

Shizuoka Cancer Conference 2014

Promoting Life Science Cluster Formation as
a Force for Regional Economic Development

March 7, 2015 (Saturday)

Plaza Verde (Fuji-no-kuni Senbonmatsu Forum)

Sponsored by Shizuoka Prefecture and the Shizuoka Cancer Center

Purpose of the Program

Full-scale regional economic development is set to begin, and expectations are high that medical services in support of healthy old age will serve as a driver of such development. At this conference, our aims will be to focus on efforts in different regions to move ahead with life science clusters, discuss approaches to achieving new regional economic development amid falling populations and the superannuated society, and indicate directions for the development of medical services to maintain healthy old age to serve as a source of growth for Japan in a world of global competition.

Ken Yamaguchi, MD, PhD

President, Shizuoka Cancer Center



Shizuoka Cancer
Conference 2014

March 7, 2015 (Saturday)

Convention Hall B, 3F, Plaza Verde

(Fuji-no-kuni Senbonmatsu Forum) 1-1-4 Otemachi, Numazu, Shizuoka, Japan

Program

Theme: Promoting Life Science Cluster Formation as a Force for Regional Economic Development

10:00	Opening Address	Heita Kawakatsu	Governor of Shizuoka Prefecture
10:10	Guest Speakers	Luvsansambuu Tumurbaatar	"Hope" Cancer-Free Mongolia National Foundation; General Director, National Cancer Center of Mongolia
		Lu Xianghong	Hospital Director, 6th Affiliated Hospital of Wenzhou Medical University, Lishui, Zhejiang, China
10:20	Introduction of the Conference	Ken Yamaguchi, MD, PhD	President, Shizuoka Cancer Center
10:40	Information Session	Building Regional Communities, Attracting Residents, and Creating Jobs	
		Takeo Hoshino	Counselor, Secretariat of the Headquarters for Overcoming Population Decline and Vitalizing Local Economy in Japan / Division Manager, Regional Economic Industry Policy Division, Regional Economy Industries Group, Ministry of Economy, Trade and Industry
	Keynote Lecture I	National Growth Strategies for Supporting Economic Development	
11:10	Special Address I-1	Healthcare Policy and a New Framework for Promoting Medical R&D	
		Toshihide Fukui	Director, Office of Healthcare Policy, Cabinet Secretariat
11:30	Special Address I-2	The Medical Devices Industry Policy of the Ministry of Economy, Trade and Industry	
		Hiroshi Tsuchiya	Director, Medical and Assistive Device Industries Office, Healthcare Industries Division, Commerce and Information Policy Bureau, METI
11:50	Special Address I-3	Efforts on the Part of the Ministry of Education, Culture, Sports, Science and Technology to Promote Cooperation Among Industrial, Academic, Government, and Financial Entities on a Local Basis	
		Takeshi Uchida	Senior Specialist, University-Industry Collaboration and Regional R&D Division, Science and Technology Policy Bureau
12:10	Question and Answer Session		
12:30	Lunch (60 minutes)		
	Keynote Lecture II	Trends in New Drug Development	
13:30	Special Address II-1	Toward the Application of iPS Cells to Drug Development	
		Shosaku Murayama	President & CEO, iPS PORTAL, Inc.
14:00	Special Address II-2	The Status of Traditional Chinese Medicine in China	
		Jing-Yan Han, MD, PhD	Dean, Department of Integration of Chinese and Western Medicine, Peking University Health Science Center
14:30	Break (15 minutes)		
	Session: Life Science Cluster Formation as a Force for Regional Economic Development		
		Chairs: Coordinator	Mamoru Sekiguchi
			Pharma Valley Center, Shizuoka Industrial Foundation
		Coordinator	Masakazu Kanemoto
			Pharma Valley Center, Shizuoka Industrial Foundation
14:50	Lecture 1	The Pharma Valley Project: New Facilities	
		Hideki Mizuguchi	Assistant Director, R & D Management Division, Commerce and Industry Bureau, Economy and Industry Department, Shizuoka Prefectural Government
15:10	Lecture 2	The Application of Precision Machining Technology Developed by Fukui's Eyeglass Frame Industry to Medical Device Component Production	
		Akira Inoue	Director & Sales Manager, Yoshida Industry Co., Ltd.
15:35	Lecture 3	Product Development Efforts and an Introduction to Multifunction Forceps for Endoscopic Surgery	
		Tsuneoyoshi Suzuki	Chairman & CEO, Suzuki Precion Co., Ltd.
16:00	Lecture 4	University Cluster Formation through Bringing Together Medical Welfare Devices in Fukushima Prefecture	
		Ken Ichiryu	Fukushima Pref. Medical & Welfare Device Promotion Program / Vice President, Kikuchi Manufacturing Co., Ltd.
16:25	Comprehensive Discussion		
16:50	Closing Address		

Please note: Lecture topics are subject to change.

