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THE 101ST ANNIVERSARY OF TSING HUA AND HER 56TH YEAR IN TAIWAN

The founding anniversary of Tsing Hua is celebrated on April 29th this year. April 29th was the exact date when Tsing Hua Academy started to operate in 1911, Beijing. Traditionally, NTHU has adopted a policy to celebrate her founding anniversary on the last Sunday of April so that it would not interfere with academic activities. President Lih J. Chen indicated that using 28 years as a cycle; it would take 7 years, on the average, to have the 29th of April to coincide with a Sunday. Thus, April 29th of 2012 is actually the 100th anniversary of Tsing Hua.

President Chen indicated in his address that this year also marks the 50th anniversary of the passing of the late President Mei Yi-chi who served as the President of Tsing

Hua in Beijing as well as the first President of NTHU when it was re-established in Taiwan in 1956. During his 24 years of service as the President of Tsing Hua in Beijing and NTHU in Hsinchu, Dr. Mei laid a solid foundation for both institutes and led both of them to develop and become the elite institutions on both sides of the Taiwan Strait. All three Nobel laureates that Tsing Hua had cultivated, Dr. Yung-Tseh Lee, Dr. Chen-Ning Yang and Dr. Tsung-Dao Lee were studying on Tsing Hua campus when President Mei was the presiding president. Furthermore, it was during Dr. Mei's term as the Dean of Academic Affairs that the world famous Academy of

- Ⓐ President Chen welcoming all guests and stating this year is the true 100th anniversary of Tsing Hua.
- Ⓑ Distinguished guests gathered for the joyful occasion.

Chinese Studies was established. Dr. Mei was instrumental in recruiting many grandmasters to join the Academy and made the Academy a key research institution specialized in the studies of Chinese literature, history of thought and philosophy. After reflecting on the glorious history, President Chen turned his attention to the recent accomplishments that NTHU has accumulated. NTHU has not only been ascending in the world rankings; our faculty members have also received numerous national and international awards recognizing their research accomplishments.

- Ⓒ President Chen with the distinguish guests.
- Ⓓ Cutting the birthday cake (from right to left, Dr. Way Kuo, Dr. Tien-Yien Li, President Chen, Chairman T. J. Tseng and Chairman Robert Tsai).





Many of their research results were published in the most prestigious scientific journals such as *Science*, *Nature* and *Cell*. President Chen believes that while we have just witnessed the highest number of research articles published, by NTHU faculty members, in the most prestigious outlets this year, this trend will continue and increase in the years to come.

Mr. T. J. Tseng, Chairman of the Unimicron Technology Corp. and a member of NTHU Alumnus Association, indicated that the growth of his alma mater over the last year is phenomenal and astounding. Faculty members' researches are well-recognized world-wide and more importantly students are brighter than ever as exemplified in all kinds of national and international competitions that

they have excelled.

Chairman Tseng also reported on the progress of the Alumni Gymnasium. Funded with the donations coming from alumni in Taiwan and abroad, this multi-functional gym will soon be completed in six months. It will be another beautiful landmark on our campus and a great symbol of the loyalty and devotion of all alumni toward NTHU.

On behalf of the class which graduated 40 years ago, President Way Kuo of City University of Hong Kong took the podium and shared some of his memories of the fashion and dining facilities on campus when he was a student here at NTHU.

He indicated that these memories proved that even though technology and society are changing rapidly, the basic principles of an excellent university remain the same. These are the emphasis on the quality and an attitude to deal with issues directly and righteously. President Kuo also emphasized that in the minds of all graduates of NTHU, their love and devotion toward their alma mater will not only remain the same but will increase and deepen as time goes by.

During the ceremony, NTHU also

awarded three of her alumni with the 13th Distinguished Alumni Awards to Dr. Tien-Yien Li, Dr. Zhong-Ping Sun and Chairman Robert Tsai celebrating their outstanding achievements in their respective fields.

Last but not the least, a NTHU World Expo was organized and hosted by all international students who are currently studying on campus. Twenty-nine nations were represented in the expo featuring music, dance and theaters aiming at showcasing beautiful aspects of their home cultures.





