TUN HUSSEIN ONN SUNWAY LIBRARY

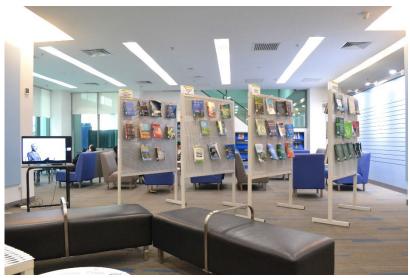
EXHIBITION

THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT
29 JANUARY – 8 FEBRUARY 2024

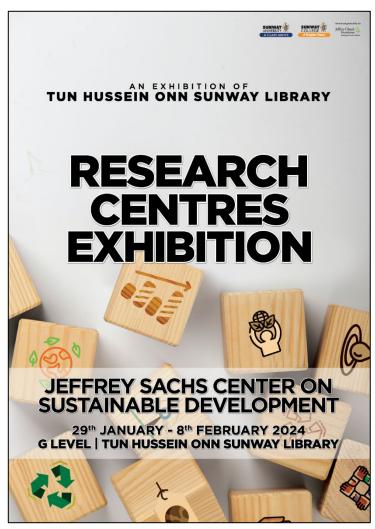


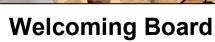














Board 1





THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

GRADUATE STUDY

▶ PHD IN SUSTAINABLE DEVELOPMENT (BY RESEARCH)

A full research programme focusing on key areas of sustainable development and themes outlined in the 17 sustainable development goals. The research topics will cover a wide range of complex issues and theories related to sustainable development, from the science of climate change and ecosystems to sustainable economics, social progress, management, public policies, environmental practices and governance.

MASTER IN SUSTAINABLE DEVELOPMENT MANAGEMENT

This programme aims to create a new generation of multidisciplinary practitioners adept at management and problem-solving using analytics and systems thinking guided by global concerns and to equip students with necessary management skills and acumen to create innovative solutions to achieve the Sustainable Development Goals (SDGs). It encompasses corporate sustainability strategies, social entrepreneurship, finance and sustainability, sustainable management and operations, as well as economics and development.

EXCLUSIVE PROGRAMMES

Experiential Learning on Food Systems with MSDM Students.

Experiential Learning on Food Systems in a Research Farm by Dr Leong Choon Heng and Master in Sustainable Development Management (MSDM) students.



Hong Leong Bank introduces ESG Framework towards Sustainable Financing.

Hong Leong Bank (HLB) collaborates with the Jeffrey Sachs Center on Sustainable Development at Surway University on Environmental, Social and Governance (ESG) training module on 11 December 2023.



JSC Sustainable Development Training on Children's Rights and Business Principles.

A collaboration with UNICEF On the 27th and 28th of April, the Jeffrey Sachs Center on Sustainable Development (JSC), in collaboration with UNICEF Malaysia conducted a two-day training on Children's Rights and Business Principles all Supreme Liberarity.



Leaders in Sustainable Development.

Empowering Leaders to Elevate the Region to the Forefront of Global SDG Achievement 30-31 October, 2017. Sunway Resort Hotel & Spa, Malaysia.

Source: https://jeffreysachs.center/executive-programs

OUTREACH PROGRAMMES



Interactive Workshop on Plastic Waste at SMK Seri Hartamas.



Jeffrey Sachs Center on Sustainable Development Sustainable Outreach with Rotary Club of Bukit Kiara Sunrise.



Advancing Sustainable Cities and Communities.



Green Finance for Energy Security and Sustainable Development.

Source: https://jeffreysachs.center/event-proceedings

RESEARCH CENTRES EXHIBITION

29TH JANUARY -8TH FEBRUARY 2024

Board 2 Board 3



THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

RESEARCH ACTIVITIES OF PROLIFIC RESEARCHERS

ASSOC, PROF, DR. CHEN JIT ERN:

MONITORING BIODIVERSITY OF PLANTS AND ALGAE IN AND AROUND SSQ LAKE, BANDAR SUNWAY

• The Sunway South Quay (SSQ) lake, a crucial water source for 51,500 Sunway City residents, offices, and shopping malls, plays an integral role in the community. Research assistant Nur Amiera Fatin Azman, Master's student Chin Sean Young.

Primary Objective

. To assess and establish the current condition of the lake.

- · Comprehensively assess and enhance SSQ Lake by defining its topography, quantifying water quality.
- Studying cyanobacteria and algae for potential ecological impacts. · Providing long-term scientific solutions, driven by the significance of addressing ecological, aesthetic, and public health concerns related

> Future Plans

- Developing in-house technical skills for measuring essential parameters.
- · Gaining a better understanding of SSQ lake ecology to address long-term water quality challenges.

 considering the introduction of filter-feeding invertebrates as a
- sustainable method to predate algae and maintain ecological balance.

These initiatives highlight Sunway's commitment to proactive management and improvement of SSQ lake water quality, aligning with broader sustainability goals and showcasing the team's dedication to environmental stewardship and







ESTABLISHING MALAYSIA'S FIRST CLIMATE CHANGE MARINE SIMULATOR TO STUDY AND ENHANCE THE THERMAL RESISTANCE OF CORALS.

