



TUN HUSSEIN ONN
SUNWAY LIBRARY

EXHIBITION

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

THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT



THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT



Welcoming Board



Board 1

THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT



THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

NEW HORIZONS: EXPANSION AND COLLABORATION

The Sunway Education Group and the Asian Strategy and Leadership Institute (ASLI) organized 23rd ASLI Education Summit 2022 which brought together education stakeholders, from educators to students, the public and private sectors, to share experiences and to generate collective insights, ideas and wisdoms.

It acknowledged global challenges: Learning losses, Digital disparities due to COVID-19, Obstacles in delivering quality education, Ensuring fair access, and Providing resources aligned with UN Sustainable Development Goals, and the 4th Industrial Revolution for nurturing future generations.





The Economic Planning Unit (EPU), Prime Minister's Department, together with Jeffrey Sachs Centre on Sustainable Development (JSC) and Sustainable Development Solutions Network (SDSN) Malaysia, organized a webinar to discuss the progress made by Malaysia on Sustainable Development Goal 8: Decent Work and Economic Growth. The discussion included government policy in the post-pandemic world:

- Initiatives by the private sector.
- Imperatives in talent development to accelerate full and productive employment.
- Encompassing better workplaces.
- Improved working arrangements, anti-discrimination efforts, and expanded job options. Proposed for Twelfth Malaysia Plan and the 2030 Sustainable Development Goals.



2022 marked the 40th anniversary of the Look East Policy (LEP). The Look East Policy had been significant to Malaysia and the Japan-Malaysia relationship. In the present turbulent times of rising anti-globalization sentiments, accelerating climate change, and emerging big power competition, Japanese-Malaysian cooperation would boost the common interests of Japan and Malaysia in enhancing future economic prosperity and strengthening continued regional harmony.



The DNA of High Performing Civil Servants was the topic for the Jawatan Utama Sektor Awam (JUSA) course at INTAN. The innovation element is crucial for the growth of a nation. The Quintuple Helix Model involving the public sector, business sector, academia, rakyat and the environment are the interplay variables to ensure a successful innovation strategy.



Source: <https://sunwayuniversity.edu.my/events/2022>

Board 2



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 Sunway 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 at Sunway University.
- 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://jeffreysachscenter.com/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://jeffreysachscenter.com/event-proceedings>

Board 3

THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT



THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

RESEARCH ACTIVITIES OF PROLIFIC RESEARCHERS

ASSOC. PROF. DR. CHEN JI TERN:
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.

► **Project Aims**

- 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 to the lake's condition.

► **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 community well-being.



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 in Malaysia.



EVIE LIM YEE WEI:

► **Volunteering with Batu Kapal Conservation, Sumatra, Indonesia.**

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

► **Impact**

- Bolsters wildlife conservation collaborations
- Strengthens potential research initiatives with NGO Panthera
- 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

29TH JANUARY -
8TH FEBRUARY 2024

Board 4



THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

TOP RESEARCHER'S

**CHEN JI TERN,
ASSOCIATE PROFESSOR**

► **Designation:** Head of the Jeffrey Sachs Center

► **Field of Expertise:**

- Algal Biotechnology and Diversity, Coral-Zooxanthellae Climate Change Mitigation and Experimental Evolution.

► **Accomplishments:**

- 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 endosymbiotic 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**



**AGAMUTHU PARIATAMBY,
PROFESSOR**

► **Designation:** Professor at Sunway Jeffrey Sachs Center on Sustainable Development

► **Field of Expertise:**

- Solid Waste Management, Plastic Biodegradation, 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 (SSWAPI).
- Fellow, Academy of Sciences Malaysia (FRAS).
- 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 (OPCC).

► **Scopus ID : 6602097386**



**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:**

- A landscape ecologist who conducts extensive research on deforestation and forest fires in Equatorial Asia and the Siberian Arctic.
- He published over 50 scientific papers (h-index 43, citations: 8,557) 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 Europe.

► **Scopus ID : 6602165712**



**YEON KEAT-HOE,
ASSOCIATE PROFESSOR**

► **Designation:** Associate Professor

► **Field of Expertise:**

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

► **Affiliations:**

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

► **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.



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Board 5

THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT



THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

TOP RESEARCHER'S



**LEONG CHOON HENG,
PROFESSOR**

► **Designation:** Deputy Director, Jeffrey Sachs Center on Sustainable Development

► **Field of Expertise:**

- Social inclusion and sustainable practices by businesses and civil society.

► **Affiliations:**

- Program Director, the Master in Sustainable Development Management, Sunway University.
- Deputy President, Harvard Club of Malaysia.
- Scientific Committee, International Conference on Sustainable Development, 2019.



**LIM JIA JIA,
VISITING PRINCIPAL TEACHING FELLOW**

► **Designation:** Visiting Principal Teaching Fellow

► **Field of Expertise:**

- Intersections between strategy, inter-firm collaboration, and technology for sustainability.



**FUN WO H PENG,
PROFESSOR**

► **Designation:** Professor, Special Studies Division, Jeffrey Cheah Institute on Southeast Asia

► **Field of Expertise:**

- Green Transportation, Green Energy, Carbon Footprint Reduction.

► **Accomplishments:**

- Executive Director and Chief Corporate Representative for APM Automotive Holdings Berhad.
- Guest lecturer for various universities.
- Helped a local university to fund and set up a Center for Computer Aided Engineering.

► **Affiliations:**

- Faculty Members, Victoria University Program, Sunway College.

► **Current Projects:**

- Green Energy.
- ASEAN Green Future.



**DANESH PRAKASH CHACKO,
RESEARCH ANALYST**

► **Designation:** Research Analyst

► **Field of Expertise:**

- GIS and Electoral research.

► **Current Project:**

- SDG'S FABLE.

RESEARCH FOCUS AREAS

The Jeffrey Sachs Center on Sustainable Development is passionately committed to exploring a rich tapestry of sustainability-focused research realms, spanning but not confined to:



These focus areas encompass a broad spectrum of sustainability challenges, reflecting the center's commitment to addressing critical issues and promoting sustainable development across various sectors.

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