NTHU HONORS THREE OUTSTANDING ALUMNI WITH THE DISTINGUISHED ALUMNI AWARD

After a yearlong consideration and discussion at the Selection Committee, NTHU has recently announced and awarded the 13th Distinguished Alumni Awards to three outstanding entrepreneurs applauding their excellence and acknowledge the contributions they have made. They are:

Dr. Tien-Yien Li who is a graduate of the Department of Mathematics and currently a Chair Professor at Michigan State University. An extremely accomplished applied mathematician; he formulated the "chaos" theory with Dr. Jim A. Yorker and ushered in a new era for the scientific community with their research on the chaotic dynamical system. Moreover, Dr. Li, Dr. R. B. Kellogg and Dr. Yorker's method and theory on how to calculate Brower set point broadened the modern research on homotopy continuation in algorithm.

With the motto of "live as if today is the last day," Dr. Li made himself

a rigorous scientist and inspires all his students to do the same. He said that being smarter than others is not a sufficient condition to success; to be able to understand the problem is much more conducive. He further stressed that his method of solving problems is to devote one more minute than others, and that extra minute could be the very step needed on the road to success. He often reminds his students to "do it with all your heart; persist until the very end and never give up easily." Additionally, Dr. Li said that learning and doing research require thorough understanding, especially in mathematics, because memorizing the logical process with scanty knowledge is useless, one should look at a problem from different angles.

Aside from his busy schedule at Michigan State, Dr. Li has taken a great deal of his time to promote computational science in Taiwan. He is also passionate about his

alma mater and has made great contribution towards developing NTHU's Department of Mathematics.

Dr. Zhong-Ping Sun received her Ph.D. in Materials Science and Engineering from Cornell University after graduating from NTHU's Department of Nuclear Engineering in 1974. She is currently the Vice President of Corporate Planning at Taiwan Semiconductor Manufacturing Company (TSMC). Before joining TSMC, she served at IBM for 23 years as the General Manager of Taiwan Corporation Technology Group, which had brought her a spot in the Hall of Fame in the IBM Corporation Technology Group.

After graduation in 1980, she entered the top IBM Research Center in New York as a researcher, and discovered that many research findings failed to be materialized in the process of product manufacturing. Eager to find a solution for such a gap between R&D and manufacturing, Dr. Sun

a Photo of the three distinguished alumni with President Chen (from right to left: Mr. Robert Tsai, Dr. Tien-Yien Li, President Chen, and Dr. Zhong-Ping Sun).

b Dr. Li accepted the Certificate of Distinguished Alumnus.



asked to be transferred into the department of product development and later to the manufacturing sector hoping to find solutions to fill such "gaps."

In 1993, Dr. Sun voluntarily transferred to the marketing field. In 1996, she was asked to specialize in the sales of technologies developed by IBM Technology Group in the fields of microelectronics, hard drives and monitors. Meanwhile, she was also appointed with the important task to establish the Asia-Pacific Regional Headquarter. In 1999, Dr. Sun made a new record of completing an eight-billion-dollar procurement and strategic alliance contract with the Acer Group in only 80 days. The contract was another peak in her career and the third joint project (first and second being with Dell and HP respectively) since the founding of IBM Technology Corporation. In July, 2000, Dr. Sun assumed the position as the General Manager of Acer Union and in autumn of 2003, she officially joined TSMC as the Vice President of Corporate Planning with the responsibilities to oversee TSMC product pricing, and capacity/cost/capital expenditure planning, as well

as the plans of manufacturing and business development. Dr. Sun and her family share a strong bond with NTHU. Her father and siblings are all NTHU's alumni. She is also a member of Club One Hundred and has made many generous donations toward the development of NTHU over the years. Mr. Robert Tsai is a graduate of the Department of Chemical Engineering and is currently the Chairman of three major companies in Taiwan and China. These are: Swancor Co., Ltd. in Taiwan, Swancor Fine Chemical Industrial Co., Ltd. in Shanghai and Swancor Wind Blade Materials Co., Ltd. in Tianjin. Under the leadership of Mr. Tsai, Swancor has won numerous national industry and enterprise awards. In 2011, Swancor became an IFRS Model Manufacturer selected by the Financial Supervisory Commission (FSC). In the same calendar year, Swancor also passed the Corporate Governance System Assessment and received CG6006 Certificate. In addition, Swancor is currently the largest vinyl ester resin supplier in Taiwan, mainland China and Southeast Asia region. Chairman Robert Tsai has long been a well respect consultant for small

