



Soybeans Combat Marijuana

Small Donations for A Big Vision



Global Vantage Law and Society
Exchange Workshop

Exchanges & Collabs With Johns Hopkins Uni

Next-Generation Race Car Unveils



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NTU Graduating Class of 2022: Striding Into the Open Road

FEATURES



Small Donations for a Big Vision: A Conversation with Dr. Pei-Cheng Liao, Vice President for Financial Affairs

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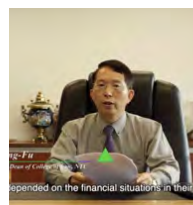
GLOBAL OUTLOOK



GIS Taiwan: the Continuation of a Dream

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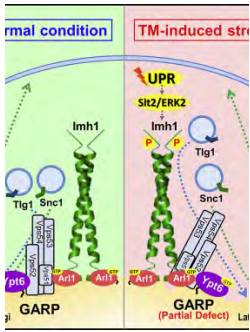


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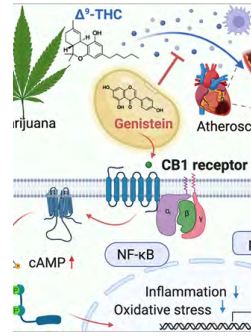
ACHIEVEMENTS



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TEACHING & LEARNING



Co-shaping the English Future on Campus

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PEOPLE



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Still Together After 20 Years: Meet UPenn Librarian & Professor, Dr. Brian Vivier

Philadelphian Dr. Brian Vivier is an Adjunct Associate Professor of Chinese Studies and the Chinese Studies Librarian at the University of Pennsylvania (UPenn). His specialization is Song Dynasty studies and the cultural exchanges between the Song Dynasty and neighboring peoples.

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NTU Racing Unveils the Next-Generation Race Car

On March 19, NTU Racing unveiled its latest design, Epsilon 3, the next-generation self-developed race car. This fully electric race car was created from scratch by volunteers of different departments. The students sought sponsors, designed the logo, built the vehicle, and launched the marketing campaign all by themselves. Everyone worked together to maximize their

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NTU ArtFest 2022: Cleaning in Progress – The World Under the Pandemic

Titled "Cleaning in Progress," the 27th NTU ArtFest was held from April 29 to May 21, exhibiting seven art pieces in different locations on campus. The festival was organized by a team of 80 students, three of which served as cochairs: Rou-An Chen of the Department of Anthropology and Yun-Zhi Li of the Department of Drama and Theatre, NTU, and I-Hao Liao of the

[... more](#)



Exhibition Commemorates the Sesquicentennial of George Leslie Mackay's Arrival in Taiwan

150 years ago, a divine thread drew a Canadian missionary, George Leslie Mackay, across the ocean to Formosa, the island beautiful, blessed with God's love. He landed in Tamsui on March 9, 1872, with an aim to spread Christianity, practice medicine, and promote education in Taiwan. In order to commemorate the sesquicentennial of George Leslie Mackay's arrival

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Small Donations for a Big Vision: A Conversation with Dr. Pei-Cheng Liao, Vice President for Financial Affairs

Prof. Pei-Cheng Liao of the Accounting Department took over as Vice President for Financial Affairs in January 2019. Between 2019 and 2021, the average growth in small donations to NTU reached 105% compared to 2018. "Many a little makes a mickle," said Liao. If only each and every one of NTU's 310,000 alumni could give back a little, the amount would be significant. With self-generated income becoming the primary source of funding, Liao's mission is to get the alumni to give back regularly.

Donations Facilitated by Digitization

Liao's success is due to her optimizing the user experience so that the donation procedure is fast and easy. The new website went online last year with a much better interface. The possibility of making donations online rather than having to do paperwork also helped. Many payment methods have also been made available, including credit card, bank transfer, and Line Pay. Moreover, information regarding the use of the donated funds has been made transparent to encourage people to donate. "We have incorporated accountability into the webpage so that the donors know exactly where their money is going."

Donation Powered by Emotional Connection

At the NTU Affairs Meeting in March, Liao proposed the idea of facilitating small and recurring donations. "Alumni would be more willing to give back if they remain connected to the university. Letting them know the goals the university is focusing on and winning their recognition is the best way to secure their donations." Inspired by the alumni reunions for undergraduates organized by the Alumni Center, Liao held fund-raising events for graduate school alumni. With the success of the EMBA fund-raising event last year and the Taichung alumni event this February, similar events are being planned for alumni based in Kaohsiung and from the College of Engineering.

With the goal of raising the Centennial Vision Fund for 2028, the series of events will also give alumni a sense of participation for being part of the program. Take the most popular scholarship donations, for example; donors are invited to interact with the recipients at the award ceremonies. On such a heartwarming occasion, donors can witness how their contributions make NTU a better place.



| Dr. Pei-Cheng Liao, Vice President for Financial Affairs

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FEATURES

NTU Graduating Class of 2022: Striding Into the Open Road



Only around 700 graduates attended the ceremony in person this year due to the pandemic, yet every attendee participated with joy and enthusiasm.

Every year National Taiwan University welcomes graduates, guests, and alumni from home and abroad to attend its spirited commencement ceremony. This year's ceremony, which honored the virtues of "selflessness," "dedication," and "altruism," was held on May 21 at the NTU Sports Center, to celebrate the achievements of the 10,096 graduates of the Class of 2022.

