



清华大学

Tsinghua University

UICC Newsletter

UICC (University-Industry Cooperation Committee), Tsinghua University

Focus On

DISTINGUISHED GUESTS FROM OVERSEAS STRATEGIC PARTNERS ATTEND TSINGHUA CENTENARY CELEBRATION CEREMONY

On April 24th, Presidents and Vice Presidents from many of Tsinghua's overseas strategic partners, including GM, Boeing, UTC, P&G, Intel, Cummins, IBM, Microsoft, BP, Siemens, Daimler, Veolia Environment, Toyota, MHI, Toshiba, Hitachi, Sony, Nissan, and SK, attended the Tsinghua Centenary Celebration Ceremony, which was held in the Great Hall of the People.



After the ceremony, Vice President of Tsinghua University Kang Kejun welcomed the distinguished guests from overseas strategic partner companies at the St Regis Hotel.

In his speech, Kang Kejun, on behalf of Tsinghua University, extended heartfelt thanks to the distinguished guests for coming from far away to witness the great moment of Tsinghua centenary celebration. Over the past 100 years, generations of Tsinghua's faculty and alumni have made significant contributions to China's development in wide-ranging and profound ways, such as the cultivation of talent, the creation of cutting-edge technology, and the provision of social services. Tsinghua has always stressed the importance of collaboration with industrial partners, and has maintained close partnerships with many leading international companies. The leading technology and international experience of these overseas partner companies have in turn contributed to research at Tsinghua and to talent cultivation. Kang Kejun extended his sincere gratitude for the continuous and generous support of Tsinghua's overseas partner companies, and added that the centenary of Tsinghua marks an important milestone as well as a new starting point in Tsinghua's development. He expressed the hope that Tsinghua and overseas partner companies could continue to enhance these partnerships and develop even further such win-win models of cooperation in the future.

The distinguished guests said that they were very impressed by the Tsinghua Centenary Celebration Ceremony held at the Great Hall of the People. After many years of cooperation with Tsinghua University, many remarkable achievements of collaborative research have been applied to industrial production, and have had great impact on both economic and social development. The guests said that in the future they would continue to promote their comprehensive cooperation with Tsinghua University in research, talent cultivation and information exchange.



In the afternoon of April 24, the distinguished guests also visited the Scientific Research and Development Achievements Exhibition, which was held in the West Stadium of Tsinghua University.

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This edition is prepared by the staff of the

Overseas R&D Management Office, UICC, Tsinghua University

Room 1203, Hua Ye Building Tsinghua University Beijing 100084, P.R. China

Tel: +86-10-62773190 +86-10-62796025

uicc@tsinghua.edu.cn

Highlight

TSINGHUA CENTENARY CELEBRATION RECEPTION FOR GOVERNMENT LEADERS AND FOR CHINESE AND OVERSEAS ENTREPRENEURS

On April 23rd, the Tsinghua Centenary Celebration Reception for Government Leaders and for Chinese and Overseas Entrepreneurs was held at Hotel New Otani Chang Fu Gong. Over 200 distinguished guests from 16 overseas strategic partner companies and 50 large domestic Chinese companies, as well as leaders and representatives from over 20 provinces, attended the reception.



The event was hosted by the Vice Presidents of Tsinghua University, Qiu Yong. Vice President of Tsinghua University, Kang Kejun first delivered a speech on behalf of Tsinghua, extending a warm welcome to the distinguished guests and alumni for their participation in the Tsinghua Centenary Celebration events and expressed his gratitude for their consistent support to the development of the university.

The distinguished guests expressed their congratulations to Tsinghua University on its centennial anniversary and wished that the relationship with Tsinghua could be strengthened so that their cooperation would achieve even greater successes in the future.



At the reception, local government leaders and representatives from domestic and overseas enterprises were invited to share their experience on their cooperation with Tsinghua University. Dr. Reinhold Achatz,

Global Vice President of Siemens AG and Advisory Professor of Tsinghua, gave an outline of the Center of Knowledge Interchange (CKI) in Tsinghua, set up in 2008, and which is the top level of cooperation between Siemens and universities. He also described the achievements in research collaboration and talent cultivation in their cooperation with Tsinghua.

