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國立臺灣科技大學 Taiwan Tech

# 十月份電子報

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編輯：秘書室公共關係組



臺科大  
TAIWAN TECH



NEWS 校內新聞快報





**HOT NEWS**

# 臺科大 Taiwan Tech

**校內新聞快報【十月・第08期】**

**School News Bulletin, October, Issue 08**

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## 臺科大3作品奪紅點設計概念獎 連續三年獲得紅點設計排行榜亞太第一

### Taiwan Tech wins Red Dot Design Concept Awards for the third consecutive year, securing the top spot in the Red Dot Design Ranking for the Asia-Pacific region

2023-10-30



2023年德國紅點設計概念獎(Red Dot Award)共有來自全球將近4000件作品參賽，最終評選出188件紅點獎作品。國立臺灣科技大學以「虛擬實境百變搖桿(Unitstick)」、「RTV-快速醫療指揮車(RTV-Rapid Treatment Vehicle)」、「可拆式桌子(Detachable table)」3件作品獲得紅點設計概念獎(Winner)。此外，臺科大連續三年蟬聯紅點設計排行榜亞太第一的殊榮，豐沛的設計與創新能力備受國際肯定。

博士班二年級學生何繼偉以榫卯為主題，設計出未使用任何金屬螺絲，完全使用櫟木進行拼接組裝的「可拆式桌子」獲得紅點設計概念獎肯定，這已經是他第四次獲得紅點設計獎。何繼偉並非家具設計專業出身，他在產品創新的同時更看重合理性，他認為造型簡潔與扁平化的家具更符合市場需求，在產品收納、拆裝使用的方便性也相當重要。指導老師陳建雄指出，拆卸後的扁平化型式有利於包裝及運輸，符合現今強調的節能減碳及永續設計理念。[...點擊看更多](#)

In 2023, the Red Dot Award, a prestigious international design competition in Germany, featured nearly 4,000 entries from around the world, ultimately selecting 188 works for the Red Dot Award. Taiwan Tech secured the Red Dot Design Award (Winner) for three outstanding creations: the "Unitstick" – a versatile virtual reality controller, the "RTV-Rapid Treatment Vehicle" – a fast-response medical command vehicle, and a "Detachable table" designed for easy assembly without the use of any metal screws, crafted entirely from beechwood. Taiwan Tech has also earned the remarkable title of being the top-ranked institution in the Asia-Pacific region for the third consecutive year in the Red Dot Design Ranking, a testament to its rich design and innovation capabilities that have gained international recognition.. [...more](#)

## 臺科大EMI教學支援團隊辦公室揭牌 臺美共同推動國際技職人才培育

### Taiwan Tech EMI Teaching Support Team Office Unveiling: Taiwan and the United States Collaborate to Promote International Vocational Talent Development

2023-10-24



為提升國際溝通能力與拓展學生全球視野，國立臺灣科技大學今(24)日舉行「EMI教學支援團隊辦公室」揭牌儀式，由學術交流基金會協助媒合全英語授課(English as a Medium of Instruction,EMI)教學支援團隊進駐校園，期待透過EMI教學支援團隊的參與，為國際技職人才培育注入新的動能。臺科大自110學年度起推動教育部大專校院學生雙語化學習計畫，以培育國際高階科技人才，積極協助提升產業及國家整體競爭力。112學年度開始與學術交流基金會(Fulbright Taiwan, Foundation for Scholarly Exchange, FSE)合作，促進EMI教師增能、提升技職學生英語能力及建置雙語校園等計畫，致力打造科技大學雙語教育環境。學術交流基金會執行長那原道博士(Dr.Randall Nadeau)表示，可能有許多老師對全英語教學敬而遠之，但此次團隊進駐，希望可以透過「EMI教師增能培訓」、「EMI TA培訓」等，帶給老師們資源與自信，建構多元化與國際化的校園環境。在學生方面，還有學術英語諮詢輔導、英文履歷與書信指導等課程，他期望透過臺美的教育合作，協助提升技職人才國際化，為臺灣雙語人才培育奉獻一份心力。[...點擊看更多](#)

