

# Newsletter of YunTech

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## Outstanding Performance

### The Result of the Election for the President of YunTech has been Released! Dr. Yang will be Taking the Office as the Next President!

The result of the election for the next president of YunTech was released on October 10th, 2016. Vice President Yang Neng-shu will be taking office as the next president. YunTech will send the election report to the Ministry of Education (MOE) for appointment.

Vice President Yang received his Ph.D. degree from the Department of Industrial Engineering at Pennsylvania State University, U.S.A. He has been on some very important positions at YunTech. For example, Dean of the Office of Academic Affairs, Dean of the Office of Student Affairs, and Chair of the Department of Industrial Engineering and Management. Also, he was the project manager responsible for successfully holding

the National Universiade Sport Games and the project manager of the MOE Teaching Excellence Project; both projects demonstrate that he is both experienced in teaching and administration.



Dr. Yang Neng-shu will be taking the office of the next president of YunTech.

According to Dr. Yang, YunTech has experienced a lot of goods and bads in these 25 years. However,

the time-limited problems of the low birth rate and the competition among higher education from all over world have become two main challenges for YunTech. Furthermore, international rankings, the trend of regional integration of the north, the central and the south of Taiwan, the coming of the intelligent age and the 4-year big project of the MOE are others that YunTech has to overcome. By overcoming all the challenges, YunTech can become the flagship university which focuses on practical technology education.

In the next 4 years of Dr. Yang's presidency, the main goal for YunTech is to build its name and honor in society by focusing on international ranking, acquiring projects from both the government and the industrial field, and enhancing the research and teaching qualities of faculty members. The main strategies are as follows: building the system for teacher development, building the system for student learning, building the administration system for supporting both teachers and students and making good use of the e-learning environment.

Moreover, teaching according to teachers' specialties and consultation will be encouraged, an environment of self-learning will be built, paradigm teachers in different areas will be grouped, links with the industrial field will be focused on. Through these efforts, YunTech will hopefully step further into the limelight, achieve zero-distance in communication, make big strides in international cooperation, and shine as a brand in central Taiwan, from where it will stand and shine in front of the rest of the world.

Dr. Yang finally stated that practicality in technology and intelligent inventions will be the future visions of YunTech. He did not only focus on changing things, but also stated that the great traditions and the paradigm in the past were two things YunTech has to carry into the next stage of the future.

### **The EMBA Program for Social Elites of Higher Positions in Different Fields Starts its School Days!**

The EMBA program, which is especially open for social elites of higher positions in different fields, started its first school day on September 17th, 2016. The program

did not only attract leaders of different companies but also other social elites from various fields. Students include the present legislator, Su Chih-feng, who was the former magistrate of Yunlin County; Lin Wan-zong, managing director of United General Association of the Douliu Industrial Park; Lee Mei-Hui, managing director of the United General Association of the Yunlin Technology-based Industrial Park; and other chairmen and supervisors of diverse companies. Moreover, people from the medical field also take the program. They include two doctors of western medicine and Chinese medicine, a veterinarian, and a pharmacist, too. There are also students from the fields of construction, banking, the food industry, environment-related industries and other industries. Hsieh Di-wan, the Board Chairman of Da Di Construction Company who has already acquired his M.A. degree in the Department of Civil Engineering of National Chiao Tung University, Taiwan, is also one of the students.

The ceremony of the first school day was hosted by President Hou Chun-kan, who encouraged the students to make good use of the resources provided by YunTech, to study hard and to face competitions in the future. After they finish the program, they can help the industrial field to grow and improve continually. When the speech was finished, the students followed the ancient tradition of serving tea three times to their teachers as a way of showing their respect. Furthermore, both teachers and students poured wine into a wine urn and sealed it with a strip signed by teachers and students together. After sealing the wine urn, the students promised to study hard together and try their best to graduate in two years. When the day of graduation ceremony arrives, they can open the wine urn and share the wine with each other.



The photo of the first year of the EMBA Program for Social Elites, YunTech.

