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臺科大 Taiwan Tech

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邀請各位師長、學生一同來閱讀,深知校內大小事 Invite all teachers and students to read together, to have a deep understanding of the big or small events on campus.

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臺科大碩士生研究固態電池 獲全額獎助赴美最大材料會議演講 A master's student from Taiwan Tech conducting research on solid-state batteries has been awarded full funding to attend and deliver a presentation at the largest materials conference in the United States.

2023-05-31



的美國材料年會(Materials Research Society, MRS)以全英文進行口頭演講,是該議程唯一碩士生 、高影響力研究員、以及國際名校博士生。而國內研究生參與國際研討會,大多受國科會補助,極少數研究生獲得傑出人才發展基金會變助,吳翊慈同學以碩士研究演講並 獲獎助,實在難能可貴。...點擊看更多

computer-based atomistic modeling to predict the properties of materials for solid-state batteries. Using first-principles material calculation methods, she has focused on studying the interface aging issue in high-safety solid-state batteries. In recognition of his outstanding achievements, Ms. Wu has been selected as the only master's student to deliver an oral presentation in English at the prestigious Materials Research Society (MRS) annual meeting, which is regarded as the largest materials science conference in the world. Additionally, she has received full funding from the Foundation for Outstanding Talent Development and the National Science Council, covering her travel expenses, including airfare to San Francisco.

Ms. Yi-Tzu Wu, a second-year graduate student in the Department of Mechanical Engineering at Taiwan Tech, under the guidance of Assistant Professor Ping-Chun Tsai, has utilized

Under the guidance of Professor Ping-Chun Tsai, Ms. Wu specialized in utilizing first-principles material calculation methods and computer simulations to investigate the interface stability of solid-state batteries, specifically focusing on the interaction between the positive electrode and electrolyte in solid-state batteries. By successfully elucidating the factors contributing to interface aging, Ms. Wu's research not only saved time and costs associated with experimental operations but also provided advanced predictive and quantitative capabilities for interface stability that are challenging to achieve through conventional experimental techniques....more

臺科大畢典頒授莊子華名譽博士 陳劍威分享人生體悟 畢聯會自編舞蹈 Taiwan Tech confers honorary doctorate to Mr. Zi-Hua Zhuang. Mr. Jian-Wei Chen enlightens the audience with his profound life reflections. The Graduation Association presents a self-choreographed dance performance.

Breakthrough in Hydrogen Energy Dilemma: An Inter-University Team led by Professor Bing-Zhao Huang from Taiwan Tech uses Iodine Waste

2023-05-31

2023-05-22



事長,同時也是摵訊集團總經理,在專題演講時分享人生歷程的一些體悟:「熱情」投入、保持「樂觀」、感受「樂趣」。25年前創立摵訊科技是生產顯示卡 了,真的都感受到極大的「樂趣」,這樣的過程會發現,將可以做到比原本想像的更多事情。...點擊看更多 On the 27th, Taiwan Tech held its graduation ceremony, which featured a keynote speech by Mr. Jian-Wei Chen, Chairman of the Alumni Association, and the conferral of an honorary doctorate upon Mr. Zi-Hua Zhuang, Chairman of Longyuan Holding and an esteemed alumnus of the university. This year, the number of graduates from Taiwan Tech is

approximately 2,965, with around 275 international students, accounting for 9.2% of the total. A notable highlight of the event was the heartfelt address delivered by the representative speaker for the international students, Mr. Darmawansah - an Indonesian student, who eloquently articulated the transformative power of education in shaping personal growth and paving the way for a brighter future. In addition to the insightful speeches, the Graduation Association organized a captivating dance performance titled "Unlock," symbolizing the unlocking of potential and the discovery of individual talents. Furthermore, the New Century Choir students presented a new rendition of the university's anthem, infusing it with renewed energy and passion. The aim was to

encourage students to break free from limitations, showcase their expertise and uniqueness, and find their own shining stage for the future. Mr. Jian-Wei Chen, Chairman of the Taiwan Tech's Alumni Association and also the General Manager of TUL Corporation, shared profound insights from his life journey during his keynote speech: "Passion," "Optimism," and "Enjoyment."....more