Reflecting on the pandemic and the Russia-Ukraine war, NTU President Chung-Ming Kuan reminded the graduates to make a positive difference in the world, contributing to society and caring for the welfare of others. "Since this is a time like no other, you deserve a commencement ceremony that's one-of-a-kind. In times like these, we need songs and poetry to comfort and heal us," asserted President Kuan. The President then recited a poem by the renowned Taiwanese poet Yang Mu from *Songs of the Little Dipper* and several stanzas from "Song of the Open Road" by the American Poet, Walt Whitman, encouraging every graduate to stride towards their future with vigor and tenacity.

This year's commencement speaker was Dr. Chih-Han Yu, Chief Executive Officer and Co-founder of Appier. Dr. Yu graduated from NTU Department of Computer Science and Information Engineering in 2001 and received a master's degree in AI from Stanford University and a doctorate in computer science from Harvard University. With over 20 years of experience in AI, Yu used his acquired skills and knowledge to build a technology company that leveraged and promoted the power of AI. In 2016, Yu was selected as a young global leader by the World Economic Forum, making him the only Taiwanese to receive this award and Appier the only Asian AI company to make the list. Now, Appier has grown from a lean startup to a rapidly expanding SaaS company with footprints throughout Asia, Europe, and America, and completed its IPO and listing on the Tokyo Stock Exchange in 2021.

"It's okay to fall behind and even be at the bottom, as long as you can catch up in the future," said Yu as he shared his own academic and entrepreneurial journey with the graduates. "Once you achieve your short-term goals in a certain field, you must step out of your comfort zone, move up to the next league, and start challenging yourself with impossible missions," Yu said. "Going beyond yourself gives you the chance to learn more and gain valuable life experiences." "Everyone has their strengths and weaknesses," said Yu, "though it's not a fair game, one must never quit. If you show proactiveness, diligence, and passion, with time, you will find yourself surpassing those who were once ahead of you," said Yu.



President Kuan delivering the opening remarks.



Dr. Chih-Han Yu, Chief Executive Officer and Co-founder of Appier delivering his speech.



Graduates raising their caps and bidding each other a fond farewell.

Student commencement speaker Chung Ming Liu from the Department of Political Science stated that though it was a year full of uncertainties, frustration, and challenges for the class of 2022, they did not lose sight of their goals. Despite working between online and offline courses and facing countless unprecedented challenges, students pieced together a unique and memorable college and life experience. The fragmentation and divergences presented by Covid gave them a valuable lesson on responsibility, flexibility, and how to manage frustration and anxiety. "The future may be full of changes and setbacks, yet we are ready to make headway and hope," said Liu.

Rolando Ruiz Becerri, an international student from the Department of Chemical Engineering, also inspired the graduates with his own experience. Five years ago, he left his homeland to pursue his studies in Taiwan. Adapting to the environment was a stressful journey, yet just like diamonds form under pressure, he believes it is the pressure that will allow the graduates to shine like diamonds. During his time at NTU, Becerri found his passion for science and even began his own YouTube channel Pulche Podcast to share the fun of science with the public. He thanked NTU for equipping him with professional knowledge and turning him into a global citizen who can bridge different cultures. He hopes he can contribute his expertise to developing sustainable energy in the future. "There's a saying from my hometown, Temoaya: You can bend me, but I won't break."



Participants celebrating at the end of the commencement ceremony.

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GLOBAL OUTLOOK

GIS Taiwan: The Continuation of a Dream



Group photo of the opening ceremony.

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NTU President Chung-Ming Kuan kicked off the opening ceremony with a speech welcoming the President of National Taiwan University of Science and Technology, Jia-Yush Yen. Numerous other distinguished guests delivered inspirational speeches, including Mr. Giuseppe Izzo, the Regional Vice President and Taiwan Managing Director of STMicroelectronics' Asia Pacific Region, as well as NTU alumnus Mr. Rikash Lin, the co-founder of Calls Over Ridges. Mr. Jaushieh Joseph Wu, the Minister of Foreign Affairs, and Ms. Chee Ching, the President of Far EasTone Telecommunications, gave insightful speeches at the closing ceremony.

The 5-day annual symposium attracted many enterprise leaders from home and abroad. Notably, several distinguished leaders and scholars were invited to participate in the GIS talk on Urban Governance. Mr. An-Pang Kao, Deputy Mayor of Taoyuan City, Mr. Charles Lin, Deputy Mayor of Kaohsiung City, Mr. Chung-Che Chou, Director General of National Center for Research on Earthquake Engineering, and Dr. Li-ling Huang, Professor at the NTU Graduate Institute of Building & Planning, all shared their insights on intelligence, culture, and sustainability, hoping to encourage student attendees to reflect on their urban memories.

The Startup Carnival was held at the Songshan Cultural and Creative Park, featuring twenty-five startups. Well-known industry leaders and movers and shakers generously shared their professional experiences with the audience, including the founder of Yutopia, Yu Lee, Vogue's Editor-in-Chief Leslie Sun, the famous YouTuber HowHow, and Managing Director of ENERCON Taiwan, Bart Linssen.

Hsin-Wei Yuan, Chief Director of the organizing committee, remarked, "In the pandemic era, people need more listening and tolerance. GIS Taiwan sparked new ideas and emotions through interactions in diversified activities." This event shows all the possibilities that can come to fruition through an international academic forum. NTU expresses its gratitude to the distinguished guests and enterprises for their generous support. We look forward to seeing everyone again next year.



Participants engaging in a serious discussion.



Global Initiatives Conversation.



Scan the QR Code to visit GIS TAIWAN Official Website.

