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The Twin Oaks estate in Washington, D.C. used to be the residence of the ambassadors of the Republic of China and now functions as a venue for official receptions. Hand planes were a major tool used in constructing the main building, a Colonial Revival wooden structure listed in the U.S. National Register of Historic Places. Prof. Chen Tien-Li, exhibition curator and head of the W School, indicated that the exhibition will feature a hand plane crafted by the master craftsman Zhan Yinong, demonstrating local artistry. It will also feature a scaled-down model of the Shenggen (literally “rooted”) desk used by President Tsai Ing-wen of Taiwan in her executive office. Other exhibit items will include six pieces of art created using wood shavings, as well as interactive augmented-reality exhibit pieces. The exhibition is also going to feature products from six major Taiwanese woodworking studios including UCM Taiwan, Li Design, Carpenter Workshop, Mufun Design, Woody Icon, and Chord & Major.

According to President Wang, when Taipei Tech was founded in 1912, the woodworking department was one of the original departments: the institute was first in offering professional woodworking training in Taiwan. The “Fubao” exhibition will be the



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first international exhibition showcasing Taiwanese wood crafts, and the first time a woodworking exhibition has been hosted at Twin Oaks. This exhibition is the combined effort of academia, industry, and government, and it incorporates traditional artistry, arts, and technology in a package that demonstrates ways of reviving local culture. Wang further elaborated that having three generations involved in the exhibition shows the spirit of a vocational institute like Taipei Tech; this exhibition is also part of Taipei Tech's social responsibility effort.

In addition to the crafts, Wang pointed out the traditional Taiwanese dessert of spring rolls filled with peanuts and ice cream will be served at the national banquet. The shaved peanuts in the dessert will be produced using the hand plane crafted by master craftsman Zhan, showing the international guest a different way of using the hand plane.

President Wang Received Leadership Award at CAAPS Convention

The Chinese American Academic & Professional Society (CAAPS) held its forty-third annual convention in Flushing, Queens on August 11. The theme of this year is "AI Revolution—a New Era," and the convention featured panels on how AI is impacting education, environment, medical technology, and economics. President Wang Sea-fue of Taipei Tech was awarded the Distinguished Leadership Achievement Award at the convention. Dr. Hwang Yuh-Shyan, dean of College of Electrical Engineering and Computer Science at Taipei Tech, was awarded the Distinguished Technology Innovation Achievement Award. Hwang also introduced the autonomous vehicle system that Taipei Tech and MIT co-developed in his keynote speech.

CAAPS is a well-known in the Taiwanese scientific and technological community in the U.S. CAAPS promotes fellowship and cooperation in scholarly and professional activities, and it also bridges the academic cooperation between Taiwan and the U.S. Winners of awards given at CAAPS annual convention have been outstanding achievers in various fields. Previous keynote speakers at the convention include influential figures such as former President Ma Ying-jeou and U.S. Secretary of Transportation Elaine Chao.

At the convention banquet this year, world-renown forensic scientist Henry Lee gave a keynote speech titled "Criminal Investigation with Artificial Intelligence and Big Data." Lee was given the Distinguished Lifetime



Achievement Award. Wang and Hwang of Taipei Tech were also given their respective awards at the banquet. In addition, Dr. Lin Ching-Yung, adjunct professor of electrical engineering at Columbia University, also received the Distinguished Technology Innovation Achievement Award.

More than three hundred people attended the CAAPS forty-third annual convention, including Lily L. W. Hsu, director-general of Taipei Economic and Cultural Office in New York (TECO-New York), TECO-New York deputy director Zhang Junyu, TECO-New York Cultural Center director Jack Huang and deputy director Ye Diyu, CAAPS chairman Fanjiang Guang-Nan, CAAPS president Chang Shu-Ping, and community leaders and scholars. Dr. Hwang, in his keynote speech titled "An Intelligent Autonomous Electric Vehicle System of TAIPEI TECH," gave conference attendees a glimpse of what the AI-powered future may look like.



Taipei Tech's P-TECH Five-Year Program Aims to Cultivate AI Professionals

Four departments from three different Taiwanese universities started their first P-TECH five-year vocational programs on September 10. The P-TECH programs are designed to eliminate discrepancies between students' skills and knowledge and the expectations of the industry. The inaugural P-TECH programs are automation engineering at Taipei Tech, mechanical engineering at National Formosa University, and mold and die engineering and civil engineering at National Kaohsiung University of Sciences and Technology. In total, 165 students will start the P-TECH program this year, and they are expected to become the future "New Collar" workforce.