The reception, being one of the important events of Tsinghua Centenary Celebration, was organized by the University-Industry Cooperation Committee (UICC), the School of Continuing Education, and the Career Center of Tsinghua University.

SPECIAL REPORT IN CHINA DAILY ABOUT TSINGHUA CENTENARY CELEBRATIONS

On April 26th, two feature articles entitled “Tsinghua: New Milestone in Research” and “Three Decades of International Cooperation”, were published in China Daily. The articles summarized the development and achievements of the scientific research collaboration between Tsinghua and international companies in recent years.

The special reports also included an interview with executives of some well-known multi-national companies, including Toyota, Siemens, GM, Toshiba, and UTC, all of whom have established long-term cooperative partnerships with Tsinghua University. The interviewees spoke highly of the achievements reached from their cooperation with Tsinghua University.

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Tsinghua: New milestones in research

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MULTINATIONAL ACCOLADES

Three decades of international cooperation

GLOBAL VICE PRESIDENT OF SIEMENS TALKS AT TSINGHUA FORUM

In the afternoon of April 27, Dr. Reinhold Achatz, Global Vice President of Siemens AG, and Advisory Professor of Tsinghua University, visited Tsinghua where he

delivered an inspiring speech at the Tsinghua Forum, entitled “Green Revolution: The innovative response to challenges of climate change”.

Firstly, Dr. Achatz briefly introduced the development of Siemens. With a history of 160 years, Siemens is one of the world’s largest electronics and electrical engineering companies, and has major businesses in the industrial, energy and healthcare sectors.

Innovation has always been one of important elements in the company’s business strategy. Siemens strives continually to involve new elements and concepts in its products, and as a result has achieved great success within its business areas.

Dr. Achatz also mentioned the challenges of globalization, urbanization, population aging, and climate change in his speech. He elaborated the linkage between climate change and natural disasters, and indicated that low-carbon technology is the key strategy to reduce greenhouse effects and to overcome climate change. Moreover he stressed that renewable energy and improvement of energy efficiency are effective ways to achieve such a low-carbon economy. In these areas, Siemens has already made significant efforts in the developments of wind, geothermal, water, and desert area energy. The company also seeks to reduce energy losses and to improve energy efficiency in energy production, transportation, and storage. For example, Siemens has adapted a variety of strategies to meet the different needs for long term and short term energy storage. Dr. Achatz also talked about developments in urban planning and new-energy vehicles, stressing that the concept of energy reduction should be introduced into urban transportation, roads, lighting and other urban infrastructure construction. He commented that in the future automobiles should be of a simple style design and of low cost, with the support of innovative information and communication systems.

The Tsinghua Forum event was organized by the Tsinghua Academic Committee, and is one of the 100 Academic Activities in honor of Tsinghua’s Centenary.

Work in Partnership

TSINGHUA-TOYOTA RESEARCH CENTER: 2ND PHASE OF COOPERATION AGREEMENT SIGNED

清华大学—丰田研究中心



On March 30th, the signing ceremony of the 2nd phase cooperation agreement of the Tsinghua-Toyota Research Center took place. Kang Kejun, Vice President of Tsinghua University, and Takeshi Uchiyamada, Vice President of Toyota, signed the agreement on the second phase of the five-year cooperation on behalf of each party. Government leaders from the Ministry of Environmental Protection, the Ministry of Science and Technology, the National Development and Reform Commission, and the National Natural Science Foundation attended the ceremony. In his speech, Kang Kejun acknowledged the success of the first five-year cooperation between Tsinghua and Toyota, and noted that many of the remarkable research achievements of the Tsinghua-Toyota Research Center have benefited social and economic development and have received recognition from society. For example, research results on the environment provided valuable reference data for improving air quality conditions during the Beijing Olympics and the Shanghai World Expo, wastewater treatment technology has been used to propose solution for factories, and research into driving behaviors in China has helped to improve vehicle safety. In addition extensive cutting-edge basic research into problems associated with high-capacity batteries has been done in the area of material science. At the same time the joint research projects have had a positive impact on the nurturing of gifted students with global vision. For Toyota, Mr. Uchiyamada pointed out that China is not only a market with many customers, but also an important manufacturing and R&D base. He

stressed that the establishment of the Research Center enhanced the cooperative relationship between Tsinghua and Toyota. In the second phase of cooperation, focusing on social needs and Toyota's global vision, the center will undertake research projects important both to the development of China and to the world.

