

CONFERENCE AGENDA

Venue: Cisco Webex Meeting

22 JUNE 2021

8.30 am – 8.45 am	Opening Session
	Welcome Remarks
	Chair Welcome Remarks
	Ts. Dr. Mohamad Zaki Hassan
8.45 am – 9.00 am	Officiating Address
	Prof. Ts. Dr. Abd Latif Saleh, Pro Vice-Chancellor
	UTM Kuala Lumpur Campus
9.00 am – 9.10 am	Video Montage
9.15 am – 10.00 am	Plenary Speaker
	Professor Dr. Yasuyuki Ikegami, Saga University
	Topic: Malaysian Global Leadership in Promoting Achievement of the SDGs, Renewable Energy, and Innovation
10.00 am – 10.45 am	Keynote Speaker
	Professor Dato' Ir. Dr. Abu Bakar Jaafar, Research Fellow and Former Director, UTM Ocean Thermal Energy Centre (OTEC) & Faculty Member of UTM Perdana Centre, Razak Faculty of Technology & Informatics
	Topic: Renewable Energy of the Tropics & Sustainability
10.45 am – 11.00 am	Photo Session
11.00 am – 11.30 am	Invited Speaker 1:
	Ahmad Hadi Mohamed Rashidi, NAHRIM
	Ts.
	Topic: Development of NAHRIM Innovative Coastal Erosion Protection Structures for Shoreline Sustainability
11.30 am – 1.10 pm	Presentation Session 1
1.10 pm – 2:00 pm	Break
2:00 pm – 2.15 pm	Industry Highlight
	Sifu Trademark
2:15 pm – 5.15 pm	Presentation Session 2

***Presentation Session:** Please refer to specific tentative for details

23 JUNE 2021

8.30 am – 10.30 am	Presentation Session 3
10.30 am – 11.00 am	<p>Invited Speaker 2: Ir. Noraziah Binti Muda, TNB Research Sdn Bhd</p> <p>Topic: The Role of Renewable Energy And Carbon Capture And Utilisation In The Pathway Towards Decarbonisation Of Energy Industry</p>
11.00 am – 1.00 pm	<p>Parallel Session 4A</p> <p>Parallel Session 4B</p>
1.00 pm – 2.00 pm	Break
2.00 pm – 2.15 pm	<p>Industry Highlight Naglus Industries Sdn Bhd</p>
2.15 pm – 4.45 pm	<p>Special Session</p> <p>SS1: SATREPS-OTEC Malaysia</p> <p>SS2: Webinar on Renewable and Bio-Energy (TNBR)</p>
4.45 pm – 5.00 pm	Closing Ceremony & Awards Ceremony

***Presentation Session:** Please refer to specific tentative for details

PRESENTATION SESSION 1

22 June 2021

Virtual Room 1

Green Sustainability and Innovation

Chairperson

Ts. Dr. Nurul Aini Bani

Co-chair

Dr. Hazilah Mad Kaidi

Agenda

Time	Author(s)	Paper Title
11:30 am	Nor Azirah Mohd Fohimi*; Mohd Mahadzir Mohammud; Muhammad Arif Ab Hamid Pahmi; Ariffatul Amirah Hairun Anuar	Nitrogen Gas Adsorption Filter (NgAF) to Enhance Producer Gas Quality
11.50 am	Mee San Kiu*	The Readiness of IoT Enabled Smart Buildings in Malaysia
12.10 pm	Bismiazan Abd. Razak*	Integrated Environmental Solutions-Virtual Environment (IES-VE) Software Accuracy Investigation on Naturally Ventilated Royal Malaysian Police (RMP) Lockup's Thermal Performance Simulation
12:30 pm	Md Fauzan Kamal bin Mohd Yapandi*; Famiza Abd Latif	Effect of Mixing Temperature in the Development of Green Polypropylene – Coal Bottom Ash Composite Slab
12.50 pm	Muhammad Zaki Bin Abd Manaf*; Mohd Farid Mohamed; Wardah Fatimah Mohammad Yusoff; Khairul Azhar Mat Sulaiman	The Effect of Mosque Main Roof Design Toward Thermal Comfort at The Prayer Hall Based On Natural Ventilation Approach

