

IR3S/ICAS International Symposium

**Future of the Earth's Environment
– Prediction and Countermeasures of Global Warming–**

● Purpose:

The IR3S/ICAS First International Symposium on Global Warming will be held as an event of IR3S's Flagship Project "Sustainable Countermeasures for Global Warming". Its purpose is to discuss themes and specific issues which scientific researchers should study in a mid- and long-term perspective.

Regarding international negotiations on the regulation of global warming, the COP Meetings of the UNFCCC have started discussions on the next international framework to follow the Kyoto Protocol that came into force in 2005. In parallel, the IPCC is preparing its fourth assessment report, to be published in 2007. These and related developments in climate change policies and scientific understanding will again attract the attention of policy makers and people in the world in the coming years. It is important for scientists of various disciplines to exchange their views on future predictions of climate change and its impacts, as well as countermeasures against global warming including adaptation and foresights of a sustainable society. Such considerations go beyond the borders of each discipline.

This symposium is planned to bring together invited experts of the relevant disciplines for the above purpose, rather than opening the discussions to the public. As it is an event of the IR3S's Flagship Project we will invite researchers from member universities and relevant research institutes as well as international experts.

References: IR3S <http://www.ir3s.u-tokyo.ac.jp>

Ibaraki University ICAS <http://www.icas.ibaraki.ac.jp>

- Organizers : IR3S, Ibaraki University, United Nations University, National Institute for Environmental Studies
- Participants: 50 experts and 50 participants from universities, research institutes, industry, governments and the public.
Participants are requested to register in advance because of the limited capacity of the room (100 persons).
- Date : 27 and 28 November 2006
- Venue : Interview Studio, College of Science
Mito Campus, Ibaraki University
Bunkyo 2-1-1, Mito, Ibaraki, Japan
- Language: English (with simultaneous translation to and from Japanese)
- Publication: Proceedings
Excellent presentations will be noted and authors are encouraged to submit papers to 'Sustainability Science'
- Contact Ms Rumi Hayashi, ICAS stuff r-hayashi@mx.ibaraki.ac.jp

Program

<27th November>

10:00-10:30 Opening

Chair: Prof. Kazuya Yasuhra (Ibaraki University)

Opening address Ryuzaburo Kikuchi, President of Ibaraki University
 Kazuhiko Takeuchi, Deputy Executive Director of IR3S
Purposes of the Symposium Nobuo Mimura, Director of ICAS

10:30-13:00 Session 1 "Prediction of Global Warming"

Chair: Dr. Yasuhiro Yamanaka, Hokkaido University

Akimasa Sumi (TIGS, University of Tokyo)
Global Warming Simulation by Using a High-Resolution Atmosphere-Ocean Coupled Model

Akira Noda (Meteorological Research Institute)
Global Warming Projection by an Atmospheric General Circulation Model with a 20-km Grid

Chris Gordon (Hadley Centre, UK)

Assessing Uncertainty in Climate Change Prediction

Seita Emori (National Institute for Environmental Studies)

Future Climate Change Projection by High-Resolution Climate Models and its Reliability

Michio Kawamiya (Frontier Research Center for Global Change)

Experimental Design with Carbon Cycle Models for AR5 and Interactions among WGs1-3

13:00-14:00 Lunch

14:00-17:30 Session 2 "Impact Assessment and Adaptation - Comprehensive assessment of dangerous level of interference and stabilization scenarios for global warming"

Chair: Prof. John Hay (Ibaraki University)

Iswandi Anas (Bogor Agricultural University)
Effect of Global Warming on Crops Production in Indonesia

Kazuya Yasuhara (Ibaraki University)
Influences of Climate Change on Natural Disasters

Du Minh Duc (Vietnam National University, Hanoi)
Can the Seddyke System of the Red River Delta Survive from Future Natural Disasters?

Hiroyasu Yamanaka (Hokkaido University)
Stabilizing the Atmospheric CO₂ Concentration and Ocean Acidification

Kiyoshi Takahashi (National Institute for Environmental Studies)
Development of Integrate Assessment Tool of Climate Change Impacts For Long-term Target Setting

Ancha Srinivasan (Institute for Global Environmental Strategies)
Asia-Pacific Perspectives on Strategies for Adaptation to Climate Change

18:00-19:30 Reception (San-no-maru Hotel)

<28th November>

9:00-12:30 Session 3 “Framework for the Post Kyoto Protocol”

Chair: Dr. Hideo Harasawa (National Institute for Environmental Studies)

Kazuhiro Ueta (Kyoto University)

Environmental Damage Evaluation of Global Warming

Tatsuyoshi Saijo (Osaka University)

Upstream Emissions Trading System

Naoto Hisajima (Ministry of Foreign Affairs, Japan)

Present and Future of International Efforts to Arrest Global Warming (tentative)

Chris Pook (UK Embassy)

What next? UK Views following the Stern Report

Naoya Tsukamoto (ministry of the Environment, Japan)

Japan-UK 2050 Low Carbon Society Project

Ancha Srinivasan (IGES)

Adaptation in the Framework of the Post 75 Kyoto Protocol (tentative)

John E. Hay (Ibaraki University/ Waikato University)

Adaptation Futures: Crucial, Complex, Challenging and Contentious

12:30-13:30 Lunch

14:00-16:00 Plenary and Wrap-up

Chair: Prof. Nobuo Mimura (Ibaraki University)