



Nagoya University



International Symposium

Nagoya University Initiative for Integrating Climate Change Mitigation in Urban Development

Global Carbon Project Initiative on Urban and Regional Carbon Management

“Realizing Low Carbon Cities: Bridging science and policy”

February 16th, 2009, Nagoya, Japan

And

International Workshop

Nagoya University Initiative for Integrating Climate Change Mitigation in Urban Development

Global Carbon Project Initiative on Urban and Regional Carbon Management

Towards Low Carbon Cities:

Understanding and analyzing urban energy and carbon

February 17th-18th, 2009, Nagoya, Japan

Organizers

Graduate School of Environmental Studies, Nagoya University

Global Carbon Project

Center for Global Environmental Research, National Institute for Environmental Studies

Co-sponsors

Ministry of Environment, Japan

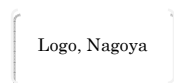
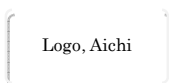
Aichi Prefecture

Nagoya City

Institute for Global Environmental Strategies

Aims

- To strengthen and develop networks in the areas linking urban energy use, urban development and carbon management in a climate change mitigation context
- To share research results and modeling and analyses challenges and approaches, and to discuss ways to overcoming them
- To explore ideas for developing joint activities such as syntheses, harmonized cross-comparative studies, and policy analyses
- To link scholarly endeavors to policy relevance and bridge research and policies



Tentative Schedule

	Date		Venue
International Symposium	Feb. 16 th	10:00 – 17:30	Hotel Mielparque Nagoya
Reception		18:00 – 20:00	
International Workshop	Feb. 17 th	10:00 – 17:00	Noyori Conference Hall, Nagoya University
Side-event: Advisory board meeting of Low Carbon Cities Research		17:00 – 18:00	Meeting Room 1A, Noyori Conference Hall, Nagoya University
International Workshop	Feb. 18 th	10:00 – 17:00	Noyori Conference Hall, Nagoya University

- Guest accommodation: Hotel Mielparque Nagoya

Speakers List (Tentative)

Day.1 Symposium	Prof. Shinichi Hirano	President of Nagoya University
	Dr. Arnulf Grubler	International Institute for Applied Systems Analysis
	Mr. Takemoto / Mr. Moriya	Ministry of Environment, Japan
	Mr. Takashi Inagaki	Vice-governor of Aichi Prefecture
	• • •	Environmental Bureau of Nagoya City
	Prof. Hidefumi Imura	Graduate School of Environment Studies, Nagoya University
	Prof. Steve Hammer	Columbia University
	Mr. Paul Dowling / Dr. Nigel Jolland	International Energy Agency
	Prof. Ye Qi	Institute of Public Policy, Tsinghua University
	Dr. Anand Patwardhan	Indian Institute of Technology – Mumbai
	Dr. Shobhakar Dhakal	Global Carbon Project
	Prof. Keisuke Hanaki	Dept. of Urban Engineering, The University of Tokyo
Dr. Hidetoshi Nakagami	Jukankyo Research Institute	
Dr. Yasuhiro Sasano	National Institute for Environmental Studies	
Day.2 Workshop	Prof. Yoshitsugu Hayashi	Dean of Graduate School of Environment Studies, Nagoya University
	Dr. Shobhakar Dhakal	Global Carbon Project
	Dr. James Keirstead	Imperial College London
	Prof. Ram M. Shrestha	Asian Institute of Technology
	Dr. Richard Dawson	Tyndall Centre for Climate Change Research
	Prof. John Handley	CURE, School of Environment and Development, the University of Manchester
	Dr. Ranjan K. Bose	The Energy and Resources Institute
	Prof. M. Okumiya, Prof. H. Shimizu Prof. T. Takeuchi Dr. A. Murayama Dr. H. Kato Dr. T. Kato Dr. N. Sugiyama Dr. A. Onishi Dr. Y. Hirano Dr. X. Cao Dr. O. Higashi	Nagoya University
	Prof. Toshiaki Ichinose	National Institute for Environmental Studies
	Dr. Yukiko Yoshida	Wakayama University
	Dr. Hiroki Tanikawa	Hiroshima University
	Dr. Shinji Kaneko	
Day.3 Workshop	Dr. Niels Schulz	Imperial College London
	Mr. Paul Dowling / Dr. Nigel	International Energy Agency

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Prof. Christopher Kennedy	Toronto University
Prof. Chen Jin	Beijing Normal University
Dr. Yoshiaki Yamagata	National Institute for Environmental Studies
Dr. Yasuyo Makido	Global Carbon Project
Prof. Marilyn A. Brown	School of Public Policy, Georgia Institute of Technology
Prof. Frank Southworth	Oak Ridge National Laboratory
Dr. Julia Steinberger	Institute of Social Ecology Vienna
Prof. Miranda.A. Schreurs	Environmental Policy Research Centre, Freie Universität Berlin
Dr. Paty Romero Lankao	National Center for Atmospheric Research, USA
Dr. R. A. Sebastian Carney	CURE, SED, the University of Manchester
Dr. Tae Yong Jung	Asian Development Bank
Prof. Yingxin Zhu	Tsinghua University, China
▪ ▪ ▪	The World Bank
▪ ▪ ▪	Organization for Economic Development and Cooperation

Nagoya University Initiative for Integrating Climate Change Mitigation in Urban Development

(For details, contact Prof. Hidefumi Imura)

How we recognize the issues

- Cities in both industrialized and developing countries are more and more responsible for promoting sustainable buildings, environmentally sustainable transportation, energy efficiency, etc.
- Integrating climate change mitigation measures in urban development is needed, especially in rapidly growing cities in China, India, and Southeast Asian countries.
- Universities and research institutions in Asia must cooperate more closely to provide opportunities for education and research activities, especially for students and young researchers.