子氧化產氫,不但可以大量降低過程中的用電,提升能源效率,更可以產生有價值的碘或碘化物。...<u>點擊看更多</u>

New Developments in Hydrogen Energy! With the global trend shifting towards green energy, Taiwan has launched the "2050 Net-Zero Emission" strategy, aiming to significantly increase the proportion of renewable energy sources. To achieve this goal, the utilization of hydrogen energy will play a crucial role. On the one hand, hydrogen is a clean fuel that

only produces water when used for power generation, eliminating emissions of waste gases. Furthermore, "hydrogen production" serves as a method for storing electrical energy, known as "Power-to-X (P2X)". "P2X" represents an energy storage method that converts surplus electrical energy from renewable sources into gas or liquid forms. The anticipated future instantaneous power generation from renewable sources is expected to exceed current demand, thereby creating a discrepancy between power generation and actual electricity consumption. Therefore,

finding ways to store surplus energy during periods of high power generation becomes a pivotal issue. Hydrogen production and storage are among the approaches to address this challenge. However, the commonly used method for hydrogen production, water electrolysis, which involves passing an electric current through water to produce hydrogen and oxygen, requires a significant amount of electricity and incurs substantial costs, posing numerous difficulties in its development.... more 2023臺科大SDGs英文簡報競賽 培養解決問題及英文口語能力

The 2023 Taiwan Tech SDGs English Presentation Competition aims to cultivate problem-solving and oral English skills.

目標(Sustainable Development Goals)與提升學生英語簡報能力,臺科大語言中心於5月12日舉辦「2023第二屆臺科大聯合國永續 理解議題,並能培養解決問題之能力。除此之外,透過本次英文簡報競賽,亦能增進本校學生之英語口語能力。本次英文簡報競賽,初選共有13組,共38位學生,針對聯合國永續發展

2023-05-18



質的教育,及提倡終身學習),次議題分別為目標一:No Poverty (消除各地一切形式的貧窮)、目標三:Good Health and Well-being for People (確保健康及促進各年齢層的 福祉)、目標五:Gender equality (實現性別平等,並賦予婦女權力)、目標十:Reduced Inequalities (減少國內及國家間的不平等)、與目標十三:Climate Action (採取緊急措施以因應氣 候變遷及其影響)與目標十六:Peace, Justice and Strong Institutions (促進和平多元的社會,確保司法平等,建立具公信力且廣納民意的體象)。<u>....點擊看更多</u> In an ongoing effort to promote the United Nations Sustainable Development Goals (SDGs) and enhance students' English presentation skills, the Language Center of Taiwan Tech held the "2023 2nd Taiwan Tech SDGs English Presentation Competition" on May 12th. Building upon the success of the inaugural competition held last year, this year's competition aims to deepen students' understanding of the SDGs and their related issues, while encouraging them to express their perspectives and propose solutions to these issues. By

competition serves as an opportunity for students to enhance their oral English skills. In this English presentation competition, the preliminary round of the competition featured a total of 13 teams comprising 38 students who proposed solutions related to the issues within the United Nations Sustainable Development Goals. To broaden students' comprehension of the SDGs, this year's competition format integrated a main theme with six sub-themes, allowing participants to select one out of the six. The main theme for this competition was Theme 4: Quality Education (Ensuring Inclusive and Equitable Quality Education and Promoting Lifelong Learning). The sub-themes included Goal 1: No Poverty, Goal 3: Good Health and Well-being for People, Goal 5: Gender Equality, Goal 10: Reduced Inequalities, Goal 13: Climate Action, and Goal 16: Peace, Justice, and Strong Institutions. ...more 2023-05-16 Integrating local fruits with the international D&AD Pencil competition, Professor Gen Li from Taiwan Tech has led a team to win numerous

engaging in this competition, participants are expected to foster comprehension of the topics but also develop problem-solving abilities. Additionally, this English presentation



彎展」主視覺的設計概念,就是要揭開D&AD的神秘面紗,由李根在發想,設計所同學杜浩瑋執行,將D&AD的五種獎項,「木鉛筆獎」、「石墨鉛筆獎」、「黃鉛筆 Associate Professor Gen Li from the Department of Design, Taiwan Tech, led a team of graduate students in organizing the "British D&AD Design and Advertising Awards Annual Exhibition," which received recognition in the "Communication" category of the "Campaigns/Advertising" segment at the prestigious 2023 German iF Design Awards. The iF Design

臺科大設計系副教授李根在帶領研究生舉辦「英國D&AD設計及廣告大獎年度展覽」,獲得2023年德國iF設計獎「满通(Communication)」項目「活動/廣告(Campaigns /

Advertising) 」類別的肯定。iF設計獎由德國國際論壇設計有限公司(International Forum Design GmbH)舉辦,歷史悠久,堪稱設計界奧斯卡獎,2023年就有來自56個國家、將近