GLOBAL OUTLOOK

The Bridge of Knowledge and Friendship – Global Vantage Law and Society Exchange Workshop

In the spring of 2022, 10 undergraduate and graduate students of the NTU College of Law attended the three-week Global Vantage Law and Society Exchange Workshop 2022, together with students from Kyushu University (Japan), Pusan National University (Korea), and Chulalongkorn University (Thailand). Due to the pandemic, the workshop was hosted online. The participants were divided into 10 groups to discuss and address five topics of vital importance in contemporary society: Freedom of Expression and the Press, Hate Speech, Gender Equality, Poverty, and Refugees & Migrants.

The first week of the three-week workshop featured lectures on the five topics and human rights education in Japan given by two professors at Kyushu University. During the second week, participants from the different countries held cultural exchanges and discussions. Also, each group gave presentations to other groups that were working on the same topic. And, during the final week, each group gave presentations to other groups that were working on different topics.

In addition to holding discussions on the policies and laws of the different countries, the workshop also required the participants to work together in collecting information and making PowerPoint presentations. Each group had just one week to decide how to address the topic and outline the structure and content of the presentation. Working together meant engaging in cross-lingual and cross-cultural communications, as well as overcoming the difficulties presented by being situated in three different time zones.

Although the three-week process was fraught with challenges and hardships, the participants not only gained valuable knowledge and insights from the workshop but also formed friendships with students in the other countries. The Workshop organizers sincerely hope that this bridge of knowledge and friendship will continue to be built and become more solid.



Dr. Tsung-Fu Chen, Dean at the NTU College of Law.



Presentation and discussion on poverty.

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| GLOBAL OUTLOOK

OIA Extends Warm Welcome to Johns Hopkins University Students at NTU

On March 29, the Office of International Affairs (OIA) at NTU hosted an orientation and campus tour to officially welcome students from the Johns Hopkins School of Advanced International Studies (SAIS). During the student orientation, Hailey McGleam, a student of SAIS and recipient of the Boren Fellowship, introduced the variety of student club activities and other things they should experience at NTU.

SAIS provides opportunities for students to study international relations while cultivating their cultural and linguistic proficiency, to prepare them as future leaders. SAIS enjoys a close relationship with Taiwan, with distinguished alumni working at the American Chamber of Commerce in Taiwan, Taipei City Government, Fulbright Taiwan, and Taiwan NextGen Foundation. Ed Dunn, the spokesperson of the American Institute in Taiwan, also graduated from SAIS.

By living in a Mandarin-speaking environment with the abundant learning resources and generous support provided by NTU, the SAIS students will be able to develop a deeper understanding of the society and culture in Taiwan. The students' experiences at NTU will be a solid foundation for them as they explore their major fields from different perspectives and take a step closer to their professional goals. Through this meaningful collaboration between Johns Hopkins SAIS and NTU, the door will remain open for students to explore possibilities abroad and the relationship between the two academic institutions will become ever stronger.



Group photo of students from Johns Hopkins University School of Advanced International Studies.

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| ACHIEVEMENTS

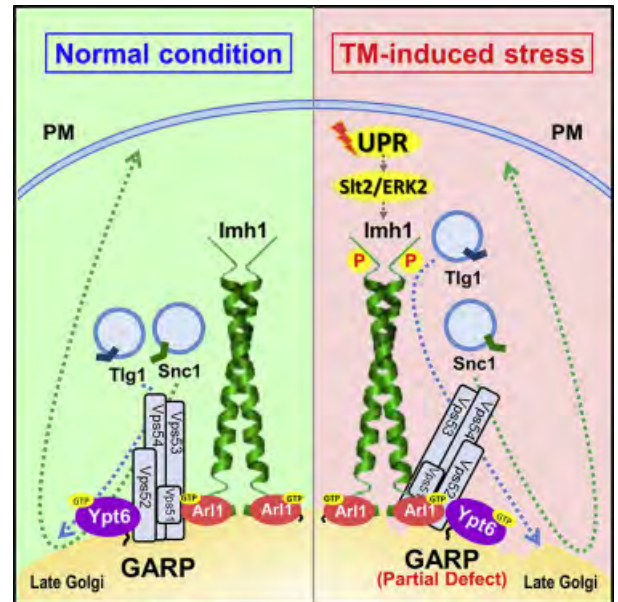
NTU Reveals the Function of ER Stress-Induced Golgi Retrograde Transports

Endoplasmic reticulum (ER) and Golgi are the two major organelles in cells that support protein folding, modification, and subsequent transport. If the protein folding capacity of ER is overwhelmed or damaged, it induces the unfolded protein response (UPR), which acts to reduce ER stress. Research shows that ER stress causes cell death, and severe ER stress leads to diabetes, cancer, alteration in immune functions, and neurodegeneration, such as Alzheimer's disease, Parkinson's disease, and Huntington's disease. Unveiling the biology of ER stress and UPR benefits the development of putative clinical therapy strategies.

A research team led by Professor Fang-Jen Lee recently published their findings in *Cell Reports*. They had already discovered that ER stress activates small GTPase Arl1 at the Golgi and leads to Golgi recruitment of Arl1 effector golgin protein Imh1; however, the mechanism and function of the ER stress-stimulated Arl1-Imh1 pathway remained a mystery. To unravel the role of Golgi in the responses to ER stress, the team once again embarked on a mission to investigate the effects of UPR on the ER and the Golgi.

