

The 22nd AIM International Workshop

December 9-11, 2016
Ohyama Memorial Hall, NIES
Tsukuba, Japan

DAY 1, December 9, 2016 (Friday)

- 8:30** **Bus will leave Hotel Okura.**
- 8:45-9:00** **Registration**
- 9:00-9:20** **Session 1: Opening Session**
Chairperson: Dr. Toshihiko Masui (NIES, Japan)
- 9:00-9:20 Welcome address and overall activities in FY2015-2016 and future research plan
Dr. Toshihiko Masui (NIES, Japan)
- 9:20-10:40** **Session 2: Implementation of Paris Agreement (1)**
Chairperson: Dr. Toshihiko Masui (NIES, Japan)
- 9:20-9:35 IPCC AR6 Cycle: Status and Milestones (with focus on IPCC WGIII)
Prof. P. R. Shukla (IIM, India)
- 9:35-9:50 The Climate Consequences of Paris
Dr. Jae Edmonds (PNL, USA)
- 9:50-10:10 Implications of the Paris agreement in the context of long, med and short-term policies
AIM/CGE related model activity
Dr. Shinichiro Fujimori (NIES, Japan)
- 10:10-10:25 Discussion
- 10:25-10:50** **Coffee Break**
- 10:50-12:10** **Session 3: Roadmap toward low carbon Asia (1)**
Chairperson: Mr. Tomoki Ehara (E-konzal, Japan)
- 10:50-11:05 Roadmap toward Low Carbon Asia: Thailand's NDCs Roadmap
Prof. Bundit Limmeechokchai (Thammasat University, Thailand)
- 11:05-11:20 Deep Decarbonizing AFOLU Sector in Indonesia
Prof. Rizaldi Boer (IPB, Indonesia)
Low-carbon energy development in Indonesia in alignment with its INDC by 2030
Prof. Retno Gumilang Dewi and Prof. Ukok Welo Risma Siagian (ITB, Indonesia)
- 11:20-11:35 Promoting low carbon by decarbonisation urban development in Malaysia. S2A approach
Prof. Chin Siong Ho (UTM, Malaysia)
- 11:35-11:50 Low carbon development with INDC targets and carbon tax in selected sectors of Nepal
Prof. Ram Manohar Shrestha (AITM, Nepal)
- 11:50-12:10 Discussion
- 12:10-12:15** **Photo Session**
- 12:15-13:10** **Lunch Break**

13:10-14:10 Session 4: Poster session

* indicates the poster to be voted.

- (1) The health benefits of developing renewable energy in China towards 2030
*Dr. Hancheng Dai (NIES, Japan)
- (2) Evaluating energy efficiency in China's service sector: Current situation and future scenario
*Dr. Rui Xing (NIES, Japan)
- (3) Emission pathways to achieve 2.0 and 1.5 °C climate targets
*Dr. Xuanming Su (NIES, Japan)
- (4) Evaluation of the reduction of electricity demand in Japan after the 2011 Tohoku earthquake
*Dr. Keita Honjo (NIES, Japan)
- (5) Socio-economic drivers in SSP2 and future challenges of 1.5 degree target
*Dr. Jingyu Liu (NIES, Japan)
- (6) How do transport behavior and policy affect mitigation potential and cost? A simulation by AIM/Transport model
*Dr. Runsen Zhang (NIES, Japan)
- (7) Estimation of the economic cost of heatstroke prevention under various climatic/socioeconomic conditions
*Dr. Junya Takakura (NIES, Japan)
- (8) An analysis on hypothetical shocks representing cooling water shortage using a commutable general equilibrium model
*Dr. Qian Zhou (NIES, Japan)
- (9) Estimate of regional impacts of adaptation policies and sand erosion damage by climate change
*Dr. Hiroshi Sao (NIES, Japan)
- (10) Socio-economic changes of stabilization scenarios considering global temperatures targets in the long term
*Dr. Diego Silva (JAMSTEC, Japan)
- (11) Estimating the hourly electricity profile of Japanese households for improving the accuracy of integrated assessment model
*Dr. Hiroto Shiraki (The University of Shiga Prefecture, Japan)
- (12) Potential impacts of climate change on agriculture and fisheries in Aomori Prefecture
-- First-year results of a research project at Hirosaki University
Dr. Yoshimitsu Masaki and Prof. Yukihiko Nojiri (Hirosaki University, Japan)
- (13) Health and economic impact of ozone pollution in China
*Ms. Yang Xie (TokyoTech, Japan)
- (14) Research proposal: An integrated assessment of circular economy policies for energy intensive industries in China
*Mr. Gen Li (TokyoTech, Japan)
- (15) Impact of mitigation action in Indonesia towards 2030
*Ms. Marissa Malahayati (TokyoTech, Japan)
- (16) Indonesia NDC Assessment of impacts in climate change mitigation policy
*Mr. Bintang Budi Yuwono (ITB, Indonesia)
- (17) Introduction to the project "Integrated assessment of economic impacts of climate change" in China
*Dr. Biying Yu (BIT, China)

