



清华大学

Tsinghua University

UICC Newsletter

UICC (University-Industry Cooperation Committee), Tsinghua University

Focus On:

TSINGHUA UNIVERSITY HOLDS 5TH CROSS-STRAITS TSINGHUA ENERGY AND NANOTECHNOLOGY SYMPOSIUM

From October 13rd and 14th, scholars from the National Tsinghua University (Hsinchu), and over 40 scholars specialized in the research of energy and nanotechnology from Tsinghua University attend the 5th Cross-Straits Tsinghua Energy and Nanotechnology Symposium, which is held at Tsinghua University in Beijing.

The Symposium was organized by the Office of Scientific R&D of Tsinghua University. The parallel group discussion on energy and nanotechnology were respectively organized by the Institute of Nuclear and New Energy Technology and the Department of Materials Science and Engineering of Tsinghua. The parallel group meeting on Oct. 13rd, involved the aspects of the research in nuclear energy, renewable energy, nanomaterial technology and application, and GHG reduction technology. Researchers from the Institute of Nuclear and New Energy Technology, the Departments of Materials Science and Engineering, Thermal Engineering, Engineering Physics, Chemical Engineering, Physics, Chemistry, Mechanical Engineering, Automotive Engineering, the Schools of Aerospace, Environment and Law took part in the discussion.

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At the plenary meeting on Oct. 14th, Kang Kejun, vice president of Tsinghua University and Ye Mingquan, vice president of National Tsinghua University (Hsinchu), gave speeches reviewing the R&D collaboration of two universities, and making suggestions on how to promote further cooperation in energy, nanotechnology and other fields in the future. Academician Ni Weidou, from the Department of Thermal Engineering of Tsinghua University, Zhang Zhengjun, Dean of the Department of Materials Science and Engineering of Tsinghua University, Kai Zhizhong, Director of the Center for Energy and Environmental Research of National Tsinghua University, and Xie Guangqian, Director of the Center for Nanotechnology of National Tsinghua University, delivered detailed introduction on the developmental demands and strengths of each university in fields of energy and nanotechnology. Project Investigators of the independent research projects from both universities, Zhu Yongfa from the Department of Chemistry of Tsinghua University, Liu Jing from the School of Medicine of Tsinghua University, Ma Zhenji from the Department of Chemical Engineering and Liu Chengxian from the Department of Power Mechanical Engineering of National Tsinghua University (Hsinchu), gave reports on achievements resulting from the research in nanotechnology and new energy batteries.

On Oct. 14th, the presidents of two Tsinghua universities exchanged their ideas on cooperative model and potential of two universities in the future. In the afternoon of the same day, the delegation of National Tsinghua University (Hsinchu) also visited labs of Tsinghua University (Beijing).

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Highlights:

SIEMEN CTO VISITS TSINGHUA UNIVERSITY

On Oct. 25th, Chen Xu, vice chairman of the university council, welcomed Klaus Helmrich, CTO and member of the managing board of Siemens AG at Tsinghua University.



First of all, Chen Xu expressed her heartfelt thanks to Mr. Helmrich for his support on the cooperation between Tsinghua and Siemens over the years. She said, as early as in 1995, Tsinghua and Siemens had established a cooperative partnership. The cooperation on R&D made a great progress especially after the establishment of the Center for Knowledge Interchange in 2008, which is the highest level of R&D cooperation with university for Siemens worldwide. The year 2011 is the centenary of Tsinghua University. She hoped that the visit of Mr. Helmrich, at this special time, would continue to promote the comprehensive cooperation in areas of scientific R&D, personnel training and exchange.

Since Tsinghua University is one of Siemens's most important research partners, Mr. Helmrich chose Tsinghua University as the first stop for his visit to Chinese universities, after his appointment as CTO of Siemens. He set a high value on the achievements resulting from the cooperation between Tsinghua and Siemens and expressed his wish to strengthen the partnership and promote the flagship cooperative projects in energy, environment and new materials.

At the meeting, Chen Xu and Mr. Helmrich also exchanged ideas and made detailed discussion on the future cooperative plans including building green campus, jointly organizing student competition and Siemens Science-Technology Innovation Day.

Attended the meeting were also related officials from Office of Scientific R&D, Department of Thermal Engineering and Department of Materials Sciences and Engineering.