The team used a single-cell budding yeast (*Saccharomyces cerevisiae*) as a model organism for the research. In this study, they first discovered that ER stress would impair retrograde transport of the endosomal protein to the Golgi. The main retrograde transport to the Golgi depends on the GARP complex (Golgi-associated retrograde protein complex) and SNARE proteins. Under ER stress, the GARP complex is partially dysfunctional, which results in the failure of SNARE protein Snc1 and Tlg1 recycling transport to the Golgi. Therefore, the Golgi recruitment of Arl1 and Imh1 was enhanced to complement this defect. Furthermore, besides the Golgi localization, Imh1 was identified to be phosphorylated by mitogen-activated protein kinase (MAPK) Sit2/ERK2 to display its function in sustaining Snc1 and Tlg1 recycling transports in response to ER stress, which is independent of the ER stress master regulator Ire1 kinase.

This study offers remarkable insights into the functions of the Golgi under ER stress and reveals the communication between ER and the Golgi — laying a foundation for future studies on protein homeostasis and quality control in cells. According to Lee's team, their future goal is to focus on how the retrograde transport to the Golgi eases the burden of overwhelmed ER stress.



The team proved that the cooperative action of two different classes of tethers, golgin Imh1 and GARP complex, plays an essential role in recycling the transport of SNAREs under ER stress. The image shows how ER stress induces the MAP kinase Sit2/ERK2-dependent golgin Imh1 phosphorylation to suppress the defects of the GARP complex in SNAREs recycling transport.



Scan the QR Code to read the journal article.

| ACHIEVEMENTS

Soybeans Combat Marijuana-Induced Cardiovascular Disease

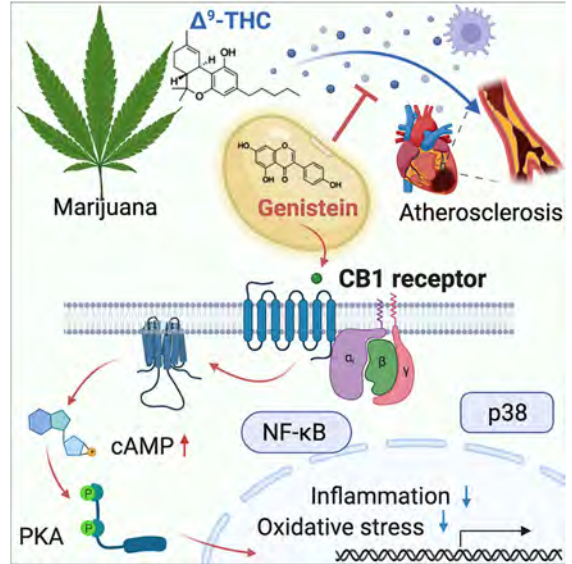
Marijuana is the most widely used illicit drug in the world, and its legal status is increasingly being relaxed for recreational use. Epidemiological studies have shown that marijuana use is linked to an increased risk of coronary artery disease. Patients who take medications containing delta-9-tetrahydrocannabinol (THC), the main ingredient in marijuana that causes the sensation of being high, may experience cardiovascular side effects, such as changes in heart rate and blood pressure.

A team of researchers from NTU, NTU Hospital, Academia Sinica, Stanford University, University of California, and University of Colorado discovered a compound in soybeans called genistein that helps block damage caused by THC in marijuana to the lining of blood vessels in the cardiovascular system. This discovery offers insights into the mechanisms of marijuana-induced damage and the possibility of using this new substance to prevent cardiovascular side effects. The groundbreaking research has been reported by many medical websites and was published in the journal *Cell*.

To examine the pathological effects of THC on the vasculature, researchers exposed THC to pluripotent stem cell-derived endothelial cells (hiPSC-ECs) from healthy individuals. Once THC binds with CB1, known as the cannabinoid receptor 1, it leads to oxidative stress and inflammation, both conditions linked with the development of heart disease.

Through laboratory tests, the researchers found that vascular endothelial cells were more sensitive to THC than cardiac cells. Also, they found an antioxidant compound in soybeans called genistein. Genistein can block THC access and eliminate its effects on endothelial cells without inhibiting THC's ability to stimulate appetite, dull pain, and tamp down nausea — characteristics vital to medicinal marijuana users. This finding is crucial because genistein blocks harmful cardiovascular effects of marijuana while preserving its clinically useful effects.

"I began this project when I was a postdoctoral researcher at Stanford University. After returning to my own laboratory at NTU, I spent another three years to complete the project," said Dr. Tzu-Tang Wei, the study's lead author and assistant professor of pharmacology in the College of Medicine at NTU. "I genuinely appreciate the support of NTU and the Ministry of Science and Technology for this study. We will continue to study mechanisms of marijuana in different body systems." said Wei.



The team proved that the cooperative action of two different classes of tethers, golgin Imh1 and GARP complex, plays an essential role in recycling the transport of SNAREs under ER stress. The image shows how ER stress induces the MAP kinase Slt2/ERK2-dependent golgin Imh1 phosphorylation to suppress the defects of the GARP complex in SNAREs recycling transport.



| NTU research group led by Dr. Wei.



Scan the QR Code to read the journal article.

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| TEACHING & LEARNING

Co-Shaping the English Future on Campus



| Associate Prof. Shan-Yun Huang of the Department of Foreign Languages and Literature (left) at the first EMI Sharing Session.

To enhance the international competitiveness of Taiwanese youth, the government approved an ambitious policy to turn Taiwan into an English-Mandarin bilingual nation by 2030. In support of this policy, the Ministry of Education decided to implement a dual-track English instruction approach, aimed to nurture students in professional fields and improve their English abilities at the same time.