Art Directors Club Annual Awards, Red Dot Communication Design Award, Asia's Most Influential Design Award, and Taiwan 4A Creative Award. The D&AD Taiwan Exhibition aims to unveil the mysterious facade of D&AD. Each year, the award-winning works of the D&AD Awards are showcased in cities such as Tokyo, Paris, Shanghai, and Melbourne through touring exhibitions. However, Taiwan has never had the opportunity to host such an exhibition. The design concept of the exhibition's main visual, conceptualized by Professor Gen Li and executed by his fellow design student Hao-Wei Du, involves revealing the essence of D&AD. The five categories of D&AD awards, namely the Wood Pencil, Graphite Pencil, Yellow Pencil, Black Pencil, and White Pencil, are symbolically dissected, and Taiwanese fruits are placed inside each pencil to showcase the local characteristics. ...more 2023-05-15

科大設計系畢業展已於11日正式展開,去年疫情影響下,同學們紛紛針對遠距生活提案,今年作為「後疫情」的一年,展覽數從過往的40幾組一口氣躍升到65組

顏家鈺表示,臺科大設計系在國際知名的紅點、旷設計獎中都有亮眼的表現,特別鼓勵同學不只是關注臺灣,也可以看到全世界。文化部次長李連權提到,臺科大為重要的人才培育中

Awards, hosted by the International Forum Design GmbH in Germany, are renowned as the Oscars of the design industry. In 2023, it attracted nearly 11,000 entries from 56 countries participating in the competition. Prior to this achievement, the exhibition and visual design had already garnered numerous domestic and international awards, such as the New York



議題及交通工具設計,改良原本...點擊看更多 The Department of Design, Taiwan Tech's annual graduation exhibition officially commenced on the 11th, marking a significant event in the academic calendar. Last year, amidst the impact of the pandemic, students

enthusiastically proposed ideas related to remote living. However, this year, being a "post-pandemic" year, the exhibition has witnessed a remarkable increase in the number of displays, jumping from the previous 40+ projects to an impressive total of 65 projects. The themes explored by the students encompass a wide spectrum, ranging from the circular economy and disaster response to local revitalization. Through their endeavors

professional journeys and contributing to society. President Jia-Yush Yen of Taiwan Tech acknowledged the remarkable accomplishments of the Department of Design in prestigious international competitions such as

in product design, packaging design, service design, visual communication design, and more, these graduating students courageously present their visions of transforming the world before embarking on their

the Red Dot Design Award and the iF Design Award. He particularly encourages students to broaden their horizons beyond Taiwan and embrace a global perspective. Deputy Minister Lien-Chuan Lee of the Ministry of Culture emphasized the university's pivotal role as a center for cultivating talents and expressed the ministry's anticipation for further collaborations. He further underscored the importance of "cultural technology" in Taiwan's industries, asserting that the future development of the brand economy would require the integration of culture, technology, and design. Design plays a crucial role in merging content and hardware to create 2023-05-11 教育部與臺科大、國立科技大學校院協會、私立科技大學校院協進會、專科學校教育聯盟於5月10日攜手舉辦「2023未來技職教育論壇」,以【突破思維酱框架,技職未來無



「重塑價值 翻轉技職發展」、「破框思維 培育無限人才」及「國際視野 建構永續未來」。「2023未來技職教育論壇 司長擔任與談嘉賓,楊司長於與談時提到台灣的技職教育都是非常務實的培養學生,技職學生的出路及就業也都很不錯,應該要讓更多的國中小老師、家長,甚至是國外的學生都能夠 認識技職人才培育路徑的優點。...點擊看更多 The Ministry of Education, in collaboration with Taiwan Tech, National Association of Technological Universities and Colleges, Private Technological Universities and Colleges Joint Promotion Association, and Vocational School Education Alliance, jointly hosted the "2023 Future Technical and Vocational Education Forum" on May 10th. Under the overarching theme "Breaking the Boundaries of Traditional Thinking: Endless Prospects for the Future of Technical Education," the forum featured a combination of short talks and interactive panel discussions. The representatives from the Ministry of Education, technical and vocational institutions, high schools, vocational schools, and the industry gathered collectively to explore the advancement of technical education. Through breaking away from past frameworks and fostering collaborative efforts, the aim was to

issues were identified: "Reshaping Values and Transforming Technical and Vocational Development,....more 2023-05-08 Professor Wei-Hwa Chiang from Taiwan Tech will deliver a speech, "Performance Architecture: The Symphony of Aesthetics and Functionality", sharing 表演建築廳堂專業設計人,臺科大教授江維華出版『表演建築:美感與功能的交響』,期盼與大家分享人與空間如何共譜交響樂 『所謂聲學設計,就是要如何控制空間大小、形狀、材質,讓它在好聽的同時,還能有相當程度創意發揮』江維藝這麼定義,每個環節要如何落實都是大學問!江維華參與過日本建築

reshape the landscape of technical education in Taiwan. Technical and vocational colleges and universities have the mission of fostering the development of technical and vocational education and the responsibility of cultivating excellent technical and vocational talents. Taiwan Tech has organized three consensus-focused symposiums for principals on April 12, 18, and 19, respectively, in the northern, central, and southern regions These symposiums aimed to consolidate the technical and vocational colleges' consensus on the development of technical and vocational education in Taiwan. Through these previous principal symposiums, three key