To enhance international communication skills and expand students' global perspectives, Taiwan Tech held an "EMI Teaching Support Team Office" unveiling ceremony on October 24, 2023, with assistance from the Academic Exchange Fund in matching a team dedicated to English as a Medium of Instruction (EMI) to the campus. The university anticipates that the participation of the EMI Teaching Support Team will inject new vitality into the cultivation of international vocational talent. Since the academic year 2021, Taiwan Tech has been implementing the Ministry of Education's Higher Education Bilingual Learning Program for cultivating international, high-level technology talents. This initiative actively assists in enhancing both industrial and national competitiveness. [...more](#)

## 臺科大機械碩士生獲補助赴美參加化學年會，全英發表鋰電池新型單晶正極分析技術

2023-10-23



## A master's student from Department of Mechanical Engineering at Taiwan Tech received a subsidy to attend a chemistry annual meeting in the United States and delivered a presentation in English on the analysis of a new single crystal cathode technology for lithium batteries



臺科大機械工程系碩士生曾啟恩，於蔡秉均助理教授實驗室中，研究鋰電池多晶與單晶的倍率性能量測，成果獲得美國化學年會 ( American Chemical Society · ACS ) 於今(2023)年秋季會議全英文口頭發表。他是「鋰電池與鈉電池議程」的59位演講者中，唯一碩士生發表者。更榮幸接受傑出人才發展基金會及國家科學委員會的共同獎助，資助曾啟恩至美國舊金山的機票和生活旅費。曾啟恩於大四下主動提早加入蔡秉均老師的研究團隊，共同執行國科會「整合第一原理計算及單顆粒電極量測於鋰電池新型正極單晶粉體開發」研究計畫，曾啟恩解釋，目前大家都在研究如何讓手機和電動車所使用的鋰電池延長壽命並且充電更快，三元正極材料具備高電容量與低成本等優勢，然而傳統多晶正極於循環中會產生正極顆粒破裂，進而導致嚴重的容量衰退。...[點擊看更多](#)

Chi-En Tseng, a master's student in the Department of Mechanical Engineering at Taiwan Tech, conducted research on the rate performance measurement of lithium battery polycrystals and single crystals in the laboratory of Assistant Professor Bing-Chun Tsai. His achievements were presented in English at the 2023 Fall Meeting of the American Chemical Society (ACS). Among the 59 speakers at the "Lithium and Sodium Battery Symposium", he was the only master's student presenter. Furthermore, he had the privilege of receiving joint sponsorship from the Foundation for the Talented and the National Science Council, which funded Chi-En Tseng's flight to San Francisco, USA, and covered his living expenses...[more](#)

## 臺科大「城南講堂」廣邀三校系統學者與通識教育專家共談通識專業化

The "South Side College" of Taiwan Tech invites scholars and general education experts from three universities to discuss general education professionalization

📅 2023-10-20



國立臺灣科技大學為發揚共同教育精神，於今 ( 112 ) 年10月20日邀請多位學者分享通識深化及社會創新理念。於「通識專業化」專題邀請勤益科大劉柏宏教授、臺科大王維君教授進行演講；「課程規劃」部分邀請政治大學通識中心馬藹萱主任、屏東大學賀瑞麟院長、彰化師範大學李靜芳教授分享觀點；「社會實踐」主題邀請三校系統代表：臺科大邱建國主任、臺灣師範大學蘇淑娟教授、臺灣大學張安明組長，探討身處臺北城南區域需承接的發展義務及社會創新內涵城南講堂開場前，首先舉行臺科大「通識抵萬金」頒獎典禮。為活絡校內通識教育風氣、建立學生與老師間的交流，通識抵萬金活動以杜甫「家書抵萬金」詩句為發想，集結學生投票、徵稿活動顯化教師在課程規劃及教學態度的熱忱、提供學生反饋修課心得機會，展現臺科大通識課程多元性。臺科大期盼透過該活動持續增加優質課程能見度，讓通識特色得以發光發熱。...[點擊看更多](#)

To promote the spirit of general education, Taiwan Tech invited several scholars to share ideas about the deepening of general education and social innovation on October 20, 2023. In the "General Education Professionalization" section, Professor Po-Hung Liu from National Chin-Yi University of Technology (NCUT) and Professor Wei-Chun Wang from Taiwan Tech delivered speeches. In the "Curriculum Planning" section, the Director of the General Education Center from National Chengchi University, Ai-Hsuan Ma, and the Dean of National Pingtung University, Rui-Lin He, and Professor Jing-Fang Li from National Changhua University of Education shared their perspectives. Under the theme of "Social Practice," representatives from three universities, Director Chien-Kuo Chiu from Taiwan Tech, Professor Shu-Juan Su from National Taiwan Normal University, and Team Leader An-Ming Zhang from National Taiwan University, discussed the development obligations and social innovation context in the southern area of Taipei. ...[more](#)

