

NISTEP

National Institute of Science and Technology Policy

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

**" 21st Century Innovation Systems for Japan and the United States:
Lessons from a Decade of Change "**

A Cooperative Symposium

Organized by

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

and

**The Board of Science, Technology, and Economic Policy
U.S. National Academies**

in collaboration with

Institute of Innovation Research, Hitotsubashi University, Japan

Preliminary Program

January 10-11, 2006

**Mita Kaigisho
Tokyo, Japan**



Innovation is a key driving force for economic growth in the 21st century in Japan and the United States. Aiming at strengthening innovative capabilities, both countries have introduced and implemented various reforms and new policies for the last ten years, through encouraging university–industry collaboration, protection of intellectual property rights, and innovation by start–up companies. The purpose of this international Symposium is to share experiences and lessons in this field between Japan and the United States and to discuss future directions for innovations systems in the 21st century. The Symposium will bring together leading experts from academia as well as senior managers from business and the policy sector in both countries.

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A Cooperative Symposium

Day 1: January 10, 2006

9:30 AM Welcome

Introduction: Takashi Inutsuka, Director, Planning Division, NISTEP

Motohide Konaka, Director General, NISTEP

9:45 AM Opening Addresses

Chair: Terutaka Kuwahara, Deputy Director General, NISTEP

Challenges in the U.S. Innovation System

Donald Manzullo, United States House of Representatives

Evolution and Challenges to the Innovation System in Japan

Taizo Yakushiji, Member, Council for Science and Technology Policy, and Visiting Professor, Keio University

11:00 AM Coffee Break

11:15 AM Panel I: Government's Evolving Role in Supporting Corporate R&D—U.S. and Japanese Models

Moderator: Alice Amsden, Professor, Massachusetts Institute of Technology

Government's Support to Corporate R&D in Japan

Akira Goto, Professor, Research Center for Advanced Science and Technology (RCAST), University of Tokyo, and Faculty Fellow, Research Institute of Economy, Trade and Industry (RIETI)

Kazuyuki Motohashi, Associate Professor, Research Center for Advanced Science and Technology (RCAST), University of Tokyo, and Faculty Fellow, Research Institute of Economy, Trade and Industry (RIETI)

Government's Evolving Role in Supporting Corporate R&D—Theory and Practice

Stephanie Shipp, Director, Economic Assessment Office, National Institute of Standards and Technology

Marc Stanley, Director, ATP, National Institute of Standards and Technology

Discussant

Ichiro Nakajima, Director & Professor, New Industry Creation Hatchery Center, Tohoku University

12:45 PM Lunch

2:15 PM Panel II: Government-Industry R&D Partnerships—U.S. and Japanese Experiments

Moderator: Lonnie Edelheit, GE, ret.

Semiconductor Consortia in Japan: Experiences and Lessons

Hiroyuki Chuma, Professor, Institute of Innovation Research, Hitotsubashi University, and Affiliated Senior Fellow, NISTEP

Shuzo Fujimura, Professor, Tokyo Institute of Technology, and Visiting Professor, Institute of Innovation Research, Hitotsubashi University

Internationalization of American Industrial R&D: International SEMATECH and the International Roadmap

Kenneth Flamm, Professor and Dean Rusk Chair in International Affairs, Lyndon B. Johnson School of Public Affairs, University of Texas at Austin

Discussant

Kaoru Honjo, Executive Director, New Energy and Industrial Technology Development Organization (NEDO)

3:45 PM Coffee Break

4:00 PM Panel III: Government Programs to Encourage Innovation by Startups and SMEs

Moderator: Bradley Knox, Committee on Small Business, US House of Representatives

The U.S. Small Business Innovation Research Program

Charles Wessner, Director, Technology, Innovation, and Entrepreneurship, U.S. National Academies

Programs to Stimulate Startups and Entrepreneurship in Japan: Experiences and Lessons

Takehiko Yasuda, Professor, Toyo University

Discussant

Tetsuya Iizuka, President and CEO, THine Electronics

5:30 PM Reception

Day 2: January 11, 2006

9:30 AM Panel IV: Interaction between Intellectual Property and Innovation Systems

Moderator: Shozo Uemura, Former Deputy Director General, World Intellectual Property Organization (WIPO), and Visiting Professor, Research Center for Advanced Science and Technology (RCAST), University of Tokyo

Issues and Possible Reforms in the U.S. Patent System

Bronwyn Hall, Professor, University of California at Berkeley

Reform and Challenges of IPR protection in Japan

Sadao Nagaoka, Director & Professor, Institute of Innovation Research, Hitotsubashi University

Discussant

Mark Myers, Xerox, ret and The Wharton Business School, The University of Pennsylvania

11:00 AM Coffee Break

11:15 AM Panel V: Industry and University Collaboration
Moderator: Toshiya Watanabe, Professor, Tokyo University

Industry-University Partnerships in the United States
Irwin Feller, American Association for the Advancement of Science

Industry-University Partnerships in Japan
Masayuki Kondo, Affiliated Senior Fellow, NISTEP, and Professor, Yokohama National University; and Research Staff, NISTEP

Discussant
Gail Cassell, Eli Lilly

12:45 PM Lunch

2:15 PM Panel VI: Government Support for University Research
Moderator: Hiroshi Nagano, Principal Fellow, Japan Science and Technology Agency (JST)

Current Trends and Issues in the United States
Mary Good, Donaghey University Professor and Dean Donaghey College of Information Science and Systems Engineering, University of Arkansas at Little Rock

Current Trends and Issues in Japan
Ryuji Shimoda, Professor, Frontier Collaborative Research Center, Tokyo Institute of Technology

Discussant
James Turner, Committee on Science, U.S. House of Representatives

3:45 PM Coffee Break

4:00 PM Panel VII: Industry-University-Government Cooperation: The Biotechnology Challenge
Moderator: Bill Bonvillian, Office of Senator Lieberman, US Senate

Perspective on Current Trends in the United States
Gail Cassell, Eli Lilly

Is there a significant contribution of public sector in biomedical research in Japan? A detailed analysis of government/university patenting 1991-2001
Yosuke Okada, Associate Professor, Hitotsubashi University

Discussant
Hiroshi Akimoto, Managing Director, Takeda Pharmaceutical Company

5:30 PM Closing Summary and Remarks
Bill Spencer, STEP and SEMATECH, ret.
Sadao Nagaoka, Professor, Hitotsubashi University