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- c** President Chen presenting Dr. Sun with the Certificate of Distinguished Alumnus.
 - d** President Chen presenting Mr. Robert Tsai with the Certificate of Distinguished Alumnus.
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and medium firms since 1997. He believes to serve as a consultant to small enterprises at their early stage of development is to give back the support he received when he first started his own business. Mr. Tsai maintains strong a connection with his alma mater. He actively participates in the development of his home department, and he is the current Chairman of Tsing Hua Entrepreneur Network Association. Moreover, over the years, he has been a frequent guest speaker presenting his expertise and share his experience at various forums held at NTHU. Last but not the least, Mr. Tsai is also a member of Club One Hundred and donated 10 million NTD in the name of Swancor Corp. to the construction of Tsing Hua Lab.



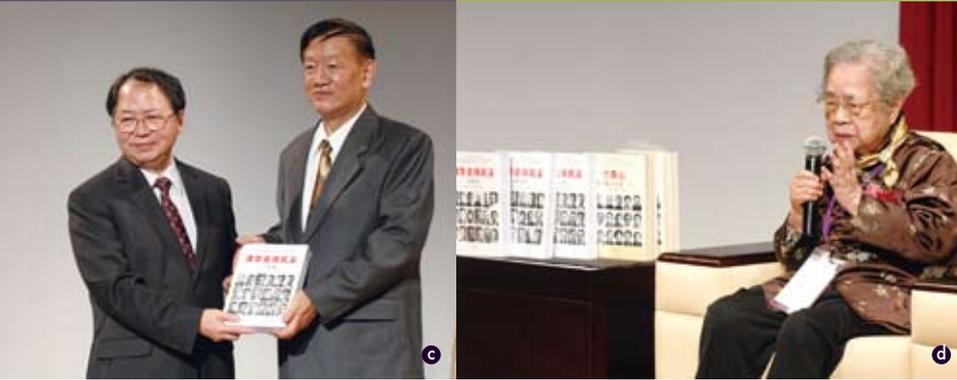
THE LEGACY OF TSING HUA GRANDMASTERS

To celebrate the 101st founding anniversary and commemorate the 50th anniversary of the passing of President Mei Yi-chi, NTHU invited the descendants of six Tsing Hua Grandmasters from mainland China and presented a forum to commemorate the Grandmasters on April 29th. Through such a forum where the descendants recollect the life stories of their forebears, we hope that all Tsing Hua persons will have a chance to familiarize themselves with the important works and contributions that these grandmasters had made during the early days of Tsing Hua University. President Lih J. Chen opened the forum by quoting President Mei Yi-chi who once said that "the greatness of a university is not in her building, it is on the persons of her grandmasters." President Chen also recalled the history of the establishment of Tsing Hua Academy of Chinese Study in 1925

and indicated that the founding of this Academy was actually a turning point in the developmental history of Tsing Hua as a whole. With the establishment of this Academy, Tsing Hua was transformed from a prep-school where students planning to go to the U.S. prepared themselves before going abroad to that of a true university with a comprehensive undergraduate curriculum and unique research strength. President Mei, then working as the Dean of Academic Affairs, was instrumental in this important developmental process. He recruited many accomplished scholars to join the rank of Tsing Hua faculty and within a short while transformed Tsing Hua to a power house of Chinese studies and a premier university in China. Thus, when Tsing Hua celebrated her 30th anniversary, she was praised as "having accomplished what foreign universities took hundreds of years to accomplish within mere thirty years!" This history, President Chen

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- Ⓐ President Lih J. Chen and the descendants of Tsing Hua Grandmasters.
 - Ⓑ President Chen welcoming the honorable guests.
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emphasized, clearly demonstrated to all of us that the greatness of Tsing Hua stems from nowhere but her outstanding faculty members. Tsing Hua Beijing has recently published a book, *A Profile of Tsing Hua Grandmasters*, to commemorate the academic accomplishments of these grandmasters. This book follows the principle of "not writing someone's biography while he/she is still alive," it profiles only those grandmasters who had passed away. Although NTHU is a younger institution, she has cultivated quite a few grand scholars and President Chen hopes that in due time we will publish *A Profile of Grandmasters in Tsing Hua, Hsinchu* to document the great accomplishments some of our colleagues have accumulated. The forum of Remembering Tsing Hua's Grandmasters started with the 101 years old Ms. Wang Dongming, the daughter of the grandmaster of Tsing Hua's College of Chinese Literature, Mr. Wang Kuo-wei.



