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In the 21st-centry information age, it is very easy for the urban children to get access to the Internet through computers. However, with only one among ten families being equipped with computers, learning from Internet is a dream hard to be accomplished for the children in isolated areas. Beginning from March 2004, the Executive Yuan formally included "bridging digital divide" as one of the country's important policies. In association with the government's policy, President Tsong-ming Lin has been making every endeavor to promote the information technology education in remote districts. He has also assisted in developing the information technology education in the isolated areas in Yunlin County by combining both the human and financial resources of National Yunlin University of Science and Technology.

Based on the project of "Bridging Digital Divide in Rural Areas" propelled by the Ministry of Education, President Lin has tried to help enhance in the recent years the conservation of cultural heritage, community industry and after-school childcare in addition to promoting the information technology education in each community. His dedication and endeavors have been widely supported by the community people and recognized by the Ministry of Education. Thanks to his efforts, the Shan-feng community in Gukeng Township, Yunlin County has even been one of the model communities which Mr. Cheng-sheng Tu, the then Minister of Education, ever paid a visit to. President Tsong-ming Lin was awarded "2007 Outstanding Contribution to Information Technology Education and Taiwan Academic Network" by the Ministry of Education for what he had strived for the information technology education in the communities, and he, as a president who has been devoted for years to the digital education in remote areas, definitely deserves such a great honor. Positively recognized by the award, President Lin has also encouraged and expected that more and more universities can take part and provide their educational resources to help shorten the "digital divide" in remote communities.

Positive Research Results of Both Professors and Students

In the recent years, National Yunlin University of Science and Technology has successfully propelled creative education, established creative programs and encouraged professors as well as students to take part in creative research. Among various outstanding performances, Dr. Jung-chuan Chou, associate professor and secretary general of the university, gained "The First National Innovative Technology Award" and "The Third Taiwan's Inventors of the Year - Prominent Inventor of Electronics Section". From Taiwan Prominent Inventor Association, he received a certificate, a plate and a medal on February 27th, 2008. Also, Professor Chou was honorably praised and awarded a certificate and a medal by Lions Clubs International MD 300 Taiwan and Taipei Government.

Secretary General Chou currently has 84 inventions that have been approved and announced by China and U.S.A. patents. As one of the biomedical sensors,



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the Ion-Sensitive Field Effect Transistor (ISFET) has become the focus of all of his researches. Secretary General Chou and his group have gained outstanding achievements on the tests of drugs (penicillin and berberine), body metabolism (urea, uric acid and lactate), ions important for body (sodium, chlorine, calcium, potassium and magnesium) and enzyme (vitamin C, glucose and papaya enzymes). The above-related patents are characterized by creativity, technicality, practicability and industrial applicability, and assume an important role of propelling the proactive development of biomedical technology.

Students' performances are also prominently recognized. The IDS group from the Department of Information Management of the university participated in "The Third National Software Design Competition of Technological and Vocational Universities" hosted by the Ministry of Education, and stood out above the forty contestants, winning the championship and the best exhibition award by its "I-Taiwan (Itinerary-Taiwan)". In addition to gaining the coupons of NT\$ 150,000, the group acquired the qualification for the 2008 IEEE Computer Society International Design Competition and will possibly represent Taiwan to attend the international competition in Washington D.C. of the United States.

Directed by Professor Chung-chian Hsu, the IDS group consists of Meng-zhi Jiang, Zheng-da Zhuo, Ying-jun Lai and Li-ci Shi, undergraduates from the Department of Information Management. With travel information

as the background, the group chose Web 2.0 as the structure and developed the system by combining the concepts of Wikipedia and Google Maps. The system is equipped with interactive maps, with which users are allowed to check tourist spots and take note. They can also upload pictures by mobile phones and instantly share them with faraway friends. The system at the same time provides perfect security mechanism that controls the quality of website contents to avoid malicious damages and inappropriate information.



Professor Jung-chuan Chou (left 5) and his graduate as well as project students

Yuntech Performed the Best in Taipei International Invention Show

Participating in the "2007 Taipei International Invention Show and Technomart" held from September 27th to September 30th, 2007 in Taipei World Trade Center, National Yunlin University of Science and Technology prepared 16 works for the exhibition, and for the first time signed up for the contests before gaining various awards. Among the 652 works from all over Taiwan, the 9 works submitted by the university to the contests received a favorable recognition from both national and international evaluators and won two gold medals, one silver medal and two bronze medals. With such an outstanding performance, the university became the best winner of this international invention show.

