

NTU



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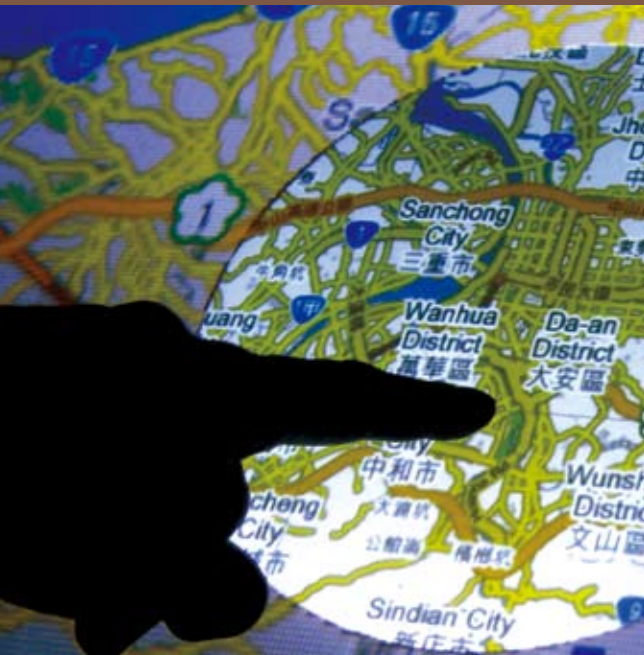
NTU to Host World Model United Nations

International Scholars Visit NTU

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Special Report
Online Chinese Learning



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NTU AT A GLANCE

ICLP Contribution to Cross-Cultural Relationships



Temple University President Anne Weaver Hart Visits NTU in June

Temple University President Anne Weaver Hart visited National Taiwan University on June 3 to formally sign the Agreement for Scholarly Exchange and Collaboration and the Agreement on Student Exchange between Temple and NTU.



President Lee and President Hart listening to the report.

President Hart was accompanied by her husband and retired attorney-at-law, Mr. Randy Hart, Dean Hai-lung Dai and Assistant Dean for Development and External Affairs Ms. Brooke Walker of Temple College of Science and Technology, during her visit to NTU. Dean Dai, an outstanding NTU alumnus (B.S., 1974) actively promotes Taiwan as an important international partner country for Temple University.

NTU was also the principal host for the Temple delegation's six-day visit to Taiwan. Besides NTU, the Temple delegation visited Tamkang University, Feng-Chia University and Tunghai University. The delegates also paid visits to the National Palace Museum and the renowned pottery town, Yingge. This trip was President Hart's second official visit to Taiwan. She last came to Taiwan in October 2007 to sign joint-degree

agreements with six universities around the island. When asked how she felt about this second trip, President Hart said that Taipei was always dynamic and that she always felt very welcome in Taiwan. President Hart also thanked NTU for being a "warm and welcoming host."

NTU had its 80th anniversary last year and Temple University is currently celebrating its 125th anniversary. Temple University is located in Philadelphia, Pennsylvania, and is the 28th largest university and the fifth largest provider of professional education in the United States. Both President Lee and President Hart expressed their high hopes that the international programs that would be fully operational by the 2009/2010 academic year.

Beijing University President Zhou Qifeng Visits National Taiwan University

Beijing University President Zhou Qifeng visited NTU for the first time in the morning of July 14th. NTU representatives were headed by Vice President Tai-Jen Chen. The parties sat down for a two hour exchange of ideas on "Globalization and the Direction of Human Resource Development Policy for Higher Education Cross-strait."

Headed by Vice President Tai-Jen Chen, NTU was represented by Dean Tung Shen of the Office of International Affairs, Dean Huan-Jang Keh of the College of Engineering, Dean Soo-Chang Pei of the College of Electrical Engineering and Computer Science, Dean Yung-mau Chao of the College of Social Sciences, Associate Dean Hui-Ling Lin, Associate Dean of Student Affairs and International Affairs Chung-Liang Chien of the College

of Medicine, Director Shian-Chee Wu of the Graduate Institute of Environmental Engineering and Professor Narn-Rueih Shieh of the Department of Mathematics, in the meeting with Beijing University representatives.

Headed by President Zhou Qifeng, Peking University representatives included the president's assistant and director of the Office for Hong Kong, Macao & Taiwan Affairs Li Yan Song, Vice Dean Fang Wei Gang of the Health Science Center, Dean Wang Chang Ping of the School of Mathematical Sciences, Dean Mei Hung of the Department of Information Management, Dean Chang Yuan Hang of the College of Environmental Sciences and Engineering, Dean Liou Wei of the College of Economics, Dean Chen



Group photo with representatives of Beijing University and NTU taken after exchange meeting.

Shih Yi of the College of Engineering and Project Supervisor Chun-Bao Cheng of the Office for Hong Kong.

Deans and senior professors of both schools attended the meeting. Both parties expressed interest in future cooperation. Additionally, President Zhou Qifeng expressed his earnest hope to see progress in the visiting professor and joint degree cooperation projects, Vice President Tai-Jen Chen also expressed his best wishes for success, but also mentioned that adherence with Ministry of Education guidelines was still required.



Online Chinese Learning at NTUtorMing.com

National Taiwan University (NTU) and TutorABC have been working together to create NTUtorMing.com, a personalized online Chinese learning service. Through TutorABC's live online platform and NTU's materials and speech recognition technology, NTUtorMing.com is not only a pioneer commercial and educational collaboration, but it will also advance Taiwan's role in international Chinese Mandarin education.

Over the past decade, the market for Chinese learning expanded rapidly along with the exponential growth of China's economy. The Office of Chinese Language Council International estimates that there will be over a 100 million people learning Chinese by the year 2010. The global market for Chinese-learning is projected to reach over NT\$2 trillion. About 500,000 Chinese teachers are needed in order to fill current market demands, yet there are less than 100,000 teachers working in the industry. That means that there are about 400,000 job openings right now.

