



CAMPUS HAPPENINGS



NTU's new Chancellor President Tharman Shanmugaratnam makes first campus visit

Singapore President Tharman Shanmugaratnam made his first official visit as NTU Singapore's newest Chancellor on 3 April 2024. Hosted by NTU President Professor Ho Teck Hua, President Tharman toured the campus together with his spouse Ms Jane Ittogi, where they learnt more about NTU's residential education programme and student-led initiatives. To commemorate the visit, President Tharman also planted a tree at Nanyang Lake Pavilion, symbolising NTU's commitment to sustainability and environmental stewardship. NTU's Board of Trustees Chair, Ms Goh Swee Chen, also presented President Tharman with a 3D-printed memento symbolizing environmental stewardship and Earth's care.

Click [HERE](#) for more details.



NTU and Max Planck Society ramp up collaborative efforts in scientific research and talent development

NTU Singapore has signed a Memorandum of Understanding with the Max Planck Society, focusing on joint scientific research, and nurturing young scientists. Signed by NTU President Professor Ho Teck Hua and Max Planck Society President Professor Patrick Cramer, the collaboration includes research visits, discussions for a joint research centre, and scientific activities like conferences and workshops. The partnership also aims to explore offering research internships to undergraduates through the Matter to Life Undergraduate Research Opportunities Programme (MtL-URO). This agreement builds on existing collaborations, fostering academic and scientific relationships between Germany and Singapore in areas like carbon capture and AI for sustainability.

Click [HERE](#) for more details.



Launch of ExxonMobil-NTU-A*STAR Corporate Lab for low carbon solutions

ExxonMobil, NTU Singapore, and A*STAR collaborated to establish the ExxonMobil-NTU-A*STAR Corporate Lab, aiming to develop solutions for carbon emission reduction, resource efficiency, and sustainability. Launched by Mr Heng Swee Keat, Deputy Prime Minister, Coordinating Minister for Economic Policies and Chairman of the National Research Foundation (NRF), the lab leverages Singapore's scientific capabilities to address real-world challenges. Researchers in the S\$60 million Corporate Lab will focus on areas including biomass conversion, carbon capture, methane utilization, carbon capture and carbon application in concrete, aiming to advance global research efforts in lower-emission technologies.

Click [HERE](#) for more details.

RESEARCH HIGHLIGHTS



A new method to measure carbon stored in bogs to help in restoration efforts

Researchers at SMART (Singapore-MIT Alliance for Research and Technology) and NTU Singapore have developed a method that utilizes satellite data to accurately measure carbon stored in bogs, reducing the need for on-site sampling. This method aids in assessing the impact of converting peatlands for agriculture or industry, as peatland drainage releases large amounts of carbon dioxide, increasing fire risks. Despite covering only 3% of the land, bogs hold the most carbon per area on Earth. Understanding bogs is crucial for protecting and restoring their vast carbon stocks, including through rewetting.

Click [HERE](#) for more details.



Study finds that Cool paint coatings help city dwellers feel up to 1.5 degrees Celsius cooler

NTU Singapore researchers conducted a first of its kind real-world study in the tropics to evaluate the effectiveness of cool paint coatings in reducing urban heat. These coatings, enhanced with sun-reflecting additives, combat Urban Heat Island (UHI) effects by minimizing surface heat absorption. Applied to an industrial area in Singapore, the team observed temperature reductions of up to two degrees Celsius,

with pedestrian thermal comfort improving by up to 1.5 degrees Celsius. This demonstrates that utilizing cool paint coatings in cities can enhance pedestrian comfort by up to 1.5 degrees Celsius, creating a more comfortable urban environment for work and recreation.

Click [HERE](#) for more details.



Turning beer leftovers into nutritional gold

NTU Singapore researchers have developed a method that extracts over 80% of available protein from brewers' spent grain (BSG), a major byproduct of beer brewing. BSG, constituting 85% of brewing waste globally, is usually discarded, contributing to greenhouse gas emissions. The extracted BSG proteins are safe for consumption and high-quality, suitable for supplements and enhancing plant-based foods. The method would also help to reduce waste and carbon emissions. Additionally, these proteins are rich in antioxidants, potentially protecting skin from pollutants and extending the shelf life of cosmetics.

Click [HERE](#) for more details.

OTHER EVENTS



Sustainability & environmental related happenings at Science Centre Singapore

Event Date: Now till 31 July 2024

Details: Click [HERE](#) for more details

Science Centre Singapore is committed to fostering environmental awareness and showcases sustainability-related exhibitions, along with offering exciting student discounts. Visit the Climate Changed exhibition and the Wildlife Photographer of The Year exhibition at Science Centre Singapore to learn more about biodiversity and climate change. Additionally, enjoy a 20% student discount on Omni-Theatre tickets for 'Jane Goodall – Reasons for Hope,' a film featuring Jane Goodall, the renowned ethologist and environmentalist.



Habitat enhancement at Lim Chu Kang Nature Park

Event Date: 24 May 2024, 9am-11am

Details: Click [HERE](#) for more details

Join NParks in nurturing the young saplings and removal of invasive species to restore the coastal and grassland habitats of Lim Chu Kang Nature Park. Event is organised by NParks and is free of charge.



Bird watching along the Southern Ridges

Event Date: 18 May 2024, 7.30am-9.30am

Details: Click [HERE](#) for more details

Explore The Southern Ridges on a bird watching tour, organised by NParks. Join in the tour to discover up to 43 bird species along the Forest Walk and Singing Forest. Bring water, umbrella, binoculars or camera with zoom, and mosquito repellent. Do note to also wear comfortable clothes, long pants, and shoes.

YOU CAN GO GREEN TOO!

Singapore's Sustainability Journey



Click [HERE](#) to find about Singapore's various sustainability initiatives from 1972 till now.

Carbon Footprint Calculator by SPGroup



Click [HERE](#) to track your carbon footprint and find out how to reduce it.

STAY IN TOUCH WITH US



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