Invented by the research group that was directed by Professor Jung-chuan Chou, the awarded works were "Titanium Oxide Thin Film for Extended Gate Field Effect Transistor Using Reactive Sputtering (gold medal)", "Ion Sensing Devices, Reference Electrodes and Fabrication Methods Thereof (gold medal)", "Chloric Ion Sensors and Fabrication Method Thereof, and Sensing Systems Comprising The Same (silver medal)", "Sensor for Vitamin C Measurement and Measuring Systems Comprising The Same (bronze medal)", "Method of Manufacturing TiO2 Sensing Film, ISFET Having TiO2 Sensing Film, and Methods and Apparatus for Measuring The Temperature Parameter, Drift, and Hysteresis (bronze medal)".

All the works for the contests were created and invented by Professor Jung-chuan Chou and his

graduate as well as project students. Thanks to Professor Chou's instructions of leading students to creatively think, join group cooperation and participate actively in the invention, more than 90% of his master' s and doctoral students have already been granted invention patents. Besides, Professor Chou has been dedicated himself to both teaching and research, and guided students to find out their research directions and problem solutions. Many of his students are well equipped with various skills and acquire a specialty after graduating. The works submitted for the contests have already passed or been announced or submitted for the invention patents of Taiwan, R.O.C. and United States. With his insistence on teaching combing with practical projects, academic research and creative invention concepts, Professor Chou has been devoted to developing each kind of biomedical sensors, thus greeting the tendency of advanced technology and leading the trend of innovative invention. Based upon the human-based principle, Professor Chou has broken through the insufficient traditional technology and eagerly paid attention to the innovation of products. From this contest and exhibition, the students who participated could broaden their horizon, encourage their own potentials and creative thinking, learn to express and interact, and absorb the development results acquired from industry-government-academia circles. They also could learn to cooperate with the industrial circles to propagate the products invented by the university, expecting that these products can be of benefit to human beings and that technology can offer people better living quality and convenience.

International Exchanges



Alliance with Kobe Design University

Kobe Design University Signed an Academic Cooperation Agreement

In cooperation with the project on "International Student Recruitment" conducted by the Ministry of Education, National Yunlin University of Science and Technology signed the agreements of academic cooperation and student exchanges with Kobe Design University on October 15th, 2007 to actually extend the university's international academic cooperation and exchange relationship. With the signed agreements, the sister university

relationship between both parties was then initiated.

As a university focusing on design and arts, Kobe Design University offers not only the knowledge of professional design, but also the education of science and technology that is related to the basic design theory and research. Beginning from 1989, Kobe Design University has been successfully developing, and gained a very high appraisal among various universities in the kansai region of , Japan. It has been a university that is widely recognized and has outstanding performances in both national and international design competitions.

Accompanied by six colleagues, Dr. DOHI Hiroshi, president of Kobe Design University paid a visit to National Yunlin University of Science and Technology on October 15th, 2007 and formally singed a cooperation agreement. During their stay on campus, they also held a design exhibition of "CHAOS" at the Art Center of the university.

Many professors of the College of Design of National Yunlin University of Science and Technology learned from Japan, and have maintained a good relationship with Kobe Design University. Proposed by Kobe Design University, Maki Nagano has studied at the Graduate School of Design as an exchanged student for the academic year 2007. In respect of teacher exchanges, Professor Chi-hsiung Tsong from the Department of Visual Communication Design headed to Japan and conducted researches for half a year.



Visitors from Kobe Design University and professors from the College of Design of National Yunlin University of Science and Technology

Alliance with Future University-Hakodate and Visiting Activities in Japan

A visiting group of National Yunlin University of Science and Technology held an international exchange activity in Japan from November 4th to November 11th, 2007. With President Tsong-ming Lin as the chief and the director of Department and Graduate School of Industrial Design, Ching Yang as the group leader, the visiting group consisted of Professor Teng-wen Chang from Department of Digital Media Design & Graduate School of Computational Design, Professor Wuefay Chang and Professor Peng-jen Chen from Department & Graduate School of Industrial Design, Professor Chih-kao Nieh from Department of Architecture and Interior Design, Associate Professor Fang-suey Lin from Department and Graduate School of Visual Communication Design and other 23 professors and students from Mingchi University of Technology and Chaoyang University of Technology. In addition to paying a visit mainly to Future University-Hakodate and University of Tsukuba in Japan, the group also visited other five universities, including Tama Art University and Musashino Art University in Tokyo as well as Sapporo City University in Hokkaido.