## 臺科大團隊發表新書《未來藝世界：AI 繪圖新旅程》重新定義藝術之美

The team from Taiwan Tech has released a new book, "AI Arts Styles of the Future: A Non-technical Introduction to AI drawing," redefining the beauty of art

📅 2023-10-17





國立臺灣科技大學數位學習與教育研究所黃國禎講座教授率領團隊於9月發表新書「未來藝世界：AI 繪圖新旅程」，為生成式人工智慧應用開創新的里程碑。作者黃國禎教授指出，「坊間很多的書籍，都著重在AI繪圖的指令介紹，比較像是工具書；而這本書的目的，是要引導大家鑑賞AI藝術之美。」近年AI繪圖系統Midjourney的多元應用在全世界掀起一股風潮，有許多教師及教育單位也將AI繪圖生成技術加入課綱當中，將創意與新興科技進行結合，展現藝術創作的價值與魅力。臺中教育大學郭伯臣校長除了為本書撰寫推薦序外，也親臨新書發表會表達支持，他表示，「未來藝世界：AI 繪圖新旅程」是融合人工智慧與藝術創作的極致構思，尤其永續發展目標(SDGs)的主題，充分表現對地球的關懷，更讓這本書具有非凡的教育意義與參考價值。[...點擊看更多](#)

Professor Gwo-Jen Hwang, Chair Professor of the Graduate Institute of Digital Learning and Education at Taiwan Tech, led a team to publish a new book titled "AI Arts Styles of the Future: A Non-Technical Introduction to AI Drawing" in September, marking a new milestone in the application of generative artificial intelligence. Professor Gwo-Jen Hwang, the author, pointed out, "Many books on the market focus on instructing AI drawing, resembling instructional guides. The objective of this book, however, is to guide readers to appreciate the beauty of AI art". In recent years, the widespread adoption of the AI drawing system, Midjourney, has sparked a global trend. Many educators and educational institutions have incorporated AI drawing generative technology into their curricula, combining creativity with emerging technologies to showcase the value and allure of artistic creation. [...more](#)

## 臺科大師資生前進偏鄉辦營隊 用互動機器人、機械手臂帶領學童探索新科技

**Taiwan Tech Master's students head to rural areas to organize camps using interactive robots and mechanical arms to guide children in exploring new technologies**

📅 2023-10-16



國立臺灣科技大學師資培育中心於暑假期間帶領25位師資生前往新北市金山高中附設國中部以及臺東縣立綠島國民中學辦理營隊，以資訊科技素養為主軸，安排互動機器人、機械手臂、Arduino系統實作等課程。此外，還設計實作課程協助綠島國中學生完成專題發想並參加創意發明競賽，提升國中實作能力與問題解決力，同時也培養師資生宏觀視野和奉獻精神，期許能讓偏鄉學子從中探索未來志向。這是師培中心自疫情後首次復辦暑期營隊，由臺科大數位學習與教育研究所所長暨師培中心主任王嘉瑜教授領軍、曾厚強教授與洪銘國教授分別帶領一群充滿熱忱的師資生前往金山高中附設國中部以及綠島國中，共同「發揮史懷哲精神，扶持偏鄉學子」，引導學童在科技時代探索多元的領域，例如：組裝機械手臂、獨立完成簡報與網頁設計等，學生也充分揮灑創意，展現出勇於探索未知的精神。[...點擊看更多](#)

During the summer break, Taiwan Tech's Teacher Education Center led 25 teacher education students to conduct camps at Jinshan High School Junior High Division in New Taipei City and Green Island Junior High School in Taitung County. The main focus of the camps was on information technology literacy, with courses featuring interactive robots, mechanical arms, Arduino system implementation, etc. Additionally, practical courses were designed to assist Green Island Junior High students in developing project ideas and participating in creative invention competitions, enhancing the junior high students' practical skills and problem-solving abilities. Simultaneously, the initiative aims to cultivate the teacher education students' broad perspectives and spirit of dedication while encouraging rural students to explore future aspirations through these activities. [...more](#)

