

# The 15<sup>th</sup> AIM International Workshop

February 20-22, 2010

Ohyama Memorial Hall, NIES, Tsukuba, Japan

## February 20 (Saturday) Day 1

9:30-11:00 Informal Meeting (Japanese AIM team)

11:00-12:00 Registration

12:00-13:00 Lunch

13:00-13:05 Opening

Welcome Address Dr. Y. Yasuoka (NIES, Japan)

13:05-13:20 Japanese Climate Policy and Expectation to AIM

Mr. H. Ono (MOE, Japan)

13:20-15:20 Session I: Overall AIM Activities and Perspectives (Chairperson Dr. T. Masui)

13:20-13:35 "AIM activities and the objective of this workshop" Dr. M. Kainuma (NIES, Japan)

1) What kind of Asia LCS scenarios shall we develop?

2) What kind of strategies should be incorporated in Asia LCS scenarios to support climate policy development in Asian countries?

3) What modeling, collaboration and capacity building activities should AIM pursue to develop Asia LCS scenarios and to support climate policies?

13:35-13:50 "Impact and adaptation studies and perspectives of AIM" Dr. H. Hijioka (NIES, Japan)

13:50-14:05 "Shiga scenarios and scenario application to regional climate policies" Prof. K. Shimada (Ritsumeikan Univ., Japan)

14:05-14:35 "AIM modeling 2010 –Designing Asian scenarios towards Low Carbon societies–" Prof. Y. Matsuoka (Kyoto Univ., Japan)

14:35-14:50 "Climate studies in India and expectation from AIM: Research topics and future collaboration" Prof. P.R. Shukla (IIM, India)

14:50-15:05 "Climate studies in China and expectation to AIM: Research topics and future collaboration" Prof. X. Hu and Dr. K. Jiang (ERI, China)

15:05-15:20 Discussion

15:20-15:30 Break

15:30-18:15 Session II: Parallel Session (Asia LCS Scenario Development and Impact Assessment)

Session II, Parallel Session-1: Asia LCS Scenario Development @Ohyama memorial hall

15:30-16:50 Asia LCS Scenario Development (1) (Chairperson Dr. S. Ashina)

15:30-15:40 "Asia LCS studies and their perspective" Dr. J. Fujino (NIES, Japan)

- 15:40-15:55 “Designing a road map towards a low-carbon city in case of Kyoto” Mr. K. Gomi (Kyoto Univ., Japan)
- 15:55-16:10 “Iskandar Development scenario and its policy implication” Prof. C. S. Ho (UTM, Malaysia)
- 16:10-16:25 “Introduction of Indonesia LCS Workshop, the LCS scenario and future collaborative works” Prof. R. Boer (IPB, Indonesia)
- 16:25-16:40 “Guangzhou low carbon society 2030 –a win-win strategy for global climate change and sustainable development of regional economy” Prof. D. Zhao and Ms. Y. Lu (GIEC, China)
- 16:40-16:50 Discussion

**16:50-18:15 Asia LCS Scenario Development (2) (Chairperson Prof. K. Shimada)**

- 16:50-17:05 “Bhopal scenario and its expected outcomes” Prof. M. Kapshe (School of Planning and Architecture, India) and Prof. A. Deshpande (MANIT, India)
- 17:05-17:20 “Forecasting the GHG emission and assessment of potential GHG reduction in Korea” Dr. S. Yoon (NIER, Korea)
- “Development of CO2 Emission Model at The Site Level and Its Application”  
Mr. C. Park (Seoul Univ., Korea)
- 17:20-17:35 “Introduction of energy scenarios in Thailand and future plan” Prof. B. Limmeechokchai (SIIT-TU., Thailand)
- 17:35-17:50 “Dalian Low-Carbon Society Study: Progress of Modeling” Mr. Y. Wang (Dalian Municipal Government Research Center, China)
- 17:50-18:05 “Brazil LCS Scenarios” Mr. W. Wills (UFRJ, Brazil)
- 18:05-18:15 Discussion

**Session II, Parallel Session-2: Impact Assessment 1 @Chu-kaigishitsu**

**15:30 -18:15 Session II, Parallel Session-2: Impact Assessment 1**

- 15:30-15:55 “Introduction of AIM/Impact[Policy]” Dr. Y. Hijioka (NIES, Japan)
- 15:55-16:20 “Application of Satellite Measurements and Modeling for Air Quality” Dr. C. Shim (KEI, Korea)
- 16:20-16:45 “An Integrated Water Quality Assessment Model in Response to Climate Change and Land-Use Change” Dr. H. Han (KEI, Korea)
- 16:45-17:10 “Impact Assessment of Climate Change on Rice Production in Asia in Comprehensive Consideration of Uncertainties in Future Climate Projections”  
Dr. Y. Masutomi (CESS, Japan)
- 17:10-17:35 “Assessing the Risk of Heat-stressed Mortality due to Global Warming Using Multi-GCM Approach” Dr. H. Jung (NIES, Japan)
- 17:35-18:15 Discussion

