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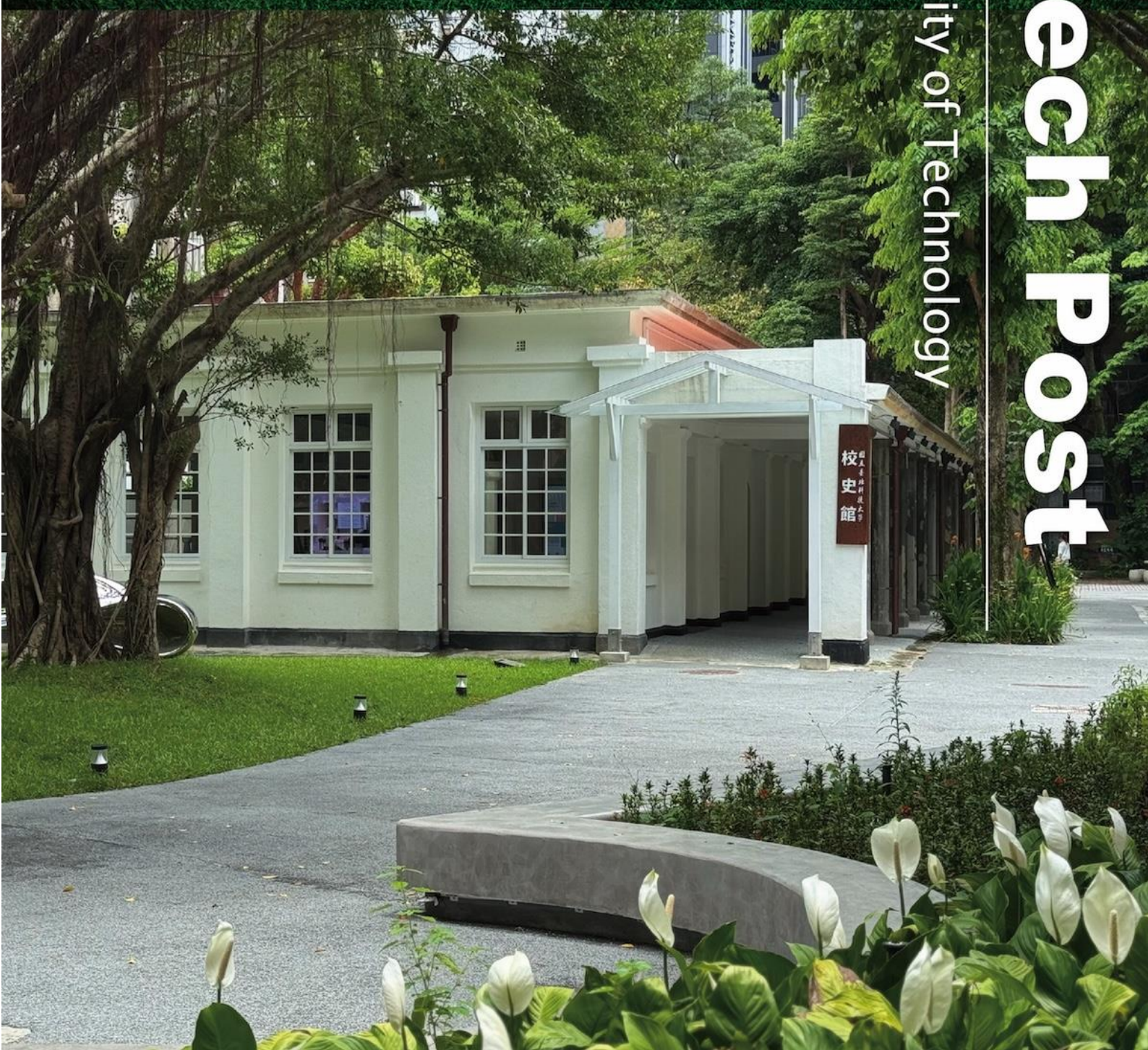
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National Taipei University of Technology

Taipei Tech Post





Taipei Tech Students Engage with Nobel Laureates and Turing Award Winner in Inspiring Science Dialogue

On May 7th, 2025, Nobel laureates David W. C. MacMillan (Chemistry), Konstantin Novoselov (Physics), Louis J. Ignarro (Medicine), and Turing Award recipient Jack Dongarra visited National Taipei University of Technology for the opening ceremony of Taiwan Nobel-Turing Week. Taipei Tech provided the campus facilities, enabling over 400 students to directly engage with these distinguished international scholars.