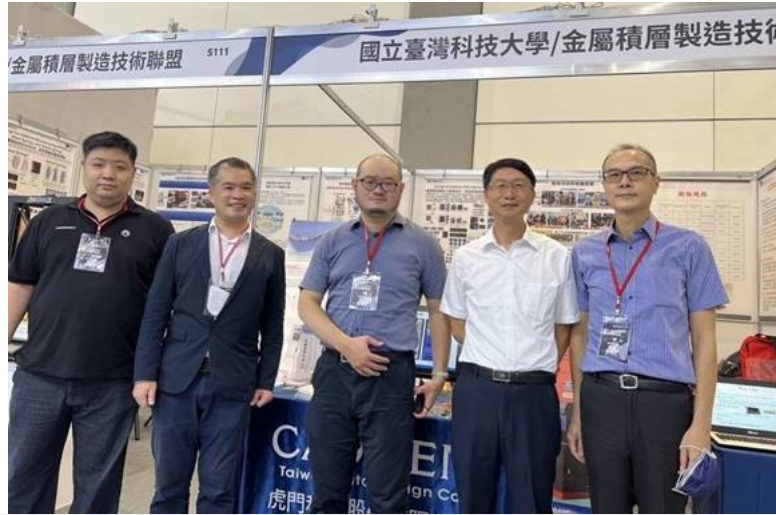
## 臺科大加盟臺灣五金展 攜手金屬積層製造技術聯盟展示最新製造技術

**Taiwan Tech joins Taiwan Hardware Show to showcase cutting-edge manufacturing technologies in collaboration with metal additive manufacturing technology alliance**

📅 2023-10-13

臺灣五金展將於10月18日至20日在南港展覽館盛大展開，為深化產學界的交流與合作，國立臺灣科技大學也受邀參與布展、展示最新的製造工藝、產品及應用，向國際充分呈現臺灣硬實力。臺科大臺灣高速3D列印研究中心謝志華助理教授更受邀在展會上探討金屬在積層製造上的技術與應用。今年移師台北的臺灣五金展是疫情後首次擴大舉辦，結合「金屬材料」、「精密加工設備」、「五金」及「工業暨職業安全」四大主題，與產業界共同探





究科技最新趨勢，現場也會舉行「產業論壇」、「VR數位科技」、「新品發表」、「設計競賽」、「DIY」等活動，與現場廠商與參展民眾分享產業最新資訊及技術。[...點擊看更多](#)

"The Taiwan Hardware Show" is scheduled to take place at the Nangang Exhibition Center from October 18 to 20, 2023. Taiwan Tech has been invited to participate as part of an initiative to deepen collaboration and engagement between academia and industry, showcasing the latest manufacturing processes, products, and applications. This active involvement aims to showcase Taiwan's substantial capabilities on the international stage. Assistant Professor Chih-Hua Hsieh from Taiwan Tech's Taiwan High-Speed 3D Printing Research Center has also been invited to discuss metal additive manufacturing techniques and applications during the exhibition. This year, the Taiwan Hardware Show relocated to Taipei marking its first expansion since the pandemic. It includes four major themes: "Metal Materials," "Precision Processing Equipment," "Hardware," and "Industrial and Occupational Safety."[...more](#)

## 臺科大團隊研發超高速微透鏡陣列製造、吸濕產電電池 獲國科會未來科技獎

The team from Taiwan Tech has developed an ultra-fast micro-lens array manufacturing, moisture-absorbing power generation battery, and has won the National Science and Technology Council's Future Technology Award

2023-10-11



由國科會主辦、台灣學研界關鍵榮耀的「未來科技獎」日前公布得獎名單，臺科大機械系陳品銓特聘教授與化工系葉禮賢教授分別以「整合數位灰階、失焦法及新開發光固化樹脂於立體微影積層製造技術上，用於超高速製造高光學性能之微透鏡陣列」以及「全紙基環境吸濕產電電池」兩項前瞻科研技術榮獲2023未來科技獎。陳品銓教授指出，由於智慧製造、光通訊和3C產品應用需求提升，微透鏡陣列在近年來成為高潛力的精密光學元件。但一片普通的微透鏡陣列售價就高達1-2萬元，傳統上主要採用精密加工和微影蝕刻技術，有製造成本高、時間長的問題，因此陳品銓特聘教授團隊將數位灰階及失焦法，整合至數位光(DLP) 3D列印技術，將一組微透鏡陣列的製造時間縮短至10分鐘、成本壓低至100元，和市售產品相比，列印成品的解析度相當具有競爭力，且在數值孔徑和透鏡形貌上有著更大的設計彈性，有利於擴大微透鏡陣列可應用的範圍。[...點擊看更多](#)