Siemens AG is one of the biggest electronics and electrical engineering companies worldwide, operating in industry, energy and healthcare sectors. The cooperation between Tsinghua University and Siemens has been fruitful: in 2007, a strategic cooperative agreement was signed; in 2008, CKI was established; in 2009, a post-doctoral workstation authorized by Ministry of Personnel was set up; and in 2010, Siemens became a member of the University-Industry Cooperation Committee (UICC) of Tsinghua University.

PRESIDENT OF STOCKHOLM UNIVERSITY VISITS

On Nov. 15th, Kare Bremer, President of Stockholm University, and Pia Furstebach, Director of the Research Liaison Office, visited the Office of Scientific R&D, Tsinghua University. Jiang Peixue, Executive Deputy Director of the Office of Scientific R&D, and Ma Jun, Director of the Overseas R&D Management Office, met with the guest, exchanging ideas on the further promotion of collaborations of two universities.

At the meeting, Jiang Peixue briefed the guests on the recent development of R&D at Tsinghua University, wishing to strengthen R&D collaboration with Stockholm University in fields with shared interests. Kare Bremer wished that on the basis of cooperation in fields of environmental science, life science and chemistry which were research interests of both universities, Tsinghua University and Stockholm University could establish a long-term relationship. They also discussed and shared their views on how to jointly apply for the projects supported by Euro-Research Council and EU Framework.

Founded in 1878, Stockholm University is the biggest university in Sweden, and the region's center for higher education and research in science, humanities, the social science and law. Among the alumni of the university, there have been four Nobel laureates. At present, there are 34,000

students studying at over 80 departments of 4 schools.

MICROSOFT VICE PRESIDENT AT TSINGHUA FORUM

On Nov. 8th, Brad Smith, General Counsel and Executive Vice President of Microsoft, visited Tsinghua University and gave a speech titled "Creating Opportunity through Technology: A Case Study of Microsoft and the US Technology Sector as a Model for Growth through Innovation" at the Tsinghua Forum.

Before the speech, Tsinghua Vice President, Xie Weihe welcomed Mr. Smith on behalf of Tsinghua University and made a brief introduction on the recent developments of R&D, international collaboration and talent training at Tsinghua University. He said that Mr. Bill Gates is an old friend of Tsinghua, there has always been a good cooperative relationship between Tsinghua and Microsoft. He hopes that cooperation could be deepened and the areas of collaboration could be expanded. Mr. Smith said, Microsoft has been attached great importance to the collaboration with Tsinghua, and he hoped that both sides could continue keeping close partnership and exploring new forms of cooperation in the future.



After the meeting, Mr. Smith gave his speech on technological development and innovation. He shared with the viewers the pioneering story and innovative measures of Microsoft, talked about the significance of innovation for the development of technology and the company, and how technological innovation affects our life. He also talked about how to cope with global challenges and the issue of training of young talents. After the speech, Mr. Smith had a stimulating discussion with students of Tsinghua University.

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Work in Partnership

DELEGATION OF PURDUE UNIVERSITY VISIT TSINGHUA

On Dec. 13, Mr. Shi Zongkai, Deputy Secretary of Party Committee of Tsinghua University, met with the delegation of Purdue University, led by Mr. Tim Sands, Deputy Vice President and Dean of Purdue University. Mr. Shi Zongkai spoke highly of the collaborative results of scientific R&D and academic interchange, and advised that student exchange activities would be favorable. Afterwards, Mr. Sands and his group discussed with Office of Scientific R&D the independent research cooperation and technology transform issues. Then they visited the Foxconn Nano Center on the campus.



In the evening, Mr. Chen Jining, Deputy Vice President of Tsinghua University entertained the guests from Purdue University, and they talked about the development and management issues of an outstanding university.

Renowned for its science, engineering and agriculture, Purdue University is called "Father of Aerospace of the USA". Purdue University and Tsinghua University are strategic partners, having a close partnership in scientific collaboration, students fostering and academic exchange, etc.

