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清華大學  
Tsinghua University

# Tsinghua Newsletter

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# News & Events

## Tsinghua Centenary Year Commenced

Tsinghua University launched its Centenary Year on April 25th, 2010, the 99th anniversary of its founding. President GU Binglin and University Council Chairman HU Heping attended the ceremony in the Reception Hall of the Main Building with many guests and alumni present.

“The Centenary will be a milestone,” said President GU. “Relying on our hundred years’ experience, and in keeping with our good traditions, we need to plan the new centennial advancement of Tsinghua.” At the ceremony Professor HU Heping clicked the linkage of the international website of the Centenary Year, which has editions in nine languages (<http://100.tsinghua.edu.cn>).

The Centenary Year will last for about fifteen months and reach its culmination in April, 2011. A series of academic, cultural, public service, international collaborative, and celebratory activities have been organized. Many of the world’s most renowned scholars and business leaders have been invited to the Tsinghua campus to deliver lectures and

participate in seminars. Tsinghua will also hold forums in other cities in China and abroad. The University will launch new and promote its existing public service programs, such



President GU (left) and University Council Chairman HU reveal the countdown screen



as educational programs in rural areas and volunteering in community service programs. During the Centenary Year, the university will send delegations to world-class universities for exchange activities as well as university exhibitions. The Tsinghua Alumni Association will work with many local chapters in China and abroad to organize a series of activities for alumni, encouraging them to strengthen their ties with their alma mater and contribute to world development.

## The 40th Anniversary of the Department of Automation

The Department of Automation at Tsinghua University is celebrating its 40th anniversary this year.

Since its inception, the Department has been well known as a launch pad for careers in the field of automation.

The Department has great capability for scientific research with its 119 faculty members. Many prestigious national and international research labs and centers have been instituted in it, including the National Engineering Center for Computer Integrated Manufacturing (CIMS), the Ministry of Education Key Lab for Bioinformatics, and the Joint Lab for Intelligent Transportation Systems.



Since 1987, the Department has undertaken hundreds of national-level research projects. Sixty-two have reached the advanced international level. Over the past four decades, faculty members of the Department have won 21 highest national awards, including three National Natural Science Awards, three National Technological Invention Awards and 15 National Scientific and Technological Progress Awards. The National Engineering Center for Computer Integrated Manufacturing also won the Leadership and Excellence in the

Application and Development of Integrated Manufacturing (LEAD) prize granted by the Society of Manufacturing Engineers in the United States.

At present, there are 661 undergraduates, 290 students pursuing master's degrees and 257 Ph.D. candidates in the Department. Over the past four decades, the Department has conferred doctorates on 467 students, master's degrees on 2,398 students, and bachelor's and associate degrees on 6,395 students.

## New Research Institutes Established at Tsinghua University



Recently, three new institutes were founded at Tsinghua University, covering areas of strategic environmental assessment, climate change and energy, and real estate.

The Center for Strategic Environmental Assessment at Tsinghua University (CENSEA)

was established in March, dedicated to the study of strategic environmental assessment (SEA) at different spatial scales, with an emphasis on causal relationship between socioeconomic systems and the environments.

The Tsinghua-UFRJ China-Brazil Center for Climate Change and Energy Technology Innovation (CCBCE) was established in April. The Center will be engaged in the development of low-carbon technology and economy, making contributions to the tackling of energy technology

innovation and global climate change.

The Hang Lung Center for Real Estate, Tsinghua University (CRE) was also founded in April. It will focus on research and teaching in this field as well as the development of relevant policies and contribute to the sustainable development of urban areas and the real estate market.



Founding Ceremony of CRE

## The Foundation Laying of Beijing Chang Gung Hospital

A foundation laying ceremony to launch the construction of Beijing Chang Gung Hospital was held in Tiantongyuan Community, Changping District in Beijing on April 20th. This will be a new clinical teaching hospital of Tsinghua University. Projected to open in 2013, it will be the first well-equipped hospital of the highest level in Tiantongyuan Community in Beijing. Its grounds will cover 750 acres and have 1,000 beds. The hospital's services will encompass

medical care, teaching, research, preventive health care and rehabilitation. It will provide convenient service to more than 40,000 residents in the community.

The construction of Beijing Tsinghua Chang Gung Hospital has been strongly supported by Taiwan Chang Gung Memorial Hospital as an advanced Cross-Straits medical cooperation.