She recalled her father, taught her how to read classic literature, and said, "Mencius has stories so it is somewhat interesting, but the Analects is really hard to understand." The great grandson of Mr. Wang Kuo-wei, Mr. Wang Liang, indicated that even though Master Wang was the grandmaster of Chinese literature, he actually studied physics while he was studying in Japan. He further stated "in Chinese, the term science (科學) could possibly be first coined by Wang Kuo-wei."

Mr. Wen Yiduo was the Dean of Tsing Hua's Department of Chinese Literature, his second son, Mr. Wen Lidiao (84 years old) shared his memory about his father; Master Wen loved classic literature since his youth and was determined to study Chinese literature in the future.

Ms. Wu Liming, the granddaughter of Tsing Hua's College of Chinese Literature instructor and Grandmaster of Culture, Mr. Liang Qichao, expressed that her grandfather was an educator and a great father, three of his nine children acquired the status of Academician. In addition, Master Liang wrote over 14 million words of literature,

which indicated Mr. Liang Qichao's diligence and devotion to his discipline.

Ms. Shi Qiuming stated that her entire family has a very deep connection with Tsing Hua, as her father was the former professor of Tsing Hua Institution of Sociology, Mr. Shih Kuo-heng, and he was also the longest serving Chief Librarian of Tsing Hua University Library.

In addition, Mr. Chen Beichen recalled his childhood memory about his great grandfather, Dr. Li Chi, the instructor of Tsing Hua's College of Chinese Literature and the father of Chinese Archeology, that he was stern towards his family. However, when Mr. Chen was organizing Prof. Li's data, he soon discovered that his great grandfather was passionate towards archeology and Chinese pre-history.

Mr. Xia Zhengyan, the son of another renowned Chinese archeologist, Master Xia Nai, pointed out that his father began writing diary on the day he start attending Tsing Hua and continued as long as he was alive.

Mr. Xia also mentioned that his father originally wished to study in the field of science but then chose archeology as his lifelong profession.

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- Ⓒ Mr. Zhou Wenye presenting a copy of *A Profile of Tsing Hua Grandmasters* to NTHU.
 - Ⓓ 101 years old Ms. Wang Dongming energetically describing her interaction with her father.
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Lastly, one of the editors of *A Profile of Tsing Hua Grandmasters*, Mr. Zhou Wenye, the son of the former Director of Tsing Hua's Department of Psychology, Master Zhou Siegen, used visual materials to introduce Tsing Hua grandmasters, and thereby shortened the distance between the grandmasters and their admirers.



NOBEL LAUREATES INSPIRED NTHU AUDIENCES

Recently, NTHU launched a series of public lectures entitled "2012 Nobel Month at NTHU". Each lecture was presented by a Nobel Prize winner, and attracted large audience. It was a feast for all members of NTHU and professionals in greater Hsinchu.

1. Dr. Danny Schechtman, a Nobel laureate in chemistry, shared his journey of Quasi-periodic crystal discovery in the year of 1982. Under the title of "The Discovery of Quasi-Periodic Crystals," Dr. Shechtman discussed that the atoms of matter can be either aligned ordered or disordered. When a matter has three dimensional ordered atomic arrangements, it is call a crystal and has translational symmetry, and once a crystal is irradiated by x-ray, beautiful diffraction pattern will show due to its atomic periodic arrangement. Furthermore, according to crystallographic restriction theorem, a typical crystal can have one, two, three, four or six rotational

symmetries, but in 1982, Dr. Shechtman discovered Quasi-crystal with five rotational symmetries.