One of the most important tasks for the group was to

establish a sister university relationship with Future University-Hakodate on November 8th, 2007. An agreement signing ceremony was held and presided by Dr. Hideyuki Nakashima, president of Future University-Hakodat in the afternoon of the same day. With a solemnly and honorably formal ceremony, both parties singed the agreement before exchanging gifts and taking photos. This signed contract then represents the initiation of the future exchanges and cooperation of the teachers and students from both parties.

Established in 2000, Future University-Hakodate focuses on nurturing high-tech professionals and creating a harmonious society by combining humanities and sciences in education. Not only is the university one of the important universities for the development of Japanese knowledge, culture and internationalization, the university has also made a great contribution to the prosperity of the industries of local technology and culture. For Future University-Hakodate, National Yunlin University of Science and Technology serves as its first allied university in Asia. Both of them will then establish a closely interactive relationship of international exchanges by starting academic activities such as exchanges of visiting professors and students, academic conferences and transnational as well as trans-disciplinary joint research projects.



Alliance with Future University-Hakodate (President Hideyuki Nakashima-right)



Pledge exchange



Participants of "IAUP North East Asia Council Meeting"

Participation in "IAUP North East Asia Council Meeting" and Visit to Kobe Design University

President Tsong-ming Lin was invited to participate in the "IAUP North East Asia Council Meeting" held on March 8th, 2008. The main topic focused at the meeting was on "University Evaluation and Accreditation in Asiacase studies by countries and regions".

IAUP Schedule and Important Resolutions

Dr. Tanioka Ichiro, president of Osaka University of Commerce, Japan, presided the opening ceremony of "IAUP North East Asia Council Meeting" with the presence of 25 representatives from all over the world, among which President Tsong-ming Lin of National Yunlin University of Science and Technology, Vice President Chen of National Taiwan University, President Huang of National University of Kaohsiung and Yung-chi Hou, associate investigator of Higher Education Evaluation & Accreditation Council served as the representatives of Taiwan. At the meeting, the issues on the improvement strategies and future development of the higher education in North East Asia were mainly discussed. The important resolutions are as follows:

1. A conference will be held and hosted in the fall of 2009 by National University of Kaohsiung with National Taiwan University, National Yunlin University of Science and Technology and Higher Education Evaluation & Accreditation Council of Taiwan as the co-organizers.

2. The conference 2010 will be held in Zhejiang Gongshang University in accordance with the World's Fair that will take place in the same year in Shanghai.

Visit to Kobe Design University

President Tsong-ming Lin arrived in Kobe Design University on March 6th, 2008 and visited its Department of Product Design. The Department displayed its works and achievements over the years, which included furniture, household appliances, articles for daily use, sports equipment, car design models and so forth. President Lin also visited its metal factory and carpentry workshop, whose clean factory buildings and facilities equipped inside are considerably astonishing. According to the director Syosaku Ota, the definitely primary condition for the factory security is to sweep away miscellaneous objects and keep the factory neatly clean. Besides, the office of technicians is right located in the factory and established with large-area glass window, so that students' operations of machines can be monitored any time to avoid the occurrence of possible damages. It is definitely worth for us learning from such an environmental cleanness measure and supervisory control system.

The Department of Media Arts of Kobe Design University offers specialized learning space which mainly includes film studio, performance theatre and professional recording studio. The complete equipment, acoustic insulation installations and the way of usage and maintenance are all a good example for the College of Design of the university to learn in the future. For the next, a visit was paid to the students' workshop where the students of the Department of Media Arts were doing the assignment of caricature drawing. All the visitants then witnessed the talents of Japanese students and special tables as well as lighting for caricature making. All the above can serve as a reference for the Department of Digital Media Design and others of the university in respect of the future course arrangement and application.