## EU President Barroso Visits Tsinghua

European Commission (EU) President Jose Manuel Barroso visited Tsinghua on Friday, April 30th, as a significant part of his three-day official visit to China. On campus, he attended the opening ceremony of the Europe-China Clean Energy Center and delivered a speech on EU-China relations at Tsinghua's Main Building.

The Europe-China Clean Energy Center (EC2) is a project jointly launched by the European Commission, the National Energy Administration and the Ministry of Commerce of China to promote increased use of clean energy to combat climate change. The Center, located in the Sino-Italian Environment & Energy Building at Tsinghua University, will act as a platform to provide support for policy makers in both the Chinese and the European energy sectors. The inauguration of the Europe-China Clean Energy Centre highlighted a concrete example of successful developments in this bilateral cooperation.

Mr. ZHANG Guobao, head of China's National Energy Administration, and other representatives of the EU and the Chinese Government also participated in the opening ceremony. The event was hosted by Tsinghua Vice President YUAN Si. The Italian



President Barroso Delivers a Speech at Tsinghua



Inauguration Ceremony of EC2

Minister for the Environment, Land and Sea, Ms. Prestigiacomo and other distinguished guests extended their congratulations to the Center. Mr. Barroso and Mr. Zhang Guobao unveiled the Center together.

After the ceremony, Mr. Barroso delivered a speech on EU-China relations as part of the Tsinghua Global Vision Lectures Series. President Barroso said that Tsinghua symbolizes both China's rich past and its bright future and that the European Union is happy to be associated with the University through the EU-China Clean Energy Center. He extended his congratulations to Tsinghua's Centenary, which will be in 2011. President Barroso explained that his visit to China comes at an important time, as it coincides with the Shanghai Expo and also marks 35 years of EU-China Relations. He also expressed his hope that cooperation between the EU and China will continue to be strong for another 35 years, for "China and Europe, with great history, can make an even greater future."

## U.S. Commerce Secretary Gary Locke's Speech on Future Energy

U.S. Commerce Secretary Gary Locke delivered a speech on the future of energy to Tsinghua University students on May 21st.

In his speech, Locke attached great importance to Sino-American collaboration in the area of clean energy. He emphasized that "by mid-century, global energy use is going to double". Consequently, "the most daunting challenge the modern world has ever faced is to meet the energy needs of the 21st century without creating an environmental disaster."

He remarked that "Tsinghua is the preeminent clean energy academic think tank in China and a central player in clean energy research and design. Tsinghua's Low Carbon Energy Lab has played an important role in the formation of China's clean energy policies."

Locke also mentioned that the United States and China must lead the way in solving this energy problem to meet the energy needs of the 21st century, as the two countries are "the

largest emitters of climate change-causing greenhouse gases in the world".

After his speech, Locke answered questions from the students. In response to a question concerning greenhouse gas emission, Locke acknowledged that the U.S. emits more per capita than any other nation in the world--hence the need for collaboration and change.



Mr. Gary Locke with Tsinghua students

## Tsinghua Listed among "Most Beautiful Campuses" by *Forbes*



*Forbes Magazine* recently listed Tsinghua University among "The World's Most Beautiful Campuses" with the recommendation of a panel of architects and campus designers. Of the 14 picks, Tsinghua is the only one in Asia, with 10 in the USA and three in Europe.

According to the *Forbes* website, the Tsinghua campus is blessed because of its natural setting. "Tsinghua sits on the former site of the Qing Dynasty's royal gardens. The campus is peppered with artificial ponds where stone benches and floating lotus blossoms inspire reflection."



## Tsinghua Alumna YANG Yang Elected to IOC

On February 12th, Tsinghua alumna Yang Yang was elected to be a member of International Olympic Committee (IOC) in the 122nd IOC session in Vancouver. Ms. Yang Yang was the first Chinese winner of gold medals in the Winter Olympics, winning two gold medals in the women's 500 and 1000-meter short track speed skating in 2002. In 23 years as an athlete, she won 59 world championships, ranking first in China. She graduated from the School of Economics and Management of Tsinghua University in 2007.



Ms. Yang Yang

# Student Education & Development

## Six New Undergraduate Programs Established

Six new undergraduate programs were recently established at Tsinghua. They include Electronic Information Science & Technology, Psychology, Pharmacy, and second bachelor's degree programs in English, Journalism and Mathematics and Applied Mathematics.