The P-TECH programs are based on Skills Mapping co-designed by universities and partnering businesses. The partnering businesses proposed their skill requirements and will also provide career opportunities for graduates who meet them. University professors work closely with business representatives in devising curriculum and workshops that the representatives will also be involved in executing. This partnership ensures that students learn skills that are in high demand.

According to Lisa Kao, general manager of IBM Taiwan, the school is no longer the main factor when businesses hire. Instead, businesses are looking for "New Collar" workers who are proficient in cutting-edge technologies. Kao is excited to provide the IBM international platform and resources in establishing the P-TECH programs in Taiwan.

There are more than thirty partnering businesses involved in Taiwan's P-TECH programs, providing students with the valuable knowledge, experience, and skills today's businesses require and cultivating a well-rounded, new generation of workforce.

In addition to teaching specialized skills, the P-TECH program also centers on STEM education. IBM Taiwan designed a three-year curriculum focused on cloud computing AI technologies that will teach students concepts and applications and lead students in hands-on practice. As part of the curriculum, IBM Taiwan will bring in managers and senior engineers from the cloud computing business unit to teach and mentor students. The curriculum will feature a cloud computing introduction, the opportunity to build a chatbot using AI technologies and IBM Cloud, a hands-on IBM Watson workshop, and the IBM TJBot project in which students build a robot. This curriculum will familiarize students in technologies such as voice recognition, AI cognition, and computer vision, making them the AI professionals suited for the future.

IBM Taiwan will send several managers as mentors and has vowed to provide international and domestic internship and career opportunities. During the course of the program, IBM Taiwan will arrange for students to visit the IBM office and will look for opportunities for students to visit P-TECH schools abroad.

The P-TECH program concept was conceived by IBM, and the first P-TECH school was established in partnership with New York State University and the New York State Education Department in 2011. There are currently more than 110 P-TECH schools around the world with more than 500 partnered businesses, teaching students in fields covering technology, medicine, manufacturing, and energy.

Youth from Thirteen Countries Gathered for YIE Taipei 2018 at Taipei Tech



The 2018 Asia Pacific Youth Forum on Innovation and Entrepreneurship (YIE Taipei), hosted by Taipei Tech Department of English, saw around one hundred local and overseas participants from thirteen Asia Pacific countries engaged in workshops and exchange of entrepreneurship ideas during a three-day event, from October 4 through 6, 2018. Taking place at the GIS Taipei Tech Convention Center and Taipei Garden Hotel, delegates from Japan, South Korea, the United States, Canada, Hong Kong, Indonesia, Vietnam, Malaysia, Philippines, Thailand, Singapore, Chile, and Taiwan also received advice from successful entrepreneurs and were introduced to Taiwan's friendly startup environment. The Forum was commissioned by the Department of Higher Education of the Ministry of Education, with the goal of providing a platform for young people and students of different backgrounds to interact and to motivate each other in starting their own business.

"Taipei Tech has been accentuating innovative entrepreneurship," Yang Chong-Kuang, vice president of Taipei Tech, mentioned in his opening remarks. "Being a vocational school with long history, Taipei Tech has established iFoundry, InnoMaking Space, and Taiwan Startup Institute in expectation of becoming a nest that assembles ideas, resources, and connections to successfully incubate startups."

The first day focused on the startup environment in Taiwan. It included the introduction to Taiwan government's incubation initiatives such as the Research Service Cooperation (RSC) Project, Taiwan Startup Institute (TSI), and the Entrepreneur Visa, all of which are designed to make it easy for startup companies to access necessary resources. The day also featured entrepreneurs from 4 Gamers, STARTBOARD, and Halal XYZ Taiwan sharing their experience on how they have grown their business

internationally while headquartered in Taiwan or in other Asia Pacific countries. Their talks pinpointed the possibilities of targeting the Asia Pacific market and the potential of having business in Taiwan.



Rayark Games

On the second day, a triangular female entrepreneurs' panel highlighted the importance of an inclusive workplace and its effect on company growth, which have recently caught attention in the Asia-Pacific region. Panelists included a career consultant, a venture capitalist, and a company founder, and the discussion centered around the different perceptions of career women from these different sectors and finished with an encouraging note that women should cling to their career goals.

During the three-day event, participants were also able to have a glance at the soft power of Taiwan. They visited Taipei 101 and local night market and were introduced to the food and architecture. As part of the event, participants also visited Rayark Games, a rising electronic game developer based in Taiwan, to showcase the vision and experiences of a successful young company in Taiwan. The participants were shown the possibilities of Taiwan, and would leave and return the experiences beneficial to their respective countries.