As a support institution for the Program on Bilingual Education for Students in College (BEST), NTU established the Center for Bilingual Education (CBE) to promote EMI courses on campus. EMI, an acronym for English as a medium of instruction, is more than translating course materials but involves redesigning the entire curriculum and pedagogy to ensure the students' learning outcomes. It is not an easy task, but members of CBE are dedicated to helping faculty members design and offer their EMI classes on campus.

CBE invites EMI experts to share their personal experiences and knowledge at EMI Sharing Sessions. After the expert presentations, NTU faculty members have the opportunity for discussion groups, not only to learn from their peers but also encourage them to re-evaluate their methodology and approach to teaching. Invited speakers at the first Sharing Session included Associate Professor Shan-Yun Huang of the Department of Foreign Languages and Literatures, Associate Professor Joshua Goh of the Graduate Institute of Brain and Mind Sciences, and Assistant Professor Sin-Yi Chang of the Department of Foreign Languages and Literatures. They addressed the following topics, "Using Group and Team Building Activities to Improve the Atmosphere in the EMI Academic Classroom," "Perspectives as an English-educated Person Working in a Chinese Academic Setting," and "EMI for Whom and for What? Rethinking the Relationship Between Language, Pedagogy, and the Politics of Knowledge." respectively. All three sessions were well received and appreciated by the participants.

EMI adaptation plays a crucial role in the Bilingual 2030 policy and the future of Taiwanese students. Through CBE's monthly EMI Sharing Sessions, faculty members can celebrate knowledge sharing and join hands to discover better ways to train the next generation of Taiwan's global talents.



Associate Prof. Joshua Goh of the Graduate Institute of Brain and Mind Sciences sharing experiences that he found confusing as a Singaporean when he first taught at NTU.



Assistant Prof. Sin-Yi Chang of the Department of Foreign Languages and Literature sharing her experience in EMI.



Participants holding discussions during the sharing session.

| TEACHING & LEARNING

More Than just Having Fun: D-School Develops International Talents



| Freshly minted graduates learning how to ace English interviews.

In step with the globalization trend, enterprises in many industries require English job interviews. To help students improve their English interview skills and outshine other candidates, D-School hosted an English workshop titled “Tips to Succeed in a Job Interview in English” with the support of NTU Center for Bilingual Education’s “Eng-lite Program.”

On April 23, Shelly Tien was invited as a guest speaker to share her experience at the online workshop. A talented woman, Shelly wears several hats. She is a columnist for Commonwealth x Crossing and the hostess of her podcast and YouTube channel—“Try New!” She has worked in media for several international companies and has participated in employee training and branding, as well as worked in intern and graduate talent acquisition.

Shelly opened her presentation with a brief self-introduction and walked the students through the eight most common interview questions. She advised students to respond to the questions in a structured manner and to express themselves clearly and precisely during interviews. For example, when asked: “How do you face challenges and solve problems?” a candidate may use the STAR principle to specify a situation, task, action, and result in their response. This principle is applicable to nearly all interview questions, prompting interviewees to present themselves in a clear, organized, and compelling manner.

Shelly pointed out that when applying for a job unrelated to one’s major, it is crucial to thoroughly understand the industry one is interested to enter, including problems the industry might be facing at the time. Job seekers also need to assess how their personality traits and skill sets may be of value. “You are most convincing when the interviewer feels you share the same values with the company,” Shelly stressed. She also reminded students to dress neatly and professionally in order to make a good first impression during interviews.

According to D-School Dean Bing-Yu Chen, the core spirit of D-School is to have fun. By hosting workshops related to the students’ everyday lives, D-School provides learners with opportunities to enjoy lively English learning journeys outside the classroom. What’s even better? The workshops are not exclusively for NTU students! They are open to those who wish to unleash their English learning spirit!



| A bottle of wine in exchange for an English story.



| English activities to celebrate White Day.

| PEOPLE

NTU's Long-Distance Storage and Transportation Technology Helps with the Export of Atemoya

In season from December through March, atemoya ranks the second highest among Taiwan's fruits in export value, topping TWD 1.3 billion per year. Atemoya is a large fruit with supple yet resilient pulp and a mouth-watering sweet-sour taste. Mainland China used to be the largest export market of Taiwan's atemoya; however, the export of atemoya there was temporarily suspended on September 20, 2021. As this fruit of the farmers' labor cannot be exported there, the government is striving to expand the overseas fruit market, with the export target of 5,000 metric tons of atemoya-- to reduce the impact on the farmers' livelihood. However, keeping the fruit fresh in transit is critical to assuring atemoya's popularity in the export markets.

To this end, Associate Professor Chun-Ta Wu of the Department of Horticulture and Landscape Architecture of the College of Bio-Resources & Agriculture took the initiative to join hands with Professor Wei Fang, Chia-Lin Chung, Chung-Kee Yeh, Shih-Hsun Hsu and Ching-Cheng Chang, as well as experts at the Taitung District Agricultural Improvement Station, to form a cross-domain technical team. With the support from the Smart Agriculture Program of the Ministry of Science and Technology (MOST), the team developed the "Long-distance Storage and Transportation Technology for Atemoya" that can double the storage life of fresh atemoya to 3-4 weeks. So far, fresh atemoya has successfully been transported to Canada, Malaysia and the Middle East by sea at relatively low shipping costs. On arrival, the fruit has a shelf life of 5-7 days with a 90% sell-through rate. The extended storage life significantly increases the marketability of atemoya and enables market expansion.