Of the first three programs, Psychology and Pharmacy are new, while Electronic Information Science & Technology is a merger of Electronics and Information Engineering with Electronic Science & Technology, which were formerly offered programs in the Department of Electronic Engineering. These new programs raise the total number of undergraduate programs at Tsinghua to 65.

In addition, the Experimental Program in Medical Science

and Pharmacy launched last year opens to senior high school graduates this year. New enrollees will all take basic courses taught by faculty members from the School of Life Sciences, the School of Medicine and the Department of Chemistry in their first year and choose their majors from the beginning of the second year.

Tsinghua plans to enroll 3,360 new undergraduates for the 2010-2011 academic year.



New students arrive on campus

## Tsinghua 2010 Careers Fair Held

The Tsinghua 2010 Careers Fair was held on March 12th and attracted about 300 enterprises, which have more than 5,000 vacancies. Over 10,000 graduates from Tsinghua as well as students from neighboring universities attended.

This is the largest campus recruitment fair held at Tsinghua in 2010. Renowned national institutions and companies such as the Chinese Academy of Science, China National Petroleum Corporation, First Automobile Works Group Corporation, China Aerospace Science & Industry Corporation and China North Industries



Group Corporation all participated.

To promote employment for graduates, Tsinghua University has taken initiatives to create more job opportunities. Up to now, the Tsinghua Career Center has organized more than 300 job fairs for this year's 4,000 job-hunting graduates. 1,230 research institutions and companies have sent representatives to Tsinghua seeking talented graduates to fill more than 30,000 vacancies.



## Blood Donation on Female Students' Day

A blood donation with the theme of "Give a rose, with fragrance remaining in hand" was held at Tsinghua University on March 7th, Tsinghua Female Students' Day. It was co-organized by the Red Cross Society of Tsinghua University (RCSTU) and the Beijing Red Cross Blood Center. RCSTU has organized similar activities for eight years.

Half an hour before the donation starting time at 9:30a.m., a queue had already formed. Ms. HUANG Jinghuan from the



School of Journalism and Communication became the first donor. She said, "Blood donation is not just a contribution to society, but an individual memento for this special day." Every donor

would receive a delicate souvenir and a rose as well from RCSTU.

Altogether 248 students donated blood on the Day, with the total donation reaching 61,000ml. Among the donors,



12 first-year male students from the Department of Civil Engineering gained the spotlight. They were going to give their dozen roses to the six girls in their class. They planned to make this Day an especially heart-warming and memorable occasion for their female classmates.

With its long tradition of blood donation and social commitment, Tsinghua has led all other universities in Beijing. RCSTU organizes over a dozen donation activities every year which collect over 190 liters of blood to save people's lives.

# Research & Achievements

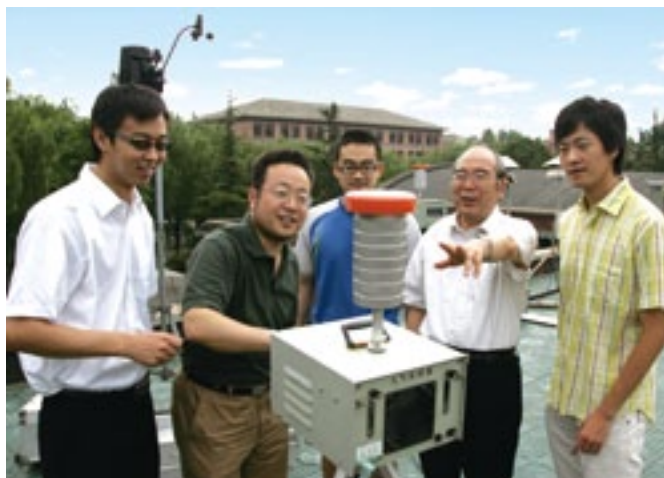
## Tsinghua Tops National Science and Technology Awards

Twenty-one projects conducted by Tsinghua faculty members won 2009 National Science and Technology Awards, the highest scientific and technological honor in China. Chinese President Hu Jintao, Premier Wen Jiabao, and other state officials attended the ceremony with the awardees held at the Great Hall of the People on January 11th.