NTU President Dr. Lee said, "National Taiwan University consistently endeavors to promote the study of Mandarin while providing our students with the most professional and sophisticated means available, and we expect an even higher influx of students this year who want to begin learning to speak and write Mandarin. NTU has never ruled out any possibility or means that could enhance our Mandarin program's competitiveness and enable Taiwan to be on the forefront of worldwide Mandarin learning. We are pleased to be cooperating with TutorABC in establishing NTUtorMing which will provide the best

NTU President Si-chen Lee heads the on-site operations of the Chinese learning website NTUtorMing.com



President Lee and CEO Eric Lee sign a contract for the website.

online Mandarin education service to international learners while staying true to the tradition of Mandarin education from Taiwan"

Commenting on the current situation and future possibilities of the educational human resources in Taiwan, the CEO of TutorABC, Dr. Eric Yang says: "With the growing demand for Chinese teachers, you can easily find a job if you can speak Chinese. Taiwanese teachers have the advantage with their understanding of the current world, knowledge in digital learning technology, and aptitude in both simplified and traditional Chinese characters. Through the online learning platform, NTUtorMing can bring Taiwan's teachers and their skills to the world." Dr. Yang also emphasized that due to the decreasing birth rate, there is a rising number of unemployed Chinese teachers in Taiwan. In light of that, NTUtorMing offers teachers new prospects for employment and creates a brand new opportunity for Taiwan to gain international recognition.

TutorABC developed their online live interactive learning platform with the concept of "Consumer First." The patented Dynamic Courses Generation System (DCGS) effectively provides learners with personalized courses and contents by analyzing their proficiency levels, job experiences, and personal interests. Learners will be able to learn Chinese anytime, anywhere via the Internet with live instructors. By focusing on learners and their needs, NTUtorMing truly empowers and motivates its students to control their learning progress.

While re-defining the idea of personalized and service intensive learning, NTUtorMing's mission is to be the leader in the global Chinese learning market. With the objective of providing a well-rounded language environment for non-native speakers and Chinese people alike all around the world, NTUtorMing.com will quickly become the portal to Chinese learning.



Three NTU Professors Win 2009 Academia Sinica Research Awards for Junior Researchers

Since Academia Sinica began awarding their «Research Award for Junior Researchers» in 1995, 16 people have received the award, 3 of whom were from NTU.

Associate professor Li Chih I developed a high-speed communications chip which already plays a big role in our daily lives. Also, the 20-Gb/s burst-mode clock and data recovery circuit produced from a 90 nano process in one of his studies together yielded the world's fastest and most stable circuit of this type in use today.

Dr. Lin Sung Jan conducts two lines of research: The first involves application of nonlinear optical imaging in dermatological research and the second concerns hair follicle regeneration. In optical engineering, his team applied multiphoton microscopy widely to the quantitative determination and detection of skin aging, skin cancer and the structural change of collagen during glycation.

Associate professor Lin Ming Jen's main research field concerns labor and health economics. In a paper published in the

This year's award-winning group of young scholars at the "Research Award for Junior Researchers" awards ceremony

American Economic Review, he utilized precise statistics based on data from Taiwan and skilled test techniques to find that son preference is still the main cause of gender imbalance, and answered the argument of Nobel Prize winner Blumberg that, "Mothers with hepatitis B have a higher chance of giving birth to baby boys, thus causing gender imbalance".



NTU Swim Team Surpasses Division 1 Teams to Dominate Swimming Event



President Lee takes flame from the National Intercollegiate Athletic Games torch carrying team symbolizing the Olympic ideal and the indomitable human spirit.

The 2009 National Intercollegiate Athletic Games were held on May 2-6, offering a series of exciting events for five days in a row! This year's Games were organized by National Taiwan Normal University. NTU teams

took part in 11 events, including Track and Field, Swimming, Tennis, Badminton, Table Tennis, Judo, Tae Kwon Do, Fencing, Archery, Gymnastics and Karate, and had sterling performances in each and every one of them, winning a total of 86 medals: 40 gold, 27 silver and 19 bronze.

In team performances, the NTU swim team, selected as one of our key development sports this year, rewrote team history by winning 24 gold, 20 silver and 7 bronze medals in the swimming event! The NTU track and field team, representing another key development sport, also showed excellent performance seizing

4 gold, 3 silver and 3 bronze medals. Tennis, is a sport long widely favored by NTU faculty and students. This year our men's tennis team grandly claimed their fourth consecutive championship title. In archery, three of our students together scored a record breaking 315 points in the women's team competition and took home yet another gold medal.

As this year's National Intercollegiate Athletic Games came to a successful close, NTU athletes are already preparing for future Games, aiming to give even more outstanding performances!



National Taiwan University Model United Nations (NTUMUN) to host the 2010 World Model United Nations Conference (a.k.a. WorldMUN) in March 2010



Poster of the event.

May The National Taiwan University Model United Nations (NTUMUN) won its bid to host the 2010 World Model United Nations Conference (a.k.a. WorldMUN) in Taipei in March 2010. Taipei stood out from eight bidding cities with its lively Asian culture and confidence in putting Asia on the center stage. The host team will welcome more than 2,000 students from over 50 countries and 200 universities.

The prestigious WorldMUN is one of the most respected student events around the world. Established by Harvard in 1992, WorldMUN is a highly popular simulation of the United Nations (UN) Conference. Each year, a different city hosts WorldMUN in conjunction with Harvard University. Past host cities include Athens, Edinburgh, Istanbul, Mexico, Belo Horizonte, and Sharm El-Sheikh. The cooperation between Harvard University and host cities is often viewed as a chance to facilitate regional integration and promote Model UN activities.

NTU students were the first students from Asia to participate in WorldMUN. Since its first entry in 1994, the inspired NTU delegation not only returned and created the NTUMUN student organization

but continues to participate in the annual event around the globe. These passionate NTU students call themselves “MUNers” and have long been dedicated to bring WorldMUN to Taipei. After years of unsuccessful bids, NTUMUN has finally obtained their dream of bringing WorldMUN to Taipei.

“Though frustrated by countless failed bids, our will to succeed has been sustained by hearty support from the NTUMUN alumni. We strive to get more Taiwanese students active internationally, and through Model UN, promote the global citizen ideal. It is our wish to really put Taiwan on the map” added Jason Hou, president of the WorldMUN2010 Host Team.

