



CAMPUS HAPPENINGS



Eaton and NTU Singapore sign research collaboration agreement to develop innovative solutions for the eVTOL market

NTU Singapore and intelligent power management company Eaton have signed a three-year research collaboration agreement to develop innovative solutions for the electric vertical takeoff and landing (eVTOL) market. Leveraging NTU's strengths in academic research and Eaton's industry expertise, the partnership aims to accelerate the commercialisation of academic research and the growth of green technologies contributing to aviation decarbonisation.

Click [HERE](#) for more details.



LKC Medicine Recycling Day 2024

[LKC Medicine](#) hosted Recycling Day 2024 on 11 March 2024, in alignment with Global Recycling Day. Near 100 school staff participated in activities and discussions promoting sustainability. The event commenced with a warm welcome address by LKC Medicine's Chief Operating Officer, Dr Serene Ng. A significant highlight of the programme was the award for the winners of the "Greenovation" Challenge. The winners were recognised for their innovative ideas and practices in sustainability. Attendees also engaged in various recycling activities and conversations by ALBA, Ecosami and Plastify. A donation drive was also held during the event for staff to contribute their old and used clothes and shoes to Cloop. This event garnered an overwhelming positive response, further reinforcing the school's commitment to sustainable practices.

EDUCATION



Interdisciplinary degree in sustainability management and analytics among nine new academic offerings

NTU Singapore is launching nine new interdisciplinary degree programs this year, consisting of undergraduate degrees that range from AI, sustainability management, and analytics to philosophy, politics, and economics. Examples include the Bachelor of Accountancy (Sustainability Management and Analytics) and the Bachelor of Social Sciences in Philosophy, Politics, and Economics. New courses such as the Bachelor of Science in AI and Society and the Bachelor of Applied Computing in Finance are also available to incoming undergraduates.

Click [HERE](#) for more details.

RESEARCH HIGHLIGHTS



Artificial 'worm gut' helps to break down plastics

NTU scientists developed an artificial 'worm gut' to degrade plastics, offering a nature-inspired solution to global plastic pollution. By feeding *Zophobas atratus* worms with plastics and cultivating their gut microbes, they accelerated plastic biodegradation without the need for large-scale worm breeding. This breakthrough, led by NTU's [School of Civil and Environmental Engineering](#) (CEE) and [Singapore Centre for Environmental Life Sciences Engineering](#) (SCELSE), addresses previous challenges of slow feeding and maintenance. It presents a promising method to combat plastic pollution effectively.

Click [HERE](#) for more details.



Pioneering study on climate change impact on renewable energy

NTU scientists, led by Associate Professor Xu Yan from the [Energy Research Institute at NTU](#) (ERI@N), are investigating the effects of climate variability on renewable energy and the nation's electricity supply. Leveraging data from the third national climate change study, they analyse how rising temperatures and extreme weather affect hydropower, solar, and wind energy in Singapore and neighbouring countries. With Singapore aiming to import up to 30% of its energy from renewables by 2035, understanding climate disruptions on these sources is crucial. The team seeks to create a predictive model correlating weather patterns with renewable energy production to optimize energy potential and enhance Singapore's energy security.

Click [HERE](#) for more details.



Carbon Trading vs Carbon Tax: A Chat with Assoc Prof Hong Ru

Assoc Prof Hong Ru sheds light on the key differences between carbon trading and carbon tax, and which policy is more effective in reducing carbon emissions. Based on his research titled, '[Carbon Emissions Trading and Environmental Protection: International Evidence](#)' (recently accepted by the Management Science Journal), he also discussed which policies provide a stronger incentive for firms to switch to low-emission or renewable energy.

Click [HERE](#) to watch the video.

OTHER EVENTS



Earth Day 2024

Event Date: 22 April 2024

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

Earth Day 2024 will take place on 22 April 2024. First celebrated on April 22, 1970, Earth Day is one of the biggest movements celebrated around the world whereby individuals take action towards a greener and more sustainable future. This year's theme is "Planet vs Plastics", you can do your part by reducing single use plastics and bring your own bags/containers in campus.



CleanEnviro Summit Singapore (CESG)

Event Date: 19-21 Jun 2024

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

The sixth edition of CleanEnviro Summit Singapore (CESG), hosted by Singapore's National Environment Agency, will take place from 19-21 June 2024, at Sands Expo & Convention Centre. The summit is themed "Action for a sustainable and clean environment" and will focus on Climate Action, Resource Circularity, and Public Hygiene. The Summit will feature high-level plenaries, conferences, and an exhibition of cutting-edge environmental technologies and services.



Ethnobotany and diversity of figs Exhibition

Event Date: Now till 1 Sep 2024, 9am-6pm, closed every last Weds of each month

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

Figs, encompassing over 850 species, exhibit diverse growth forms and hold ecological and cultural significance worldwide. Notable species include the Common Fig, Egyptian Tree of Life, Bodhi Tree, and Indian Banyan. This exhibition at Singapore Botanic Gardens highlights fig diversity and ethnobotany, particularly focusing on species native to Southeast Asia, observable in Singapore Botanic Gardens.

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.

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Apr 2024