



Bimonthly Newsletter

2 Taipei Tech Commencement

Taipei Tech Celebrates Commencement of Class 2022

3 Global

Taipei Tech Rises to 436th in 2023 QS World University Rankings

4 Collaboration

University Launches Long-planned Tech Center

5 New Frontier Institute to Work with Industry Partners in Cutting-Edge Research and Education

6 Excellence

Vice President Thomas C.K. Yang Receives Honorary Doctorate Degree from Vilnius University

7 Dr. Sung Yu-Chi Conferred Outstanding Contribution Award of Civil Engineering Education

8 SDGs Special Report

Taipei Tech Donates 1,200 COVID Rapid Test Kits to Neighboring Communities



National Taipei University of Technology

Taipei Tech Post



Taipei Tech Celebrates Commencement of Class 2022



President Wang encourages the graduates to be sparks in the darkness and to step out of their comfort zone



Paul SL Peng, Chairperson of AU Optronics Corporation, gave the commencement speech

The commencement ceremony of Taipei Tech Class of 2022 took place on June 11, 2022. About 2,600 students graduated this year. Due to COVID, the university limited the size of the in-person ceremony and live-broadcasted the celebration so that more people could join and share the joy.

Taipei Tech President Wang Sea-fue noted in his address that the students and faculty members had together faced the many unprecedented challenges posed by COVID. He also encouraged the graduates to be sparks in the darkness and to step out of their comfort zone. "Take on responsibilities and never stop learning," said Wang, "I believe that one day you will make your alma mater proud."

Taipei Tech alumnus Paul SL Peng, who is the Chairperson of AU Optronics Corporation and has also received a Taipei Tech honorary doctorate degree, gave the commencement speech. Peng encouraged the graduates with his own experience and indicated that, in order to grow and gain experience, one needs not only to persist but also learn from past mistakes. "Great success is the sum of small efforts, and no matter what kind of career paths you choose, your persistence will ultimately define your success," said Peng. "You are at the starting line of a marathon, and you have limitless possibilities. I wish you all the best."

At the end of the ceremony, the members of the graduate student association performed the graduation song "New Chapter After the Last Chapter," composed by one of the committee members. The song took the participants down memory lane by recalling the past years on campus. It also served as an overture that symbolizes the start of a brand-new future for the graduates. A music video was also made to accompany the song that can be viewed through this link:

<https://www.youtube.com/watch?v=LnHrzOe1Vlk>



Taipei Tech Rises to 436th in 2023

QS World University Rankings

Quacquarelli Symonds (QS) announced the latest results of their university rankings—the 2023 World University Rankings—on June 9th. Taipei Tech's ranking has risen from 469th to 436th, and it has been listed among the top 500 best universities globally for three consecutive years. The university retained its ranking of ninth in Taiwan.

QS uses indicators such as academic and employer reputation, faculty-to-student ratio, research impact, and internationalization to assess university performance. This year, out of the 1,422 institutions worldwide, twenty-six Taiwanese universities made it into the final list.

Taipei Tech President Wang Sea-fue indicated that the driving force behind this improvement has been the hard work of all the faculty and staff, and the improvement was already evident in Taipei Tech's strong performance in the 2022 QS World University Rankings by Subject. In the 2022 ranking, the university made a great leap in the general category of Engineering & Technology, ranking 108th in the world. Other subjects, such as Chemical Engineering; Materials Science; Architecture & Built Environment; Electrical & Electronic Engineering; Mechanical, Aeronautical & Manufacturing Engineering; Computer Science & Information Systems; and Environmental Sciences, also climbed up in the world rankings.

In recent years, Taipei Tech has been promoting innovative research and deepening academia-industry collaborations in core strategic industries such as digital information technology and green energy. The university established the new Frontier Institute of Research for Science and Technology in May 2022, whose focus is on the integration of research and academia-industry cooperation. The Institute aims to work closely with the industry on developing state-of-the-art technology and cultivating forward-thinking talents. Joining hands with the industry sector, the Institute is planning on rolling out PhD and master's programs related to artificial intelligence (AI) and semiconductor this year, with courses officially start next Spring. "We want to showcase the Institute as the best in technological and vocational education. The Institute will also serve as a platform for us to work with industry partners to address and solve problems together with the industry," said Wang.





Vice President William Lai (third left) attends the plaque unveiling ceremony

University Launches Long-planned Tech Center

Article courtesy of *Taipei Times* (Content by Wu Po-hsuan and Jonathan Chin / *Taipei Times* Staff reporter, with staff writer)

The National Taipei University of Technology yesterday (May 12th) unveiled a research center for energy, artificial intelligence (AI) and semiconductors in collaboration with the government and private enterprises.