This new discovery did not receive much recognition from scientific community right away; people began to recognize the significance of his discovery when he reanalyzed his data and published a report in *Physics Letter* in 1984. Due to his publication, the discovery of Quasi-crystal began to attract attention internationally. Quasi-crystals are stable and easy to synthesize, its unique structure could have multiple forms and special properties. However, why were Quasi-crystals took such a long time to be discovered? Dr. Shechtman believes it was related to the development of electron microscope technology, and the high standards of research and professionalism, as well as the courage to be skeptical about other's works.

2. The 1997 Nobel laureate in physics, Dr. Claude Cohen-Tannoudji

gave an exciting presentation on "Light and Matter." He indicated that science is a fascinating journey of discovery and this journey welcomes all interested young students to join and to search ways to improve our living environment. Dr. Cohen-Tannoudji won the Nobel Prize in Physics with his technique in synthesizing ultra-cold atoms. He mentioned, regardless of atoms or solids, all objects are collectively called matter. The science of interaction between light and matter allowed technology to progress rapidly. He further pointed out that exploring the true nature of light and its interaction with matter has always been the core subject of research and the beginning of new ideas and technical revolution, such as relativity, quantum physics and laser. At the same time, researching the truth behind light and matter interaction, new techniques, such as optic pump and laser cooling, are being developed to manipulate

Dr. Shechtman presenting his speech "Discovery of the Quasi-Periodic Crystals."



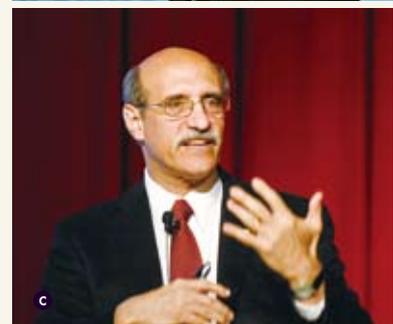
atoms. In early 1980, Dr. Cohen-Tannoudji, Dr. Alain Aspect and several fellow researchers established a laboratory and focused on the research of laser cooling and binding. Later on, the research team invented the "Zeeman Reducer," which is the technique to slow down the movement of gas atoms and develop methods for laser cooling and atom capturing, which enable the researchers in this area to pursue their project with ease. The invention brought the 1997 Nobel Prize in Physics to Dr. Claude Cohen-Tannoudji, Dr. William Daniel Phillips and Academician Steven Chu (the current Secretary of Energy in the U.S.)

3. A successful scientist has no preconceived position in his research project. Instead, he is persistent and willing to learn and cooperate with his fellow researchers, said Dr. Chalfie, a Nobel laureate in chemistry in 2008. With the title, "Lighting Up Life," Dr. Chalfie told his audience that basic research is vital for the progress of science. It brings insight to human conditions and promotes the growth and development of agriculture and industry. Reflecting on his high school and undergraduate years, Dr.

Chalfie indicated that nearly all the experiments he conducted during that period ended in failure. Such disappointing experience might have something to do with the fact that he failed to actively sought guidance from others. Fortunately, after a period of soul-searching and by reorganizing what he had learned in high school and undergraduate years, Dr. Chalfie regained his confidence and persistence, he eventually succeeded in making a breakthrough which won him the Nobel Prize in 2008.

In introducing the Nobel laureate to the audience, President Lih J. Chen indicated that "winning the Nobel Prize and other prestigious rewards often has an element of luck because some excellent researchers and their works might had been overlooked due to some circumstantial conditions; but all those who won such awards and honors do deserve it." Having had the opportunity of meeting and hosting many Nobel laureates in recent year, President Chen observed that all of them have some common characteristics. These masters are all friendly, open-minded, and very approachable; they are also very willing to share their knowledge with others. They

also impressed him with their clear mind and excellent communication skills. President Chen urged the audience to take note of these characteristics and to learn not only from their successful research accomplishments but also their characters as gentleman-scholars.



b Dr. Cohen-Tannoudji explains how fascinating the journey of science is and welcomes young people to join the rank.

c Dr. Chalfie lecturing on "Lighting Up Life."



PROFESSORS RONG-LONG PAN AND YUH-JU SUN HAVE THEIR IMPORTANT RESEARCH PUBLISHED IN *NATURE*

After years of collaboration with a research team at Academia Sinica, Prof. Rong-Long Pan and Prof. Yuh-Ju Sun have successfully outlined the molecular structure of the membrane protein H⁺-pyrophosphatase that acts as a hydrogen ion channel of plant vacuoles. This breakthrough in membrane protein research attracted the attention of international researchers, and was published in *Nature* on May 29, 2012.