After the signing ceremony, ten Tsinghua professors introduced their research achievements in areas including environmental science, energy, vehicle safety and materials science. More than 70 undergraduates, graduates and doctoral students from the School of Environment, the Global Environmental Research Center, and the Departments of Thermal Engineering, Automotive Engineering, and Materials Science and Engineering, took part in the meeting.

清华大学—丰田研究中心



Tsinghua and Toyota have a long-term cooperative relationship. Since 1997, Tsinghua and Toyota have already been jointly hosting "Advanced Automotive Technology Symposium" every year. With the aim of strengthening the strategic partnership, Tsinghua and Toyota signed their first five-year cooperation agreement in November 2005 and set up the Tsinghua-Toyota Research Center on March 23, 2006. The center has been actively engaged in joint research and development in the fields such as environmental science, energy, materials science, and vehicle safety technology. The steering committee of the center consists of representatives from Tsinghua and Toyota, with Kang Kejun, Vice President of Tsinghua University as Chairman, and Masatami Takimoto (formerly), Mr. Takeshi Uchiyamada (currently), Vice President of Toyota Motor Corporation as the Vice Chairman of the steering committee, and with Academician Hao Jiming as the Director of the center.

As the first university- level joint research center with an international

company, the Tsinghua-Toyota Research Center has achieved many achievements in scientific research and talent cultivation. Many patents have been jointly applied for, and over 40 joint papers have been published. A number of research achievements have been put into application, and undergraduate and graduate students have obtained valuable experience by being involved in center projects.

ANNUAL MEETING OF TSINGHUA – MHI R&D CENTER HELD

From May 5th to 6th, the annual meeting of the Tsinghua – MHI R&D Center was held in Tsinghua University. Nearly 90 experts from six research centers of Mitsubishi Heavy Industries (MHI), together with over a hundred faculty and students from Tsinghua University, attended the meeting.

In the afternoon of May 5th, the steering committee meeting of Tsinghua-MHI R&D Center was held. Kang Kejun, Vice President of Tsinghua University and Yosiaki Tukuda, Vice President of MHI attended the meeting, where they listened to the summary report from the directors of the R&D Center. In 2010, Tsinghua and MHI conducted 75 joint research projects in fields such as energy, fluids, heat transfer, materials, machining, electronics and architecture. Faculty members from 15 Departments and Schools, including the Departments of Materials Science and Engineering, Thermal Engineering, Industrial Engineering, Electronic Engineering, Automation, and Chemistry, and the School of Aerospace, have undertaken joint research projects. The steering committee members acknowledged the cooperation achievements and exchanged opinions concerning future cooperation between the two partners.



At the meeting on May 6th, project investigators reported their progress on joint research projects and discussed key technological issues related to the projects.

TSINGHUA - BOEING JOINT RESEARCH CENTER INAUGURATED

The inauguration ceremony of Tsinghua - Boeing Joint Research Center was held in front of the Liu Qing Building on May 23rd. The Center was then officially opened. The Tsinghua - Boeing Joint Research Centre is committed to developing research collaboration in the fields of aircraft cabin environment, interior concept, advanced materials, and computer science for aviation.



Kang Kejun, Vice President of Tsinghua University, Academician Fan Weicheng, Director of the Institute of Public Safety of Tsinghua University, Matt Ganz, Vice President & General Manager of Boeing Research and Technology, and Marc Allen, President of Boeing China, together inaugurated the research center.

