

## Foreword

Welcome to Kyoto.

I am delighted to have you here to participate and share in the 4th Trilateral Science and Technology Policy Seminar.

That, all of you here are going to work together for coming two days, reminds me just how important the series of this seminar is.

We have actively, and of course, very sincerely committed to science and technology policy researches. The Trilateral Science and Technology Policy Seminar was launched in 2006 at the initiative of National Institute of Science and Technology Policy, or NISTEP, as a platform where five of the leading science and technology policy research institutes of our three countries can meet together in a single location and deepen exchanges in connection with our research.

Since we began this seminar, each of the member institutes has served as host. In 2007, the host organization was The Science and Technology Policy Institute (STEPI) of Korea. The 2008 seminar was held in Beijing, and was hosted by The Chinese Academy of Science and Technology for Development (CASTED) and The Chinese Academy of Sciences, Institute of Policy and Management (CAS/IPM).

We are now in the fourth year of this series, and the seminar has returned to Japan. In addition to a further deepening of research exchanges, one particularly important goal of this meeting is exchanges among young researchers. We believe that this will contribute to the further development of the field of science and technology policy research in the future, and to the formation of career paths for the young researchers themselves.

This year's seminar will consist of six sessions, which will be held over a two day period on October 8<sup>th</sup> and 9<sup>th</sup>. In Session 1, each of the institutes will introduce the highlights of science and technology policy and research activities. Session 2 will focus on the topic of "National Innovation Systems and Economic Growth." This session will include an introduction of concrete examples of innovation activities in each country and the economic effects of those activities. The topic of Session 3 is "Science and Technology Foresight." With "technology foresight" as the key word, the priority science and technology fields in each country will be introduced. Session 4 concerns the important issues on "Science and Technology for a Green Society." Here, the focus of the presentations and discussion will be the efforts of each country

to apply science and technology to prevention of global warming and climate change. The topic of Session 5 is “Science and Technology Human Resources.” This session will focus on the trends of R&D human resources mobility and career development of postdoctoral fellows in each country with emphasis on horizontal movement among domestic and international institutions.

Tomorrow afternoon, we will visit two advanced facilities at Kyoto University. These are the Disaster Prevention Research Institute and the Laser Science Laboratory of the Institute for Chemical Research. The Center carries out synthetic observational and experimental research projects, collaborating with researchers inside and outside to respond social needs. The Laser Science Laboratory is part of a leading edge research center, the Advanced Research Center for Beam Science, and is involved in fusion of beam science and applied research for nanoscience.

Last month a new cabinet was inaugurated by Prime Minister Hatoyama. He is deeply committed to cooperative relationships with the East Asian nations. In particular, he is energetically promoting international cooperation with China and Korea.

The city of Kyoto was constructed in the 8<sup>th</sup> century, modeled on China’s *Zhang an*, and was the capital of Japan in those times. During that period, many people also came from the Korean Peninsula to settle down in the Kyoto area. Because Kyoto has long been a center of exchanges between China and Japan and Korea and Japan, it is particularly significant that we are holding this trilateral seminar here.

I strongly hope that this meeting will provide the opportunity for our three countries to advance to a new stage of cooperation in science and technology policy.

Thank you.

October 8, 2009

Tomoaki Wada, Director General

National Institute of Science and Technology Policy  
Ministry of Education, Culture, Sports, Science and Technology

## Program

<b>Day 1: 8 October 2009</b>	
<b>09:30–09:40</b>	<b>Welcome Speech by Mr. Tomoaki Wada, Director General, NISTEP</b>
<b>Session 1: Highlights of Research Activities in Each Institution</b>	
Session chair: Mr. Tomoaki Wada, Director General, NISTEP	
09:40-10:00	“Recent Progress on Japan’s Science and Technology Policies”  Tomoaki Wada Director General NISTEP
10:00-10:20	“Contribution of NISTEP to S&T Policy Planning Process”  Eiichiro Watanabe Director, Planning Division NISTEP
<b>10:20-10:30</b>	<b>Break</b>
10:30-10:50	"STEPI's Contribution to the National Green Growth Five-Year Plan"  Suk Joon Kim President STEPI
10:50-11:10	"The Analysis of National R&D Performance and Policy Implications in Korea"  June Seung Lee President KISTEP
11:10-11:30	“Research Highlights in IPM”  Mu Rongping Director General CAS/IPM
11:30-11:50	“New Research Progress in CASTED”  Qiquan Yang Vice President, Senior Researcher CASTED
11:50-12:00	Discussion
<b>12:00–13:00</b>	<b>Luncheon (Restaurant)</b>
<b>Session 2: National Innovation System and Economic Growth</b>	
Session chair: Prof. Mu Rongping, Director General, CAS/IPM	
13:00-13:20	“National innovative city and regional innovation system in China: Evaluation index system and policy suggestion”  Song Hefa, Associate Professor CAS/IPM
13:20-13:40	“Constructing a New Investment System for Science and Technology in China”  Rong GUO Deputy Director, Institute of Science and Technology Investment CASTED
13:40-14:00	“Analysis of TFP(Total Factor Productivity) as the Indicator of Innovation Outcomes”

