The 29th AIM International Workshop

Ohyama Memorial Hall in National Institute for Environmental Studies and Online September 14 and 15, 2023

DAY 1: September 14, 2023

13:00 of JST	Open Zoom Account and Registration
13:30-14:30	Session 1: Opening
	Chairperson: Dr. Toshihiko Masui (NIES)
13:30-13:35	Opening remarks
	Ms. Kotoe Kuroda (MOEJ)
13:35-13:50	Activities in FY 2022-2023
	Dr. Toshihiko Masui (NIES)
13:50-14:10	Keynote speech (1): U.S. Emissions to 2050
	Dr. James Edmonds (PNNL)
14:10-14:30	Keynote speech (2):
	Prof. Priyadarshi Shukla (Ahmedabad Univ.)
14:30-14:40	Photo session
1.1.20 1.1.10	
14:40-15:00	Break

15:00-16:40	Session 2: GHG mitigations in Asia (1)
	Chairperson: Dr. Toshihiko Masui (NIES)
15:00-15:15	China's Modeling Activities from IPAC in 2022-2023 Prof. Xiulian Hu and Prof. Kejun Jiang (ERI)
15:15-15:30	India's Residential Sector: Spatial Analysis of Air Pollution and GHG Emissions Prof. Manmohan Kapshe (MANIT)
15:30-15:45	Macroeconomic Effects of Clean Energy Transition for Net Zero Emissions in Nepal Dr. Salony Rajbhandari (NIES), Dr. Bijay B. Pradhan (Thammasat Univ.) and Prof. Ram Manohar Shrestha (AITM)
15:45-16:00	Korea's Activities for Carbon Neutrality in 2050 Prof. Dong-Kun Lee (SNU), Prof. Tae-Yong Jung (Yonsei Univ.) Prof. Chan Park and Dr. Yohan Choi (Univ. of Seoul)
16:00-16:15	Taiwan's Efforts to Net-zero Emissions in 2050 Dr. Yi-Hua Wu (National Applied Research Laboratories)
16:15-16:25	Introduction of S-20-3 Project Dr. Tatsuya Hanaoka (NIES)
16:25-16:35	Extension of National Decarbonization Studies in AIM -Toward an Integrated Analysis of Decarbonization and Other Issues- Mr. Go Hibino and Dr. Yuko Kanamori (NIES)
16:35-16:45	Research Activities on Local Decarbonization in Japan: Progress and Way Forward Dr. Shuichi Ashina (NIES)
16:45-17:00	Discussion
17:00-17:20	Break
17:20-19:30	Session 3: Poster Session and Reception
19:30	Adjourn

DAY2: September 15, 2023

12:30 of JST	Open Zoom Account and Registration
13:00-15:00	Session 4: Climate impact, adaptation, and sustainability
	Chairperson: Dr. Kiyoshi Takahashi (NIES)
13:00-13:15	Global to Subnational Data Framework for Agriculture Dr. Ronald Sands (USDA)
13:15-13:30	Potential Health Benefits of Replacing Red Meat with Forage Fish Dr. Shujuan Xia (NIES)
13:30-13:45	Updates on AIM Global Modeling and Relevant International Activities Prof. Shinichiro Fujimori (Kyoto Univ.)
13:45-14:00	Historical Global Fire Smoke and its Impact on Human Health Dr. Chaeyeon Park (AIST)
14:00-14:15	Status and Challenges of Local Climate Change Adaptation in Japan Dr. Yoshifumi Masago (NIES)
14:15-14:30	Assessing the Impact of Climate Change on South Korea's Electricity Demand Dr. Hyun-Gyu Kim, Dr. Hui-Cheul Jung (KEI) and Prof. Dong-Kun Lee (SNU)
14:30-14:45	Asia-Pacific Climate Change Adaptation Information Platform (AP-PLAT): Bridging Science and Stakeholders Dr. Yuji Masutomi (NIES)
14:45-15:00	Discussion
15:00-15:20	Break
15:20-16:40	Session 5: GHG mitigations in Asia (2)
	Chairperson: Ms. Tomoko Ishikawa (IGES)
15:20-15:35	Thailand's Net-Zero Emissions 2050
	Prof. Bundit Limmeechokchai (SIIT-TU)
15:35-15:50	The Acceleration of Decarbonization for Mitigation of the GHG Emissions in Indonesia Prof. Rizaldi Boer (IPB), and Prof. Retno Gumilang Dewi (ITB)
15:50-16:05	GHG Mitigation of Vietnam Dr. Tung Lam Nguyen (VNPI)
16:05-16:20	Climate Action Planning in Urban Development -the Case of Malaysian Cities Prof. Chin Siong Ho (UTM)
16:20-16:40	Discussion
16:40-17:00	Break