Kang Kejun expressed his hope that the cooperation with Boeing would not only support the globalization strategy of Boeing, but also help improve the research capacity of Tsinghua University in the field of aerospace science and technology. "I am very confident that the cooperation between Boeing and Tsinghua will achieve great success," he said.

Matt Ganz said, "We are looking forward to working with Tsinghua's talented researchers and students to create value and benefit for the people of China and Boeing's customers."

"Boeing has been a proud partner with China in its aviation industry for 40 years. We are honored to continue that fine tradition through this collaboration with Tsinghua University. Quite simply, it is one of the best academic institutions in the world. The chance now to jointly develop new applications for civil aviation with the university is outstanding. It speaks volumes about the progress and development of aerospace in China", said Marc Allen, President of Boeing China.

A Tsinghua-Boeing Activity Day, with a series of academic lectures and a Boeing Scholarship Award Ceremony, was held in the Lecture Hall of the Department of Engineering Physics on the same day.

Al Bryant, Vice President and General Manager of Boeing Research & Technology-China, and Tang Chuanxiang, Head of the Department of Engineering Physics, and representatives from the Institute of Public Safety of Tsinghua University, participated in the ceremony and in the accompanying activities.

TSINGHUA-TOSHIBA ENERGY & ENVIRONMENT RESEARCH CENTER OPENED

On June 2nd, the Tsinghua - Toshiba Energy & Environmental Research Center was officially opened during a ceremony in the Reception Hall of the Main Building of Tsinghua University by Gu Binglin, President of Tsinghua University, and Noriko Sasaki, President of Toshiba.



Gu Binglin spoke highly of the collaboration between Tsinghua and Toshiba over the past years, and hoped that with effort from both parties, the research center could further promote the academic development of Tsinghua and make contributions to tackle the global challenges of energy conservation and environmental protection.

Mr. Sasaki expressed his gratitude for the assistance and sympathy from China after the earthquake in March. He also congratulated Tsinghua University on its centennial anniversary, adding that he sincerely hoped that Tsinghua and Toshiba will continue to enhance their cooperation in scientific research, and achieve greater successes together in the future.

Toshiba and Tsinghua kicked off the research collaboration in the fields of energy and environment in October 2007. Going a step further, the Tsinghua University (Department of Thermal Engineering) - Toshiba Energy and Environment Research Center was established in April 2008.

The Research Center is devoted to research in steam turbines and other power generating devices with high performance and long life-span, and to the development of technology in energy saving, smart grids, and CCS(Carbon Capture and Storage). Some technologies relevant for the situation in China, for example the development of wear resistant technology for hydro-turbines in hydro electric power stations, and the biosensors for water quality monitoring systems, have been developed. Moreover, some of these new technologies have entered into the phase of field verification. With the efforts from both parties, the research center has been upgraded via the new center to enhance the cooperative relationship with all departments of Tsinghua University.

Xie Weihe, Vice President of Tsinghua University, Ichiro Tai, Vice President of Toshiba, Akira Sudo, Executive Officer and Corporate Senior Vice President of Toshiba, and representatives from Departments of Thermal Engineering, Materials Science and Engineering, and Electrical Engineering, and from the School of Environment of Tsinghua also took part in the ceremony.

ACHIEVEMENT REPORT OF JOINT RESEARCH INSTITUTE OF

TSINGHUA AND SANYO HELD

On June 2nd, the achievements report of the Tsinghua (Dept. of Environmental Science and Engineering)-Sanyo (R&D Headquarters) Environmental Engineering Joint Research Center was held in the School of Environment, Tsinghua University. Project investigators Prof. Zhang Pengyi, Huang Xia, and Liu Wenjun of Tsinghua University delivered reports on the progress of the joint research projects, and discussed related technical issues with experts from Sanyo. Takashi Fukunishi, the General Manager of Planning Office, R&D Corporate Headquarters of Sanyo, gave an introduction to the business integration and organizational set-up, and to potential cooperative areas of research, following the merger of Sanyo into the Panasonic Group. Yu Gang, Dean of the School of Environment, and Ma Jun, Director of the Overseas R&D Management Office of Tsinghua, attended the meeting.