14:10-14:30 Coffee Break

14:30-15:50	Session 5: Roadmap toward low carbon Asia (2) Chairperson: Dr. Tatsuya Hanaoka (NIES, Japan)
14:30-14:45	Moving toward a transition future in China: Integrated assessment on the low carbon future Prof. Xiulian Hu and Prof. Kejun Jiang (Energy Research Institute, China)
14:45-15:00	Marginal abatement cost of CO2 mitigation options for the residential sector in Korea Prof. Chan Park (University of Seoul, Korea) and Prof. Tae Yong Jung (Yonsei University, Korea)
15:00-15:15	Realizing the INDC: The role of renewable energies in Vietnam Dr. Thanh Tu Tran (Vietnam National University, Vietnam)
15:15-15:30	The efforts of Taiwan to achieve INDC target: An investigation on its regional carbon trading system Dr. Yi-Hua Wu (ITRI, Taiwan)
15:30-15:50	Discussion
15:50-16:10	Coffee Break
16:10-17:30	Session 6: New regional scenario development in Asia Chairperson: Dr. Junichi Fujino (NIES, Japan)
16:10-16:25	Low carbon development scenarios in cities of Vietnam -cases of Da Nang and Hai Phong cities Dr. Tung Lam Nguyen (ISPONRE, Vietnam) and Dr. Thai Hoa Nguyen (Ritsumeikan Univ., Japan)
16:25-16:40	Smart city initiative in India: Addressing climate change concerns Prof. Manmohan Kapshe (Maulana Azad National Institute of Technology, India) and Prof. Aashish Deshpande (National Institute of Technical Teachers' Training and Research, India)
16:40-16:55	Impacts of carbon reduction policy on air pollutant emissions in Guangdong province of China Prof. Daiqing Zhao and Dr. Peng Wang (GIEC, CAS, China)
16:55-17:10	Integrated space-energy modeling for sustainable development in Fukushima Dr. Kei Gomi (NIES, Japan)
17:10-17:30	Discussion
17:30-17:45	Session 7: Implementation of Paris Agreement (2) Chairperson: Dr. Junichi Fujino (NIES, Japan)
17:30-17:45	Technology optimism is not enough: Some considerations on the difficulty of triggering low-carbon transition in France (Skype) Dr. Julien Lefevre (CIRED, France)
18:30-20:30	Dinner at Chimney Ghiotto close to NIES
20:45	Bus will leave NIES

DAY 2, December 10, 2016 (Saturday)

8:30 **Bus will leave Hotel Okura**

9:00-10:20 **Session 8: Climate change and SLCP scenarios**

Chairperson: Prof. Koji Shimada (Ritsumeikan Univ., Japan)

9:00-9:15 Cobenefits and tradeoffs of reducing GHGs, SLPCs, Air Pollutants emissions when exploring the 2 degree target scenarios

Dr. Tatsuya Hanaoka (NIES, Japan)

9:15-9:30 SLCP emission from residential sector and its impact in Asia

Prof. Gakuji Kurata (Kyoto University, Japan)

9:30-9:45 Influence of future climate and emissions on air quality in Northeast Asia: Recent and ongoing studies of Korea

Dr. Hyeon-Kook Kim and Dr. Sung-Chul Hong (NIER, Korea)

9:45-10:00 Study on CH₄ emission and reduction potential in waste treatment of China

Dr. Zhanyun Ma (CRAES, China)