Speaker Profiles / Overview of Lectures

Information Session

Building Regional Communities, Attracting Residents, and Creating Jobs

Speaker

Takeo Hoshino

Counselor, Secretariat of the Headquarters for Overcoming Population Decline and Vitalizing Local Economy in Japan / Division Manager, Regional Economic Industry Policy Division, Regional Economy Industries Group, Ministry of Economy, Trade and Industry



Curriculum Vitae

- 1987.3 Graduated from School of Engineering, University of Tokyo (Metallurgy Advanced Course)
- 1987.4 Entered Ministry of Economy, Trade and Industry
- 2007.7 Counselor (Advanced Device Industries), Minister's Secretariat
- 2009.7 Division Manager, Technical Cooperation Division, Trade and Economic Cooperation Bureau
- 2011.7 Division Manager, Nonferrous Metals Division, Manufacturing Industries Bureau
- 2012.9 Chief Engineer & Chief Information Officer, National Institute of Technology and Evaluation
- 2013.2 Counselor to Director-General, Reconstruction Agency
- 2014.7 Division Manager, Regional Economic Industry Policy Division, Regional Economy Industries Group
- 2014.9 Counselor, Secretariat of the Headquarters for Overcoming Population Decline and Vitalizing Local Economy in Japan (concurrent position)

Addressing the problem of shrinking regional economies, a consequence of the trend toward a low-birthrate, aging society, is a pressing challenge for Japan. In late 2014, the Cabinet Secretariat issued a strategy, with indications for measures to be adopted over the next five years, to attract a flow of new residents and build invigorated regional communities through new job creation. The presentation will cover specific efforts to promote this comprehensive strategy.

Keynote Lecture I: National Growth Strategies for Supporting Economic Development

Special Address I-1

Healthcare Policy and a New Framework for Promoting Medical R&D

Speaker

Toshihide Fukui

Director, Office of Healthcare Policy, Cabinet Secretariat



Curriculum Vitae

- 1995.3 Graduated from Graduate School of Engineering, Nagoya University
- 1995.4 Joined the Science and Technology Agency
- 2002.6 Graduated from Simon School, University of Rochester
- 2004.7 Director, General Affairs Division, Department of General Affairs, Osaka University
- 2007.7 First Secretary, Embassy of Japan in Germany
- 2014.7 Director, Office of Healthcare Policy, Cabinet Secretariat

Japan is first among the nations of the world in facing the challenges of transitioning to a superannuated society. One of the most important challenges will be the extension of healthy old age through the world's most advanced medical technologies and services to realize a society of healthy, long-lived individuals. The presentation will include a summary of the Healthcare Policy formalized by the Japanese Cabinet on July 22, 2014, which looks ahead to this challenge, as well as research and development in new medical fields to be overseen by the Japan Agency for Medical Research and Development, to be established on April 1, 2015.

Special Address I-2

The Medical Devices Industry Policy of the Ministry of Economy, Trade and Industry

Speaker

Hiroshi Tsuchiya

Director, Medical and Assistive Device Industries Office, Healthcare Industries Division, Commerce and Information Policy Bureau, METI



Curriculum Vitae

- 1998.4 Entered Ministry of Economy, Trade and Industry
- 2008.7 Assistant Division Manager, Energy Efficiency and Conservation Division, Energy Conservation and Renewable Energy Department, Agency for Natural Resources and Energy
- 2010.6 Assistant Division Manager, Service Affairs Policy Division, Commerce and Information Policy Bureau
- 2011.6 Assistant Division Manager, Policy Planning Division, Energy Conservation and Renewable Energy Department, Agency for Natural Resources and Energy
- 2012.7 Policy Planning Committee Member, General Affairs Division, Minister's Secretariat
- 2013.6 Policy Planning Committee Member, Agency for Natural Resources and Energy
- 2014.6 Director, Medical and Assistive Device Industries Office, Healthcare Industries Division, Commerce and Information Policy Bureau, METI

The Japanese government has positioned the medical industry, including the medical devices industry, as a growth industry to be developed into a driver of the Japanese economy, and is actively seeking to strengthen research and development as well as promoting cross-border collaboration. The presentation will cover the ministry's support for the collaboration between medicine and industry, the development of innovative medical devices and the launch of the Medical Device Development Support Network, in view of overall government policy and ahead of full-scale operation of the Japan Agency for Medical Research and Development.