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PRESENTATION SESSION 2

22 June 2021

Virtual Room 2

Green Sustainability and Innovation

Chairperson

Dr. Mohd. Nabil Bin. Muhtazaruddin

Co-chair

Dr. Sa'ardin Abdul Aziz

Agenda

Time	Author(s)	Paper Title
2:15 pm	Firdaus Muhammad Sukki*; Haroon Farooq; Siti Hawa Abu Bakar; Jorge Alfredo Ardila-Rey; Nazmi Sellami; Ciaran Kilpatrick; Mohd Nabil Bin Muhtazaruddin; Nurul Aini Bani; Muhammad Zulkipli	Modelling of a Static Concentrating Photovoltaic Using MATLAB
2:35 pm	W Q Wee*; Lan Ching Sim; K H Leong; P Saravanan	Synthesis And Characterization of Copper Vanadate Quantum Dots / Nanostructured Zinc Oxide
2:55 pm	Siti Aisyah Razali	Numerical Studies of Fluid Flow and Heat Transfer in Microchannel Heat Sink with Trapezoid Cavities, Ribs and Secondary Channel
3:15 pm	Ivan Komarov; Olga Zlyvko; Andrey Vegera; Bulat Makhmutov; Ivan A Shcherbatov*	Research And Development of High Efficiency Low Emission Combined Cycle Power Plant Arrangements
3:35 pm	Ivan Komarov; Sergey Osipov; Ivan A Shcherbatov*; Bulat Makhmutov; Ilya Kaplanovich	Research And Development of a Coal-Fired Steam Turbine Power Plant Using Oxygen-Rich Air as Oxidizer
3:55 pm	Ivan Komarov; Andrey Rogalev; Daria Kharlamova; Vladimir Naumov*; Sophia Shabalova	Comparative analysis of the efficiency of using hydrogen and steam methane reforming storage at combined cycle gas turbine for cogeneration
4:15 pm	Ghadeer Albalawneh*; Muhammad M. Ramli; Mohd Mohammad Zain; Zaliman Sauli	The influence of selenium amount added into the graphite box during the selenization of solution deposited CIGSe thin films

*NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.

PRESENTATION SESSION 3

23 JUNE 2021

Virtual Room 1

Green Sustainability and Innovation

Chairperson

Ts. Dr. Suraini Mohd Sam

Co-chair

Dr. Rohayah Che Amat

Agenda

Time	Author(s)	Paper Title
8:30 am	Shi-Han Loo*	Passive Design of Buildings: A Review of Configuration Features for Natural Ventilation and Daylighting
8:50 am	Nor Afifah Basri; Rafieza Rosli; Nurlyana Omar*	Atmospheric Trajectory Analysis of Cesium-137 from Proposed Nuclear Power Plant Site in Bangka Island, Indonesia
9.10 am	Mohd Zaki Bin Zainal Abidin*; Fazlena Hamzah; Miradatul Najwa Mohd Rodhi; Nurul Aimi Ghazali	Assessing Biofouling in Ocean Thermal Energy Conversion (OTEC) Power Plant – A Review Paper
9.30 am	Mohamad Hilmi Hisyamuddin; Mohamad Rosdi*; Nor Azwin Ahad	The Effect of Corn Stalk Fiber Loading on Tensile Properties and Absorption Ability on Polybutadiene Adipate Terephthalate Matrix (PBAT)
9:50 am	Fazarizul Hashidi Muhamad Pauzi*; Mohd Yusof Md Daud; Ahmad Yusri Mohamed	Towards the Introduction of Element that Contribute to the LRT Operation Sustainability through Technology based Ancillary Revenue
10.10 am	Nura Muaz Muhammad*	Effect Of Corrugated Minichannel Variable Width on Entropy Generation for Convective Heat Transfer of Alpha-Alumina-Water Nanofluid

*NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.

PARALLEL SESSION 4A

23 JUNE 2021

Virtual Room 1

Energy Sustainability and Innovation

Chairperson

Assoc. Prof. Dr. Mohd Yusof Md. Daud

Co-chair

Dr. Sumiaty Ambran

Agenda

Time	Author(s)	Paper Title
11:00 am	Ridoan Karim; Firdaus Muhammad Sukki*; Mohd Nabil Bin Muhtazaruddin; Jorge Alfredo Ardila-Rey	Utilizing SWOT Analysis for The Energy Research: A Methodological Experience
11:20 am	Ghazali Bin Harun; Shamsul Sarip*; Hazilah Mad Kaidi; Abdul Yasser Abdul Fatah; Noorlizawati A Rahim	Wind, Hydro and Solar Energy Challenges for Technical Vocational and Training (TVET) Electrical Entrepreneur in Malaysia: A Review
11.40 am	Nurudin Bin Habeed Mohammad Abdul Settar; Shamsul Sarip*; Hazilah Mad Kaidi	Computational Fluid Dynamics Models of Wells Turbine for Oscillating Water Column System
12.00 pm	Zinnirah Wellun*; Wardah Fatimah Mohammad Yusoff; Mohd Farid Mohamed; Khairul Azhar Mat Sulaiman; Mohammad Rasidi Rasani	Field Measurement of Indoor Environment of a Room with Single Sided Sliding Glass Opening
12:20 pm	Ku Nur Afrina Ku Azman Shah; Mohd Zamri Mohd Yusop; Jafri Mohd Rohani*; Nor Akmal Fadil; Mohd Faizal Hassan; Mohd Fairus Mohd Yasin; Natrah Kamaruzaman; Engku Mohd Nazim Engku Abu Bakar; Syahrullail Samion; Yazid Yahya; Norhuda Abdul Manaf; Budi Hartono; Tuyen Nguyen-Duc; Abdul Samad Ahmad; Ashaari Ramli	Solar And Biomass Potential of Renewable Energy in Selected Asean Countries and Japan
12:40 pm	Syamimi Saadon*	Organic Rankine Cycle (ORC) as waste heat recovery system for micro-generation: a Preliminary Study