This time, the NTU host team pledges to attract new faces to model UN activities. The five-day model conference grants students the chance to act as diplomats and draft Resolutions on hot issues through negotiation and fierce debate. Simulated UN Rules of Procedure used at the conference table create a unique environment. Off table, cultural social events — the Global Village, the Lunar Year Night, the Cabaret, the Master Night, the Farewell Party — help create fun and excitement.

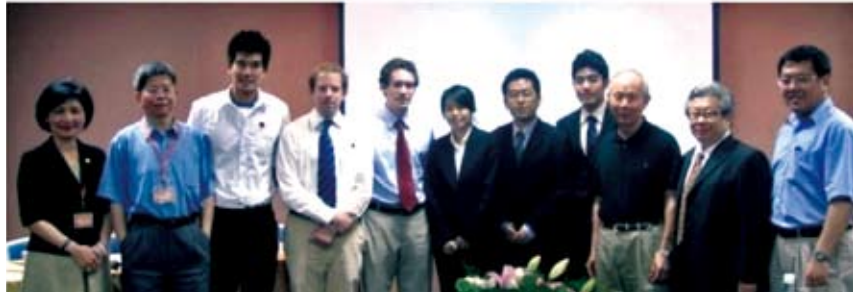
The NTU Host Team has come up with an impressive logo for the event. Designed by NTU student Chia-Wei Yang, the logo for WorldMUN 2010 in Taipei is a butterfly. The inspiration was from the island of Taiwan itself. In the 1960s, Taiwan was known as the Butterfly Kingdom around the world for its huge number and variety of butterflies. Chia-Wei Yan visualized the host team’s idea to bring the historical significance of butterflies into the logo. The butterfly wings are based on the shape of Taiwan and the bright colors on the wings represent the liveliness of Taipei and also the WorldMUN spirit. The breathtaking logo marks the first step toward the NTU Host Team’s success next year.

Updates about the event will be released in September, 2009. For more information, please visit the NTU Host Team’s blog at <http://worldmun2010.blogspot.com/>



Elite Face-off at the 2009 ICLP Interscholastic Debate Competition

➤ NTU-ICLP vs. NTU Debate



NTU's International Chinese Language Program welcomed students from National Taiwan University and National Chengchi University to the No.2 Student Activity Center for the 2009 ICLP Interscholastic Debate Competition (ICLP 2009), the first event of its kind. Five teams debated whether corporations should value the ability of their employees over their moral character. ICLP envisioned the event as forum for advanced students to demonstrate their Chinese ability, as well as an avenue for cultural exchange between Taiwanese and foreign students.

Participating teams included teams representing NTU Debate, the NCCU Debate team, the NTU Department of Foreign Languages and Literatures, as well as two teams of ICLP students. A final team, Global Friendship, was comprised of NTU students who volunteered during ICLP's 2009 Berkeley Business Chinese Summer Program. The five teams matched their wits in English and Chinese

during four rounds.

ICLP promoted the event with the tagline, "Do you believe that elite foreigners can use Chinese to have a professional debate against elite Taiwanese?" Indeed it proved to be a rare sight—a bilingual, multicultural showdown between Taiwanese and foreign students. The first round was conducted in Chinese and matched Global Friendship against the ICLP No. 1 Team. In the second round, seasoned competitors from the NTU Debate and the NCCU Debate teams gave the audience a taste of their frantic, almost theatrical debate style. The third round was conducted in English and pitted students from the NTU Dept. of Foreign Languages and Literatures against the ICLP No.2 Team.

In the fourth and final round, the ICLP No.2 team went head-to-head with the second round's victors, NTU Debate. Throughout the event, participants' rhetorical

pro prowess and knowledge of international current events was no less impressive than their advanced language ability.

The event was the culmination of the experimental course "Debate Training". Throughout the semester, ICLP teacher Wei Pao-Pei worked with David Bratt, Jeffrey Chivers and Andy Liu to design and implement the course. In lieu of a textbook, students researched select topics and prepared arguments daily.

Debate Training is part of ICLP's ongoing efforts to position itself as an innovative leader in Chinese-language teaching. Advanced students often require something beyond the standard curriculum to reach the next level of proficiency. Chivers, who will begin law school at Georgetown this fall stated that, "I hope to return to Taiwan or mainland China to pursue a master's degree in law. At that time, I believe I will thank myself for the time spent at ICLP developing the tools necessary to express myself powerfully, succinctly and accurately in Chinese." ICLP plans to hold a similar event next year on a larger scale. For more information visit <http://iclp.ntu.edu.tw/>

📍 NTU-ICLP Team I



📍 NTU-ICLP Team II





Taiwanese Literature: Introduction to Intensive Summer Lecture Program in Europe Organized by the Graduate Institute of Taiwan Literature



Fig 1: Professor Yang Hsiu-fang from the Graduate Institute of Taiwan Literature discusses her teaching experience Fig 2: Group photo of teachers from the Graduate Institute of Taiwan Literature and students and teachers from the Institute of Chinese Studies at Heidelberg University Fig 3: Director of the Department of Chinese Studies at Leiden University meets with the Graduate Institute of Taiwan Literature delegation

The Graduate Institute of Taiwanese Literature launched a “Program to Promote Taiwan Research and International Cooperation between National Taiwan University, the University of London and Heidelberg University”. As part of this program, on June 29, 2009, Yeh Kuo-liang, Dean of the College of Liberal Arts and Mei Chia-ling, Director of the Graduate Institute of Taiwanese Literature led a delegation of teachers from the Graduate Institute to Heidelberg University. Once there they participated in a 4-day program on the teaching of Taiwanese language and organized an intensive lecture program on Taiwanese literature and culture.

At the end of the first day of a teachers’ workshop on Taiwanese language classes, a round table discussion was attended by Professor Barbara Mittler, Director of the Institute of Chinese Studies at Heidelberg University, Professor Bernhard Fuehrer from the University of London, Professor Yang Hsiu-fang from National Taiwan University and many European language teachers. Discussion focused on the revision of Taiwanese language texts and teaching methodology. Participants noted the difficulties experienced by overseas students learning Taiwanese. It was suggested such students be taught Taiwanese using teaching materials based on the local culture, thereby facilitating both language learning and cultural understanding. The three schools agreed to work together to develop Taiwanese language teaching materials on the basis of this consensus.