師伊東豐雄委託臺科大團隊製作的「台中歌劇院」大廳聲學模型(亦為台方大矩聯合建築師事務所顧問)及大元聯合建築事務所承接的『屏東演藝廳』兩大指標性案件。江維華說「台灣 設計人才雖多,但在設計前的計畫,卻經驗不足,『題目制定』偏弱,加上如果是國內建築師領銜的案件,工程預算和服務費用偏低,監造責任過重,讓處理過程更顯辛苦」。因此江 維華往往不只是擔任聲學顧問,連席位安排等相關事項,都會親自投入,正因作品複雜又獨特,溝通更顯重要,如同在交響樂團每個人,如何分工又協調,能夠磨合出名方都滿意的成 果,是非常有挑戰的事。點擊看更多

after many years, he has published a book titled "Performance Architecture: The Symphony of Aesthetics and Functionality". In this book, Professor Chiang shares his practical experiences and expertise in performance architecture and acoustic design with the readers. The term "acoustic design" refers to the process of controlling the size, shape, and material of a space in a way that not only produces pleasant sound, but also allows for a certain level of creativity," as defined by Wei-Hwa Chiang. Successfully implementing each element of this complex process requires a significant degree of expertise and knowledge. Professor Chiang has lent his expertise as a consultant to two significant projects: the acoustic model of the main hall of the Taichung Metropolitan Opera House commissioned by the renowned Japanese architect Toyo Ito and developed by a team at Taiwan Tech (with Professor Chiang also advising local architect Kris Yao); and the Pingtung Performing Arts Center carried out by the DYWIDAG-Systems International and CECI Engineering Consultants, Inc. 2023-05-05 Taiwan Tech promotes internationalization in teacher education by providing assistance to Kenya in its transition towards a new era of digital

Do you know that when we attend music concerts, opera performances, or outdoor theater shows, the beautiful melodies on the stage reach our ears through precise hardware design at every link? Professor Wei-Hwa Chiang from the Department of Architecture at Taiwan Tech is the mastermind behind these intricate engineering feats. Drawing upon his extensive research and collaboration with industry, government, and academia

非洲受限地理位置,多是單方面資源投入合作模式,較少雙向溝通。臺科大數位所與台飛國際志工交流協會合作,融合資訊科技和STEAM教學,與肯亞進行遠端雙向師資培育工作 坊。歬亞老師沒有接觸過相關教育訓練,對設備安裝操作及教學都很陌生,臺科大師培工作坊將AR和VR技術應用到教學中,透過課程培訓老師運用數位工具輔助教學,建立資訊教學 另外,由臺科大師培生設計教案,偕同廣橋國際學校國中生、肯亞中學生於今 (2023) 年3月到4月間辦理五週「創新跨國共學」,以聯合國永續發展 (SDGs) 和社會情緒學習(Social 肯亞的REHEMA SAIDI KAKAI說:「在這次的課程中我學會接受自己的錯誤! ,並在需要幇助的時候懂得適時的向大人求助與傾訴。在課程中學會同理他人,也學會了如何幇助那些正

國立臺灣科技大學數位學習與教育研究所諉鍋線上視訊與貨亞進行師資培訓工作坊、辦理遺端創新跨國共學課程,運用數位科技教育融入混成式教學,協助貨亞推動數位教育

Taiwan Africa International Services Organization has brought about a significant change. The integration of information technology into STEAM teaching and the organization of remote two-way teacher training

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Graduate Institute of Digital Learning and Education at Taiwan Tech has been conducting teacher training workshops and remote innovative cross-border learning courses with Kenya via online video conferencing. The use of digital technology and blended teaching approaches has enabled Taiwan Tech to effectively support Kenya in promoting digital education. Due to geographical constraints, Taiwan and Africa have mainly relied on one-way resource investment cooperation models, often resulting in limited two-way communication. However, the collaboration between Taiwan Tech - Graduate Institute of Digital Learning and Education and the workshops with Kenya have facilitated more effective and interactive communication.

As Kenyan teachers lack prior exposure to relevant education training and are unfamiliar with equipment installation and operation, the Taiwan Tech teacher training workshop has incorporated AR and VR technology into teaching. Through the curriculum training, teachers are equipped with the skills to use digital tools to assist teaching and establish an information teaching system. ...more

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