Special Address I-3

Efforts on the Part of the Ministry of Education, Culture, Sports, Science and Technology to Promote Cooperation Among Industrial, Academic, Government, and Financial Entities on a Local Basis

Speaker

Takeshi Uchida

Senior Specialist, University-Industry Collaboration and Regional R&D Division, Science and Technology Policy Bureau



Curriculum Vitae

2005.4	Entered the Ministry of Education, Culture, Sports, Science and Technology
	Nuclear Safety Division, Science and Technology Policy Bureau
2007.7	Traditional Culture Division, Cultural Properties Department, Agency for Cultural Affairs
2008.5	Lifelong Learning Promotion Division, Lifelong Learning Policy Bureau
2009.7	2nd Division, 5th Department, the Legislative Bureau of the House of Councillors
2011.7	Facilities Planning Division, Department of Facilities Planning and Administration, Minister's Secretariat
2013.7	University-Industry Collaboration and Regional R&D Division, Science and Technology Policy Bureau

Regional efforts to promote scientific and technological innovation will create and nurture new regional growth industries, and will be important for regional revitalization through medium- to long-term promotion of industry and job creation. The presentation will cover topics discussed in the most recent advisory councils and introduce new initiatives for 2015, touching on measures taken so far by the ministry to promote regional science and technology, and will include comments on notable aspects of regional efforts to promote scientific and technological innovation.

Keynote Lecture II: Trends in New Drug Development

Special Address II-1

Toward the Application of iPS Cells to Drug Development

Speaker

Shosaku Murayama

President & CEO, iPS PORTAL, Inc.



Curriculum Vitae

1972.3	Graduated from Doshisha University, Bachelor of Economics
1980.5	M.A. (Economics), University of California, Los Angeles
1972.4	Joined the Bank of Japan
1981.2	Economist, New York Office, Bank of Japan
1987-1988	Lecturer (Econometrics), University of Tokyo
1994.11	General Manager, Takamatsu Branch, Bank of Japan
1998.6	Director, Research and Statistics Department, Bank of Japan
2002.3	President & CEO, Teikoku Seiyaku Co., Ltd.
2011.6	President & CEO, iPS Academia Japan, Inc.
2011.7	Advisor, Hyakujushi Bank (concurrent position)
2013.6	Director, Forum for Innovative Regenerative Medicine (concurrent position)
2013.6	Director, Screen Holdings, Co., Ltd. (concurrent position)
2014.6	Director, Toho Holdings, Co., Ltd. (concurrent position)
2014.7	President & CEO, iPS PORTAL, Inc.

Expectations are rising with respect to the application of iPS cells to regenerative medicine. However, iPS cells also show great promise in the field of new drug development. In fact, from the standpoint of commercialization, the application of iPS cells to new drug development is more advanced. Safety testing using iPS cell-derived myocardial and other cell types is entering the realm of practical application as an adjunct to conventional animal testing. Elucidation of disease mechanisms using disease iPS and application of iPS cells to drug candidate screening are also making progress. If iPS cell applications continue to progress, they may lead to revolutionary new drugs and greatly reduce the need for drug development investment.

Special Address II-2

The Status of Traditional Chinese Medicine in China

Speaker

Jing-Yan Han, MD, PhD

Professor and Dean, Department of Integration of Chinese and Western Medicine, Peking University Health Science Center



Curriculum Vitae

Education	
1982.12	Graduated from Liaoning University of Chinese Medicine, Bachelor of Medicine
1989.7	Graduated from Graduate School of Liaoning University of Chinese Medicine, Master of Medicine
1999.6	Finished Graduate School of Medicine, Keio University
2002.10	Received PhD, Doctor of Medicine, from Graduate School of Medicine of Keio University, Japan
Professional and Teaching Experience	
1982.12	Assistant Professor, Department of Basic Chinese Medicine, Liaoning University of Chinese Medicine
1989.9	Assistant Professor, Department of Pathology and Physiology, 2nd Affiliated Hospital, Liaoning University of Chinese Medicine
1991.9	Visiting Researcher, Department of Internal Medicine, Keio University School of Medicine
2000.6	Visiting Researcher, Department of Internal Medicine, Keio University School of Medicine
2002.6	Co-Researcher, Department of Internal Medicine, Keio University School of Medicine
2004.9-present	Director, Tasy Microcirculation Research Center, Peking University Health Science Center
2008.5-present	Professor, Department of Integration of Chinese and Western Medicine, School of Basic Medical Science, Peking University Health Science Center
2009-present	Professor and Chair, Department of Integration of Chinese and Western Medicine, School of Basic Medical Science, Peking University Health Science Center
2009.4-present	Guest Professor, Department of Internal Medicine, Keio University School of Medicine
2010.9-present	Dean, Department of Integration of Chinese and Western Medicine, Peking University Health Science Center