The 21 awards included two State Natural Science Awards

(SNSA), three State Technological Invention Awards (STIA) and 16 State Scientific and Technological Progress Awards (SSTPA). Eight of the 21 prize-winning projects were led by faculty members from Tsinghua. They included:

The Characteristics of Emission and Complex Pollution of Atmospheric Particulate Matter and Its Precursors led by Professor HE Kebin from the Department of Environmental



Professor HE Kebin (second from left) with his team

Science and Engineering (SNSA second prize);

High Temperature Superconducting Receiver Front-ends for Microwave Communications led by Professor CAO Bisong from the Department of Physics (STIA second prize);

Pervaporation Dehydration Membranes, Modules and Their Applications led by Professor CHEN Cuixian from the Department of Chemical Engineering (STIA second prize);

The Indirect Evaporative Chiller Used for Dry Regions

led by Professor JIANG Yi from the School of Architecture (STIA second prize);

Rare Earth Catalytic Materials and Their Applications in Vehicle Exhaust Purification led by Professor WENG Duan from the Department of Materials Science and Engineering (SSTPA second prize);

Key Technology and Application of Stability Design of New Type of Steel Structures led by Professor GUO Yanlin from the Department of Civil Engineering (SSTPA second prize);

New Design and Practice of RCC Arch Dam led by Professor LIU Guangting from the Department of Hydraulic Engineering (SSTPA second prize);

Novel Low Energy-consuming Membrane Bioreactors for Wastewater Reuse and Their Application led by Professor HUANG Xia from the Department of Environmental Science and Engineering (SSTPA second prize).

Up to now, Tsinghua has won 400 National Science and Technology Awards, including 43 State Natural Science Awards, 114 State Technological Invention Awards, and 243 State Scientific and Technological Progress Awards, the most among all universities in China.

## Seismic Acquisition and Recording System



Indoor Trial

A new Seismic Acquisition and Recording System (ES109), used in oil and gas exploration by recording seismic waves, passed the technical appraisal organized by China National Petroleum Corporation (CNPC) on

January 29th. Faculty members from Tsinghua's Department of Precision Instruments and Mechanology (DPIM) including associate professors XIONG Jianping, MA Cheng, DENG Yan, and Dr. WANG Peng, have provided the core technique support for the new system.

The appraisal committee believed that the overall performance of the System reaches the advanced international level, while its maximum channel capacity, single line capacity, data transition speed, and geophone online testing have outperformed similar imported products.

In 2006, CNPC undertook a key national research project, research and development of large-scale seismic instruments. To find a credible research partner, CNPC organized competitive bidding for a sample of the on-field data acquisition device. The DPIM's team won the bidding, and its sample

became the final chosen solution. During a three-year period, the research team overcame various technical obstacles, completed the 2,000-channel engineering prototype, and compiled 451 technical documents in collaboration with CNPC.

User reports indicate that ES109 works steadily and smoothly and that it has high acquisition efficiency, excellent channel capacity, and more layout capabilities. Its shooting speed reaches an advanced international level. With the well programmed platform, ES109 fully satisfies the on-field exploration work.

Academician TENG Jiwen from the Institute of Geology and Geophysics, Chinese Academy of Sciences, said in an interview, "The successful development of ES109 is not only an important breakthrough for petroleum exploration, but also a milestone for China's earth science and exploration."



The system in use in Xinjiang



## Elevated Brain Levels of Magnesium Enhance Learning and Memory

Professor LIU Guosong and his research group have recently discovered that an increase in brain magnesium improves learning and memory in both young and old rats. Their study, published by Cell Press in the January 28th issue of the journal *Neuron*, suggests that increasing magnesium intake is a valid strategy to enhance cognitive abilities and supports speculation that inadequate levels of magnesium impair cognitive function, leading to faster deterioration of memory in aging humans.

Professor LIU, Director of the Center for Learning and Memory at Tsinghua University, led a study examining whether increased levels of one such dietary supplement, magnesium, boosts brain power. “Magnesium is essential for the proper functioning of many tissues in the body, including the brain and in an earlier study we demonstrated that magnesium promoted synaptic plasticity in cultured brain cells,” explains Professor LIU. “Therefore it was tempting to take our studies a step further and investigate whether an increase in brain magnesium levels enhanced cognitive function in animals.”

Because it is difficult to boost brain magnesium levels with traditional oral supplements, Professor LIU and his colleagues developed a new magnesium compound, magnesium-L-threonate (MgT) that could significantly increase magnesium in the brain via dietary supplementation. They used MgT to increase magnesium in rats of different ages and then looked for behavioral and cellular changes associated with memory.