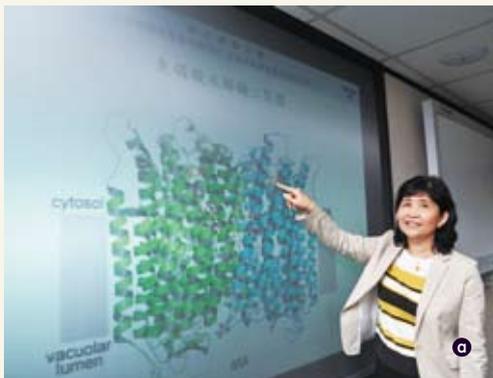
President Lih J. Chen expressed, during the press conference held at National Science Council on April 9th that all excellent researchers

have two things in common: one is its significance, while the other is its uniqueness. The result of the research done by Professors Pan and Sun is undeniably important and unique. The reviewers of their article commented that "the science community has been waiting for this for about thirty years!"

Prof. Pan indicated that the research of genetic cloning and purification of H⁺-pyrophosphatase were already done and published by foreign research teams twenty five years ago. However, his research team decided to utilize the strength of NTHU's College of Life Science in

structural biology to continue their study in this field, and it took only 5 years to surpass all other research groups in the world. President Chen praised the NTHU's team for doing the research that other labs thought impossible and is currently the first research team in Taiwan to successfully resolve the structure of multiple trans-membrane membrane proteins.

Prof. Yuh-Ju Sun pointed out that 30% of cell proteins are in the form of membrane proteins. Currently, only one percent of all types of membrane proteins' structures are resolved and analyzed. The





reason being, it is difficult to extract membrane proteins from cell membranes, and it is equally challenging to crystallize membrane proteins to build high resolution molecular structure for analysis. Prof. Sun's research team, however, used X-ray crystal diffraction method and successfully built the 3-dimensional molecular structure in high resolution of H⁺-pyrophosphatase, and thus unveiled the mystery of this proton channel.

Furthermore, H⁺-pyrophosphatase is composed of two similar protein molecules, with each protein molecule penetrating the cell membrane 16 times. Its structure is extremely complex and can also transform the chemical energy of metabolic byproduct pyrophosphate into energy that other enzymes

can utilize. Prof. Sun stated that H⁺-pyrophosphatase in plants can influence the growth rate and capacity for salt, cold and drought, thus, H⁺-pyrophosphatase is a key enzyme in the development and improvement of commercial crops. In addition, pathogenic bacteria such as Tetanus, Periodontal and Pylori also have similar protein as H⁺-pyrophosphatase on their cell surface, this means that the H⁺-pyrophosphatase can also be used to develop drug that targets protein structures on the pathogenic bacteria.

Lastly, the research done by Professors Pan and Sun built the foundation for H⁺-pyrophosphatase's use in the improvement of commercial crops, drug engineering, and biomass energy supply,

moreover, it wins Taiwan an international recognition and establishes a milestone in the field of membrane protein study. "It is expected that their work will have great potential in the research on environment, green energy, agricultural and medical field, and I am proud that they are members of National Tsing Hua University," said President Chen.



- a Prof. Yuh-Ju Sun pointing out the significance of this research and its potential in the field of environment, green energy, agriculture and medicine.
- b President Chen, the Vice President of Research and Development, Prof. Gwo, and the research team at NSC at the press conference.
- c Prof. Rong-Long Pan thanking the support and assistance from everyone who helped him and his research team.
- d The research team (from left to right): Dr. Chwan-Deng Hsiao, and Dr. Jia-Yin Tsai of Academia Sinica; Prof. Sun and her Ph.D. student Mr. Shi-Ming Lin (holding the 3D model of H⁺-pyrophosphatase), Prof. Pan and postdoctoral fellow Ms. Yun-Tzu Huang of the Institute of Bioinformatics at NTHU.



FAREWELL CLASS OF 2012!