Taipei Tech President Wang Sea-fue expressed great honor in welcoming these esteemed guests, emphasizing the event as an excellent opportunity for students to interact and learn from global leaders in science and innovation. President Wang highlighted the university's ongoing efforts to educational excellence and international collaboration.

During an engaging panel discussion, Dr. Dongarra spoke about the transformative potential of artificial intelligence in scientific discovery, noting that AI will significantly enhance research but cannot replace human creativity and intuition. Professor MacMillan agreed, noting AI's capability in optimizing known processes, but underscored the indispensable role of human creativity in inventing new chemical reactions, which is particularly crucial for addressing sustainability challenges.

Professor Ignarro discussed his groundbreaking research on nitric oxide and emphasized the importance of a healthy lifestyle—balanced diet, regular exercise, and moderate consumption of red wine—in extending human lifespan. He encouraged Taipei Tech students to explore careers in fundamental biomedical research.

Professor Novoselov highlighted the value of interdisciplinary collaboration for scientific advancement and noted Taiwan's critical role in global technology development. He



advocated combining AI technology with human intuition to unlock new scientific possibilities.

As a gesture of appreciation, President Wang Sea-fue presented specially crafted ceramic plates to the visiting scholars, symbolizing gratitude and international friendship.

Through meaningful exchanges like this, Taipei Tech continues nurturing talents crucial for global scientific and technological progress, adhering to its core values of integrity, diligence, intellect, and fortitude, and preparing future leaders to meet the challenges of our rapidly changing world.

The Department of Industrial Design at Taipei Tech recently held its annual graduation exhibition, Products of the Deserted Island, spotlighting the innovative spirit of 61 graduating students. The theme challenged designers to imagine essential solutions for survival in isolation, sparking creations that bridge necessity, empathy, and sustainability.

This year's exhibition was not only a platform for creativity but also a proving ground for design excellence. Several projects gained recognition at the prestigious Golden Pin Concept Design Award, with Yu Sheng, DP-Pro, and WingSaver advancing to the Best Young Pin Design Award finals. MedWise, Mira, and Corn Hub were shortlisted for the Golden Pin Sponsorship Special Award, and RE: Face was selected as a finalist for the 2025 Vision Get Wild Award.

Yu Sheng addresses a niche yet pressing global issue: the short lifecycle of shuttlecocks used in sports. By repurposing these lightweight, often-discarded materials into modular outdoor seating, the project gives new life to waste, turning it into public furniture suitable for parks and courts, encouraging sustainable design thinking.



DP-Pro tackles the health risks construction workers face due to prolonged exposure to cement dust. This closed-system mixer reduces airborne particles and includes foot pedals and ergonomic handles, improving safety and user comfort on indoor job sites.



WingSaver focuses on an often-overlooked ecological concern: bird collisions with urban glass structures. This solar-powered system uses ultrasonic detection and infrared signals to gently divert birds mid-flight, promoting coexistence between nature and modern architecture.



Taipei Tech Industrial Design Students Showcase Sustainable Innovation

Other notable designs include Mira, a smart dressing assistant that supports Alzheimer's patients by guiding daily routines and reducing caregiver stress; Corn Hub, which transforms agricultural waste into biodegradable packaging; and MedWise, a thoughtfully designed cart that streamlines medical waste disposal to boost hospital safety.



These projects embody Taipei Tech's commitment to forward-looking education that blends technical skill with social and environmental awareness. The graduation show not only celebrates student achievement but also reflects how design can shape a more responsible and responsive world.