The following day teachers from the Graduate Institute of Taiwan Literature started a 3-day intensive summer lecture program entitled “Taiwanese Literature and Culture” addressing such subjects as “Etiquette and Custom in Taiwanese Culture”, “Taiwanese Literature and Culture Under Japanese Rule,” “Modernist Literature in Post-War Taiwan” and “A Look at Taiwan through the Movies”.

The lecture program looked at Taiwanese literature from the period of Japanese rule, post war and more modern/contemporary work. After the lectures, Professors Barbara Mittler and Mei Chia-ling exchanged gifts and signed a cooperation and student exchange agreement.

Following the completion of the intensive lecture program the Graduate Institute’s delegation headed to Leiden University in the Netherlands where they were met by Professors Maghiel van Crevel and Barencl ter Haar from the Department of Chinese Studies, who introduced the department’s current research on Taiwanese language and culture.

A review of the results of this summer lecture program organized by the Graduate Institute of Taiwanese Literature shows that it was well received at various well known universities in Europe, an important point of reference for all Taiwanese academics.



International Academic Exchange Forum for Students from the Graduate Institute of Photonics and Optoelectronics

At a time when “internationalization” is the latest trend in higher education in Taiwan, NTU’s Graduate Institute of Photonics and Optoelectronics is keen to develop opportunities for its Ph.D. students to engage in short-term academic exchanges with students from other universities around the world. The organization of bilateral academic exchange forums provides the perfect opportunity, one that can both make up for research failings and be used to expand the international vision of graduate students in Taiwan.

The Graduate Institute organized its first cooperative event with Seoul National University in November 2006 with the “1st National Taiwan University-Seoul National University Student Workshop on Photonic Materials and Devices.” In late June 2007, students traveled to Singapore to work on an “Optoelectronics Student Exchange Workshop” with the National University of Singapore for the first time. In November 2007, two professors from Seoul National University brought a group of 8 graduate students to Taiwan to participate in the “2nd National Taiwan University-Seoul National University Student Workshop on Photonic Materials and Devices.” In December 2008, three professors from the Graduate Institute of Photonics and Optoelectronics took a group of 10 graduate students to Seoul to take part in a third exchange program.



December 2008 exchange activity with graduate students from Seoul National University

Beginning in 2008, the Graduate Institute also began to plan graduate student exchanges with Nanjing and Qinghua Universities in Mainland China. The “1st National Taiwan University-Nanjing University Student Workshop on Optical Micro-Structures and Laser Technology” was organized with the Nanjing University Physics Department in late May 2008. As part of this exchange, four professors brought a group of 9 graduate students to NTU where they met with 10 students from the Graduate Institute of Photonics and Optoelectronics. The Physics Department at Nanjing University has conducted some outstanding research in the field of nonlinear optics and students so both sides were able to exchange ideas and experiences offer mutual encouragement and inspiration. Teachers from the Graduate Institute were also eager to take advantage of this rare opportunity

to discuss exchange programs and academic research. After the forum concluded, the Nanjing University delegation visited optics-related laboratories, research centers and companies at NTU and in Hsinchu Science-based Industrial Park. NTU student representatives also accompanied our guests to the National Palace Museum and Taipei 101.

In July 2009, the “2nd National Taiwan University-Nanjing University Student Workshop on Optical Micro-Structures and Laser Technology” will be held at Nanjing University. At the same time, it is hoped that a first cooperative venture with Qinghua University in Beijing and continued exchanges with Seoul National University will go ahead as planned. This will enable even more students to benefit from an exchange forum that has so far received much high praise from participants.



National Taiwan University “Global Initiatives Symposium in Taiwan 2009”

“GIS Taiwan 2009,” an international conference organized by university students in Taiwan, officially opened on July 7, 2009. Attendees were students from 21 different countries who came to Taiwan to brainstorm and seek inspiration from some of the top teaching talent in the world.

Held in Taipei from July 6-11, “GIS Taiwan 2009” was the first official international student symposium held in Taiwan to be launched exclusively by local university students. The main theme of the symposium was “Opportunities and Challenges: Transition in the Global Economy”. Three sub-themes were also debated: “A Reexamination of Corporate Social Responsibility and Social Entrepreneurs”, “When Culture Meets Economics: Crisis and Transformation” and “Industrial Policy in the Face of Dynamic Competition”.

The symposium invited several world famous speakers to engage participants in the debates and brainstorming. Notable among them was German Professor Michael Braungart, renowned for his bestselling book *Cradle to Cradle*. In 2007, Dr. Braungart was designated an “Environmental Hero” by Time magazine. At a time when environmental protection is becoming increasingly important in more and more places around the world, Michael Braungart was probably the best candidate to introduce students to the newly conceptualized Green Economy and its implications for the future. It was also hoped that this discussion will encourage Taiwanese enterprises to adopt a new model of environmentally friendly economics.

This year a total of 250 students submitted papers to attend “GIS Taiwan 2009.” Ultimately, after careful consideration, the organizers selected 80 outstanding submissions from young people in 21 different countries (including the United States, Thailand, the Czech Republic, India and Hong Kong) and invited them to attend the symposium in Taiwan.



Dr. Michael Braungart lecturing on *Cradle to Cradle: Remaking the Way we Make Things*.

The cash prize for the best paper went to Bagiella Luca from Switzerland, who studied as an exchange student in the US and submitted as his contribution a letter he sent to US President Barak Obama. In second place was Chakravarti Rishi, a university student from India. His paper discussed what should happen and what actually happens in the field of corporate social responsibility. Rishi was particularly critical of the way in which most enterprises donate money and establish charitable foundations as a way of meeting only the very minimum level of corporate social responsibility with almost no consideration as to the sustainability of their programs. In third place was Peter Chen, an American-born Chinese participant who wrote about enterprise trends and strategy. Chen argued only those firms that achieve constant innovation and high quality will survive over the long term. He also suggested that the blind pursuit of market trends is a mark of unsustainable development.