Cheng Chen-shui, Dean of the College of Management,



stated that the program is especially designed for leaders in higher positions in different fields. Courses offered mainly focus on practical case discussions. Students have to go to school on Saturdays only, but they still have summer classes, which makes the program quite different from other programs. Besides campus courses, abroad visits will be on their course syllabus. Students basically can acquire their degrees in two years. If someone who is interested in this program can prepare in advance for next year's application, it is believed this program will become a pretty attractive program for students who want to take the EMBA programs in the future.

## Awards and Commendation

### **Legend of a Disabled Man: Student Fan Hung-hau is Granted the 2016 President Educational Award!**

Fan Hung-hau, the graduate student of the Department of Creative Design has been disabled in his right hand since he was a child, having only one arm there. However, he is not defeated by his disability and continues striving forward. This year he was the winner of the 2016 President Educational Award. The purpose of the President Educational Award is to honor flagship students who live in difficulties but still strive in breaking through their limitations. By awarding students like him, it is believed that the awarded students can be models for all students in Taiwan.

An important experience affected Fan, changing him into a different person. When Fan Hung-hau was nearly 5 or 6 years old, he visited a doctor because he had a cold. While he was in the clinic, he said to his mom that he was ashamed of himself being disabled. His mom tried to ask for help from the doctor. At the same time, the TV was playing a criminal wearing a helmet under the arrest of police officers. The doctor then said, "Compared with the ones who committed crimes, you shall not be ashamed of yourself. They are the ones who shall be ashamed of themselves instead." After listening to these words, Fan finally understood everything and started to look on the bright side of everything.

When he was an elementary school student, Fan was a member of the track and field team. At the time, he was affected by the famous Japanese comic book "Slam Dunk" and started to play basketball. His school started to plan and organize a basketball team. Fan recommended himself to be a team member of the school's team later but was refused by the team leader. He said, "I was very upset at that time and he also didn't tell me why he refused me. I know that it was probably due to my disability."

When he was a junior high school student, he finally became a member of the basketball team. However, he still cared about what others thought about him. Although he had chances to play games, his performances were bad because of his nervousness. Therefore, he was a benchwarmer for most of his junior high school time. When he entered senior high school, he started to change his thoughts. He made his decision not to care about what others thought about him and accepted his imperfect body. He then became the leader of the school team and led the team to win several important games.



Fan Hung-hau, graduate student of the Department of Creative Design and winner of the 2016 President Educational Award, participating in a basketball game.

For Fan who plays with one hand, the biggest difficulty is that he cannot take offensive moves from the right side, do crossovers or change to offensive directions. Therefore, he tries to make up for these flaws by putting

more speed. He used what he had learned in the track and field team. Explosiveness was the method. With his quick movements, he won the name “Single-handed Sharp Shooter” in the end.

He applied for the “Rise” activity held by the famous sports brand NIKE Inc., because he wanted to create and leave some wonderful memories of himself in college. It was so lucky that he was chosen as one among thousands of applicants and became an inspirational role model in their commercial advertisement. When he showed up for the press in Shanghai, he met superstar Kobe Bryant and was advised by him in person. Fan asked Bryant, “For someone who is imperfect like me, how can I conquer my disability with specific skills?” Bryant did not answer him with anything related to skills, but only told Fan that “You should not think that you have any difference with others. People don’t assume there is any difference at all.” These words made Fan reflect about his entire past. He now thinks, “There is nothing you cannot do, but only something you want to do or not.”



Picture of Fan and NBA super star Kobe Bryant.

Currently studying at YunTech, Fan’s design field is in creativity. He always designs something based on his own need. For example, the two inventions which are an equipment for unscrewing a bottle cap with one hand and an alert equipment when opening car

doors won a silver award at the 2015 International Warsaw Invention Show, a silver award at the 2015 International Exhibition of Inventions of Ukraine and a gold award in the category of iVAN at the 2015 Taiwan International Invention and Design Fair. The outstanding performances have made him one of the honors of YunTech. Although he is working hard on his studies, he does not stop chasing his basketball dream and tries to make a balance between studies and basketball. He thinks of basketball as his power to work hard on studies. He said, “Basketball is my love. For love, I will insist on it.”