This year's commencement was held in the afternoon of June 9th. Proud families and friends gathered together with joyous graduates to celebrate this memorable moment. Dr. Charles H. C. Kao, the President of Global Views Educational Foundation, presented a speech to encourage the graduates

"to be a professional within your field and knowledgeable outside of your field of expertise." President Chen first congratulated the graduating class for their successful completion of their degree requirements, noted that whether the graduates decide to enter job market or continue their studies, NTHU will always

be a home they can return to. President Chen expressed that the theme of this year's graduation is "Rebirth", which is derived from the word "Renaissance." Renaissance is also a reference to the cultural renaissance that a nation may experience during a cultural revolution. President Chen encouraged each new graduate



- a** President Chen congratulating the Class of 2012 and welcoming the graduates to return and visit their alma mater.
- b** President Chen presenting the graduation certificate to a student.
- c** Dr. Kao encouraging the graduating class to seek out more knowledge within and outside of their field of specialization.
- d** Photograph of President Chen and some of the happy graduates.



to become a renaissance person with vast knowledge and full of talents. A Renaissance person, he explained is a person who has ambitious, curiosity, and is eager to learn.

Dr. Kao agreed with President Chen and emphasized that it is important for students to study first class materials and be a first class professional. He indicated that the students at NTHU are very fortunate, because their curriculums are diverse, and there are plenty of international exchange programs and volunteer opportunities. The institution also offers double major programs, and NTHU does not just provide professional training but also nurtures humanities studies. Dr. Kao further emphasized "do not envy those government officials, wealthy business men, and shining stars, we need to take them as role models to learn how they worked in their professional fields, and how they enjoy life after work."

Dr. Kao further said it is very important to be attentive in the era of technological information, and it is impossible to read all the literatures in the world, therefore, we have to be selective and read only the best materials. Dr. Kao mentioned that when acquiring information it is important to evaluate its quality, accuracy and usefulness, because only those who are attentive can be innovative.

A splendid display of fireworks marked the end of the celebration. The firework is a token from NTHU to all its graduating students wishing them the best in their future.



AEARU 30TH BOD MEETING AND 1ST DISTINGUISHED LECTURE SERIES IN NANJING UNIVERSITY

On the 19th of April, 2012, the 30th Board of Directors Meeting of the Association of East Asian Research Universities (AEARU) was held in Nanjing University, China. The meeting consisting presidents and representatives from Hong Kong University of Science and Technology, Nanjing University, NTHU, Osaka University, Peking University, Seoul National University and Tohoku University. The Board reviewed past activities and discussed new programs proposed by member universities, as well as decided the date and venue of upcoming events.

AEARU's 1st Distinguished Lecture Series was also held in Nanjing University in conjunction with the celebration of her 110th anniversary. The lecture series featured three outstanding professors from Taiwan and China. It opened with President Lih J. Chen welcoming the audience for taking their precious time to

attend and support AEARU's event and thanking the speakers for sharing their award winning researches with the public. Prof. Ann-Shyn Chiang of NTHU started with his speech on "Systems Consolidation of Olfactory Long-Term Memory in the *Drosophila* Brain", which was an extension of his recent discoveries published as a full article in *Science*. The second presentation was Prof. Jong-Dao Jou from National Taiwan University, and he talked about his research on typhoon and climate change in Taiwan, which is always a big concern for people of Taiwan and East Asia. Lastly, Prof. Chenyu Zhang of Nanjing University made a remarkable presentation about MicroRNA. All These presentations were interesting and inspiring, and have attracted numerous rounds of applause from an attentive audience.

Under the invitation from one of the world-class sculpture artist, Prof. Wu Weishan, the Dean of Sculpture Center of Chinese National Academy

- Ⓐ Group photo of AEARU's BOD.
- Ⓑ President Chen presenting Prof. Chiang with a certificate of appreciation for his brilliant speech in AEARU's 1st Distinguished Lecture Series.
- Ⓒ NTHU faculty members with Prof. Wu Weishan in front of the newly installed Confucius statue.



of Arts, NTHU representatives visited Renjie Yuan Sculpture Garden in Wuxi, China, and the Sculpture Museum in Nanjing University; both places display Prof. Wu's most famous pieces, as well as attended the inauguration ceremony of the new Confucius statue installed in the Nanjing University campus. The Confucius statue was sculpted by Prof. Wu as a present for the Nanjing University's 110th anniversary. During their visit, NTHU representatives had also attended NJU's 110th anniversary ceremony.