10:00-10:20 Discussion

10:20-10:40 **Coffee Break**

10:40-11:40 **Session 9: Progress of AIM modeling**

Chairperson: Dr. Yasuaki Hijioaka (NIES, Japan)

10:40-10:55 Modelling for low carbon lifestyle in Japan

Dr. Yuko Kanamori (NIES, Japan)

10:55-11:10 Development of multi-layered regional integrated modeling system

Dr. Shuichi Ashina (NIES, Japan)

11:10-11:25 Assessment of long-term low-emission pathways in Japan using AIM/Enduse [Japan]

Dr. Ken Oshiro (MHIR, Japan)

11:25-11:40 Discussion

11:40-12:30 **Session 10: Toward the 2/1.5 degree target**

Chairperson: Prof. P. R. Shukla (IIM, India)

11:40-11:50 Introduction

Dr. Toshihiko Masui (NIES, Japan)

1.5 °C Long-term Global Goal and Decarbonization of Energy System

Prof. P. R. Shukla (IIM, India)

11:50-12:30 Discussion

12:30-13:30 **Lunch Break**

13:30-14:25 **Session 11: New direction toward sustainable development**

Chairperson: Dr. Kiyoshi Takahashi (NIES, Japan)

13:30-13:40 Introduction

Dr. Toshihiko Masui (NIES, Japan)

13:45-14:25 Discussion

14:25-14:40 **Coffee Break**

- 14:40-16:00** **Session 12: Impact study (1): Global**
Chairperson: Dr. Kiyoshi Takahashi (NIES, Japan)
- 14:40-14:45 Introduction to the impact study sessions
Dr. Kiyoshi Takahashi (NIES, Japan)
- 14:45-15:00 Research activities in 2016: global food, agriculture and land use
Dr. Tomoko Hasegawa (NIES, Japan)
- 15:00-15:15 Climate and biomass impacts on global land use
Dr. Ron Sands (USDA, USA)
- 15:15-15:30 Does linearity hold for climate-change impacts between 2°C warming and other warming levels?
Dr. Akemi Tanaka (National Agriculture and Food Research Organization, Japan)
- 15:30-15:45 Intercomparison of regulated river discharge among multiple global hydrological models under multiple forcings
Dr. Yoshimitsu Masaki (Hirosaki University, Japan)
- 15:45-16:05 Discussion
- 16:05-16:20** **Coffee Break**
- 16:20-17:20** **Session 13: Impact Study (2): National/Regional**
Chairperson: Dr. Yasuaki Hijjoka (NIES, Japan)
- 16:20-16:35 Climate change impact on Bio-climatic zone in Northeast Asia
Prof. Seongwoo Jeon (Korea University, Korea) and Dr. Huicheul Jung (KEI, Korea)
- 16:35-16:50 Spatial Optimization based on integrated impact of climate change
Ms. Eunjoo Yoon (SNU, Korea)
- 16:50-17:05 Adaptation initiative in Indonesia and impact assessment on agriculture
Prof. Yuji Masutomi (Ibaraki University, Japan)
- 17:05-17:20 Discussion
- 17:20-17:40** **Session 14: Take a look back on impact studies**
Chairperson: Dr. Yasuaki Hijjoka (NIES, Japan)
- 17:20-17:40 Past, Present and Future of AIM Impact Study
Dr. Hideo Harasawa (NIES, Japan)
- 17:40-17:50** **Session 15: Closing session**
Chairperson: Dr. Yasuaki Hijjoka (NIES, Japan)
- 17:40-17:50 Closing address
Dr. Mikiko Kainuma (NIES, Japan)
- 18:30** **Bus will leave NIES**
- 19:00-21:00** **Dinner at Watami close to Hotel Okura**

DAY 3, December 11, 2016 (Sunday)

8:30 **Bus will leave Hotel Okura**

9:00-10:00 Discussion on IPCC AR6
 China, India, Indonesia, Korea, Malaysia, Nepal, Thailand

10:00-11:00 Discussion on LCSRNet and LoCARNet
 China, India, Indonesia, Korea, Malaysia, Nepal, Thailand

11:00-12:00 Discussion on 1.5 degree target
 China, India, Indonesia, Korea, Thailand

12:00-13:00 **Lunch**

13:00-14:00 Discussion on S-12
 China, India

14:00-17:00 Other discussion if necessary