LICC 2024

Award
OFFICIAL SELECTIONPresented by LICC to
Che-Kuang ChuangTitle of Submission:
Labor-Capital Parallax / 勞資視差Category:
CREATE (Art) - Professional

Launa Bacon, d.b.a. Angeli
LICC Program Director
Founder and President <https://licc.ai/>LONDON INTERNATIONAL
CREATIVE COMPETITION

Taipei Tech's Chuang Che-kuang Honored at 2024 London International Creative Competition

Professor Chuang Che-kuang from Taipei Tech's Department of Interaction Design has gained international recognition after receiving the Official Selection Award at the 2024 London International Creative Competition (LICC). His acclaimed work, "Labor-Capital Parallax," stood out among submissions from 65 countries, showcasing Chuang's unique ability to fuse innovative technology with profound conceptual artistry.

"Labor-Capital Parallax" is part of Chuang's ongoing "Parallax" series, initiated in 2024, which aims to explore the intersections and contrasts of seemingly opposing concepts through diverse technological mediums. This particular project merges VR 360-degree environments and dual-channel video animation, pushing the boundaries of traditional narrative storytelling.

The artwork itself is structured across three distinct presentation levels, each offering viewers a progressively complex experience. The initial 2D level provides a singular, fixed perspective; the dual-channel video introduces simultaneous yet contrasting viewpoints; finally, the VR 360-degree experience immerses viewers in an all-encompassing, transcendent perspective. Remarkably, human figures are absent from the visual storytelling. Instead, Chuang employs spaces, installations, and monologues, allowing audiences to experience first-person narratives through spatial exploration.

Drawing on his architectural background, Chuang meticulously constructed an office environment composed of three vertically stacked boxes. Within the lower two boxes, the monotonous movement of laborers, represented symbolically by repetitive arrangements of desks, chairs,



and typewriters, conveys the endless, mechanical cycle of work. The uppermost box embodies management's distant, almost godlike oversight, simultaneously facing threats from external forces, suggesting tensions and vulnerability within hierarchical structures.

Chuang, who holds a bachelor's degree from Taipei Tech's Department of Architecture and a master's from the University of Applied Arts Vienna, is noted for his interdisciplinary creativity spanning architecture, sculpture, illustration, and conceptual design. His dedication and talent have previously earned him numerous accolades, including the IDA Award, Muse Design Award, and Dadun Award.

The London International Creative Competition, founded by Farmani Group artists Launa Bacon and Hossein Farmani, has celebrated artistic excellence since 2006, highlighting innovators who challenge artistic boundaries and inspire creativity worldwide. Chuang's achievement underscores Taipei Tech's ongoing commitment to fostering globally competitive and creatively innovative talent.

Taipei Tech Recognized Nationally for Excellence in Teaching Practice Research Program and EMI



Taipei Tech has achieved remarkable recognition for its dedication to teaching excellence and EMI initiatives. Since 2018, the university has secured 30 Excellence in Teaching Practice Research Program awards, ranking first nationwide in cumulative awards. In 2024 alone, Taipei Tech achieved the third-highest approval rate nationally, underscoring the university's ongoing commitment to educational innovation and excellence.

Taipei Tech recently showcased these achievements at a special exhibition highlighting the successful Teaching Practice Research Program and EMI. The event also featured insightful presentations by nine exemplary faculty members, offering valuable experiences and strategies to encourage new educators to embrace innovative, diverse, and globally competitive teaching methodologies.

President Wang Sea-fue emphasized Taipei Tech's unique role as a regional base institution for Teaching Practice Research, specifically serving vocational and technological education sectors. Hosting annual interdisciplinary exchange events, providing one-on-one consultations, and fostering cross-university teacher communities. This comprehensive support network has significantly boosted project application and acceptance rates, encouraging more vocational educators to actively pursue teaching excellence.