With a population of 1.36 billion, China is facing many of the same medical issues as Japan. Cancer, ischemic heart disease, and cerebrovascular disease are the leading three causes of death. However, the Chinese medical system embraces Western medicine and traditional Chinese medicine as well as approaches to treatment that combine the two. In particular, Chinese and Chinese/Western medicine are effective in the treatment of chronic and complex diseases, and play an important role in health maintenance. The speaker has long been engaged in research and education relating to traditional Chinese medicine in both Japan and China. This lecture will cover traditional Chinese medicine education and treatment in China today, as well as the development of new medicines from traditional Chinese medicines.

Speaker Profiles / Overview of Lectures

Session: Life Science Cluster Formation as a Force for Regional Economic Development

Lecture 1

The Pharma Valley Project: New Facilities

Speaker

Hideki Mizuguchi Assistant Director, R & D Management Division, Commerce and Industry Bureau, Economy and Industry Department, Shizuoka Prefectural Government



Curriculum Vitae

1987.4	Entered Shizuoka Prefectural Government
2010.4	Chief, Planning and Human Resources Section, General Affairs Division, Secretariat of Shizuoka Cancer Center
2011.4	Director, Ito City Office
2013.4	Assistant Director, Research and Development Management Division, Commerce and Industry Bureau, Economy and Industry Department, Shizuoka Prefectural Government

With the goal of becoming the world's healthiest, longest-lived prefecture, Shizuoka Prefecture is promoting the Pharma Valley Project, a medical-health-industrial cluster. The project's achievements to date include the creation of a network of approximately 500 industrial, academic, government, and financial entities, and the development of more than 70 new products. To accelerate these activities, a new project anchor facility is being prepared on the site of a former prefectural high school adjacent to the Shizuoka Cancer Center. The project is pointing the way toward a new regional revitalization model based on open innovation by a wide range of large and small business enterprises.

Lecture 2

The Application of Precision Machining Technology Developed by Fukui's Eyeglass Frame Industry to Medical Device Component Production

Speaker

Akira Inoue Director & Sales Manager, Yoshida Industry Co., Ltd.



Curriculum Vitae

1983.3	Graduated from Yokohama City University, Bachelor of Commerce
1983.4	Entered The Fukui Bank, Ltd. Manager, Iizuka Branch (Fukui City) Manager, Takatsuki Branch (Osaka Pref.) Manager, Sabae Branch (Fukui Pref.)
2010.6	Entered Yoshida Industry Co., Ltd.
2013.11	Inaugurated as Director & Sales Manager

Fukui Prefecture's eyeglass frame industry, a prefectural mainstay industry accounting for approximately 95% of domestic eyeglass frame production, is under severe pressure from low-priced foreign imports. Titanium is used in many eyeglass frame components but is a difficult material to process. Many business enterprises are planning to enter the medical field by applying this precision machining technology for titanium, which as a highly biocompatible material is also used in many medical components. The presentation will profile the efforts of Yoshida Industry, which entered the medical field approximately 20 years ago, to build the internal structure required for success.

Lecture 3

Product Development Efforts and an Introduction to Multifunction Forceps for Endoscopic Surgery

Speaker

Tsuneyoshi Suzuki Chairman & CEO, Suzuki Precision Co., Ltd.



Curriculum Vitae

1949	Born in Kanuma City, Tochigi Pref.
1967	Employed by Tochigi Sogo Bank, Ltd. (present-day The Tochigi Bank, Ltd.) for three years
1970	Entered Suzuki Precision Devices LLC (present-day Suzuki Precision Co., Ltd.)
1991	President & CEO, Suzuki Precision Co., Ltd.
2010-present	Chairman & CEO, Suzuki Precision Co., Ltd.
<ul style="list-style-type: none">• Named as one of "300 Thriving Manufacturing Companies" by METI• Received the Tochigi Prefecture Active Industry Award from Tochigi Pref.• 2012, Received Encouragement Award at the MEDTEC Japan Innovation Awards• 2012, Received Japan Brand Award at the "Super" Manufacturing Parts Grand Awards• 2013, Received Minister's Award at the Manufacturing Nippon Grand Awards from METI	

Suzuki Precision was formerly engaged principally in the manufacture of components for motor sports and precision grinding components for semiconductor manufacturing devices. However, in 2005 it began to apply its core technologies of titanium alloy and miniaturized component processing to the development of medical devices, and put in place structures for product design, approval, and sales. The presentation will include perspectives on the experience gained from entering the medical device industry, as well as an introduction to the SP Ashura multifunction forceps for endoscopic surgery, the SP Asister N three mm-diameter forceps, and other medical device products developed by the company.