They found that increased brain magnesium enhanced many different forms of learning and memory in both young and aged rats. A close examination of cellular changes

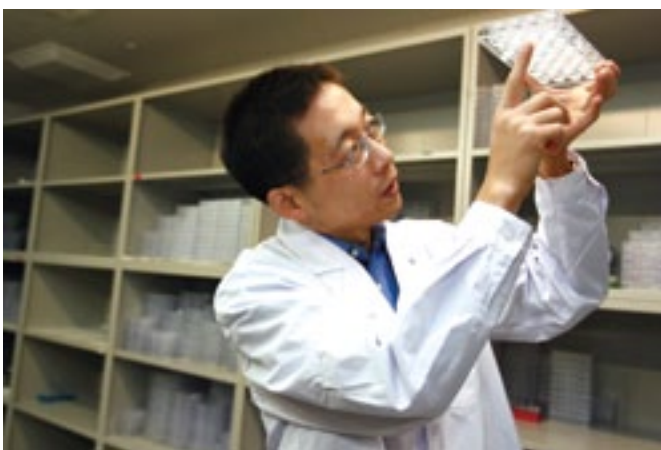
associated with memory revealed an increase in the number of functional synapses, activation of key signaling molecules and an enhancement of short- and long-term synaptic processes that are crucial for learning and memory.



Professor LIU Guosong (middle)

“It is important to point out that the control rats in this study had a normal diet which is widely accepted to contain a sufficient amount of magnesium,” says Professor LIU. “The effects we observed were due to elevation of magnesium to levels higher than provided by a normal diet. Therefore, our findings suggest that elevating brain magnesium content via increasing magnesium intake might be a useful new strategy to enhance cognitive abilities. Moreover, half the population of industrialized countries has a magnesium deficit, which increases with aging. This may very well contribute to age-dependent memory decline; increasing magnesium intake might prevent or reduce such decline.”

## Professor SHI Yigong Won Sackler Prize in Biophysics



Professor SHI Yigong

Professor SHI Yigong from Tsinghua’s School of Life Sciences won the 2010 Raymond & Beverly Sackler International Prize in Biophysics in April for his innovative contributions to studies of protein interactions underlying molecular mechanisms of apoptosis (programmed cell death).

The Raymond and Beverly Sackler International Prize in Biophysics is intended to encourage dedication to science, originality, and excellence. It is conferred on two or three outstanding scientists every year. In 2010 it is for research in physics of biomolecular interactions.

Dr. Gerhard Hummer from the US National Institutes of Health shared this year’s Prize with Professor SHI for his contributions to studies of the hydrophobic effect and its contribution to protein interactions and assemblies.

## Social Commitment

### Tsinghua's Efforts in Yushu Earthquake Relief Work

A 7.1-magnitude earthquake struck Yushu County in northwestern China on April 14th, leaving 2,192 dead and more than 10,000 people injured. Showing great concern for the quake victims, Tsinghua students, as well as faculty and staff members participated in various kinds of relief efforts.

Three professors from Tsinghua's Department of Civil Engineering arrived in the disaster area on April 15th as members of the emergency and appraisal expert team organized by the Ministry of Housing and Urban-Rural Development. Despite difficult living conditions and great altitude stress, they worked very hard with ten other experts to check the safety of important buildings in Yushu County, including all hospitals, schools, banks, post offices, water system and power plants.

In the "Emergency Donation for Yushu County" organized by the Tsinghua Red Cross from April 15th to 17th, Tsinghua



Students Donate for Earthquake Victims

students and staff members donated more than RMB 70,000 in addition to thousands of clothing items and quilts to the earthquake victims. A mourning ceremony was held at Tsinghua



Tsinghua Experts Checking the Building Conditions in the Disaster Area

to express deep condolences for the Yushu victims on the morning of April 21st.

On April 24th at the venue of 2010 Beijing Automotive Exhibition, two Tsinghua students, one pushing a wheelbarrow of bottled water and the other holding a donation box, attracted people's attention. They were there to collect money for the victims, giving each donor a bottle of water as a thank-you gift. They said that although they had already donated at the University, they hoped they could do more for the Yushu people. They were also joined by other students in their department and stayed until the end of the Exhibition.

### Free Medical Education Training for Underdeveloped Areas



Opening Ceremony of the Training Project in Luzhou, Sichuan Province

in 2009, has offered free training sessions for 5,621 primary medical care staff in central and western areas of China as well as other underdeveloped areas of the country.