17:00-18:00	Session 6: AIM Activities; Past 20 Years and Next 20 Years
	Chairperson: Dr. Toshihiko Masui (NIES)
17:00-17:05	Introduction of This Session
	Dr. Toshihiko Masui (NIES)
17:05-17:10	Activities of Global Decarbonization and Sustainability Studies in AIM
	Dr. Tatsuya Hanaoka (NIES) and Prof. Shinichiro Fujimori (Kyoto Univ.)
17:10-17:15	Activities of National Decarbonization Studies in AIM
	Dr. Yuko Kanamori and Mr. Go Hibino (NIES)
17:15-17:20	Activities of Local Decarbonization Studies in AIM Dr. Shuichi Ashina and Dr. Kei Gomi (NIES)
17:20-17:25	Activities of Impact and Adaptation Studies in AIM
	Dr. Kiyoshi Takahashi and Dr. Yasuaki Hijioka (NIES)
17:25-17:30	Activities of Climate Change Adaptation Policy Support in Japan
	Dr. Yasuaki Hijioka and Dr. Kiyoshi Takahashi (NIES)
17:30-17:35	India and IPCC
	Prof. P. R. Shukla (Ahmedabad Univ.)
17:35-17:40	Activities in China
17 40 17 45	Prof. Xiulian Hu and Prof. Kejun Jiang (ERI)
17:40-17:45	AIM Activities in Korea; Past 20 Years and Next 20 Years Prof. TaeYong Jung (Yonsei Univ.) and Prof. DongKun Lee (Seoul Nat. Univ.)
17:45-17:50	Activities in ASEAN countries
17.45-17.50	Prof. Chin Siong Ho (UTM), Prof. Rizaldi Boer (IPB),
	Prof. Retno Gumilang Dewi (ITB), Prof. Bundit Limmeechokchai (SIIT-TU) and
	Dr. Tung Lam Nguyen (VNPI)
17:50-17:55	Integrated Assessment of Climate Change in the United States 1979 to PresentAnd, Into the
	Future
	Dr. Jae Edmonds (PNNL) and Dr. Ronald Sands (USDA)
17:55-18:00	Linkage with Governance Research
	Dr. Kanako Morita (FFPRI)
18:00-18:20	Session 7: Closing
	Chairpersons: Dr. Toshihiko Masui (NIES, Japan)
18:00-18:10	Poster Award Ceremony
	Dr. Junya Takakura (NIES, Japan)
18:10-18:20	Closing remarks
	Dr. Mikiko Kainuma (IGES and NIES, Japan)
18:30-20:00	Dinner
20:00	Adjourn

Poster session

- Just Coal Transition to Net Zero: India Kopal Agrawal (Ahmedabad University)
- (2) High-Resolution Air Temperature Maps Based on Deep Learning Models May Underestimate Temperatures at the Microscale

Ayano Aida (Univ. of Seoul)

- (3) Estimation of Greenhouse Gas Reduction Potential in Existing Buildings Using the CEA Model : Focus on Aging Apartment Complexes Siwoo Baek (Univ. of Seoul)
- (4) Co-Benefits and Trade-Offs in Thailand's Net Zero Emissions 2050 Achiraya Chaichaloempreecha (NIES)
- (5) Assessment of Long-Term Mitigation Scenarios in China's Agriculture Yizhi Deng (Shanghai Jiao Tong Univ.)
- (6) Impact of Climate Change on Building Energy Use in Hot Humid Climate Regions Yohan Choi (Univ. of Seoul)
- (7) Navigating towards 2035 Beautiful China: Assessing a Low-Carbon, Resilient, and Inclusive Energy Transition Pathway through Multi-Model Analysis Ji Gao (Environmental Defense Fund)
- (8) Effect of Governance Constraints on Long-Term Scenarios of Global Decarbonization Diego Silva Herran (NIES)
- (9) Assessment of CO2 Emissions Reduction Potential in China's Thermal Power Sector to 2060: Empirical Evidence from a Windows DEA Model Lu Gao (Univ. of South China)
- (10) Assessment of the Impacts of Wood Substitution for Steel and Cement in Building Materials on Climate Change Mitigation

Yoshida Hiroki (Kyoto Univ.)