“GIS Taiwan 2009” provides a platform for young people around the world who are concerned about global trends and interested in engaging in an intelligent debate on related issues. At the same time, this annual event goes some way in establishing a network of outstanding global young people interested in saving the planet. It also reflects well on the image of Taiwan and provides international exposure. Participants from around the world were called on to consider a wide range of global issues and to come up with programs designed to address global problems. The symposium exposed its young participants to a wide range of different viewpoints, encouraging them to appreciate and understand the ideas of others whilst also learning how to get along with people from very different cultural backgrounds. In so doing “Global Initiatives Symposium in Taiwan 2009”



Group photo with representatives of GIS Taiwan 2009.

made an invaluable contribution by broadening the international perspective of university students in Taiwan.

NTU Foreign Students Participate in Agricultural and Education Field Trip in Taiwan

May 30-31, 2009, the NTU College of Bioresources and Agriculture’s Center for International Agricultural Education and Academic Exchange organized an Agricultural and Educational Field Trip for foreign students at NTU. Led by Dr. Chen Zueng-Sang, Associate Dean of the College of Bioresources and Agriculture, some 23 international students participated in the event. They visited a number of related sites, including Taichuang Agriculture Research Institute (TARI), the Endemic Species Research Institute, Shueli Snake Kiln, Sun Moon Lake, Antique Assam Tea Farm and Puli Brewery.

At TARI, the students visited



Visiting foreign students pose in front of Peacock Park.

the Taiwan Soil Museum where they learned about the different kinds of soil in Taiwan and were introduced to related data. The Educational Center at the Endemic Species Research Institute showcased biodiversity in Taiwan; Shueli Snake Kiln offered an excellent example of how cultural industry can best develop in harmony with nature.

In contrast, The Antique Assam Tea Farm at Sun Moon Lake showed how organic tea farming can have a positive influence on environmental conservation and local eco-systems.

This Agricultural and Educational Field Trip enhanced these foreign students’ knowledge of culture, customs and agricultural related industry in Taiwan. Through personal participation they gained a more in depth understanding of the island’s great biodiversity and rich cultural resources. As a result, the trip not only improved their knowledge of agriculture in Taiwan but also was a significant cultural exchange.



Research Team Led by Dean Yang Pan Chyr, National Taiwan University College of Medicine, Uncovers New Mechanism of Tumor Suppressor Gene Results Published in *Nature Cell Biology*



Dean Yang and the research team

The research team led by Academia Sinica Institute of Biomedical Sciences and National Taiwan University College of Medicine Dean Yang Pan Chih, with the members National Cheng Kung University College of Medicine Associate Professor Hung Tse Min, National Defense Medical Center Professor Sytwu Huey Kang and Dr. Wang Shu Pin, uncovered a new mechanism of how tumor suppressor gene p53 influenced cancer cell migration.



Tumor suppressor gene p53 is related to 50% of all human cancers, including hepatic cancer, lung cancer, gastric cancer, esophageal cancer, colorectal cancer, ovarian cancer, bladder cancer, breast cancer and prostate cancer. Scientists around the world are hoping to solve the cancer puzzle and find a cure by understanding more about the functions and regulation of p53.

finding could very probably be the main mechanism of lung cancer migration, and an important target for treating lung cancer.

Besides basic research achievements in cell biology, this research has clinically verified the regulation path affected by tumor suppressor gene 53 in lung cancer specimen, proving that this new

This achievement of Dean Yang Pan Chih's research team is a step towards solving the cancer puzzle, and can be applied in the development of new medicines for treating lung cancer, opening up a new way for preventing and treating human cancers. This major accomplishment was published in the June 2009 issue of «*Nature Cell Biology*».

Two More NTU Research Works Presented in CHI This Year



The user interface of the SmartPlayer adopts the metaphor of a car dashboard.

The ACM Conference on Human Factors in Computing Systems (CHI) is the most prestigious conference in the field of human-computer interaction. Current user interfaces (UI), though responsive to users, still lack the ability to interact with users appropriately according to the context and the physical, emotional, and informational states of users. One aim of the project, "Content 2.0:

User-Centric Internet Multimedia", is to push forward progresses in this direction. In the past, Taiwan has had little presence in this elite forum. Last year (2008), Prof. Hao-hua Chu at NTU published the first CHI long paper from Taiwan. This year, the project members of "Content 2.0: User-Centric Internet Multimedia" have added CHI long papers from Taiwan.



Assistant Professor Tsao Po-nien's Study of Notch Signaling in the Lungs Selected as Cover Story for *Developmental Biology Journal*

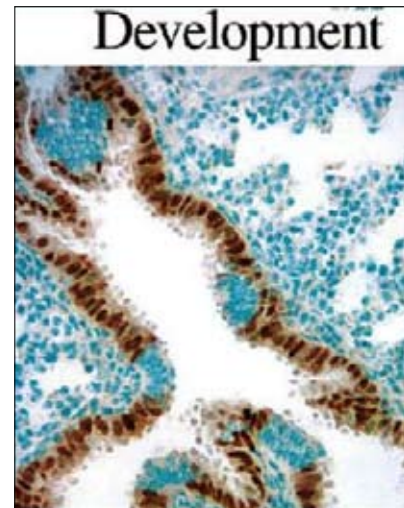
Development

In recent years, stem cells and regeneration have been red button issues. In point of fact, developmental biology and regeneration are two sides of the same coin, since successful regeneration is possible only with a sufficient understanding of organ development.

Pulmonary diseases cover a wide range, including bronchopulmonary dysplasia, infectious diseases (tuberculosis, influenza SARS) and chronic pulmonary obstructive disease. Hence, an improved understanding of how the lungs develop makes it easier to determine how best to treat related pulmonary illnesses.

Doctor Tsao Po-nien of the Pediatrics Department, NTU Hospital, is a neonatal doctor who specializes in lung development. As a Ph.D. student at the NTU Graduate Institute of Clinical Medicine, Dr. Tsao, supervised by professor Hsieh Feng-chou, used PLFG transgenic mice to discover new causes of pulmonary emphysema. His thesis was published in the *American Journal of Respiratory and Critical Care Medicine*.

➤ Tsao's research was selected as the cover story for the most recent issue (June 5, 2009) of the leading journal for developmental biology – *Development*.



