

Tamkang University Brings ‘Chemistry On The Go’ to Malaysia, Launches International Science Outreach Collaboration with Universiti Tunku Abdul Rahman

Campus focus

When science meets passion, a distance of 3,000 kilometers is no obstacle. The “Chemistry On The Go” program, jointly promoted by the Department of Chemistry and the Science Education Center under the College of Science at Tamkang University, officially expanded beyond Taiwan to Malaysia this April. On April 18, President Huan–Chao Keh led the Tamkang delegation to jointly host the launch ceremony of the “Chemistry Mobile Lab” with Universiti Tunku Abdul Rahman (UTAR) during the 30th anniversary celebration of the Tamkang University Alumni Association in Malaysia. The event symbolized the sharing of academic resources between the two universities and attracted significant media attention, including extensive coverage by Malaysia’s Sin Chew Daily, generating enthusiastic local responses. Launched in 2011 during the International Year of Chemistry, the “Chemistry On The Go” initiative has now entered its 15th year. The program’s name was originally coined by Tamkang University Chairperson Flora Chia–I Chang and has since become a well–known mobile science outreach brand. Through the collective efforts of the Department of Chemistry team, industry partners, the Alumni Association of Tamkang University in Malaysia, and educational foundations, a dedicated Chemistry Mobile Lab was built for UTAR. The vehicle is expected to tour the Chinese independent high schools throughout Malaysia to promote hands–on science education. Professor Bo–Cheng Wang, founder of the project and a faculty member in the Department of Chemistry, emphasized that the initiative represents not only the continuation of science education but also the passing on of the philosophy of “learning through enjoyment.” The launch ceremony was filled with excitement as President Keh presented a model of the Chemistry Mobile Lab to UTAR President Dato’ s Ewe Hong Tat, symbolizing the official launch of “Chemistry On The Go” in Malaysia.

President Keh noted that the collaboration would not only inspire students to experience the joy of learning science but also help them become more familiar with Tamkang University and explore future opportunities for higher education. President Ewe expressed gratitude for the partnership, describing it as the first international collaboration for the “Chemistry On The Go” initiative. He also expressed hope that this STEAM-oriented educational activity could eventually expand across all 11 ASEAN member states.

The science outreach initiative attracted substantial media attention in Malaysia. Sin Chew Daily, the country’s largest Chinese-language newspaper by circulation, dedicated a half-page feature to the event. The report praised the “mobile laboratory” model as highly appealing to schools in rural areas, noting its potential to bridge educational resource gaps between urban and rural communities while stimulating enthusiasm for science education.

In an interview with Sin Chew Daily, Academic Vice President Hui-Huang Hsu stated that UTAR is one of Tamkang University’s key sister universities. Discussions on collaboration had already begun in 2017 under Taiwan’s New Southbound Policy, though the initiative was temporarily postponed due to the pandemic before being relaunched in 2024. Last April, a faculty delegation from UTAR visited Taiwan and joined the Chemistry Mobile Lab team on visits to local high schools to observe the operation of science outreach activities firsthand. Hsu explained, “Based on a shared educational philosophy, the two universities hope to transform the traditionally dull image of science learning through fun and interactive approaches, cultivate more scientifically literate talent across Southeast Asia, and fulfill the social responsibility of universities in advancing international engagement. The program also plans to send students to Malaysia to travel with the Chemistry Mobile Lab throughout the country to promote science outreach education, allowing them to gain international experience through service while creating greater benefits from the collaboration.”

Department of Chemistry Chair Chih-Hsin Chen expressed appreciation to Vice

President Hsu for supporting the project, including chairing preparatory meetings for the “Chemistry Mobile Lab to Malaysia” initiative and coordinating assistance among university offices. Chen also thanked Vice President for International Affairs Hsiao-Chuan Chen for inviting principals from several Chinese independent high schools in Malaysia to participate, thereby enhancing the initiative’s outreach impact. Chen further revealed that, in addition to science outreach promotion, the delegation also discussed substantive academic and student exchange collaborations with UTAR’s Faculty of Science and Faculty of Engineering. Plans include utilizing Taiwan’s Ministry of Education “Taiwan Experience Education Program” to provide UTAR senior students with three-month research internships at Tamkang University. The initiative is expected not only to strengthen students’ research capabilities and academic development, but also to encourage outstanding students to pursue graduate studies at Tamkang University, further deepening bilateral talent exchange.





李 佳 德



左圖：嘉賓欣慶淡江校友會創會30周年。前排左六起是陳小雀、連玉華、何宇瑜、葛煥昭、彭茂和、蘇玉龍、尤芳達、杜書亮、許輝煌和彭春陽。

右圖：許輝煌（左起）、尤芳達及陳志欣在訪談中指出，兩校共同理念攜手合作，推廣化學科普及教育，並期望借此培育更多多元的理科人才。

優大淡江大學跨校合作

推“化學遊樂趣” 科普教育



拉曼大學與淡江大學展開合作，近期在全馬推動流動的化學科普及教育計劃，帶領學生動手進行趣味實驗。（取自化學游樂趣臉書）

（加影19日訊）拉曼大學與台灣淡江大學正式展開合作，在全馬推動“化學游樂趣”科普教育計劃，以流動“化學車”的形式走入中學校園，通過趣味實驗激發學生對科學的興趣。

這是一項化學教育推廣服務計劃，藉由改裝的“行動化學車”和大學理科生組成的“化學車隊”，載著實驗器材和科學遊戲巡迴校園，把化學研究的種子撒播到全國各地。

馬來西亞留台淡江大學校友會配合創會30周年，于周六舉辦2026年“開淡”鮮米！30囉嚨好！聯歡晚宴。活動重頭戲之一，是拉曼大學校長拿督尤芳達與淡江大學校長葛煥昭共同見證“化學車”推介禮。