The center, which has been in planning for three years, is to serve as a platform for research and development, cultivation of expertise and creation of global connections, university president Wang Sea-fue said at the plaque unveiling ceremony, which was attended by Vice President William Lai.

State-of-the-art research and development capabilities would be furnished by the university's private-sector partners, with the aim of enabling a seamless integration of education and practical application, Wang said.

The center's operations are to be entirely funded via its partnership with the public and private sectors, including Elan Microelectronics Corp, which pledged NT\$46 million (US\$1.54 million) spread over a two-year period, he said.

Funding is also to come from Academia Sinica and the industry-university cooperative research project of the Ministry of Science and Technology, he said.

Elan is to cooperate with Academia Sinica and the center in researching adaptive cruise control and lane-keeping technologies, which are necessary in self-driving vehicle design, Elan chairman Yeh I-hau said.

The establishment of the center is a part of President Tsai Ing-wen's "five plus two" industries plan, Lai said in reference to an initiative to develop biotech, green energy, advanced manufacturing, robotics, defense and aviation, in addition to agriculture and a circular economy.

The center is bidding to collaborate with the US-based Massachusetts Institute of Technology and the University of California, Berkeley, he said, adding that these efforts would aid Taiwan's plans to become a global leader in science and technology.

Taipei Tech's new Frontier Institute of Research for Science and Technology (FIRST) has been approved by the Ministry of Education (MOE) and was established in May 2022. The Institute aims to work closely with industry on developing state-of-the-art technology and cultivating forward-thinking talent. Joining hands with the industry sector, the Institute is planning on rolling out PhD and master's programs related to artificial intelligence (AI) and semi-conductors this year, with courses officially starting next Spring.

Taipei Tech President Wang Sea-fue indicated that the Institute is a platform for research and academic exchange between the university and industry, and focuses on key areas such as AI, semi-conductors, and information security. "The Institute will integrate resources from the six colleges of Taipei Tech to address and solve problems with industry partners, and in the process, will highlight the important role of technological and vocational education in industrial development," said Wang.

The Institute's establishment is based on the MOE's National Key Fields Industry-University Cooperation and Skilled Personnel Training Act. As a ten-year project, the Institute is expected to receive 100 million NTD funding yearly from its industry partners. The university faculty will team up with representatives from the industry sector to cultivate innovative talents.

The Institute director, Su Chao-chin, noted that the Institute puts great emphasis on academia-industry collaborations. "We encourage students to conduct research-based internships, and we train them to approach problems from multiple angles to come up with practical solutions," said Su. "The Institute will also put special focus on global perspectives, aiming to educate students with strong international mobility."

New Frontier Institute to Work with Industry Partners in Cutting-Edge Research and Education



The new Frontier Institute of Research for Science and Technology aims to work closely with the industry on developing state-of-the-art technology and cultivating forward-thinking talent



Taipei Tech Vice President Thomas C.K. Yang (second right) received an honorary doctorate degree from the Vilnius University

Vice President Thomas C.K. Yang Receives Honorary Doctorate Degree from Vilnius University

Taipei Tech Vice President Thomas C.K. Yang received an honorary doctorate degree from the Vilnius University at a ceremony held in Lithuania on May 10th. The degree was presented by Vilnius University President, Rimvydas Petrauskas, to honor Yang's significant achievements in the fields of material science, chemical engineering, and nanotechnology, in addition to his dedication in promoting close partnership between the two countries through academic exchange.

Vilnius University, founded in 1579, is one of the oldest universities in Central and Eastern Europe. Physical and life sciences are currently an important field of study at the university, and its research in bacteria, viruses, molecules, and DNA structures have gained worldwide recognition. Past honorary doctoral degree recipients of Vilnius University include Emmanuel Macron, President of France; Václav Havel, former President of the Czech Republic; and Nobel Prize Laureates Gérard Mourou and Robert Huber.

Yang serves as the Director of the Taipei Tech Precision Analysis and Material Research Center. He specializes in photocatalyst application, semiconductor process and microelectronic packaging, flexible materials, nanomaterial manufacturing, and water vapor barrier film. He has long been advocating for advanced educational cooperation between Taiwan and EU member states. He collaborated with Latvia and Lithuania on the "Biomedical Material and Quantum Nanomaterials" project from 2011 to 2014. This collaboration has become the foundation for future partnership between Taipei Tech and Vilnius University.

For the past ten years, Yang has invited many faculty members from Vilnius University to lecture at Taipei Tech. He has also facilitated exchange opportunities between Vilnius University and many other Taiwanese universities and research institutions. Yang is recognized for his work and dedication in building partnerships in the international science and academic research community, and he has been awarded the Theodor Von Grothuss Medal of the Lithuanian Academy of Sciences.