Tsao later used tissue-specific Shh-Cre mice to successfully produce a gene knockout mouse with lung epithelial-specification, as a vehicle for research into the significance of Notch signals on the functioning of the lungs in vivo. As a result his research was selected as the cover story in the latest edition of noted developmental biology journal *Development* (June 5, 2009).

NTU's College of Medicine recently appointed Department of Medicine alumnus Chung Cheng-ming (class of 1978) as a visiting professor in developmental biology. For more than a decade, Chung worked in the Pathology Department of the College of Medicine at the University of Southern California (USC) and recently had four papers published in the esteemed scientific journal *Nature*. In 2008 he was made a Fellow of Academia Sinica.

The first paper introduces the smartPlayer developed by Prof. Bing-yu Chen and his team, which uses a new video interaction model called adaptive fast-forwarding to help people quickly browse videos. This model is designed around the metaphor of "scenic car driving," in which the driver slows down near areas of interest and speeds through unexciting areas. Results from a preliminary user study suggest that for certain types of video, the SmartPlayer yields better user

experiences in browsing and fast-forwarding videos than existing video player interaction models.

Prof. Yi-ping Hung and his students from the ivLab (image and vision Laboratory) published another paper about the i-m-Top (the interactive multi-resolution tabletop display system), featuring not only multi-finger touch, but also multi-resolution display. Previous studies have outlined the advantages of multi-resolution large-area displays over their

fixed-resolution counterparts, however the mobility of the fovea projection region has received very little attention. Empirical data gathered during the course of a multi-faceted user study demonstrates that the system with steerable fovea region significantly outperforms that with fixed fovea region.

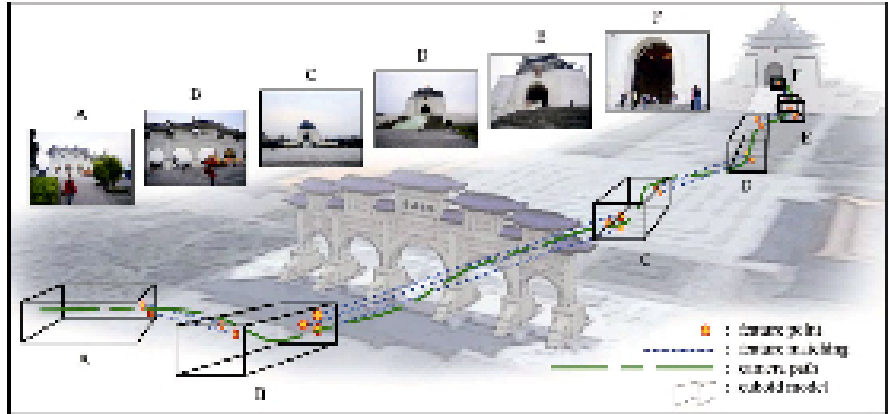
An Interactive Multi-Resolution Tabletop which supports multi-touch interaction and multi-resolution presentations.



NTU Shines at ACM International Conference on Multimedia



NTU presented a novel way for users to browse photos. Given an unordered photograph set (A-F), the proposed Photo Navigator system automatically organizes them according to their spatial relationship. For each photograph, a cuboid model and a couple of camera poses are estimated automatically. With these, the system generates a “fly-through” path for each photograph and smooth transitions between photographs. Thus, browsing photos with the slideshow generated by the system offers a more enjoyable experience almost as if you were there.



Top conferences are important venues for presenting research results in computer science. Conference presentations are often more important than journal articles, since computer science is a rapidly emerging field with lots of exciting developments all the time. National Taiwan University had a strong presence at the ACM International Conference on Multimedia, the most prestigious conference in the field of multimedia research. NTU faculty and students presented four full technical papers, four short papers, two technical demonstrations and one tutorial. Only 56 full papers had been accepted by the conference. NTU faculty and students published the second most papers for an institution, second only to Microsoft Research Asia. Fifteen professors and students attended the conference and presented their research. Many participants noticed the NTU’s impressive presence at the conference.

In these papers, NTU research teams introduced new techniques for media retrieval, a novel way for browsing photographs, and a method for locating and mapping surveillance cameras in city maps. For media retrieval, the advent of

media-sharing sites like Flickr has drastically increased the volume of community-contributed multimedia resources on the web. However, due to their magnitudes, these collections are increasingly difficult to understand, search and navigate. To tackle such issues, as reported in the paper “ContextSeer: Context Search and Recommendation at Query Time for Shared Consumer Photos”, Prof. Winston Hsu and colleagues developed a novel search system, ContextSeer, to improve search quality (by reranking) and recommend supplementary information (i.e., search-related tags and canonical images) by leveraging the rich context cues, including the visual content, high-level concept scores, time and location metadata. In addition, Prof. Yung-yu Chuang and his student Ming-fang Weng proposed a multi-cue fusion approach to explore inter-shot dependency and inter-shot correlation to improve the accuracy of video search by 30%. For photo browsing, Prof. Ja-ling Wu and colleagues presented the Photo Navigator paper. This paper set forth a novel way for users to browse their photographs. Given a set of unordered photographs, the system automatically organizes



Fifteen NTU professors and students attended ACM Multimedia, the most prestigious conference in the field of multimedia research. NTU had a very strong presence including four full technical papers, four short papers, two technical demonstrations and one tutorial.

them according to their spatial relationship. For each photograph, a cuboid model and a couple of camera poses are estimated automatically. With these, the system generates a “fly-through” path for each photograph and smooth transitions between photographs. Thus, browsing photos with the slideshow generated by the system offers a more enjoyable “being there” experience. Finally, Prof. Yi-ping Hung and his team proposed a method to correspond locations in a map to locations in the videos captured by surveillance cameras. This enables many surveillance applications such as tracking a car and plotting its path in a city map.



Yuan Tseh Lee (former president of Academia Sinica) Speaks at Graduate Institute of Photonics and Optoelectronics

The NTU Graduate Institute of Photonics and Optoelectronics recently invited Yuan Tseh Lee, winner of the Noble Prize in Chemistry and a former President of Academia Sinica, to speak on his years of experience in the field of scientific research.

