukytawati Anggraeni, Dr. Toni Bakhtiar,
Dr. Muhammad Ardiansyah, and Dr. Tania June (IPB, Indonesia)

14:25-14:40 End-Use Model for Indonesia Low-Carbon Development Pathways in Energy Sector

Prof. Retno Gumilang Dewi, Prof. Ucok WR Siagian, Mr. Bintang Budi Yuwono,
Ms. Rias Parinderati, Mr. Iwan Hendrawan (ITB, Indonesia)

14:40-14:55 Thailand NAMA Roadmap, INDC and Peak CO₂ Scenarios in 2050

Prof. Bundit Limmeechokchai, Dr. Sujeetha Selvakkumaran (SIIT, Thailand) and
Dr. Chontichaprin Nithitsuttibuta (ONEP, Thailand)

14:55-15:10 Analyses of Some Low Carbon Scenarios: Case of Nepal

Prof. Ram Shrestha (AITM, Nepal)

15:10-15:25 Realization of Blueprint for LCS in Malaysia

Prof. Chin Siong Ho (UTM, Malaysia)

- 15:25-15:40 Development of a Low Carbon Scenario for Waste Sector in Vietnam
Dr. Tung Lam Nguyen (ISPONRE, Vietnam)
- 15:40-15:55 Ho Chi Minh City AIM Team -Studies on Emission Inventory
Prof. Tuan Nguyen Dinh (HCMUNRE, Vietnam)
- 15:55-16:10 Discussion
- 16:10-16:30 Coffee Break with Photo Session**
- 16:30-17:30 Session 5: Research on Mitigation in Local Scale**
Chairperson: Prof. Koji Shimada (Ritsumeikan Univ., Japan)
- 16:30-16:45 Progress of SATREPS in FY2014
Dr. Junichi Fujino (NIES, Japan)
- 16:45-17:00 Local low carbon development initiatives in Fukushima
Dr. Kei Gomi (NIES, Japan)
- 17:00-17:15 Impact Assessment of Carbon Emission Trading Scheme in Guangdong China
Prof. Daiqing Zhao, Dr. Peng Wang (GIEC-CAS, China) and
Dr. Hangcehn Dai(NIES, Japan)
- 17:15-17:30 Discussion
- 18:30-20:30 Reception**

DAY 2, January 24, 2015 (Saturday)

- 9:00-10:20 Session 6: Impact and Adaptation Studies (1)**
Chairperson: Dr. Kiyoshi Takahashi (NIES, Japan)
- 9:00-9:15 Development of Impact and Adaptation Assessment Model to Support Adaptation Decision-Making
Dr. Huicheul Jung (KEI, Korea)
- 9:15-9:30 Development of Natural Capital Valuation for Decision-Making Process
Dr. Seongwoo Jeon (KEI, Korea)
- 9:30-9:45 Utilization of Seasonal Climate Predictions for the Application Fields
Dr. Yonghee Shin (APCC, Korea)
- 9:45-10:00 Development of a New Type of Crop Model for Impact Assessment of Global Warming
Prof. Yuji Masutomi (Ibaraki Univ., Japan)
- 10:00-10:20 Discussion
- 10:20-10:50 Coffee Break**
- 10:50-12:10 Session 7: Impact and Adaptation Studies (2)**
Chairperson: Dr. Yasuaki Hijioka (NIES, Japan)
- 10:50-11:05 Recent Activities of NIES AIM/Impact Team and Global Climate Risk Analyses
Dr. Kiyoshi Takahashi (NIES, Japan)
- 11:05-11:20 Assessment of Comprehensive Impacts and Effectiveness of Adaptation Measures in Japan
Dr. Yasuaki Hijioka (NIES, Japan)
- 11:20-11:35 Climate Change Impacts on Agriculture: Regional Economic Adaptation through 2050
Dr. Ron Sands (USDA, USA)
- 11:35-11:50 Scenarios for the Risk of Hunger in the Twenty-first Century using Shared Socioeconomic Pathways
Dr. Tomoko Hasegawa (NIES, Japan)
- 11:50-12:10 Discussion
- 12:10-13:10 Lunch Break**
- 13:10-14:10 Session 8: Modeling toward the Next Direction**
Chairperson: Dr. Mikiko Kainuma (NIES, Japan)
- 13:10-13:30 The Global Change Assessment Model (GCAM)
Dr. Jae Edmonds (PNNL, USA)
- 13:30-14:10 Deployment of AIM Approach of Regional Low Carbon Development to Asian Region
Prof. Yuzuru Matsuoka (Kyoto Univ., Japan)
- 14:10-14:30 Coffee Break**

- 14:30-15:45 Session 9: Integrated Assessment Modeling in Asia and Japan (1)**
Chairperson: Dr. Tatsuya Hanaoka (NIES, Japan)
- 14:30-14:45 Overview of S-12-2 Project and Progresses in FY2014: Assessing Emissions of Long-Lived GHGs and Short-Lived Climate Pollutants in Asia
Dr. Tatsuya Hanaoka (NIES, Japan)
- 14:45-15:00 Recent Progress of Air Pollution Modelling for co-benefit estimation
Prof. Gakuji Kurata (Kyoto Univ., Japan)
- 15:00-15:15 Estimating GHG and Air Pollutant with SSP Scenario: Case Study of Republic of Korea
Prof. Dong Kun Lee (SNU, Korea); Tae Yong Jung (KDI School, Korea),
Dr. Chan Park (NIES, Japan), Mr. Jin Han Park (SNU, Korea),
Mr. Sang Kyun Kim and Mr. Sung Chul Hong (NIER, Korea)
- 15:15-15:30 ERI's Research Activities in 2014
Dr. Kejun Jiang, Prof. Xiulian Hu (ERI, China), Dr. Hangchen Dai and
Dr. Rui Xing (NIES, Japan)
- 15:30-15:45 Discussion
- 15:45-16:05 Coffee Break**
- 16:05-17:20 Session 10: Integrated Assessment Modeling in Asia and Japan (2)**
Chairperson: Dr. Toshihiko Masui (NIES, Japan)
- 16:05-16:20 A Bottom-up Modelling Analysis of Indian Coal Sector
Dr. Manmohan Kapshe (MANIT, India)
- 16:20-16:35 Integrated Assessment Modelling Activities in India in 2014-15
Prof. P. R. Shukla (IIM, India) and Dr. Shivika Mittal (NIES, Japan)
- 16:35-16:50 Research Project on Reviewing Longterm Mitigation Pathways and Strategies toward LCS in Japan
Dr. Shuichi Ashina (NIES, Japan)
- 16:50-17:05 Feasibility of Iron Scrap Recycling with Considering Demand-Supply Balance
Dr. Reina Kawase (Kyoto Univ., Japan)
- 17:05-17:20 Discussion
- 17:20-17:30 Session 11: Closing Session**
Chairperson: Dr. Toshihiko Masui (NIES, Japan)
- 17:20-17:30 Closing address
Dr. Mikiko Kainuma (NIES, Japan)
- 18:00-20:00 Dinner**

DAY 3, January 25, 2015 (Sunday)

9:00-10:00 Malaysia

10:00-11:00 Thailand and Nepal

11:00-12:00 Indonesia

12:00-13:00 Lunch break

13:00-14:00 HCMC

14:00-15:00 China

15:00-16:00 India