The Project, following the concept that education serves society, aims to build a training system of human resources and improve the medical services of the basic level hospi-

tals by providing long-distance training sessions and on-site courses. The Project has been started in several provinces including Yunnan, Guangxi, Guizhou and Sichuan since May 2009 and will be extended to other areas in 2010 and 2011.

Mr. LIU Junrong, director of Yunnan Chuxiong Women's & Children's Hospital, who participated in the project, said there was a great shortage of medical personnel in remote and less developed areas, and the project has helped them greatly to improve their skills and the local medical service.

On-site training in Luzhou, Sichuan Province



On-site training in Luzhou, Sichuan Province

## Tsinghua Community Aids Senior Citizens with Advanced Technology

Senior residents of the Tsinghua community are enjoying high technologies which make their daily life safer and more convenient.

Citizens older than 70, mainly with memory problems, have each been equipped with a GPS system. When they go out, their family members can find their precise position on their computer at home. There is also an emergency button on the cell phone-sized apparatus, and by pressing it bearers can immediately send an alert message to their relatives.

Mr. GAO Haibing from the General Affairs Office of Tsinghua University said, "Some of the old people who live in the Tsinghua community have suffered from memory loss and other brain diseases. With the positioning system, their family members will no longer worry about the elders straying."

Besides this system, the community has also installed an emergency calling system for 335 households with people over the age of 70. It connects to hospitals to deal with accidents and unexpected health problems.



Emergency Calling System



Senior Residents Walking with GPS System

A comprehensive service platform for senior residents has also been established at the Tsinghua community, offering house cleaning service, hospital companions, maintenance, legal consulting service, and daily life information. Senior residents can get necessary help by calling the community public service center.

With an average annual growth rate of 4.9%, the number of senior citizens in Beijing reached nearly 2.6 million in 2009, or around 15% of the capital's total population. Serving senior citizens has long been a key task for local communities and the municipal government.

## International Cooperation & Exchange

### Tsinghua Strengthens Ties with US Partners



Tsinghua President GU Binglin (right) and UC Berkeley Chancellor Robert J. Birgeneau

Tsinghua strengthened ties with some of its US partners through a series of collaboration and exchange events held at several universities in April.

"Tsinghua Week at Berkeley", held at the University of California in Berkeley from April 5th-7th, presented dozens of panel discussions and lectures in different fields. Faculty members in architecture, engineering, the humanities, information technology, physics, psychology, public policy, and transportation from the two universities shared their viewpoints and research interests in their respective fields. Apart from the academic collaboration between the faculty members, students from Tsinghua and UC Berkeley exchanged ideas in technology entrepreneurship and presented an open-air concert together on the Berkeley campus.



Students from Tsinghua and UC Berkeley perform together in front of the Sather Gate

Stanford University, the University of Chicago, Northwestern University, Harvard University, Massachusetts Institute of Technology, and Columbia University. "Tsinghua Day" events were held at the University of Chicago, MIT, and Columbia University, focusing on academic exchange and collaboration.

Along with these academic activities, Tsinghua Photo Exhibitions featuring Tsinghua's century-long history and focusing on its endeavors in education and research, international cooperation and exchange, campus life, and art works by faculty members and students of its Academy of Arts &

In addition to "Tsinghua Week at Berkeley", the Tsinghua delegation, led by President GU Binglin and Vice President and Provost YUAN Si, also visited

Design, were showcased at UC Berkeley, the University of Chicago, MIT and Columbia University from April 5th-16th. They attracted hundreds of faculty members and students at those institutions. The exhibitions also attracted many Tsinghua alumni from local areas. The vivid pictures awakened precious memories of their life on the Tsinghua campus.

Tsinghua students also participated actively in these events. About 40 members of the Tsinghua Student Art Troupe staged a series of performances of Chinese folk songs, dancing and music in San Francisco, Chicago, Boston, and New York from April 7th-16th. Their performances drew sustained applause from the full house audiences.



Tsinghua Photo Exhibition

## Tsinghua Week at Todai

"Tsinghua Week at Todai" was held from May 12th-15th in Tokyo, Japan.

The Chinese Ambassador to Japan, His Excellency CHENG Yonghua, President of the University of Tokyo Professor Junichi HAMADA, President of Tsinghua University Professor GU Binglin and Vice President Professor XIE Weihe attended the opening ceremony and delivered speeches. Nearly 200 faculty members and student representatives from both universities, as well as reporters from 11 news agencies such as Nikkei, Asahi Shimbun, Xinhua News Agency, and CRI, also attended the ceremony.