The winners of the prestigious "Future Technology Award," organized by the National Science and Technology Council and representing a key honor in Taiwan's academic and research community were recently announced. Among the recipients are Professor Pin-Chuan Chen, holding a distinguished position in the Department of Mechanical Engineering, and Professor Li-Hsien Yeh, from the Department of Chemical Engineering at Taiwan Tech, who were recognized for their pioneering research in the field. Professor Pin-Chuan Chen shared insights into their awarded research endeavors. He highlighted the growing demand for smart manufacturing, optical communication, and applications in 3C products. Microlens arrays have emerged as high-potential precision optical components in recent years.[...more](#)

## 臺科大70位教授入選全球前2%頂尖科學家 人數再創新高

70 Professors from Taiwan Tech were selected as Top 2% Scientists Globally, achieving a new record

2023-10-07



國立臺灣科技大學共有70位教授入選史丹佛大學於2023年10月4日發布的2023年「全球前2%頂尖科學家榜單 (World's Top 2% Scientists)」，其中有55位教授進入「終身科學影響力排行榜 (1960-2022)」，45位教授進入「2022年度科學影響力排行榜」，扣除30位教授同時進入兩份榜單，共有70位教授入選，人數再創新高，為國內技職第一。以子領域 (subfield) 排名來看，臺科大教授在化工、營建以及AI影像在「2022年度科學影響力排行榜」、「終身科學影響力排行榜 (1960-2022)」均為全國第一，顯見臺科大研究成果備受肯定，於國際學術具有關鍵影響力。[...點擊看更多](#)

Taiwan Tech proudly announces that 70 of its esteemed professors have been selected for the 2023 "World's Top 2% Scientists" list released by Stanford University on October 4th, 2023. Among them, 55 professors have been recognized in the "Lifetime Scientific Impact Rankings (1960-2022)", while 45 professors were included in the "Annual Scientific Impact Rankings for 2022". Deducting the 30 professors who appeared on both lists, a total of 70 professors were selected, setting a new record and establishing our institution as a leader in vocational and technical education in Taiwan. In



terms of subfield rankings, professors from Taiwan Tech achieved the top position nationwide in the fields of Chemical Engineering, Construction, and AI Imaging in both the "Annual Scientific Impact Rankings for 2022" and the "Lifetime Scientific Impact Rankings (1960-2022)". This recognition underscores the significant acknowledgment of research achievements at our university, showcasing critical international academic influence. [...more](#)

## 「天下USR大學公民獎」臺科大五連霸 USR效益無限擴散 臺科前進南半球

**CommonWealth USR University Citizen Award": Taiwan Tech has been the champion for infinite diffusion of USR benefits for five consecutive years, advancing Taiwan Tech into the southern hemisphere**

📅 2023-10-04



由天下雜誌主辦的「2023天下USR大學公民調查」日前舉行頒獎典禮，國立臺灣科技大學連續5年榮獲公立技職大學榜首，代表領獎的劉志成副校長表示，臺科大的吉祥物代表為老虎與鴨子，除了運用兩者的英文諧音組合為臺科大(Tiger Duck)之外，也期許學生能夠在創新研發領域中發揮出老虎的膽識與衝勁，且能如鴨子般能游、能走，必要時刻亦能展翅飛翔，面對不同環境仍能保有十足的彈性與韌性，成為具有社會責任與全球關懷的新一代專業人才。回顧過去臺科大所執行的教育部USR計畫，師生無論是深入社區促進在地城南活化與認同、推動區域韌性防災，抑或是前往國際偏鄉，以大學所學知識及技術改善當地居民生活品質等皆有豐碩的成果，學生藉由USR計畫進行跨領域學習與提升公民意識，培養社會責任感並拓展國際視野，扎根科技大學人文關懷及創新思維。 [...點擊看更多](#)