The university has provided this vital technology to the Council of Agriculture free of charge, as well as helping to expand other overseas markets by selecting exporters with proven reliability and offering shipping subsidies. High quality goods and cutting-edge storage technology are both essential elements in successful exports. The combination of the two is the only way to achieve the goal of creating a sustainable export business.

NTU fulfills its university social responsibility by providing this technology for free. Thanks to the generous support of MOST, the team was able to complete the project and develop the key technology needed by the society and farmers. NTU can help!



Associate Professor Chun-Ta Wu explaining the technology in the laboratory.



Group photo.

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| PEOPLE

NTU Takes Action Towards Meeting Sustainable Development Goals

The E.SUN-NTU ESG Centenary Project, a collaboration between NTU and E.SUN Bank, was launched on March 25. The project includes two subprojects: a Cypress planting project in the Yushan mountain range and a millet revival project in Xinyi Township, Nantou.

The Cypress planting project is aimed to cultivate cypress trees native to Taiwan, including Taiwan Red Cypress, *Chamaecyparis taiwanensis*, Taiwan, Taiwan Incense Cedar, *Calocedrus formosana*, and Taiwan cunninghamia. Through this project, 100,000 trees, covering 50 hectares of land, will be planted during the next decade. These trees are expected to reduce an estimated 242,000 tons of carbon dioxide emission in 100 years.

The millet revival project sets out to reintroduce 28 varieties of millet that once were native to Xinyi Township. With the efforts of NTU, several varieties of native millet seeds were brought home to Taiwan from a seed bank in the United States. These seeds will help revive the millet industry and the culture of the Bunun community.

"NTU is actively promoting sustainability on campus, including aiming to reach 50% of carbon neutrality by our 100th anniversary in 2028 and achieve complete carbon neutrality by 2048. We have also established the "Sustainable Development Promotion Committee" and the "Office of Sustainability" early this year to map out and fulfill our sustainable development goals," said President Chung-Ming Kuan in his opening remarks. Kuan also encouraged NTU professors to dedicate themselves to research on sustainable development issues and lead students to integrate sustainability into their lives.

Project LEAP, launched by NTU School of Pharmacy in 2018, has been offering support for sustainable development by establishing and maintaining the sustainable endowment fund for NTU. Generous donors Chung-Chiang Larry Hsu and Fung-Hwa Ann Wu contributed 2.5 million USD to the project and offered a matching fund of up to 1 million USD to encourage donations. As of 2022 Q1, Project LEAP has raised 3.2 billion TWD from over 500 alumni and affiliates.

NTU will strive to build a sustainable environment and innovate pioneering solutions to tackle society's most pressing challenges. By joining forces and resources with enterprises and the NTU community, the school continues to forge relationships between different stakeholders and demonstrate its commitment to creating a greener future.



Group photo at the inauguration ceremony of NTU and E.SUN Commercial Bank's ESG Centenary Project, March 25. NTU President Kuan (third left) and Joseph N.C. Huang, Chairman of E.SUN Commercial Bank (third right).



Alumni who launched Project LEAP in front of Shui-Sen Hall with President Kuan.

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Still Together After 20 Years: Meet UPenn Librarian & Professor, Dr. Brian Vivier

Philadelphian Dr. Brian Vivier is an Adjunct Associate Professor of Chinese Studies and the Chinese Studies Librarian at the University of Pennsylvania (UPenn). His specialization is Song Dynasty studies and the cultural exchanges between the Song Dynasty and neighboring peoples.

Almost two decades ago, Brian joined NTU's International Chinese Language Program to study Mandarin. In 2012, he was invited by Professor Ya-Hwei Hsu to work as a visiting scholar at the Department of History. Now, he has returned to NTU, this time as an international scholar supported by the Fulbright Program on the strength of Hsu's invitation.

Brian holds a master's degree in East Asian Studies and a PhD in History from Yale University and a master's degree in Library and Information Science from Southern Connecticut State University. He currently serves as the Coordinator of Area Studies and the Chinese Studies Librarian at the University of Pennsylvania and an Adjunct Associate Professor of Chinese Studies at UPenn.

Unlike his peers, Brian has been deeply interested in the Song Dynasty—a period of social reforms and the golden age of China's economy, technology, and culture. After conducting research for years on Song Dynasty's trade network, Brian began to examine the flow of information in the region and analyze how the dissemination of information and knowledge during the time shaped the perception of China and Inner Asia.

The bountiful Chinese studies resources lure Brian back to Taiwan nearly every year, even after he began to work at UPenn. Now, he spends much of his time speaking with colleagues, searching for books at Lexis Book Company, and observing how NTU Library digitizes rare ancient books and media collections. Recently, he has made a foray into learning Taiwanese, spurred by his passion for Taiwan!

"Twenty years ago, Taipei 101 was not yet finished, construction on the HSR had only just begun, and Taipei's MRT system had just three lines," recalls Brian. Every time Brian visits Taiwan he witnesses new changes, "This innovative spirit inspires my research and encourages me to build deeper connections with NTU," said Brian.



UPenn Librarian and Professor Dr. Brian Vivier.