Dean of Academic Affairs Huang Yu-hsien elaborated on how Taipei Tech aligns with the Ministry of Education's vision through various empowerment initiatives, including advanced teaching workshops, pilot programs, community-building among teachers, and revised evaluation and promotion policies. Notably, Professor Wang Hung-hsiang from Industrial Design and Professor Tai Nan-ching from Interaction Design, to name a few for example, successfully earned professorship through specialized publications in teaching practice research. Associate Professor Huang Shao-yu from Architecture was similarly promoted based on technical reports derived from teaching practice studies.



Taipei Tech's EMI efforts have also gained substantial recognition, securing "Domain Benchmarking Project" distinctions in Engineering and Applied Sciences as well as Social Sciences for 2024. Taipei Tech is the only university to receive awards across two domains and three colleges.

Since launching the EMI+ESP Synergy Program in 2020, Taipei Tech has engaged over 200 faculty members in professional development. The university's partnership with the Fulbright Program has further strengthened international collaboration, sending 23 educators to receive training at top institutions such as the University of Maryland, UC San Diego, and Columbia University. In addition, Taipei Tech and Penn State University have jointly established the Certificate of Excellence and Innovation in EMI Teaching, through which 31 faculty members have been trained to date—marking a significant step forward in the university's internationalization efforts and in preparing students for success in global professional environments.



Taipei Tech and Asian Institute of Technology Form Strategic Partnership in Semiconductor Education



To enhance international academic collaboration, President Wang Sea-fue of National Taipei University of Technology led a delegation to Thailand in February 2025 to meet with President Lee Pai-chi of the Asian Institute of Technology (AIT). They signed a university-level agreement during this meeting, officially marking AIT as the latest addition to Taipei Tech's network of 24 partner universities in Thailand. In March, President Lee paid a return visit to Taipei Tech, where both universities agreed to initiate a dual-degree master's program in semiconductor technology between Taipei Tech's Innovation Frontier Institute of Research for Science and Technology (iFirst) and AIT's School of Engineering and Technology. This collaboration is an important milestone in strengthening cooperation between the two institutions in semiconductor education.

Located in Bangkok, Thailand, AIT has provided English-language instruction since its founding in 1959. It is dedicated to developing highly qualified engineers to solve Asia's problems. Renowned for its expertise in transportation, civil engineering, sustainable engineering, and management, AIT has strong historical ties with Taiwan dating back to the tenure of Sun Yun-suan, former Premier and Senior Presidential Advisor, who previously served on AIT's Board of Trustees. In fact, many Taiwanese professionals, educated at AIT, have significantly contributed to Taiwan's critical infrastructure development.

President Wang highlighted the similarities between Taipei Tech and AIT, noting that both institutions prioritize engineering education and contribute substantially to national economic development, gaining international recognition. As an applied research university, Taipei Tech maintains longstanding collaborations and academic exchanges with such prestigious institutions as the Massachusetts Institute of Technology (MIT), Penn State University, and Tohoku University.

President Wang believes the new dual-degree collaboration in semiconductor technology will significantly advance core strategic industries, with aspirations to expand future cooperation into artificial intelligence (AI), Executive MBA (EMBA) programs, and other academic disciplines.

Appointed last September as the first Taiwanese president of AIT, President Lee also holds a distinguished professorship at National Taiwan University, strengthening academic links between Taiwan and Thailand. He emphasized that the new collaboration with Taipei Tech aligns with his vision of institutional transformation and international academic partnerships, supporting Taiwan's New Southbound Policy and strengthening talent cultivation in strategic technology sectors like semiconductors and AI, contributing to sustainable economic growth across Asia.

Taipei Tech Hosts International Biomedical Entrepreneurship PBL Bootcamp to Empower Future Innovators

To cultivate future leaders in biomedical innovation, National Taipei University of Technology recently hosted the International Biomedical Entrepreneurship PBL Bootcamp, a six-day intensive workshop designed to help students transform scientific research into market-ready solutions. Conducted entirely in English, the six-day event brought together graduate students, professors, and industry mentors from Taiwan, Japan, and the United States, fostering international collaboration and entrepreneurial thinking.