Dr. Soo-Chang Pei, Dean of the College of Electrical Engineering and Computer Science delivered the opening remarks for the 90-minute seminar.

The seminar entitled "My Research Career" attracted a large number of students and teachers from the College of Electrical Engineering and Computer Science. After an introduction by

Yuan Tseh Lee discussed the details of his research career at the Graduate Institute of Photonics and Optoelectronics seminar.

Huang Sheng-lung, Dean of the Graduate Institute of Photonics and Optoelectronics, Lee talked about his experiences over several decades, beginning with his graduation thesis as a university senior. Besides receiving the Noble Prize in Chemistry, Lee admitted to relishing the sense of satisfaction that comes from conducting cutting-edge research. At the end of the talk, he spent time answering questions and sharing his thoughts on how to nurture good students. Lee also took time to remind students that in the field of scientific research it is always important to be passionate, curious, focused.



Yuan Tseh Lee's two-hour talk and Q+A session came to an end amid enthusiastic applause. Those in attendance expressed gratitude that Lee had taken time out from his busy schedule. The seminar offered those in attendance inspiration and much else to think about.

Professor Leo Ou-fan Lee Offers a "Seminar on Modernism"

In May 2009, Academia Sinica Fellow, Professor Leo Ou-fan Lee, was offered the "Pai Hsien-yung Chair in Literature" at NTU's Graduate Institute of Taiwanese Literature. He was expressly invited to offer an in depth two month "Seminar on Modernism." Professor Lee taught before at the University of Chicago, UCLA, Harvard, and is currently visiting chair at the Chinese University of Hong Kong.

This program will be divided into 13 units, ranging from nineteenth century urban literature and culture to theories of textual analysis and modernism in Taiwan. Texts used will



NTU professor Yang Hsiu-fang discussing experiences of teaching Taiwanese with teachers from three other schools.

include masterworks by Charles Baudelaire, James Joyce, Virginia Woolf and Ernest Hemingway. Professor Lee will also lead students in revisiting the Taiwan of the 1960's, beginning with the editorial for the initial issue of Modern Literature magazine. He will explain how students

from the Foreign Languages and Literatures Department at NTU utilized the introduction and translation of foreign texts and criticism as an alternative form of learning in a social environment that was relatively closed.

During these classes Professor Lee will offer detailed textual analysis and theoretical approaches. Students are expected to familiarize them-selves with the texts and present oral reports. At the end of the program, individual talks will be held to discuss thesis outlines. Students from other departments, schools and even overseas are welcome to attend making the "seminar on modernism" the very epitome of diverse cultural learning.



Update on the “Center for Ethics, Law and Society in Biomedicine and Technology”



The NTU “Center for Ethics, Law and Society in Biomedicine and Technology” (CELS) was established in April 2007 with the aim of promoting education, research and policy deliberation in the field of bioethics and law. Since its establishment, CELS has held conferences, workshops, lectures, and training courses, and published recommendations and books. It has also worked closely with the UNESCO Chair in Bioethics in two international bioethics conferences which were held in Israel. CELS has since substantially contributed to the progress of bioethics discourse and education domestically and internationally.

Recent Activities

Workshop on Bioethics, Law, and Society—Professional Ethics

On 5th June, 2009, NTUCELS held a Professional Ethics Workshop focusing on engineering ethics, legal ethics, and medical ethics. In this workshop, experts from engineering, law and medicine who had been teaching and conducting research in professional ethics were invited to share their ideas, opinions, and teaching experiences.

2009 Roundtable on Bioethics, Law & Society-Biobank Ethics

In March 2009, a workshop and a seminar on ethical issues of biobank were held by CELS. The seminar invited Professor Soren Holm, the editor-in-chief of *Journal of Medical Ethics* and renowned bioethics scholar from UK, to speak on the ethical issues in Biobank and the UK experiences. On 16th March, Dr. Wen-Tsong Chiou, an assistant research professor from Academia Sinica, was invited to give a talk in the workshop focusing the ethical issues of Taiwan Biobank.

Winter Course on Clinical Bioethics

In December 2008, CELS hosted a three-day “Winter Course in Clinical Bioethics” in collaboration with the NTU College of Medicine and the Ministry of Education. International experts in clinical ethics were invited as instructors.

2009 Taiwan Clinical Ethics Network Workshop: Principles

and Practice of Clinical Ethics Consultation

NTUCELS co-organized the Principles and Practice of Clinical Ethics Consultation Conference with the Taiwan Clinical Ethics Network. Eight renowned international speakers from the 5th International Conference on Clinical Ethics and Consultation (ICCEC) were invited to share the current practice and progress of ethics consultation in their countries.

Workshops and International Conference on Health, Law, and Society Issues in Wireless Communication Technology

Since the IT industry supports a large portion in Taiwan’s economy, NTUCELS held a series of workshops and a conference on the ELSI of Wireless Technology in May and Oct. 2008.

Asian Task Force on Organ Trafficking

Due to the increasing shortage of organs for transplantation, transplant tourism has become a growing industry in recent years. Rich patients travel to poor countries to receive organ transplantation. NTUCELS organized the Asian Task Force on Organ Trafficking in 2007.

Publications

Taipei Recommendations

The Asian Task Force on Organ Trafficking published the *Taipei Recommendations on the Prohibition, Prevention and Elimination of Organ Trafficking in Asia* to raise public attention on this issue.

Translation and publication of Case books of the UNESCO chair in bioethics teaching materials

To promote bioethics education around Taiwan, NTUCELS has translated four books published by the UNESCO Chair in Bioethics into Chinese.

Future activities in 2009

CELS will hold another two conferences in 2009, one on professional ethics in October and another on neuroethics in November.



Women and Gender Studies Division Promotes Interdisciplinary and International Exchanges to Put Gender Education into Practice

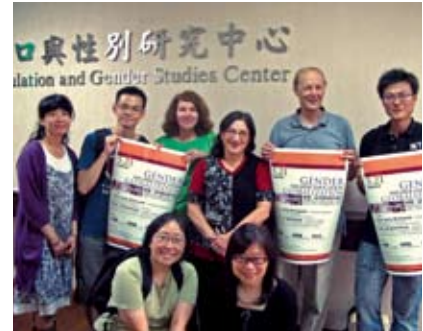
In recent years, the Women and Gender Studies Division of NTU's Population and Gender Studies Center has worked to promote interdisciplinary and international exchanges to put gender education into practice. In addition to these academic efforts, the division has offered physical movement classes to explore gender differences and initiated a project for the translation and promotion of gender-relevant films.