	Hiroshi Mitsuhashi Senior Research Fellow, 3rd Policy-Oriented Research Group NISTEP
14:00-14:20	“Diffusion of New Goods and their Quantitative Impacts on National Welfare: Three Cases from Japan”  Hiroshi Ohashi Affiliated Director of Research , 1st Theory-Oriented Research Group NISTEP
14:20-14:40	"Innovation, Growth and Change of Strategy in Korea"  Jin-Gyu Jang Director, New Growth Engines Research Center STEPI
14:40-14:50	Discussion
<b>14:50–15:00</b>	<b>Coffee Break</b>
<b>Session 3: Science &amp;Technology Foresight</b>	
Session chair: Dr. Sukjoon Kim, President, STEPI	
15:00-15:20	"Linking Mega Trends with S&T Policy"  Jung-Won Lee Director, Future S&T Strategy Center STEPI
15:20-15:40	“Strategic Scenario Planning on Energy Efficiency”  Sang-Sung Nam Research Fellow, Technology Foresight Center KISTEP
15:40-16:00	“New Trends of Technology Foresight in China”  Ren Zhongbao CAS/IPM
16:00-16:20	“Searching for S&T Foresight for the New Era”  Kumi Okuwada Director, Science and Technology Foresight Center NISTEP
16:20-16:30	Discussion
<b>Session 4: Science &amp;Technology for Green Society</b>	
Session chair: Dr. Yang Qiquan, Vice President, CASTED	
16:30-16:50	“Evaluation on China’s Agricultural Innovation System – A Review on

	<p>Progress, Status Quo and Major Experience”</p> <p style="text-align: right;">LIU Dongmei</p> <p style="text-align: center;">Deputy Director, Institute of Rural and Regional Development</p> <p style="text-align: right;">CASTED</p>
16:50-17:10	<p>“Estimating the Macroeconomic Cost of CO2 Emissions Abatement in China Based on Multi-objective Programming”</p> <p style="text-align: right;">Ying Fan</p> <p style="text-align: right;">Professor</p> <p style="text-align: right;">CAS/IPM</p>
17:10-17:30	<p>“Japanese Strategy for Global Warming and Climate Change”</p> <p style="text-align: right;">Kuniko Urashima</p> <p style="text-align: center;">Leader, Environment &amp; Energy Unit</p> <p style="text-align: center;">Science and Technology Foresight Center, NISTEP</p>
17:30-17:50	<p>“Strategy of Green Technology in Korea”</p> <p style="text-align: right;">Il Hwan Lee</p> <p style="text-align: center;">Associate Research Fellow, R&amp;D Strategy &amp; Investment Analysis Division</p> <p style="text-align: right;">KISTEP</p>
17:50-18:00	Discussion

<b>Day 2: 9 October 2009</b>	
<b>Session 5: Science &amp; Technology Human Resources</b>	
Session chair: Dr. June Seung Lee, President, KISTEP	
09:30-9:50	<p>“The Characteristics of Korean Labor Market of Doctorate Holders in HRST” Jung-Jae Lee Senior Researcher, HRST Policy Division KISTEP</p>
9:50-10:10	<p>"Issues in Supplying High-skilled HRST for National Strategy" Kibeom Park Associate Research Fellow, STEPI</p>
<b>10:10-10:20</b>	<b>Break</b>
10:20-10:40	<p>“Researchers’ Mobility of Chinese Public Sectors” LI Xiaoxuan Professor CAS/IPM</p>
10:40-11:00	<p>“Mobility of Human Resources in Science &amp; Technology in Japan” Takayuki Nakatsukasa Senior Research Fellow, 1st Policy-Oriented Research Group NISTEP</p>
11:00-11:20	<p>“Career Trends of Recent Doctoral Graduates in Japan” Toshiyuki Misu Senior Research Fellow, 1st Policy-Oriented Research Group NISTEP</p>
11:20-11:30	Discussion
<b>11:30–12:00</b>	<b>Closing Session</b>
	<p>Session chair: Mr. Terutaka Kuwahara, NISTEP Commentary by Heads Announcement of Next Trilateral S&amp;T Policy Seminar</p>
<b>12:00–13:00</b>	<b>Luncheon</b>
<b>13:00–17:00</b>	<b>Excursion (Uji Campus, Kyoto University)</b>