In his opening speech, President GU expressed his conviction that the event would strengthen cooperation between Tsinghua and Todai and act as a platform for further strengthening friendship between their faculty members and students.



Workshop on Higher Education



Ph.D. Candidate Forum

President HAMADA also said that the Tsinghua Week at Todai would further enhance the ties between the two universities, links which had been strengthened by the success of Todai Week at Tsinghua in 2008. He noted that it is important for Todai to foster exchange between students from the two universities. He said that Todai and Tsinghua have cooperated mainly in the areas of science and engineering but hoped that areas of exchange would be expanded in the future.

During Tsinghua Week at Todai, faculty members from both universities organized 22 themed forums covering such fields as public safety, frontier science, sustainable development, humanities and social sciences, providing opportunities to report their research achievement and exchange academic viewpoints.

Tsinghua students also took an active part in the events.

Eleven students participated the Ph.D. Candidate Forum on Public Safety, the first Tsinghua doctoral forum held overseas. Another ten Ph.D. candidates from the Department of Materials Science and Engineering shared their findings and thoughts with their peers from Todai in such areas as energy, environmental, aerospace, and functional materials, material characters and computer simulation.

An exhibition titled “Education & Architecture Studies, Tsinghua University” was held from May 10th to 14th at the University of Tokyo. The exhibition was part of the Tsinghua Week at Todai. President GU and President Hamada visited the exhibition after the Opening Ceremony and were interviewed by several press agencies.



Tsinghua President GU Binglin (left) and Todai President Junichi HAMADA at the Exhibition

### 2010 Asia-Pacific Symposium on Electromagnetic Compatibility

The 2010 Asia-Pacific Electromagnetic Compatibility (APEMC) Symposium was held in Beijing from April 12th to 16th, 2010. Organized by Tsinghua University and co-organized by China Electric Power Research Institute (CEPRI) and China Southern Power Grid Technology Research Center, this was the first time the APEMC Symposium was held in China. Professor HE Jinliang from Tsinghua University was appointed as the Symposium President and Professor ZHANG Wenliang from CEPRI as Co-President.

The symposium offered a rich scientific program of the highest quality with invited speakers from all over the world. It provided a broad forum of exchange for both academia and industry, covering the entire scope of electromagnetic compatibility. It featured 18 special sessions, two topical meetings, one industrial forum, 14 workshops and seven tutorials by world-renowned scientists and leading experts in EMC. A total of 578 papers were submitted from 43 countries, and more than 700 representatives attended this



symposium. It was the largest event ever held in the field of EMC.

Following the tradition of APEMC, a full week of EMC-related events was held, including a technical exhibition on EMC and RF/microwave measurements and instrumentation, which was arranged cooperatively with Chinese Electrotechnology Society.



Experts in EMC with Symposium President HE (sixth from left)

## Tsinghua SEM-Wharton Undergraduate Student Exchange Program

The Undergraduate Student Exchange Program between Tsinghua's School of Economics and Management and the Wharton School of the University of Pennsylvania was launched in March, 2010. Professor QIAN Yingyi, Dean of Tsinghua SEM, and Professor Thomas S. Robertson, Dean of the Wharton School and member of Tsinghua SEM's Advisory Board, attended the agreement signing ceremony at Tsinghua.

According to the Agreement, Tsinghua SEM and Wharton will begin to exchange undergraduate students for one semester annually from 2010-2011 academic year.

In 2009, the SEM sent more than 250 exchange students to overseas institutions. Over 50% of its undergraduate students have opportunities to study overseas. Internationalization has become one of the featured advantages of Tsinghua SEM undergraduate programs.

Thus far, the SEM has signed student exchange programs agreements with 87 overseas institutions in North America, Europe and the Asia-Pacific region, all



Dean QIAN Yingyi (left) and Dean Thomas S. Robertson Sign the Agreement

of which have outstanding reputations in their respective countries or regions. Whether at Tsinghua or at cooperating institutions overseas, the SEM endeavors to create diversified international study environments for students, leading to provide advantageous opportunities in the future global career competition.

## Education Outlook

### National Educational Reform and Development Plan



According to *China Education Daily* on May 7th, 2010, the Medium and Long Term National Educational Reform and Development Plan (2010-2020) was approved by the State Council on May 5th. It is the first plan for China's education in the 21st century and an important document to guide educational reform and development in the next 10 years.