Lecture 4

University Cluster Formation through Bringing Together Medical Welfare Devices in Fukushima Prefecture

Speaker

Ken Ichiryu

Fukushima Pref. Medical & Welfare Device Promotion Program / Vice President, Kikuchi Manufacturing Co., Ltd.



Curriculum Vitae

1959	Graduated in Mechanical Engineering from Nagoya University
1981	Entered Hitachi Research Laboratory, Hitachi, Ltd. Received PhD from Nagoya University
1986	Principal Researcher, Technical Research Laboratory, Hitachi Construction Machinery Co., Ltd.
1996	Professor, Mechanical Control Department, Tokyo University of Technology
2006	Director, Research Laboratory, Kikuchi Manufacturing Co., Ltd.
2014	Vice President, Kikuchi Manufacturing Co., Ltd.

• JSME Award, Fluid Power Society Award

Fukushima Prefecture is promoting the next-generation basic industry through the formation of medical welfare business clusters. Kikuchi Manufacturing is also responding to this initiative by developing robots and medical welfare devices through collaboration with universities. At our production facility in Minamisoma, the company is contributing to recovery through the formation of a university research cluster, which consists of three groups. Group 1 is a Fukushima Prefecture Disaster Response Robot Industry Cluster support enterprise consisting of a four-armed robot developed by Waseda University, a helicopter with power generator developed by Chiba University, and a disaster evacuation assistance robot developed by Tokyo University. Group 2 is pursuing a range of research themes in support of the Fukushima Medical Welfare Project, while Group 3 is a cluster of other universities with associated research organizations. The projects being pursued by these groups in the university cluster should be an effective method for attracting young researchers, as well as promoting economic revitalization of disaster-struck regions if these products can be placed into production.

Pharma Valley Project New Base Facilities

Project Support & Research Zone

- As a core support organization, the Pharma Valley Center will open its doors and provide one-stop support for regional companies and other entities.
- In the laboratory, experimental facilities, and research support center, partners will consist of companies that engage in R&D and consultancies that support R&D.
- ▶ The soliciting of partners is slated to start from summer 2015.
- A permanent exhibition site, relaxation area, conference rooms and other facilities will be provided as venues for interaction and means of developing individuals as medical and health care professionals.

▶ To open in September 2016.

Regional Company Development & Production Zone

A rental plant will be made available for regional companies operating in the medical and health care industry as a place for integrating development and production into a single process with an eye to business expansion.

▶ Tokai Buhin Kogyo Co., Ltd. has signed on as a partner.

▶ To open in March 2016.

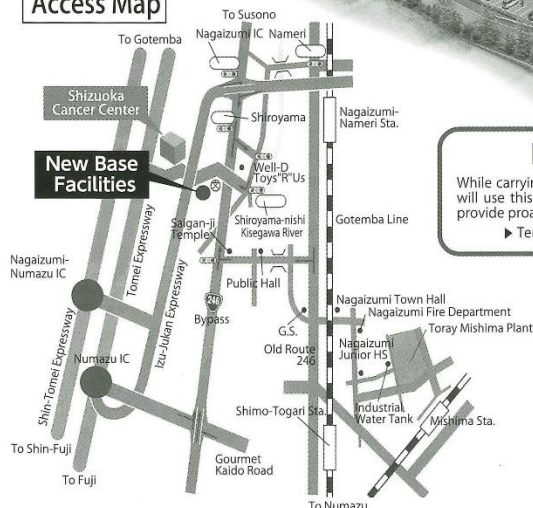
Leading Partner Zone

While carrying forward their own high level R&D, major companies will use this zone as a development and production base as they provide proactive support for regional and partner companies.

▶ Terumo Corporation ME Center has signed on as a partner.

▶ To open in March 2016.

Access Map



Functions of the Pharma Valley Project New Base Facilities

- Collaboration with the Shizuoka Cancer Center and leading partner companies.
- An environment conducive to interactions between different industries as well as medical and health care professionals.
- Integrated support from the Pharma Valley Center.
- Backup for partner companies from full-time lab managers.