TSINGHUA UNIVERSITY-TOYOTA RESEARCH CENTER MANAGEMENT COMMITTEE MEETING

On Dec. 8, the 12th Management Committee Meeting of Tsinghua University-Toyota Research Center was held in Tsinghua University. Mr. Yuan Si, Vice President of Tsinghua University, Mr. Takeshi Uchiyama, Deputy Director of Toyota Motor Corp., and committee members from both sides attended the meeting held by Ms. Ma Jun, Director of Overseas R&D Management Office. Research center director, Academician Hao Jiming, gave a report on the 8 joint

projects in 2011. The committee gave advice on the job of next phase, and a candidate list of a new academic committee was passed. Mr. Yuan Si highly spoke of the collaboration of Tsinghua University and Toyota. He said, the joint projects have the following features: related to people's livelihood, exploring the cutting edge of technology, facing global issues, combining personnel fostering and very fruitful. The first 5-year collaboration has gained results that won acclaim from experts and the government. Now the centenary of Tsinghua University opened up the second 5-year collaboration. In October, Toyota Motor Engineering & Manufacturing (China) was established in Changshu. The research focus of TMEC would be designing models that are suitable for Chinese drivers, promoting the localization of new-energy automobiles, and carrying out further cooperative projects with various Chinese institutes.

VICE PRESIDENT YUAN SI MET WITH ACADEMICIAN FROM P&G

On Dec. 7, Tsinghua Vice President Mr. Yuan Si met with Mr. Matthias Schmidt, Academician of P&G and his group. They listened to the report of the operative cooperative projects, and exchanged opinions about expanding collaboration. Afterwards, the P&G group visited related labs in School of Information Science and Technology. Officials from Scientific Research Institute Overseas Office and Department of Computer Science and Technology attended the meeting.

As Tsinghua's strategic partner company, P&G joined UICC in 1996, being one of the earliest overseas members of UICC. In 1999, the P&D Research Fund was established, aiding certain research projects every year. Till now, the fund has supported over 50 scientific R&D projects, involving different fields such as chemical engineering, biotechnology, information, architecture and mechanical manufacturing, etc.

TECHNOLOGICAL SEMINAR OF KOREA'S SK

On Oct. 13, leading a group from the SK Technological Innovation Center (TIC), Mr. Byun Jae Woan, Managing Director visited Tsinghua University, and discussed with professors from

Department of Electrical Engineering the current situation and problems of smart grid in China, and the possible development in China's smart grid industry of foreign companies. After the meeting, the SK delegation visited the laboratory in Department of Electrical Engineering, getting to know more about the research ability and achievements of the department.



On Nov. 29, delegation from TIC of SK visited Medical School of Tsinghua University, and had a seminar with professors specialized in epigenetic heritage and cancer, systems neuroscience and neural engineering, etc. from Medical School. During the seminar, SK introduced its focus in health care and was informed of the research focus and results of Tsinghua University in related fields. They also discussed the technological details in possible cooperative areas. After the seminar, representatives from SK visited the medical microsystem technology lab and human gene research institute lab of Medical School.

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In addition, Mr. Smith also met with professors and researchers specialized in intellectual property from the School of Law, the School of Public Policy and Management of Tsinghua University, exchanged his ideas on the issue of protection and promotion of intellectual property.

Mr. Brad Smith is the Senior Vice President, General Counsel, and Corporate Secretary of Microsoft, head of the Legal and Corporate Affairs. He is in charge of all Microsoft's legal affairs, governmental relationship, and all kinds of affairs related with government, business world and community. He graduated from Princeton University summa cum laude, and received his doctoral degree in law from Columbia University.

Brief News

JAPANESE PARTNER COMPANIES VISIT TSINGHUA

On Sept. 9, Mr. Ochiai Machio, CTO and Managing Director of Toshiba Solutions Corporation visited Tsinghua University. Ms. Ma Jun, Director of Scientific Research Institute Overseas Office, had a talk with Mr. Ochiai. After the meeting, staff of Toshiba Solutions Corporation had a technological interchange in Department of Computer Science and Technology, reaching a cooperative willingness.

On Sept. 22, Mr. Ito, Chief Engineer of Toshiba Power Company, and his group visited Tsinghua University. Mr. Cai Ningsheng, Director of Tsinghua University-Toshiba Energy Environment Center, and Mr. Lv Lei from Scientific Research Institute Overseas Office discussed recent joint projects and the preparation of the agreement of Sino-Japan Energy Reservation Forum, etc. with representatives from Toshiba.

On Oct. 20, Toshiba CTO Mr. Sudo Akira visited Tsinghua University. He talked with Ms. Ma Jun, Director of Scientific Research Institute Overseas Office, about the collaboration in water, battery and language processing, etc., and reached the agreement that in March, 2012, a report of the joint projects and management committee meeting of the Tsinghua University-Toshiba Energy Environment Center would be held. After the meeting, Mr. Sudo paid a visit to the Tsinghua University-Toshiba Energy Environment Center.