- Explored coral labs at King Abdullah University of Science and Technology, a pivotal step in this research project.
- Advancing research to understand coral ecosystems and their ability to withstand challenges of climate change.
- Substantial contribution to marine conservation efforts





EVIE LIM YEE WEI: •

> Volunteering with Batu Kapal Conservation,

- Actively engaged in conservation activities.
- Monitored primates' activity patterns.
- Contributed to wildlife corridor creation through tree

▶ Impact

- Bolsters wildlife conservation collaborations
- Strengthens potential research initiatives with NGO
- Underlines dedication to safeguarding endangered species
- Advances cutting-edge conservation efforts
- Committed to biodiversity preservation and research Research initiative with NGO Panthera to bolster wildlife
- conservation and safeguarding endangered species and advancing cutting edge conservation efforts.





RESEARCH CENTRES EXHIBITION



THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT





Publications

ASSOCIATE PROFESSOR

- Designation: Head of the Jeffrey Sachs Center
- Field of Expertise:
- Algal Biotechnology and Diversity, Coral-Zooxanthellae Climate Change Mitigation and Experimental Evolution.
- Held a Post-Doctoral position at King Abdullah University of Science and Technology (KAUST), Saudi Arabia.
- Taught courses on Earth's Climate System and Biodiversity for the Master in Sustainability Development Management program (MSDM).

Current projects:

- Experimental evolution and retrotransposon-mediated genetic engineering of the coral endosymbiont alga Symbiodinium to develop increased tolerance to higher water temperatures.
- Chloroplast transformation of the model green algae, Chlamydomonas reinhardtii
- ASEAN Green Future
- Monitoring the biodiversity of plants and algae in Bandar Sunway. Scopus ID: 44360930200

▶ ORCID: 0000-0003-4779-7275

Publication

60

DAVID L.A. GAVEAU. VISITING PROFESSOR

Designation: Visiting Professor at Sunway Jeffrey Sachs Center on Sustainable Development

Field of Expertise:

Meteorology, Archaeology and Statistics.

Accomplishments:

- He published over 60 scientific papers (h-index 43, citations: 8,357) in high-impact journals on topics ranging from causes and consequences of deforestation and fires to commodity and agroforestry mapping and protected area effectiveness evaluations.
- Ranked among the top three scientists in the field of Ecology and Evolution in Indonesia.
- He builds the Nusantara Atlas platform that provides detailed real-time and historical information on land use, forest cover, and land cover change in Equatorial Asia.
- He has extensive field experience in Indonesian protected areas.
- Has a broad research network and collaborative partnerships with NGOs and conservation scientists in Southeast Asia, the US, and
- Scopus ID: 6602165712



AGAMUTHU PARIATAMBY, •

▶ Designation: Professor at Sunway Jeffrey Sachs Center on Sustainable Development

Field of Expertise:

Solid Waste Management, Plastic Blodegradation, Sustainable Environmental Management, Life Cycle Analysis, Hazardous Wastes, Solid Substrate Technology, Greenhouse Gas Reduction, MFA and POPs, Circular Economy, Extended Producer Responsibility, Waste to Energy.

Accomplishments:

- World Top 2% Scientist in Environmental Sciences, Stanford University.
- High Level End Foreign Expert, Ministry of Science and Technology, China.
 Visiting Professor, Zhejiang University of Technology, Hangzhou, China.
 Chairman, International Consultative Committee of Waste to Energy.
- Honorary Life Member, International Solid Waste Association (ISWA) Vice-President/International Advisory Board Member - Society of Solid Waste Management Experts in Asia and Pacific Islands (SWAPI).
- Fellow, Academy of Sciences Malaysia (FASc).
- International Advisory Board Member, Waste Management & Research international journal.
- Editor, Journal of Material Cycles and Waste Management.
- Editorial Board, Journal of Safety and Environment. Editorial Board, Advance in Environmental Waste Management and Recycling.
- Editorial Board, Environment and Xenobiotics
- Chairman, Organization for Climate Change (OFCC).
- ▶ Scopus ID: 6602097386



YEOH KEAT-HOE, ASSOCIATE PROFESSOR

▶ Designation: Associate Professo Field of Expertise:

Atomistic modelling of surface properties for energy storage and conversion, Semiconductor physics.

Professional Engineer, Board of Engineers Malaysia (BEM) & Corporate member (MIEM), The Institute of Engineers Malaysia (IEM).

Publication Research Activities:

Explore the fundamentals of ORR process in fuel cell, CO2 reduction, photocatalytic water splitting and high-performance electrode material for battery by using Density Functional Theory.

- Theoretical modelling of atom adsorption on surface and superconductivity.
- Phenomenological studies of charge transport in semiconductor

RESEARCH CENTRES EXHIBITION

29TH JANUARY -8TH FEBRUARY 2024

Board 4

Board 5



Board 6