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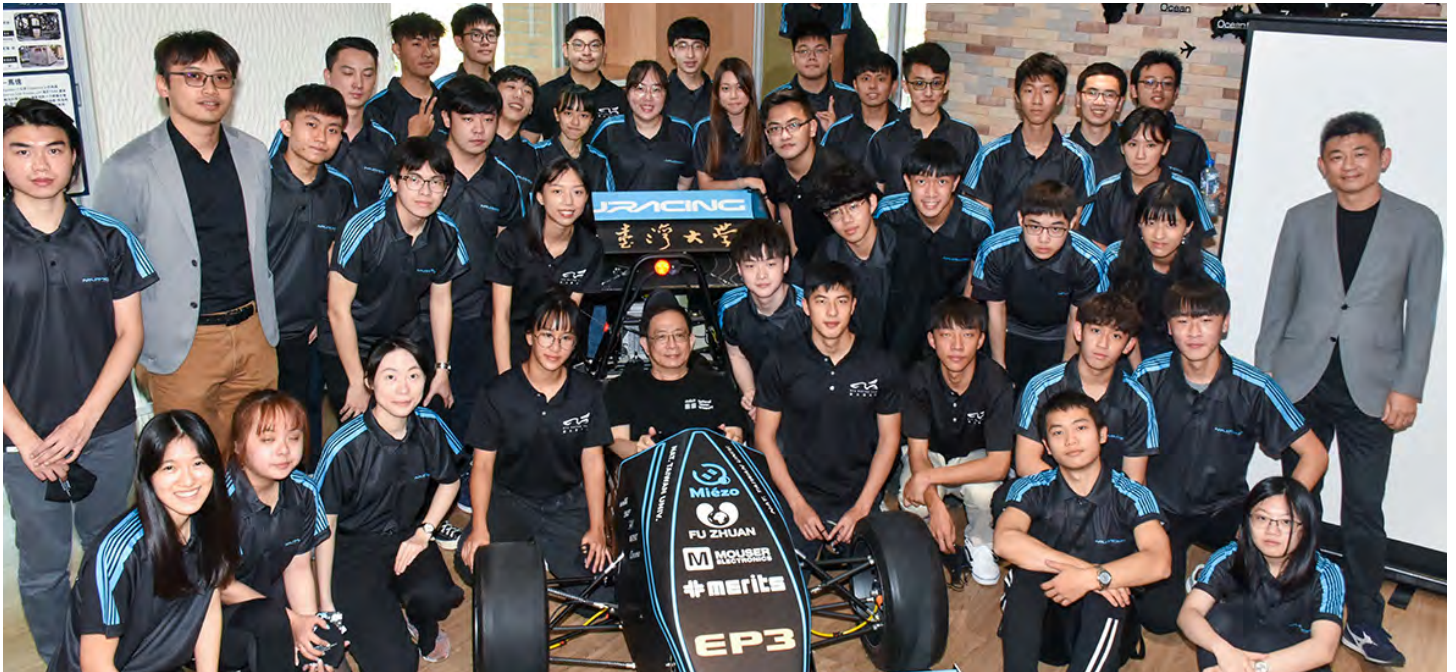
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NTU Racing Unveils the Next-Generation Race Car



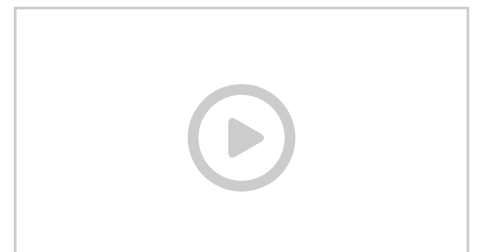
The members and instructors of NTU Racing.

On March 19, NTU Racing unveiled its latest design, Epsilon 3, the next-generation self-developed race car. This fully electric race car was created from scratch by volunteers of different departments. The students sought sponsors, designed the logo, built the vehicle, and launched the marketing campaign all by themselves. Everyone worked together to maximize their strengths and integrate the knowledge they learned in class into this real-life project. The current and former members of NTU Racing, instructors, and sponsors all participated in the product launch event to behold this incredible design.

Epsilon 3 weighs 240 kilograms, including the 80-kilogram battery. The cost of the materials exceeded TWD 1 million, while the operating cost was over TWD 2 million. The cockpit has been redesigned for the driver's comfort, and the spoiler is processed from purchased materials to increase the car's structural strength. Its maximum speed is nearly 100 kilometers per hour.

NTU Racing members are mostly from the Department of Mechanical Engineering, while the others are from the Department of Electrical Engineering, the Department of Material Science and Engineering, and the Department of Law. At the product launch event, President Chung-Ming Kuan remarked that he was impressed with their cross-disciplinary collaboration. The students with different academic backgrounds exchanged ideas in brainstorming sessions and finally made this amazing achievement, a realization of the spirit advocated by NTU. The University encourages students to step out of the classroom and participate in real-life projects, play to their strengths, and work in perfect harmony with people with different areas of expertise.

NTU Racing will soon showcase their fourth-generation electric racing car, Epsilon 4. They will premier this latest design at the Formula SAE Australasia competition in Australia during December 8 to 11, 2022. This will be the team's first travel abroad since the pandemic broke out in early 2020. It will also be the team's first entry in an Australian race. At present, the team members are devotedly making preparations for the competition. We sincerely hope NTU Racing will shine in the Australia competition and demonstrate to the world the R&D capabilities of students from Taiwan.



Epsilon 3, the next-generation self-developed race car by NTU Racing.



President Chung-Ming Kuan attends the launch event of NTU Racing's new race car.

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NTU ArtFest 2022: Cleaning in Progress – The World Under the Pandemic



| The art piece *Inside-out*, a large transparent plastic sphere, displayed in front of the school library.