One recent effort in this direction was the symposium "Gender, Higher Education, Globalization," which the division held on May 21. Division head Prof. Miao-fen Chen, of the College of Law, served as the symposium's host. Speakers included Prof. Chang-ling Huang of the Department of Political Science, Prof. Chin-ju Mao of the National Taiwan Normal University Department of Education and Prof. Wang Hsiou-huai of the NTU Center for Teacher Education. Furthermore, Prof. Nelly Stromquist of the University of Maryland and Prof. Jill Blackmore of Deakin University participated as speakers, giving the symposium an international aspect.

Besides taking part in the symposium, Prof. Stromquist and Prof. Blackmore accepted the division's invitation to serve as visiting scholars from July to December, helping further promote international exchanges

with the division. In the same vein, Jason Ferguson, a doctoral candidate at Columbia University, arrived at NTU in July to commence a one year stay at the division as a visiting researcher. Also, from November to February, the division will host Prof. Hu Xiaohong of the International Relations Institute at China's Northeast Normal University, who will help promote academic exchanges in gender education between Taiwan and China.

The division first organized its Queer Diaspora Workshop during the 2008/2009 academic year, and is now organizing the 2010 International Conference on Queer Diaspora for June 11 and 12 in 2010. With an emphasis on interdisciplinary scholarship, this conference aims to bring together researchers focused on such issues as gender, class,



Group photo of Prof. Nelly Stromquist and Prof. Jill Blackmore along with participating professors and other symposium attendees.

generation and culture to explore the practical influences of, as well as the challenges posed by, queer, gender and cultural research on lifestyles, value attitudes, research methods, knowledge and society. The division welcomes all interested parties engaged in research related to gender, queerness, identity, dispersal, movement, social discrimination and social equality to participate in the conference and present research papers. (Continue to next page. →)

The "Gender and Physical Development" course aims to examine the relationship between gender and the body so that students may begin to reflect upon the differences.





(←Receive from last page.)

The division has endeavored to put gender education into practice since its establishment and has enjoyed the enrollment of over 500 students in its "Women and Gender Research Courses" over the years. In 2008, Dr. Shih-jen Tsai, a cultural anthropologist, ethnologist and dancer who graduated from the School for Advanced Studies in the Social Sciences (EHSS)

in France, helped create the "Improvisational Egyptian and Oriental Dance and Physical Movement Workshop," while the course "Gender and Physical Movement Development" was offered this year. Such courses aim to integrate gender and the body to spur students to reflect on gender differences.

Moreover, during the 2008 academic year, the Ministry of

Education commissioned the division to cooperate with the Taiwan Women's Film Association (Cinewomen) on the "Gender Human Rights Documentary Film Translation Project" in order to further promote gender education.

A Course Specially Designed for NTU Freshmen – "Freshmen Seminar"



A student's term exhibition report "Humane Care and Creative Thinking"

Students face a whole new learning environment and campus culture upon entering college; they are not only free to choose their courses and teachers but have to think for themselves on many issues. Last year, to help them meet these challenges, NTU began to offer the course, "Freshmen Seminar," in which faculty guide the incoming freshmen in acquainting themselves with NTU's campus culture and temple of learning.

The "Freshmen Seminar" course includes 23 seminars, including "Humane Care and Creative Thinking," "Lonely Hearts of the Cosmos," "Mathematical Models

and Scientific Research," "Love Exercise," "Read Taiwan/Explore the World," "The Diversity of Life," "Learning Map of NTU," "The Pursuit of the Meaning of Life," "Reservations for a Beautiful Life," "Engineering Principles Even Cells Know," "Youth and Taiwan's Social Transitions," "College Students' Media Literacy," "Challenge and Criticism," and "Cross Strait Relations." There are no limits on the seminar topics or how the classroom discussions are conducted; there is a premium, however, on open student-teacher dialogue in a manner that stimulates students to think and introspect.



In the future, NTU will continue to design and offer an even more diverse range of freshmen seminar courses in the effort to inspire freshmen to think over their college lives, cultivate critical thinking skills and maintain a good attitude in learning and living.

Diverse Courses of "Freshmen Seminar"



NTU at a Glance

ICLP Contribute to Cross-Cultural Relationships

As globalization increases the pace of cultural interaction and exchange between East and West, second language education is seen as the most straightforward and efficient medium of cross-cultural communication. Reflecting this trend, the number of students in the ICLP Summer Program reached an all-time high in 2009. Although the number of ICLP students is at its peak, we continue to ensure that our students are of the highest caliber possible.

The quality of teaching at ICLP arises from our professional instructors. 75% of the faculty members are MA degree holders or MA/PhD candidates, among which 59.25% are graduates or degree candidates of the Graduate Institute of Teaching Chinese as a Second Language, National Taiwan Normal University. 27.77% of them are certificate holders of the Teaching Chinese as a Second Language Program at National Taiwan University.

Regardless of background, to become a trial Chinese instructor at ICLP, one must pass three rigorous steps of a selection process: interview, written examination and teaching demonstration. To be qualified as an official Chinese instructor, a trial instructor must attend a four-day intensive initial training and constant in-service training courses led by senior instructors for one quarter. <http://iclp.ntu.edu.tw/>



NTU Marches into the Top 100, Ranked 49th in the World in Engineering and IT in Recent Survey

The US News and World Report released its 2008 ranking of world universities on July 2nd . In the category of engineering and IT, National Taiwan University was ranked 49th in the world. NTU was the only university from Taiwan to reach the top 100. NTU also broke the top 100 in three other categories. It was ranked 50th in Natural Sciences, 74th in Social Sciences and 94th in Life Sciences & Biomedicine.

For news clippings please visit <http://www.usnews.com/sections/education/worlds-best-colleges/index.html>



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