On Nov. 25, Vice President of Tsinghua University Mr. Xie Weihe met with Mr. Watanabe from Toshiba, and Mr. Saitou, Director of Toshiba R&D Center. They reviewed the collaboration in fields of energy and environment. Mr. Xie Weihe suggested that in addition to the current cooperation in technological research, Tsinghua and Toshiba could also cooperate in policy research and smart community model, etc. Ms. Ma Jun and Mr. Cai Ningsheng accompanied the guests.

On Sept. 22, Mr. Bubo Yuu, Vice Director of LSI Commodity Office of

Rohm, Mr. Qi Peiheng and Mr. Zhangyue, Managers of Rohm, visited Tsinghua University. Mr. Lv Lei from the Scientific Research Institute Overseas Office talked with the representatives of Rohm, discussing the proposing process, results and problems in cooperation. He also introduced the cooperative modes and project selections that can be used by other companies. Both sides expressed the wish to expand cooperation in LSI.

On Oct. 28, Mr. Xie Weihe met with Mr. Shimada Keiichiro, SVP of Sony Company. Vice President Xie hoped that Tsinghua and Sony could reinforce their collaboration, expand cooperative content and area. Ms. Ma Jun introduced to the guests the general collaborative situations and modes of Tsinghua University and famous overseas companies. After the meeting, the guests from Sony Company visited the joint project, intelligent supervising, control and analyzing system.

SINO-JAPAN ENERGY EFFICIENCY AND ENVIRONMENTAL PROTECTION FORUM

On Nov. 26, the 6th Sino-Japan Energy-Efficiency and Environmental Protection Comprehensive Forum was held in the Great Hall of the People. This forum is co-organized by China's National Development and Reform Commission, Ministry of Commerce, Japan's Ministry of Economy, Trade and Industry, and the Federation of Economic Organizations. Vice Premier Li Keqiang attended the forum and gave an important speech. On this forum were signed 50 Sino-Japan energy efficiency and environmental protection projects. Tsinghua University has signed 5 joint projects (smart grid, railway locomotive power, etc.) with Toshiba and Hitachi. Ms. Ma Jun, Director of Scientific Research Institute Overseas Office, Mr. Cai Ningsheng, Vice Dean of Department of Thermal Engineering, Mr. Saitou, Director of Toshiba R&D Center, and Mr. Tanabe, General Manager of China R&D Company, Hitachi, attended the formal exchange of the agreements.

On Nov. 28, Mr. Jiang Xuepei, Deputy Vice President of Scientific Research Institute had a meeting with

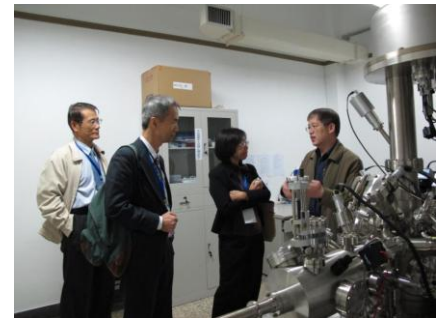
Prof. Naoto, Director of Research and Promotion Office of Waseda University. After the mutual introduction of scientific R&D and administration, both sides expressed the wish to establish a long-term cooperative relationship and reinforce scientific R&D collaboration. Also attended the meeting was Ms. Ma Jun, Director of Scientific Research Institute Overseas Office, etc.



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SPECIAL FOCUS:

On Oct. 14, deputy presidents of both universities exchanged their opinions on the independent scientific R&D projects and possible cooperation in the future. The delegation of Tsinghua University (Hsinchu) visited certain labs of Tsinghua University (Beijing) in the afternoon.



The shared history of the two Tsinghua Universities is without precedent in history and cannot be duplicated. At present, the annual Tsinghua University (Beijing and Hsinchu) Energy and Nanotechnology Symposium and frequent reciprocal visits are propelling mutual academic exchange and cooperative research. On the basis of the fruitful cooperation in energy and nanotechnology, the field of cooperation and exchange is expanded to IT, biomedicine, physics, environment, law and management, etc. The symposium has become a platform for multi-disciplinary discussion and cooperation.