NTHU VOLUNTEER GROUP GOES TO MALAYSIA THIS SUMMER

On April 26, 2012, Vice President of Student Affairs, Prof. Ping-Chiang Lyu, and Prof. Wong Wun Bin of China Research Center, Raman University, signed a memo of cooperation to assist NTHU's International Volunteer Group in a project to preserve Chinese culture in Malaysia. The International Volunteer Group plans to establish a service station in Malaysia and cooperate with China Research Center to carry out a month-long project to collect and preserve historical documents and cultural materials in Gopen, Perak. Perak was once the capital of the highest tin mineral output in Malaysia. Currently the state's economy is mainly in agriculture and industry. The city of Gopeng sits in the rolling mountain range and rugged lime hills, and has a unique culture and geographic background. Early Chinese immigrants who settled in this area were mostly

laborers with little formal education and did not have the knowledge and leisure to preserve history and culture. In more recent times, even though the educational level has risen, most capable young men decide to find work and live in cities. Under these circumstances, where manpower and resources are constantly lacking, historical and cultural preservation projects are still extremely difficult.

To preserve the local culture and historical materials, the International Volunteer Group will first investigate the historical background, development of Chinese education system, and religious organization, as well as the development of regional and clan associations and local industries. Interviewing with visual and audio recording, the data gathered will be analyzed, and it will be the first step in completing the documentation of Chinese settling in a Malaysian state. All work done by the International Volunteer

Vice President of Student Affairs, Prof. Ping-Chiang Lyu and Prof. Wong Wun Bin of China Research Center of Raman University together with the International Volunteer Group.

Group is aim at promoting cultural preservation and to encourage residents in Gopeng to take responsibility to preserve their own heritage.

Furthermore, the volunteer group will also visit old streets of Taiwan, which was successfully preserved, to produce a five minute short film to share with the locals of Gopeng. They hope the film will serve as an example of how to manage and preserve historical and cultural buildings. In addition, with the help of regional museums, the volunteers hope to bring the Gopeng experiences back to Taiwan to inspire Taiwanese youth to value their own culture and heritage.



NTHU PLACED ON THE TOP AMONG TAIWANESE UNIVERSITIES IN LEIDEN WORLD UNIVERSITY RANKING

Recently, Leiden University announced the 2011 Leiden Ranking which focused on indicators such as number of times an article is cited, ratio of the top 10% publications ($PP_{top\ 10\%}$), and mean normalized citations score (MNCS). In this ranking, NTHU is placed on the top of nine Taiwanese institutions, and at the 18th of all 104 Asian institutions being ranked. Leiden University's Center for Science and Technology Studies (CWTS) has over 25 years of experience in designing an advanced bibliometrics indicator and is using such bibliometrics to rank 500 large research institutions worldwide and to assess the quality of their scientific papers. Thomson

Reuter's Web of Science is the data source of Leiden Ranking. The website uses high precision tools to measure the effect of scientific research cooperation between institutions, and uses the quality of published papers as indicators. Unlike other ranking, it does not take income, institution reputation, staff-to-student ratio, and other organizational elements into account. President Lih J. Chen stated that he is pleased but not surprised. According to him, due to the implementation of the new "Per Paper Reward System" designed to encourage faculty to publish scientific articles and promote growth in both quality and quantity; the number of articles by our faculty

members published in prestigious journals such as *Nature*, *Science* and *Cell* has grown rapidly and are being recognized globally.

2011 Leiden Ranking ranked a total of nine Taiwanese institutions based on their $PP_{top\ 10\%}$. The results are: NTHU (259th among the top 500 worldwide), National Chiao Tung University (322th), National Chung Hsing University (328th), National Taiwan University (353th), National Cheng Kung University (369th), National Sun Yat-Sen University (375th), National Central University (407th), National Yang-Ming University (465th) and Chang Gung University (471th).



NATIONAL TSING HUA UNIVERSITY NEWSLETTER

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PUBLISHED BY OFFICE OF THE SECRETARIAT

PUBLISHER : President Lih J. Chen
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