“There have been so many difficulties and obstacles in my life, but I have never given up all the way. I only want to live up to myself,” Fan stated. The award, the President Educational Award, was definitely the greatest gift for him to receive before graduating. He should be proud of being himself and living up to his goals.

### **YunTech Makes Accomplishments at the 28th Malaysia International Invention Innovation & Technology Exhibition (ITEX)!**

The 28th Malaysia International Invention Innovation & Technology Exhibition (ITEX) took place from May 12th to 14th in the year of 2016 at the Kuala Lumpur Convention Centre, Malaysia. The 2 entries from YunTech won 2 silver awards, showing the R&D power of YunTech.

The first silver-awarded invention, “An Image-based Seismic Damage Assessment System,” was invented by students Wu Chon-chi, Chang Han-wen, Hsieh Hen-chi, Li Kuan-yi, Chen Ro-wan and Li Wei-chi under the instruction of Associate Professor Chu Tsung-hsien from the Department of Computer Science and Information Engineering. The invention adopts image processing techniques to detect indoor situations after earthquakes. The detection rate of 97.6% accuracy is consistent with the Mercalli Intensity Scale. The second silver-awarded invention, “Efficiency Improvement of Silicon Solar Cells Integrated with Silicon-Germanium Structure,” was invented by students Chang Bai-

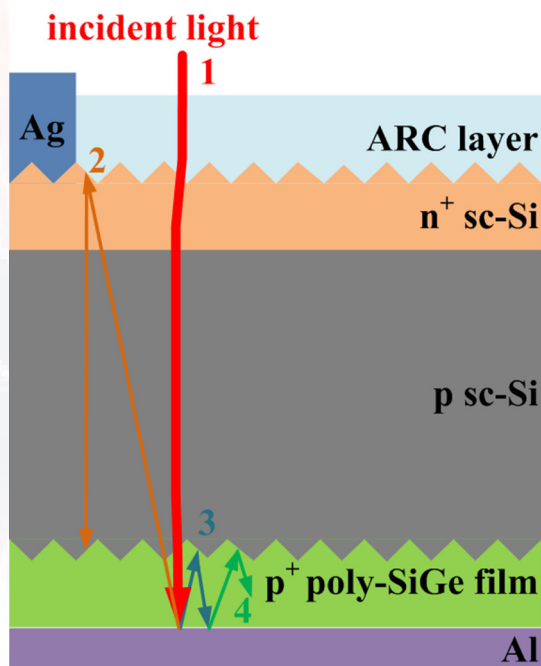


rung and Huang Chen-chin under the instruction of Associate Professor Lin Jian-yang from the Department of Electronic Engineering. The invention helps monocrystalline silicon and polycrystalline silicon solar cells achieve a further 10-15% efficiency when applied to them.



An Image-based Seismic Damage Assessment System.

The research power of YunTech has showed itself in several important competitions and events. In recent years, YunTech has worked hard in cooperating with the industrial sector and in cultivating students with practical experiences in order to create new products needed for the industrial field.



Efficiency Improvement of Silicon Solar Cells Integrated with Silicon-Germanium Structure.

## YunTech Snared a Gold and a Silver Medal at the 31st Invention & New Product Exhibition (INPEX)!

The 31st Invention & New Product Exhibition (INPEX) was held from June 7th to 9th, 2016. The Invention & New Product Exhibition (INPEX), International Trade

Fair Ideas Inventions of New Products (iENA) and Exhibition of Inventions in Geneva are the 3 greatest invention exhibitions in the world. INPEX is also considered the Oscars for inventors. YunTech snared 1 gold and 1 silver medal at INPEX in 2016.

