

SES eNewsletter

Highlight of 2026 January to February ✳ NEWS & EVENTS ✳



EdUHK & SCNU Strengthen Science Alliance

The Education University of Hong Kong (EdUHK) recently welcomed to its Tai Po campus a delegation led by Professor Wang Enke, former President of South China Normal University (SCNU) and Director of the Guangdong Provincial Science Education Guidance Centre for Primary and Secondary Schools. Professor May Cheng Mei-hung, Vice-President (Academic) of EdUHK, received the visitors.

At the event, a plaque was presented to EdUHK, designating it as an Executive Council Member of the Guangdong-Hong Kong-Macao Science Education Alliance. Souvenirs were also exchanged. The visit marked a shared commitment to deepening cooperation in science education and jointly advancing the cultivation of innovation talent in the Guangdong-Hong Kong-Macao Greater Bay Area.



Both parties provided detailed introductions to the development of the STEAM Education Alliance at EdUHK and the Science Education Alliance at SCNU, followed by thematic sharing on science and STEAM education initiatives. In-depth discussions were held on exchange and cooperation initiatives, jointly assessing future directions for collaboration in science education.





Earth Academy – ESG Youth Leadership Training Concludes with Success!

On December 19, 2025, Friends of the Earth Hong Kong and the Department of Science and Environmental Studies of The Education University of Hong Kong jointly held the "Earth Academy 2025" Sustainable Development Education Exchange and Achievement Exhibition, marking a significant milestone in this year's training program.



Participants showcased the innovative educational pathway of "Investigation-Creation-Teaching," from exploring low-carbon technologies in the Greater Bay Area and developing GREEN STEAM teaching materials to implementing experimental lessons in primary and secondary schools. The displayed lesson plans not only integrated environmental protection with STEAM elements but also reflected participants' growth journey from sustainability learners to aspiring educators capable of designing and implementing teaching practices.



Aligned with the Education Bureau's theme-based, experiential learning approach, the program provides future educators with a platform for exploration, innovation, and practice, driving the transformation of sustainable development education in Hong Kong.

Discover how participants transformed topics like renewable energy and green buildings into dynamic STEAM teaching activities!





28th PSPE Student Seminar Concludes Successfully

The 28th PSPE Student Seminar was successfully held on 17 January 2026, at the Hong Kong Science Museum Theatre.

The seminar featured insightful presentations by experts: Dr Li Wai Chin (EdUHK) on disaster prevention, Ms Frances Leung (HK Science Museum) on science

inquiry, Ms Winnie Siu (Hong Kong Red Cross) on Hong Kong's disaster landscape, and Dr Li Tin Lok (EdUHK) on community resilience.

For those who missed the event, the full recording is now available online.

[read more](#)



EdUHK Academics Support "2026 Ma Wan Go Green!" Eco-Carnival



On 31 January 2026, Ma Wan Park and the charitable organization "Rainbow Foundation" jointly held the "2026 Ma Wan Go Green!" Eco-Carnival. The event invited around 500 participants from low-income families, persons with disabilities, and children with special educational needs to learn about energy conservation, waste reduction, and low-carbon living practices.

Dr CHING Ping Pui and Dr Li Tin Lok Matthew from SES also participated in this event, jointly operating the environmental interactive booth and green workshop.

EdUHK remains committed to advancing sustainability education and actively engages in community environmental initiatives, translating classroom knowledge into social action. Let's join hands to build a greener, more inclusive future together!





RESEARCH

EDUHK SCHOLAR CO-AUTHORS BREAKTHROUGH STUDY IN NATURE COMMUNICATIONS ON "MULTI-CORE" BLACK CARBON AEROSOLS AND CLIMATE IMPACT

Researchers at The Education University of Hong Kong (EdUHK) have contributed to a groundbreaking study, revealing that conventional theories on the structure of black carbon particles – such as those emitted by wildfires – may have significantly underestimated their impact on global climate systems.

Traditionally, black carbon (BC) particles were represented as simple "core-shell" structure in global climate simulations, with a single carbon core located at the particle centre surrounded by outer layers. However, an international inter-disciplinary research team, comprising scholars from Chinese Mainland, Hong Kong, China, the United States, the United Kingdom, Israel, Japan, and South Korea, has found that in long-range transported wildfire smoke, about one fifth (21%) of black carbon particles – especially those larger than 400 nm in diameter, contain two or more cores. These "multi-core" BC aerosols, previously unaccounted for in global climate models, may hold the answer to the persistent underestimation of BC's light absorption by approximately 50% compared to real-world measurements.

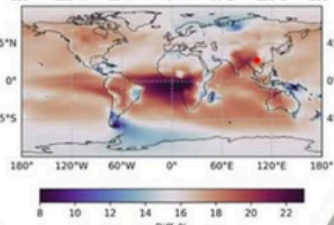
Dr Joseph Ching, Assistant Professor in the Department of Science and Environmental Studies at EdUHK, is part of that international research team led by Professor Weijun Li from the School of Earth Sciences at Zhejiang University. The collaboration also includes experts in atmospheric science, global climate modelling, electron microscopy, atmospheric environment, air pollution, and earth system science. The findings were recently published in the prestigious journal *Nature Communications*.





FROM LAB TO LIFE

**EdUHK Scholar Co-authors
Breakthrough Study
in Nature Communications
on "Multi-Core" Black Carbon Aerosols
and Climate Impact**



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45°N 0° 45°S

180° 120°W 60°W 0° 60°E 120°E 180°

8 10 12 14 16 18 20 22

Diff. %

Dr Joseph Ching
Assistant Professor
in the Department of
Science and Environmental Studies





香港教育大學
The Education University
of Hong Kong



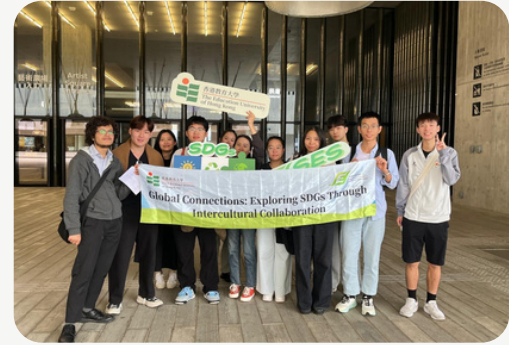
STUDENT ACTIVITIES

M+ Museum Visit: Where Art Meets Sustainability

The lecturer and students of The Department of Science and Environmental Studies visited M+, Asia's premier museum of contemporary visual culture on December 19th.

During this visit to M+'s Zao Wou-Ki: Master Printmaker, the teacher and students of SES immersed themselves in the world of abstract art, experiencing the dialogue between colour and space.

This experience highlighted art's power as an educational medium, inspiring new approaches to integrating sustainability into teaching. The M+ visit exemplified interdisciplinary learning, enhancing our understanding of creative education and social responsibility.



Exploring HKPM: Encountering Ancient Egyptian Civilization

On 31 January, students and the lecturer from the Department of Science and Environmental Studies of EdUHK visited the Hong Kong Palace Museum for the exhibition Ancient Egypt Unveiled: Treasures from Egyptian Museums.

Amidst artifacts and art spanning millennia, we immersed in the wisdom and mystery of Nile Valley civilization, reflecting on the deep connections between humanity and nature, history and heritage.