Led by Professor Fang Hsu-wei, Director of the High-Value Biomaterials Research and Commercialization Center at Taipei Tech, the program emphasized the integration of scientific research with entrepreneurial strategy. Drawing on his own experience in a startup program at UC Berkeley, Professor Fang curated a diverse team of instructors from academia, industry, and venture capital, aiming to equip students with practical skills to commercialize biomedical technologies.

The first two days of the program focused on the commercialization journey of biomedical materials and technologies. Students participated in a technical pitch competition, proposing innovative ideas such as biodegradable fast-acting hemostats, ultra-sensitive drug detection kits, MOF-based microneedle patches for scar treatment, and wound care solutions for pets. These promising concepts became the basis for group projects developed throughout the week.



Collaboration

From Days 3 to 5, a team of seasoned entrepreneurship instructors from the U.S., including Berkeley Startup Mentor GiGi Wang and Helen Chen, co-founder of Alixia, delivered workshops covering product innovation, intellectual property, financial modeling, marketing, fundraising strategies, and team building. This hands-on training guided students through real-world startup challenges while encouraging creativity, communication, and cross-disciplinary collaboration.

The final day concluded with group presentations and an award ceremony, where student teams showcased their entrepreneurial proposals. The event demonstrated not only the students' technical and innovative capabilities but also the value of Taipei Tech's international and industry-connected education model.

Organized by Taipei Tech in collaboration with the National Health Research Institutes, National Taiwan Normal University, University of Tsukuba, and Japan's National Institute for Materials Science (NIMS), this bootcamp represents the university's commitment to preparing students for global careers in biomedical technology through problem-based learning (PBL), EMI instruction, and real-world innovation challenges.





Taipei Tech and Koo Foundation Sun Yat-Sen Cancer Center Launch Cross-Sector USR Project to Support Cancer Patients and Families

Taipei Tech has officially launched a new University Social Responsibility (USR) initiative in collaboration with Koo Foundation Sun Yat-Sen Cancer Center (KFSYSCC), focusing on the holistic care of cancer patients. The project seeks to enhance the treatment of cancer patients' emotional, psychological, and experiential aspects, recognizing that healing involves much more than physical care alone.

The partnership was formalized on April 24th, 2025 through a memorandum of understanding signed by Wang Sea-fue, President of Taipei Tech, and Andrew T. Huang, President of Koo Foundation Sun Yat-Sen Cancer Center. Witnessing the event was Pegatron President T.H. Tung—also a Taipei Tech alumnus and board member of KFSYSCC—along with project leads Professor Peng Jui-wen of Taipei Tech and Dr. Cheng Chih-tao, Director of the Psychiatric Department at KFSYSCC.

As Taiwan's first cancer-specialized hospital, KFSYSCC has long embraced a philosophy of whole-person care. With a five-year survival rate of 76%, the hospital is committed to supporting not only the medical needs of patients but also their emotional and spiritual well-being. The center recognizes that healing from cancer is not just physical—it also requires caring for the patient's emotional and mental well-being. Likewise, the families of patients need similar support for their spiritual and emotional health.

This groundbreaking USR project will focus on three core areas: promoting human-centered care, building a comprehensive patient support system, and co-creating health education initiatives. With its strong foundation in design, technology, and social sciences, Taipei Tech will work with the hospital to develop meaningful support systems for patients, families, and healthcare providers.

"This collaboration brings academia and healthcare together to confront real human challenges with empathy and innovation," said President Wang. "We hope to create a platform for interdisciplinary learning and practical problem-solving, and to demonstrate how technology and knowledge can give back to society."

The project will focus on creating tools to help patients communicate more easily, offering support for caregivers, and making hospital environments more comfortable for staff. Ultimately, the initiative aims to bring warmth, dignity, and hope to those facing one of life's most challenging journeys.

By addressing the emotional and psychological needs of cancer patients and their families, Taipei Tech and KFSYSCC redefine what compassionate care means and demonstrate how technology and education can be powerful forces for healing.