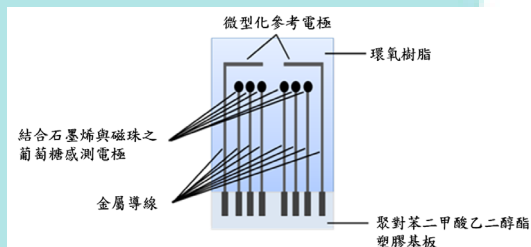
The gold-medaled invention, “3-in-1 Personal Belongings Featuring Live Face Recognition Authentication,” was invented by students Chen Guan-chen, Liu Wen-je and Chiu Hsuan-Yi under the instruction of Associate Professor Ho Chian-chen from the Department of Electronic Engineering. The invention functions simultaneously as a wallet, a key, and a mobile phone app. People can use the applications “mobile payment” and “mobile key” in the smartphone. Moreover, the feature of live face recognition authentication provides higher information security and lowers cost in identity authentication.



3-in-1 Personal Belongings Featuring Live Face Recognition Authentication.

The silver-medaled invention, “Arrayed Glucose-Sensing Device and Method of Forming the Same,” was invented by a team that included Assistant Professor Liao Yi-hung from TransWorld University, Associate Professor Chou Hsueh-tao from the Department of Electronic Engineering at YunTech, and students Chen Chien-hsun and Huang Min-shian advised by Professor Chou Jung-chuan from the Department of Electronic Engineering. The invention was created to improve the disadvantages of nowadays glucose-sensing devices used in hospitals. There are nearly 1 million Taiwanese people suffering from diabetes, which accounts for 4-5 % of the population. Diabetes is a lifelong disease; therefore, controlling patients’ blood sugar is one of the most important aspects of treatment and the amount of glucose is a vital indicator for how much medicine the patient should take. However, the glucose-sensing devices used in hospitals hold the disadvantages

of long-time test and a large amount of blood being required on blood tests. Also, the devices can be only used by medical technologists rather than normal people. These disadvantages lower the possibility that patients will self-monitor their own glucose. Due to these inconveniences, the team created this new invention. The arrayed glucose-sensing device uses graphene and ferrite beads with a working electrode and an enzyme electrode, which increases the sensing area of the working electrode and the flow of electrons on the activation area, thus improving the accuracy of arrayed glucose-sensing devices. Furthermore, the invention combines glucose-sensing devices with microfluidic devices, which feature the advantages of low samples, low reagent consumption, portability, miniature size, low energy consumption and fast process.



Arrayed Glucose-Sensing Device and Method of Forming the Same.

YunTech's inventions in recent years have possessed practicality and future potential, and this was highlighted by the judges at INPEX. The two inventions have both been patented and are on the way to be merchandized for the market.



## Academic Exchanges

### The Presidents of 5 Flagship Taiwan Universities Form an Alliance to Recruit Potential Malaysian Students!

Five flagship universities in Taiwan formed an alliance to hold 3 introductory seminars for studying in Taiwan in order to recruit Malaysian students. The seminars were held November 4-6, 2016. The universities are National Taiwan University (NTU), National Yunlin University of Science (YunTech), National Taiwan Normal University (NTNU), National Taiwan University of Science and Technology (Taiwan Tech), and National Formosa University (NFU). It is hoped the excellent teaching environment and equipment can attract great students of independent high schools in Malaysia to study in Taiwan.

The independent high schools are self-organized and funded by local Chinese in Malaysia, instead of being organized by the Malaysian government. The main purpose of independent high schools of Malaysia is to teach Chinese students Chinese culture and the language itself and carry on the great Chinese traditions. Therefore, students graduating from independent high schools have no difficulties in studying with local Taiwanese students.

Led by President Yang Pen-chyr of NTU, the other presidents of the other 4 universities also joined the introductory seminars. They were President Hou Chun-kan of YunTech, President Chang Kuo-em of NTNU, President Liao Ching-jong of Taiwan Tech and President Jywe Wen-yuh of NFU.