尤芳達：
启发趣味性学习体验

尤芳達致詞時表示，這項計劃是兩校合作的重要里程碑，也是淡江大學化學系推動“化學游樂趣”（Chemistry On The Go）的首次跨國跨校合作。項目发起人、淡大化學系教授王伯昌率隊親自移交拉曼大學，讓跨越3000公里的科普項目在我國延續與發展。

他指出，這不僅是科學教育項目的延續，更是“寓教於樂”理念的傳承。“我衷心希望將這份啟發性與趣味性的學習體驗帶到馬來西亞，讓更多學

生在探索科學和過程中激發學習熱忱，拓展國際視野，並在實踐中培養科學素養與創新精神。”

拉曼大學與淡江大學自2012年建立合作關係，雙方期望未來在科學教育與STEAM（科學、技術、工程、藝術及數學）領域展開更為多元且深入的合作。

馬來西亞留台淡江大學校友會會長何宇瑜表示，很榮幸見證這項具意義的學術合作，促進雙向交流與跨國合作，同時呼應聯合國永續發展目標。

當日晚宴也邀請多位嘉賓出席，包括淡江大學校長葛煥昭、學術副校長許輝煌、國際事務副校長陳小雀、馬來西亞台灣商會聯合總會名譽總會長杜書亮，以及馬來西亞留台校友會聯合總會會長彭淑和等，共襄盛舉，場面熱鬧。

連玉華：

馬留台生累計逾13萬人

駐馬來西亞台北經濟文化辦事處代表連玉華也應邀出席。她致詞時指出，馬來西亞與台灣關係密切，從經貿往來可見一斑。2025年雙邊貿易額超過500億美元，較2024年增長30%，並連續3年錄得增長。

她補充，台灣是馬來西亞第7大投資伙伴及第4大貿易伙伴，且在馬創造超過47萬個就業機會。

“目前馬來西亞留台生累計超過13萬人，皆在各領域發光發熱，表現杰出。”

科普教育

淡江大學深耕16年的“化學游樂趣”決定邁向國際，第一站就選在馬來西亞。

淡大學術副校長許輝煌接受《星洲日報》訪問時表示，拉曼大學是該校在馬來西亞重要的姐妹院校，雙方一直保持緊密合作。早在冠病疫情前，雙方就有意把“化學車”帶來我國，但計劃一度因疫情擱置，直到2024年才重新啟動。

去年4月，拉曼大學工程與綠色科技學院院長黃春安及理學院院長林德明前往台灣，隨淡大化學車隊走訪當地中學，進行實地觀摩與交流。

“接下來，我們希望拉曼大學可以安排師生到淡大學習操作模式。同時，我們也考慮派台灣學生隨車到全馬各地推廣科普教育，一方面也能讓學生累積國際經驗。”

在淡馬校友會、淡大化學系及企業贊助支持下，這項合作計劃目前已籌得一輛化學車，有待進行改裝及完成相關審批程序，由拉曼大學在本地推動。

化學車待審批半年後開跑

淡大化學系教授兼主任陳志欣透露，馬來西亞的化學車目前正進行法規審批，預計約半年後可正式投入運作。

他補充，化學科普的內容或將根據本地情況作調整，“兩地文化不同，我們已有几個課程供參考，拉曼大學之前也派老師來台參與和學習，回去後再調整成更適合本地的教學方式。”

尤芳達設想，這項計劃初期將從華校起步，可能從霹靂展開，未來逐步擴展至全馬各學校，包括國民型學校讓更多學生有機會體驗。屆時，拉曼師生將組成團隊走入校園，帶領學生一起動手做實驗。

他認為，化學與日常生活息息相關，是吸引學生接觸基礎科學的很好切入點。“因為疫情過後，很多學生都在刷手機，動手實踐的能力更顯重要。”

近年來，拉曼大學已在全國推動多項STEAM活動，此次“化學車”將與這些項目結合，擴大影響。

他強調，全球對科學與化工人才需求殷切。“無論是工業鏈，還是能源與石化產業，化學技術都非常關鍵。我們希望通過這個平台讓更多年輕人接觸並投入化學、化工及生物化學等領域。”

放眼未來，拉曼大學還有一個更長遠的理想。尤芳達說，該校已舉辦11屆吉隆坡工程與科技展，同時擔任東盟工程與技術學院（AAET）秘書處，具備區域合作基礎，將類似模式推廣至東盟區域。

“我們希望積極地把STEAM教育，包括化學科普及推廣至東盟10國，例如霹靂至泰國、印尼等國家。我們有很多合作夥伴，好的關係應該與更多人分享。”

優大師生帶領學生做實驗

淡江時報

「化學車」跨國際嘗試首站來馬