The ceremony for the "2023 CommonWealth USR University Citizen Award," organized by CommonWealth Magazine, was recently held. Taiwan Tech has consecutively secured the top position among public vocational universities for five years. Vice President Ji-Cheng Liu, representing the university during the award presentation, mentioned that the university's mascots are a tiger and a duck. In addition to combining their English names to form "Tiger Duck" for the university's representation, he also expressed the hope that students can embody the courage and vigor of a tiger in the field of innovation and research. Furthermore, he encouraged them to be agile and adaptable like a duck—swimming, walking, and spreading their wings to fly when necessary. He emphasized the importance of maintaining resilience and flexibility in diverse environments, aspiring to nurture a new generation of professionals with social responsibility and global awareness. [...more](#)

## 2024泰晤士報世界大學排名 臺科大並列全國第三國際展望第一

**In the 2024 Times Higher Education World University Rankings, Taiwan Tech is in the third place nationally and ranks first in international outlook**

📅 2023-10-03



英國泰晤士報高等教育特刊 (Times Higher Education · THE) 9月27日發布「2024年世界大學排名」，國立臺灣大學排名世界第152名，為台灣排名最佳學校，國立臺灣科技大學列世界第401至第500名區間，與亞洲大學、清華大學、陽明交通大學與台北醫藥大學並列全國第三，臺科大在 International outlook(國際展望)項目排名全國第一，顯見臺科大國際化成果顯著，獲得各界高度肯定。2024世界大學排名的學校數量創新高，共有108個國家地區、1904所大學院校參與，採用18項績效指標為依據，包含教學、研究品質、研究環境、國際展望、產業共五大領域進行評比。 [...點擊看更多](#)

On September 27, the Times Higher Education (THE), a reputable British publication specializing in higher education, released the "2024 World University Rankings." National Taiwan University secured the 152nd position globally, making it the top-ranking institution in Taiwan. Meanwhile, Taiwan Tech featured within the range of 401 to 500 in the global rankings. It shares third position in the country with other esteemed institutions like Asia University, National Tsing Hua University, Yang Ming Chiao Tung University, and Taipei Medical University. Notably, Taiwan Tech excels in the "International Outlook" category, securing the top spot nationwide, underscoring its significant achievements in internationalization and receiving widespread acclaim. [...more](#)

## 臺科大葉芷妤擔任外交部青年大使 赴聖露西亞拚外交

📅 2023-10-02

## Chih-Yu Yeh from Taiwan Tech was appointed as Youth Ambassador for the Ministry of Foreign Affairs, heading to Saint Lucia to pursue diplomacy



臺灣科技大學應用外語系三年級葉芷妤同學入選112年外交部青年大使，於9月2日至11日，赴我國加勒比海友邦聖露西亞從事外交活動，正式拜會代理總督、參眾議長等政要之外，也在「臺露之夜」及參訪學校中，從事文化交流。葉芷妤表示，這次出訪聖露西亞，她負責英語宣傳介紹部分，除了拜會活動需要大量資料準備外，在行程中協助其他文化才藝專長的青年大使翻譯。這次出訪，她發現，官方拜會行程不是原先想像的容易，外交部提供舞台給青年大使們，事前需要充足準備，且節奏快速緊湊。面對需要及時調整的狀況，也要有彈性空間。相對於官方的拜會，她更喜歡像是餐聚的交誼場合，能在輕鬆對話中，瞭解實際情況。[...點擊看更多](#)

Chih-Yu Yeh, a third-year student from Department of Applied Foreign Languages at Taiwan Tech, was selected as the Youth Ambassador for the Ministry of Foreign Affairs in the 112th year of the Republic of China. From September 2 to 11, she engaged in diplomatic activities in Saint Lucia, a diplomatic partner in the Caribbean. During her visit, she formally met with the acting governor-general, as well as the speaker of the House of Assembly. Additionally, she participated in the “Taiwan-Saint Lucia Night” and engaged in school visits, promoting cultural exchange. During this visit to Saint Lucia, Yeh Chih-yu was responsible for the English language promotional and informational aspects. In addition to extensive preparation for the scheduled meetings, she also provided valuable translation assistance to fellow Youth Ambassadors, particularly those possessing expertise in cultural and artistic domains. Reflecting on the experience, Ms. Yeh noted that the official visit itinerary surpassed her initial expectations.[...more](#)