The first introduction seminar was held at Tsun Jin High School, Kuala Lumpur on November 5th. The others schools which joined the seminar were Confucian Private Secondary School and Kuen Cheng High School in Kuala Lumpur. The second introductory seminar was held in the afternoon on the same day at Hin Hua High School, Klang. The other schools which joined the seminar were Chong Kwa Independent High School, Pin Hwa High School, Kwang Hua Private High School, Chong Hwa Independent High School, Kuala Lumpur, Seremban Chong Hwa Independent High School, and Chung Hua Middle School in Klang. The third seminar about the vocational education system in Taiwan was held on November 6th at Chong Hwa Independent High School, Kuala Lumpur. President Liao of Taiwan Tech, President Hou of YunTech and President Jywe of NFU all did presentations to explain the current development in technology and academic research in Taiwan to the participants. Locally famous companies were also invited to join the third seminar.



Photo of all members who went to Malaysia to recruit students.



Besides joining the Malaysian educational fair every year to raise its prestige among Malaysian students, YunTech also visited the local high schools and partner universities to expand its cooperation with them. Moreover, YunTech formed an alliance with the United Chinese School Committee's Association of Malaysia (Dong Zong), the organization in charge of every affair relating to independent high schools. The projects which the two organizations are working on now are to cultivate future teachers for independent high schools and foster the professional development of current art teachers. Dong Zong already recommended several students to study at YunTech in early 2016. It is hoped the project of cultivating teachers of independent high schools can help teachers to become model teachers in Malaysia. Furthermore, teachers from the College of Design of YunTech have been sent to help in the professional development of art teachers and improvement of their teaching materials.

## **The 2nd Overseas Master of Business Administration in Marketing Program in Vietnam Starts its First Semester!**

In accordance with Taiwan government's Southward Policy, YunTech has been working with a Vietnamese university since 2015 in order to hold the overseas master program<sup>5</sup>. The 2nd Overseas Master of Business Administration in Marketing Program in Vietnam held the ceremony of the first school day in a simple but organized way at Vietnam University of Commerce (VUC) on August 21st, 2016.



Deputy Dean of the Office of International Affairs, VUC; Dean of the Office of International Affairs, VUC; Dean Chen Chen-hsui of the College of Management, YunTech; and Chair Pan Wei-hwa of the Department of Business Administration, YunTech.

Since the start of the overseas master program, the program has attracted the participation of elites such

as government officials and managers from banks or other important companies in the country in Vietnam. The ceremony was held by Dean Chen Cheng-hsui of the College of Management, YunTech. Vice President Nguyen, Dean Nguyen of the Office of International Affairs of VUC and Chair Pan Wei-hwa of the Department of Business Administration of YunTech also joined the ceremony.

Dean Chen expressed his appreciation especially to VUC for its assistance while he was delivering a speech. He also encouraged the students to learn hard through the excellent teaching of YunTech's College of Management, which is accredited by AACSB, and to come to YunTech to join the graduation ceremony at our beautiful campus once they have finished all their courses. Chair Pan expressed his welcoming words to the students and also did a presentation to introduce the courses and beautiful campus to the new students. He also stated he hoped all the students could find their own potential and become successful after finishing the program.

The students of the 2nd year of the program are not only elites or managers from different companies or officials from the Vietnamese government, but also come from all walks of life and also have as great experiences as students from the first year of the program. Due to the experiences and introduction of the first group of the program, the student number of this year is higher than the first group. It seems that the program has already become an important platform for in-service training for Vietnamese people. It is hoped the cooperation between YunTech and VUC will become more intimate, thus providing a better platform for in-service trainings.



The first group and the second group of students of the overseas Master of Business Administration in Marketing Program.



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**Chief of Newsletter of NYUST Editing Committee:** Kwo-Ting Fang

**Chief Editor:** Shinn-Hwa Chen

**Executive Editor:** Yi-Jun Lin

**Translator:** Huei-Ching Kang

**Cover Design:** Sheng-Hsiung Hsu

**Tel:** +886-5-534-2601

**Fax:** +886-5-532-1719

**Address:** 123 University Road, Section 3, Douliou, Yunlin, Taiwan 64002, R.O.C.

**http://**[www.yuntech.edu.tw](http://www.yuntech.edu.tw)

**E-mail:** [aax@yuntech.edu.tw](mailto:aax@yuntech.edu.tw)