**18:30 Bus departure**

**19:00- 21:00 Reception at Chateau Kamiya**

**21:15 Bus departure**

## February 21 (Sunday) Day 2

### 09:00-10:55 Session III: Impact Assessment 2

- 09:00-09:25 "Toward AR5: Activities of the Global Water Resources Model H08" Dr. N. Hanasaki (NIES, Japan)
- 09:25-09:50 "Climate Change Adaptation Networking" Dr. Y. Park (KEI, Korea)
- 09:50-10:15 "Climate change vulnerability and adaptation studies of maize production in Jilin, China" Dr. W. Ye (IGCC, New Zealand)
- 10:15-10:40 "An Assessment of Potential Impact of Climate Change on Forest Distribution and Economic Value in Korea" Mr. J. Kim (SNU, Korea)
- 10:40-10:55 Discussion

### 10:55-11:05 Break

### 11:05-15:25 Session IV: Emission Modeling (Chairperson Dr. T. Masui)

- 11:05-12:25 Country model
- 11:05-11:20 "Effects of carbon taxes for selected CO2 stabilization targets on the Thai energy system" Dr. R. Shrestha ( )
- 11:20-11:35 "Economic Impact Assessment of China's Climate Target towards 2020" Mr. H. Dai (NIES, Japan) and Dr. K. Jiang (ERI, China)
- 11:35-11:50 "Modeling and Analysis of Low Carbon Society Transition for India" Prof. P.R. Shukla (IIM, India)
- 11:50-12:05 "Low-Carbon Ratchaburi (Thailand) 2025 using ExSS" Dr. S. Garivait (JGSEE /KMUTT, Thailand)
- 12:05-12:20 Discussion

### 12:20-12:30 Photo session

### 12:30-13:30 Lunch

### 13:30-14:50 Integrated assessment modeling

- 13:30-13:50 "Results from the PNNL Global Change Assessment Model" Dr. J. Edmonds (JGCRI/PNNL, U.S.A.)
- 13:50-14:05 "Regional and Spatial Analysis on 3E under a Constraint on Radiative Forcing: Integrated Assessment Using Economic, Land-use, and Ecosystem Models" Dr. K. Matsumoto (NIES, Japan)
- 14:05-14:20 "Contribution to the Asian Modeling Exercise" Dr. A. Okagawa (NIES, Japan)
- 14:20-14:35 "Co-benefits of LCS policies and air pollution abatement" Prof. G. Kurata (Kyoto Univ., Japan)
- 14:35-14:50 "Estimation of Global Cement Demand" Ms. R. Kawase (Kyoto Univ., Japan)
- 14:50-15:05 "Introduction of New Activities for Global CGE Model Development" Dr. S. Fujimori (Kyoto Univ., Japan)
- 15:05-15:25 Discussion

### 15:25-15:40 break

### 15:40-17:40 Session V: AIM/Enduse [Global] (Chairperson Dr. T. Hanaoka)

- 15:40-16:00 “Mid-term target in Japan and contribution of AIM” Dr. T. Masui (NIES, Japan)
- 16:00-16:20 “Overview of AIM/Enduse[Global] and analysis on comparable efforts” Dr. T. Hanaoka (NIES, Japan)
- 16:20-16:35 “Global mid-term emission scenario with special attention to Asian regions” Dr. O. Akashi (NIES, Japan)
- 16:35-16:50 “Modeling on service demands: Industry and Transport” Dr. O. Akashi (NIES, Japan)
- 16:50-17:05 “Estimation of residential energy consumption considering energy service demand and supply structure” Dr. Y. Kanamori (NIES, Japan)
- 17:05-17:20 “GHG emissions and mitigation potentials by agricultural activity” Ms. T. Hasegawa (Kyoto Univ., Japan)
- 17:20-17:40 Discussion

**18:30 Dinner@Camellia, Okura**

**February 22 (Monday) Day 3**

**9:00-10:10 Session VI: Asian and global LCS scenario development and perspectives  
(Chairperson Dr. J. Fujino)**

- 9:00-9:10 “Objective of Asia LCS Project (S-6) and what has been done” Dr. M. Kainuma (NIES, Japan)
- 9:10-9:25 “Asia scenario review” Mr. T. Ehara and Ms. K. Oyamada (MHIR, Japan)
- 9:25-9:40 “Models developed by Asia LCS project and scenarios” Dr. T. Masui (NIES, Japan)
- 9:40-9:55 “Development of the Backcasting model –Application to Japan LCS study-” Dr. S. Ashina (NIES, Japan)
- 9:55-10:10 “Outcomes from Asia LCS studies and perspectives: Leapfrog Asia” Dr. S. Nishioka (IGES, Japan)

**10:10-10:25 Break**

**10:25-11:55 Panel Discussion**

Coordinator: Dr. M. Kainuma (NIES, Japan)

Rapporteur: Prof. A. Deshpande (MANIT, India)

Panelist: Prof. P.R. Shukla (IIM, India), K. Jiang (ERI, China), Dr. R. Shrestha (Nepal), Prof. R. Boer (IPB, Indonesia), Dr. J. Edmonds (JGCRI/PNNL, U.S.A.), Prof. C. S.Ho (UTM, Malaysia), Dr. T. JUNG (ADB, Phillipines)

Key questions:

- 1) What kind of Asia LCS scenarios shall we develop?
- 2) What kind of strategies should be incorporated in Asia LCS scenarios to support climate policy development in Asian countries?
- 3) What modeling, collaboration and capacity building activities should AIM pursue to develop Asia LCS scenarios and to support climate policies?

**11:55-12:00 Concluding Remarks Dr. Y. Sasano (NIES, Japan)**

Adjourn

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

**13:00-18:00 Informal Meeting**