Dr. Sung Yu-Chi Conferred Outstanding Contribution Award of Civil Engineering Education

The Outstanding Contribution Award was presented by President Tsai Ing-wen to honor Sung's dedication



Dr. Sung Yu-chi, Distinguished Professor of Taipei Tech's Department of Civil Engineering, has received the Outstanding Contribution Award in Civil Engineering Education from the Chinese Union of Professional Civil Engineering. The award was presented by President Tsai Ing-wen to honor Sung's dedication in conducting forward-looking research and educating future civil engineers.

Sung is a renowned expert in Taiwan in bridge engineering and earthquake engineering. The Seismic Evaluation of Reinforced Concrete Buildings (SERC) that he co-developed has been widely adopted in Taiwan's engineering industry. Sung has gotten many international patents for his research on the Precast Segmental Bridge Piers Constructed with a Modular Methodology, and he has also acquired patents in the US, Japan, and Taiwan for his work in Reinforced Concrete Frame Retrofitted with Steel Oval.

Before becoming a professor, Sung served in the Directorate General of Highways (highway management office) of the Ministry of Transportation and in China Engineering Consultants, Inc. He participated in several major infrastructures and bridge projects in Taiwan. They include Provincial Highways No. 2 and No.15, Civic Blvd Expressway in Taipei, MacArthur Bridge No. 1 in Taipei, and Gaopingxi Cable-Stayed Bridge in Kaohsiung.

In 2003, he started his teaching career at Taipei Tech, and he has taught over twenty-two different courses in both the graduate and undergraduate programs. His courses include structural design, bridge design and engineering, and earthquake engineering. As a dedicated and passionate teacher who wants to pass down all of his knowledge to students, he has been volunteering one extra hour for some of the required, foundation courses so that students can learn more. In order to familiarize his students with professional civil engineering English, he has also been teaching some of the courses in both Chinese and English. So far, he has advised eight doctoral students and seventy-two graduate students, and he has published over three hundred research papers.

With fruitful achievements in research and academic-industry collaboration, Sung has received many prestigious awards, including the Outstanding Engineering Professor Award, the Zhan Tianyou Paper Award, and the Engineering Paper Award of Chinese Institute of Engineers. He has also been the frequent winner of the outstanding awards of numerous domestic engineering institutes. In 2020, he became the first Taiwanese researcher to receive the ASCE T.Y. Lin Award, one of the most distinguished engineering awards in the US.



Taipei Tech Donates 1,200 COVID Rapid Test Kits to Neighboring Communities

Taipei Tech recently received 3,000 COVID rapid test kits and other medical supplies from its EMBA and Taoyuan alumni associations, which jointly donated NT\$700,000 in purchasing the materials. To give back to the community, Taipei Tech donated 1,200 rapid test kits to neighboring communities—Minhuei, Changlong, Zhuyuan and Meihua—to help the communities fight against COVID.

Wang Sea-fue, President of Taipei Tech, pointed out that the Ministry of Education has provided enough rapid test kits for the school to deal with the recent COVID outbreak. “We thank the two alumni associations for their generosity in donating supplies to safeguard the health of our students and faculty members,” said Wang. “To fulfill our university social responsibility and to give back to the society, we’re giving out some supplies to our neighboring communities, with a special focus on providing for the disadvantaged groups.”

Chen Wei-zhen, representative of the Minhuei community, noted that the donated rapid tests are much-needed supplies that arrived in time. “The rapid test kits will be given to disadvantaged groups in the Huai Sheng public housing,” said Chen.

Wang Zhi-gang, representative of the Changlong community, expressed his gratitude toward Taipei Tech for providing the supplies for the community at this difficult time. “The donated rapid test kits will also be given to disadvantaged groups and the elderly community members living alone in the neighborhood,” said Wang. He also thanked Taipei Tech’s active engagement in organizing local events and improving the landscaping of the community.

Wu Kun-shan, representative of the Meihua community, indicated that Taipei Tech Extension Education Center and Innovation & Incubation Center will soon be opened in the perimeter of the community. “We look forward to having more cooperation with Taipei Tech in the future,” said Wu.

Following the guidelines of the Ministry of Education, Taipei Tech provides three rapid test kits to people who are close contacts of confirmed cases. Those who practice self-initiated responsive measures are given one rapid test kit. The rapid tests kits were also provided for the staff, supervisors, and janitors of the student dormitory. Over 1,300 rapid tests kits had been distributed by the end of May throughout the campus.



Taipei Tech EMBA alumni association and Taoyuan alumni association jointly donated 3,000 COVID rapid test kits and other medical supplies to Taipei Tech



Taipei Tech donated 1,200 rapid test kits to the neighboring communities to help the neighbors to fight against COVID