We have launched an initiative

- Nagoya University has launched an initiative to promote research and education programs related to climate change mitigation in cities, especially in rapidly developing Asian cities, in cooperation with universities, research institutions, industries, governments, NGOs, and citizens.

What we do

- Build an international network (Consortium, or Platform of the Joint Research Initiatives) of universities, research institutions, international organizations, NGOs and others
- Explore a research and education program related to climate change mitigation and adaptation policies/measures in cities
- Exchange information
- Form an international research team
- Organize international meetings to share research and education processes and outcomes

How we contribute to cities (our goals)

- Design and build “low-carbon” cities, halving GHG emissions by 2050
- Achieve drastic improvement in the energy efficiency of cities
- Seek for “macro-efficiency” (or “social system efficiency”) rather than “micro-efficiency”
- Propose a transition path to a “low-carbon” society, or “low-carbon city” through integrating environmental measures in urban development
- Incorporate technological and socio-economic options
- Establish a platform of research and education for young researchers, especially those who will lead initiatives in developing countries
- Conduct field studies on developing Asian cities
- Propose feasible measures enforceable in developing Asian cities



Global Carbon Project Initiative on Urban and Regional Carbon Management, URCM (www.gcp-urcm.org)

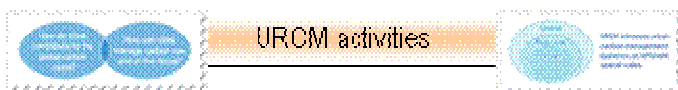
(For details, contact Dr. Shobhakar Dhakal, shobhakar.dhakal@nies.go.jp)



The Global Carbon Project (GCP)- www.globalcarbonproject.org was established in 2001 in recognition of the enormous scientific challenge and fundamentally critical nature of the carbon cycle for Earth sustainability under the auspice of Earth System Science Partnership (ESSP- www.essp.org) of four major international scientific programs on global environmental change research. The scientific goal of the project is to develop a complete picture of the global carbon cycle, including both its biophysical and human dimensions together with the interactions and feedbacks between them. The Global Carbon Project launched the Urban and Regional Carbon Management (URCM) Initiative in 2005 recognizing the importance of the area. URCM is a policy-relevant scientific initiative aimed at supporting urban carbon management and sustainable urban development.

URCM addresses some of the most fundamental scientific issues related to carbon management:

- How do urbanization and the global carbon cycle interact globally through population, affluence, energy and other biophysical and socioeconomic mechanisms?
- How can we quantify current and past carbon emissions/sinks in cities and regions? What are the future scenarios of de-carbonized urban and regional development?
- What configurations of underlying and proximate drivers (geography, socioeconomic factors, historical legacies/trajectories etc.) explain the differences in carbon trajectories of cities?
- What management strategies can influence carbon mitigation in cities?
 - What are the trade-offs and synergies of streamlining carbon management in local areas?
 - What are the roles of the institutions and carbon governance structures in sound urban and regional carbon management?
- What we do
 - Scientific networking, development of forums
 - Research agenda setting
 - Coordination of national, regional and international research programs
 - Research syntheses
 - Science-policy interfacing



2006

- International Conference on Managing Carbon at Urban and Regional Levels: Connecting Development Decisions with the Global Issues, 4-8 September 2006, **Mexico City**
- UNFCCC COP 12 side events on CDM and Urban Air Quality (with ECN Policy Studies Netherlands) on 14th November 2006 in **Bahia**
- International Workshop on Institutional Dimensions of Urban and Regional Carbon Management (with IHD P) on 5th December 2006 in **Bali**

2007

- International Workshop on Urbanization, Development Patterns and Carbon Implications (with IASA Austria) on 28-30th March 2007 in **Tsukuba**
- International Workshop on How to Model Low-Carbon Society (with Asia Energy-Environment Modeling Forum) on 30-31 May 2007 in **Beijing**
- UNFCCC COP-13 side event on Carbon Management in Cities: Gaps in Policy Discussions and Scientific Understanding, (with Asian Institute of Technology) on 6th December 2007 in **Bali**

2008

- International Symposium on Urban Energy and Carbon Management: Challenges for Science and Policy, 4 February 2008, AIT Centre, Pathumthani, **Thailand**
- International Workshop on Urban Energy and Carbon Modeling, February 5-6, 2008, AIT Centre, Pathumthani, **Thailand**



Urban and Regional Carbon Management

- Products to date
 - Thematic and integrative international science network
 - Urban Energy and Climate Modeling Forum (with others)
 - URCM science framework and research agenda
 - Scientific publications (9 scientific articles in journals and books in 2005/8)
 - URCM Web-page, www.gcp-urcm.org
 - Web-based URCM Resource Center (**searchable database**)
 - Research nodes, research initiatives, scientific resources, city action plans