Professor Chih-kao Nieh Won "TID Award 2007"

Hosted by Chinese Society of Interior Designers (CSID) and co-organized by Taiwan Design Center and Interior Magazine, the "Taiwan Interior Design Award 2007" took place in September, 2007. It then became the first interior design competition in the three regions cross the Taiwan Strait and has been known as the Oscar in the circle of Taiwan's interior design. The competition was categorized into four major parts, which were public space, working space, commercial space and residential space. There were 109 works in total that were designed by the designers from China, Hong Kong and Taiwan, and considered qualified for the competition.

Designed by Professor Chih-kao Nieh of the Department of Architecture and Interior Design of National Yunlin University of Science and Technology, "Mr Su's Residence", a rectangular and antique space and characterized by "New Wine in Old Bottles", won the "TID Award 2007" by deeply attracting some of the committee members.

During the design processes, Professor Chih-kao Nieh intended to gain a balance between modernity and tradition. Without focusing on excessive skills and resplendent techniques, he wished to adequately show the purity and pithiness of the material nature. As a result, Professor Nieh applied concrete, solid wood and other natural materials to the main body of the work and tried to reflect the essence of space and material nature. In addition, the construction of light wells (atriums) within the space can disconnect the noises from streets and elaborate the good idea of "enjoying tranquility from noise". From the entrance hall to the end of the house through a long covered corridor, the light wells interweave the whole construction where the space becomes sometimes tightened and sometimes open wide. People in here would experience what is exactly referred by that "at the beginning the path is so narrow as to pass just a person. When he goes further several ten steps, it becomes widely open and bright". The passageways that connect each space are

organized as galleries where works and collection of art are displayed. Through the combination of artistic works and the construction, the quality of space is thus promoted and enhanced.

Moreover, by following the belief of "light hall and dark room" for the Chinese traditional architecture, the living room, kitchen and other public space where more activities take place are constructed on the second floor that is well-lit by sunlight coming from outside while the private space (bedrooms) is located on the first floor in order to make the living stay harmony with the atmosphere of physical environment. By adjusting the public and private space, it is expected that the open and big space can enhance the interaction and exchanges among the family members, and that the covered and dark space can offer a place for the spiritual needs of each independent individual.

The design becomes a space where nature and human beings co-exist, following the geographical conditions of foundations and the purposes of green building energy saving. It received the favor of the committee members mostly because of its characteristics of reflecting an environmental care and an energy-saving attitude.

Work 1 – corridor





Work 2 - Public Space



"The Secret in the Satchel"- photo 1



"The Secret in the Satchel"- photo 2

Professor Tay-jou Lin and "The Secret in the Satchel"

Filmed by Professor Tay-jou Lin from Department and Graduate School of Visual Communication Design, the documentary film titled "The Secret in the Satchel" was recognized and invited to compete for the Pusan International Film Festival in October, 2007 in Korea and the International Documentary Film Amsterdam in November, 2007 in the Netherlands (the former is the biggest international film festival in Asia while the latter serves as the biggest international documentary film festival all over the world). The documentary film produced by the program "View Point" of Taiwan Public Television Service at the same time gained the special jury award in the Educational Film Festival held by the Ministry of Education in 2007.

This film that was made and produced for three years in an educational environment presents three unknown stories. Professor Lin indicated that during his ten years of teaching, he selected three from more than one thousand stories of his students, and invited the

three students to take part in the film making, recording as well as film editing. Unlike the traditional way of film presentation, this documentary film interwove MV, dramatization, comics, songs and dances, thus showing the growing processes of students that are both vigorous and painful.

This is a documentary that applied a new filming method by diverse experiments. It is praiseworthy that the documentary stood out above thousands of international professional films and was selected to compete for the first-class international film festival in Asia. This proves that the university does have the world-class and professional film making techniques and the story-telling ability. Because of his film creation in the last years, Professor Tay-jou Lin has been selected several times for international film festivals. As the only one all over Taiwan, Professor Lin was awarded "The Glory of the Technological and Vocational Colleges and Universities" by the Technological and Vocational Education, Ministry of Education in October, 2007 for his outstanding performances in international competitions.

Publisher: Tsong-Ming Lin

Publication Office: National Yunlin University of Science and Technology
Chief of Newslotter of NYUST Editing Committee: Neng Shu Yang

Chief of Newsletter of NYUST Editing Committee: Neng-Shu Yang

Chief Editor: Szu-Tsung Chen Executive Editor: Yi-Chen Kao Translator: Yi-Ching Chou Cover Design: Sheng-Hsiung Hsu

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