- (11) Zero-Carbon Steel Production Technology Pathway Analysis in China Weiyi Jiang (Yonsei Univ.)
- (12) Changes in Wood Area and CO2 Absorption due to Urbanization in Tsukuba Satoko Kawarasaki (NIES)
- (13) Climate Finance to Support the Carbon-Neutral Transition of China's Iron and Steel Industry Xuejing Jiang (Shanghai Jiao Tong Univ.)
- (14) AIM developed a 2050 net-zero scenario for Luang Prabang City BounEua Khamphilavanh (MONRE)
- (15) Data-Driven Monitoring and Evaluation of Effects of Urban Cooling Technologies Seon Hyuk Kim (Univ. of Seoul)
- (16) Analysis of Appropriate Index for Heat-Related Morbidity Sanghyuck Kim (Seoul National Univ.)
- (17) Energy Reduction Effect by Thermal Insulation Promotions in Shiga Prefecture Reina Kawase (Lake Biwa Environmental Research Institute)

- (18) Examining the Mobility Pattern of the Transient Population in Seoul in Response to Air Temperature Variation Jae Hong Lee (Seoul National Univ.)
- (19) Influence of Climate Change and its Mitigation Measures on Global Poverty Yumi Maruta (Kyoto Univ.)
- (20) Priority for Re-wild of Abandoned Land to Enhance Biodiversity in Agriculture Landscapes Yongwon Mo (Yeungnam Univ.)
- (21) Analysis on Technologies and Costs for Achieving Decarbonization in Households in Japan Takaharu Ota (Mizuho Research & Technologies, Ltd.)
- (22) An Assessment of the Role of Synthetic Fuels in Mitigating the Rapid End-Use Technology Transition in Net-Zero Emissions Scenarios Shotaro Mori (Kyoto Univ.)
- (23) Comparative Analysis of Biomass-Based and Direct Air Capture-Based Technologies for Decarbonization Osamu Nishiura (Kyoto Univ.)
- (24) Developing a Spatial Climate Adaptation Framework with a Citizen Participatory Approach Somin Park (Univ. of Seoul)
- (25) Thailand's Net-Zero Emissions by 2050: Analysis of Economy-Wide Impacts Salony Rajbhandari (NIES)
- (26) Cost Analysis for the Implementation of LUCF Mitigation toward NDC Target in Indonesia Annuri Rossita (NIES)
- (27) Creating an Integrated Assessment Model to Optimize Paths for Lowering Greenhouse Gas Emissions for SSP1-5 Scenarios

Xuanming Su (NIES)

(28) How Digital Transformation Promotes China's Energy Transition: An Empirical Study Based on a Quasi-Experiment

Yasi Tu (Institute of Energy Research, Jiangxi Academy of Science)

(29) Research on Energy Demand Prediction and Economic and Social Impact of Carbon Emission Dual Control Based on CGE Model

Peng Wang (Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences)

- (30) Zero-Carbon Ammonia Technology Pathway Analysis by IPAC-Technology Model in China Pianpian Xiang (Beijing Univ. of Technology)
- (31) Study on the Distribution of Carbon Emission Reduction Potential of Urban Transformation Development under the "Dual Carbon" Goal--Taking Guangzhou as an Example Yunsheng Xie (Institute of Energy Research, Jiangxi Academy of Sciences)
- (32) Assessing the Climate, Health, and Agricultural Impacts of Global NOx Emission Reductions Koga Yamazaki (Kyoto Univ.)
- (33) Assessing the Distributional Impacts of Carbon Pricing in China's Agricultural Sector Qishi Zhang (Shanghai Jiao Tong Univ.)
- (34) Health and Economic Impacts of High Temperature and Heatwaves in China Mengdan Zhao (Beihang Univ.)