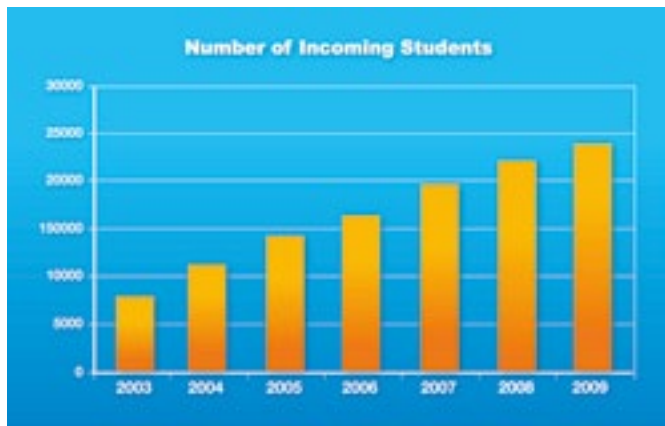
The Plan emphasizes five principles for China's education reform and development in the next decade. The first is to give priority to education. According to the State Council, China will continue to increase expenditure on education, which is estimated to amount to 4% of the GDP in 2012. The second is to give highest priority to educating students in accordance with pedagogical principles to nurture their physical and mental development. The third principle is to press ahead with reform and innovation and build up an educational system full of vigor and vitality. The fourth is to develop educational equity which will benefit all the citizens. The fifth is to improve the quality of education services and provide more abundant quality education resources for nationals.

The research and formation of this Plan were launched in August 2008. Subsequently, public input on important issues was widely solicited, and 2.1 million pieces of advice and suggestions were received.

## International Students Exceed 230,000 in 2009

The number of foreign students coming to China keeps increasing. In 2009 it rose to 238,184.

These students are from 190 countries and areas around the world. They are pursuing their studies at 610 Chinese



International Students Studying in China

higher education institutions, research institutes and other organizations.

Incoming Asian students comprise the majority, 67.84% of the total. They mainly come from countries such as South Korea, Japan, Vietnam, Thailand, India, and Indonesia. Students from Europe and the Americas account for 15.1% and 10.7% respectively.

During the last 60 years, about 1,690,000 students have come to China for further studies. According to the Medium and Long Term National Educational Reform and Development Plan issued in May, 2010, China will take several measures to attract more international students, including increasing the number of government scholarships, establishing more programs taught in English, and funding more students from developing countries.

## The Fourth Chinese-Foreign University Presidents Forum Held at Nanjing

The fourth Chinese-Foreign University Presidents Forum, sponsored by the Ministry of Education and the Jiangsu Provincial Government, was held from May 2nd to 4th in Nanjing. Presidents from over 148 universities in China, the United States, the United Kingdom, France, Germany, Japan and Russia attended the forum.

The topics discussed encompassed the cultivation of qualified students, the environment for innovative and talented people, the reform of teaching modes, and sustainable campus construction.

Senior executives from some of the most renowned domestic and overseas companies also participated in the conference. It was the first time that the forum invited such representatives. They held in-depth dialogues with university presidents on higher education development and their need for qualified human resources.



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# Tsinghua University

## Tsinghua Week at Berkeley



Public Policy Session titled "Comparative Public Policy"



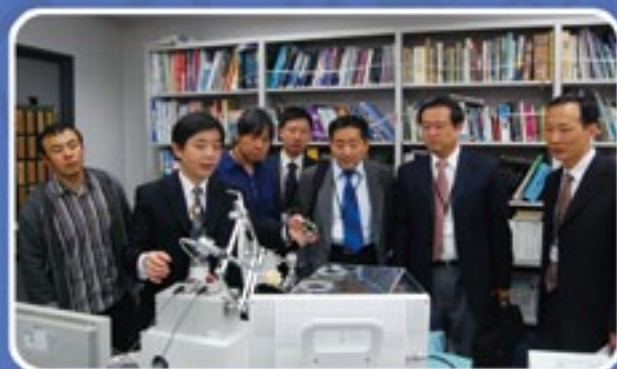
Chinese Folk Dancing by Student Art Troupe



The Student Team

<http://www.tsinghua.edu.cn/eng>

東大-清華周  
**TSINGHUA-TODAI**  
2010



Precision Engineering Workshop



Green Campus Evolutions using Advanced ICT Innovations - China-Japan Green ICT Project



JSPS Asian CORE Program Workshop on Materials Science and Engineering