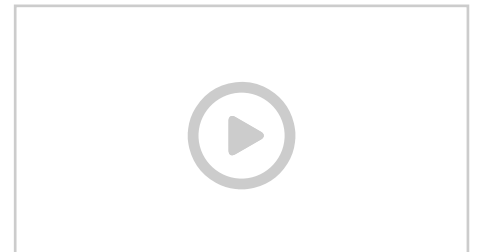
Titled “Cleaning in Progress,” the 27th NTU ArtFest was held from April 29 to May 21, exhibiting seven art pieces in different locations on campus. The festival was organized by a team of 80 students, three of which served as cochairs: Rou-An Chen of the Department of Anthropology and Yun-Zhi Li of the Department of Drama and Theatre, NTU, and I-Hao Liao of the Graduate Program of the Department of Design, National Taiwan University of Science and Technology.

The ArtFest featured the topic of “Release.” as opposed to the sense of oppression, anxiety, and tension arising from the pandemic. I-Hao Liao also went through some anxious moments before finally deciding on the site for his art exhibit. He used his experience to encourage every participant to explore many possibilities while creating art.

Rou-An Chen chose a front-loading washing machine as the medium for her artwork. She explained that the spin cycle represents an underlying life pattern that we might not be aware of. The front-loading washing machine continues to play the sound “Beware – Spinning to the right.” Chen explained that the sound conveys the message that we are living in a society affected by extreme capitalism, and it is almost impossible for us to escape.

Yun-Zhi Li directed the physical theater show named *Cleaning in Progress*. She created space and depicted emotions through the performers’ bodies to show that the university students seem to be facing a doomsday with no end in sight during the pandemic. There are many doomsday moments in daily life, and the process of dealing with them is a way of self-cleaning.

The event allowed students to participate in creating art innovatively. Jun-Ting Luo, Tzu-Ling Wang, and Huei-Cen Li volunteered to walk around the campus in protective suits asking other students to write down their positive and negative emotions on post-its and pasted them on their suits which symbolize the “petri dish” of emotions.



| Cochairs I-Hao Liao (left) and Rou-An Chen (right).



| *Society as a Front-loading Washing Machine.*

Fang-Cheng Zhang, a freshman the in Department of Mechanical Engineering, was the first to write down his emotions in the emotion collection activity. He stated that ArtFest not only brought a new artistic atmosphere to the campus, but also inspired people to reflect on themselves in the pandemic era.



The performers acting out the struggles we faced during the pandemic in the physical theater show *Cleaning in Progress*.

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Exhibition Commemorates the Sesquicentennial of George Leslie Mackay's Arrival in Taiwan



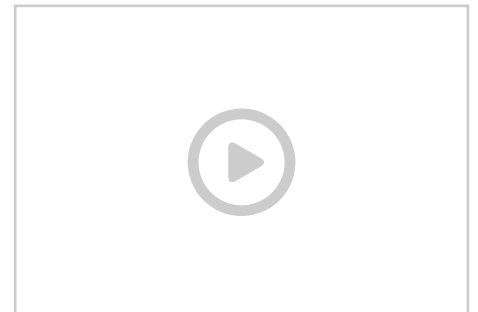
| Entrance to the exhibition on the second floor of the Gallery of National Taiwan University History.

150 years ago, a divine thread drew a Canadian missionary, George Leslie Mackay, across the ocean to Formosa, the island beautiful, blessed with God's love. He landed in Tamsui on March 9, 1872, with an aim to spread Christianity, practice medicine, and promote education in Taiwan. In order to commemorate the sesquicentennial of George Leslie Mackay's arrival in Taiwan, the Gallery of National Taiwan University History is holding an art exhibition in observance of "150th Anniversary of George Leslie Mackay's Setting Foot in Taiwan: From Generation to Generation, from Taiwan to the World, Love that Transcends Time and Space," from March 4 to August 31.

Mackay married a Taiwanese lady, Minnie Mackay, and their two daughters married Taiwanese men, planting roots in Taiwan. His grandson Seth Mackay Ko—the third generation MacKay in Taiwan—was in the first graduating class of the History Department at Taihoku Imperial University, in 1931. After World War II, Taihoku Imperial University was reorganized as National Taiwan University. William Leslie Ko, Seth Mackay Ko's son, was admitted to the Department of Mechanical Engineering in 1946. These two alumni both witnessed the history of NTU.

Before passing away at 96, William Leslie Ko was a scientist, mathematician, inventor, and artist. Born in 1927, he witnessed the twists and turns of Taiwanese history across different eras. He was the first Taiwanese to receive a Ph.D. in aerospace engineering from "Caltech," the California Institute of Technology. A legendary figure, he went from working as a train conductor in Taiwan to the longest-serving NASA scientist (1977-2018) and was awarded the Distinguished Service Medal.

The story of Mackay's cross-generational contributions spans a variety of fields including medicine, education, missionary work, women's education, human rights, equality, history, literature, and music—and has developed into a combination in line with the STEAM (Science, Technology, Engineering, the Arts, Mathematics) of today. The MacKay family's history in Taiwan bears great educational value and is well worth reviewing, reflecting on, and reminiscing about.



| Seth Mackay Ko: Surviving through Interlaced Times.

Note: Dr. William Leslie Ko, a fourth generation MacKay in Taiwan, recently passed away on April 9, 2022, Taiwan time, just one month after observing the sesquicentennial of George Leslie Mackay's arrival in Taiwan. This exhibition reflects the Mackay family's profound love for Taiwan that transcends time and space, as well as Dr. Ko's passion for this land and the NTU campus.



Dr. William Leslie Ko: From Train Conductor to NASA Legend.

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