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PARALLEL SESSION 4B

23 JUNE 2021

Virtual Room 2

Energy Sustainability and Innovation & OSH

Chairperson

Dr. Mohd Khairulanwar Mohd Dahuri

Co-chair

Dr. Abdul Yasser Abd Fatah

Agenda

Time	Author(s)	Paper Title
11:00 am	Sazalina Zakaria*; Radin Diana R.Ahmad	Stochastic Type-2 Fuzzy Modelling on GHG Emission Prediction for Gas-Fired Power Plant
11:20 am	Afiq Ariffin*	Generic Review on the Potentials Of Nuclear-Renewable Hybrid System for Sustainable Power Production in Malaysia
11.40 am	Siti Sarah Aliah*	Optimization Of Pyrolysis Process Parameter of Char Production from Empty Fruit Bunch Solid Waste
12.00 pm	Nor'Ain Abd Rahman*; Mohd Ferdaus Md Nor; Norashikin Mahmud	Prevention & Mitigation in Managing Chemical Accidents in Malaysia
12:20 pm	Siti Hafizah Zakaria*; Rafizah Musa; Samira Albati Kamaruddin	Risk Assessment and Roles of Stakeholders for Frame Scaffolding Procedures in Construction Projects
12.40 pm	Nurul Syifaa Mohamad; Norliza Mohamed; Suriani Mohd Sam; Norulhusna Ahmad; Hazilah Mad Kaidi	Awareness of the Safe Work Practice in Chemical Handling and Storage of Cleaning Activities for Office Building

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

SPECIAL SESSION 1

23 JUNE 2021

2.15 pm – 4.10 pm

Virtual Room 4

SATREPS-OTEC Malaysia

Chairperson

Assoc. Prof. Ir. Dr Shamsul Sarip

Co-chair

Dr. Mohamed Azlan Suhot

Agenda

Time	Speaker
02:15 pm - 02:30 pm	Opening Remark by Chairperson Assoc. Prof. Ir. Dr Shamsul Sarip
02:30 pm - 02:50 pm	Title : Heat transfer performance test of a plate type heat exchanger for hybrid ocean thermal energy conversion system Speaker : Assist. Prof. Dr. Takeshi Yasunaga
02:55 pm - 03:15 pm	Title : The Trend and Status of Energy Resources and Greenhouse Gas Emissions in the Malaysia Power Generation Mix Speaker : Assoc. Prof. Dr. Srithar Rajoo
03:20 pm - 03:40 pm	Title : Fluid Flow and Heat Transfer Characteristics in the Rib-Cavity Microchannel Heat Sink Integrated with Secondary Channel Geometry Speaker : Assoc. Prof. Dr. Nor Azwadi Bin Che Sidik
03:45 pm - 03:05 pm	Title : Where is the data ? Challenges and Prospective of Ocean Thermal Energy Conversion (OTEC) potential site assessment in Malaysia. Speaker : Assoc. Prof. Dr. Mohd Fadzil bin Mohd Akhir
03:10 pm - 04:30 pm	Title : 10 MW Ocean Thermal Energy Centre (OTEC) using Rankine Cycle in Malaysia Speaker : Ts. Dr. Sathiabama A/p T Thirugnana
04:30 pm -04:45 pm	Q&A session & Closing

SPECIAL SESSION 2

23 JUNE 2021

2.15 pm – 4.30 pm

Virtual Room 3

Webinar on Renewable and Bio-Energy (TNBR)

Chairperson

Ts. Dr Nurul Aini Bani

Co-chair

Ts. Dr. Mohamad Zaki Hassan

Agenda

Time	Speaker
02:15 pm - 02:30 pm	Opening Remark by Head of Unit Renewable Energy & Green Technology, TNB Research, Ir. Noraziah Muda
	Moderator: Mr. Muhammad Aiman Faiz bin Mohd Ilham
02:30 pm - 03:10 pm	Cradle to Cradle: The Life of PV i. Solar PV System: Do We Let It Heat Up or Do We Cool It Down? Speaker: Ts Mohd Azimin Elias ii. Way Forward of Floating Solar in Malaysia Speaker: Ts Ridzuwan Mohd Jais iii. A Sharing of Solar PV Afterlife Journey Speaker: Ms. Nor Amirah Farhana Nawawi
03:10 pm - 03:30 pm	Bio-CCU Approach in Malaysia: A Step Towards Greening Fossil Fuel Speaker: Ts Liyana Yahya
03:30 pm - 03:50 pm	Enlivening Biogas Development through Circular Economy Model Speaker: Ts Nur Muhammad Afifi Zainal
03:50 pm – 04:10 pm	Biomass: Fact or Fiction - Integration with Advanced Technologies for Sustainability Speaker: Ir. Dr. Lim Mook Tzeng
04:10 pm -04:30 pm	Q&A session & Closing