UNIVERSITI TEKNOLOGI MARA
Cawangan Perlis
Kampus Arau

i-IDeA 2023
THE 6TH INTERNATIONAL INNOVATION, DESIGN AND ARTICULATION

5th i-IDeA 2023 ISTEC

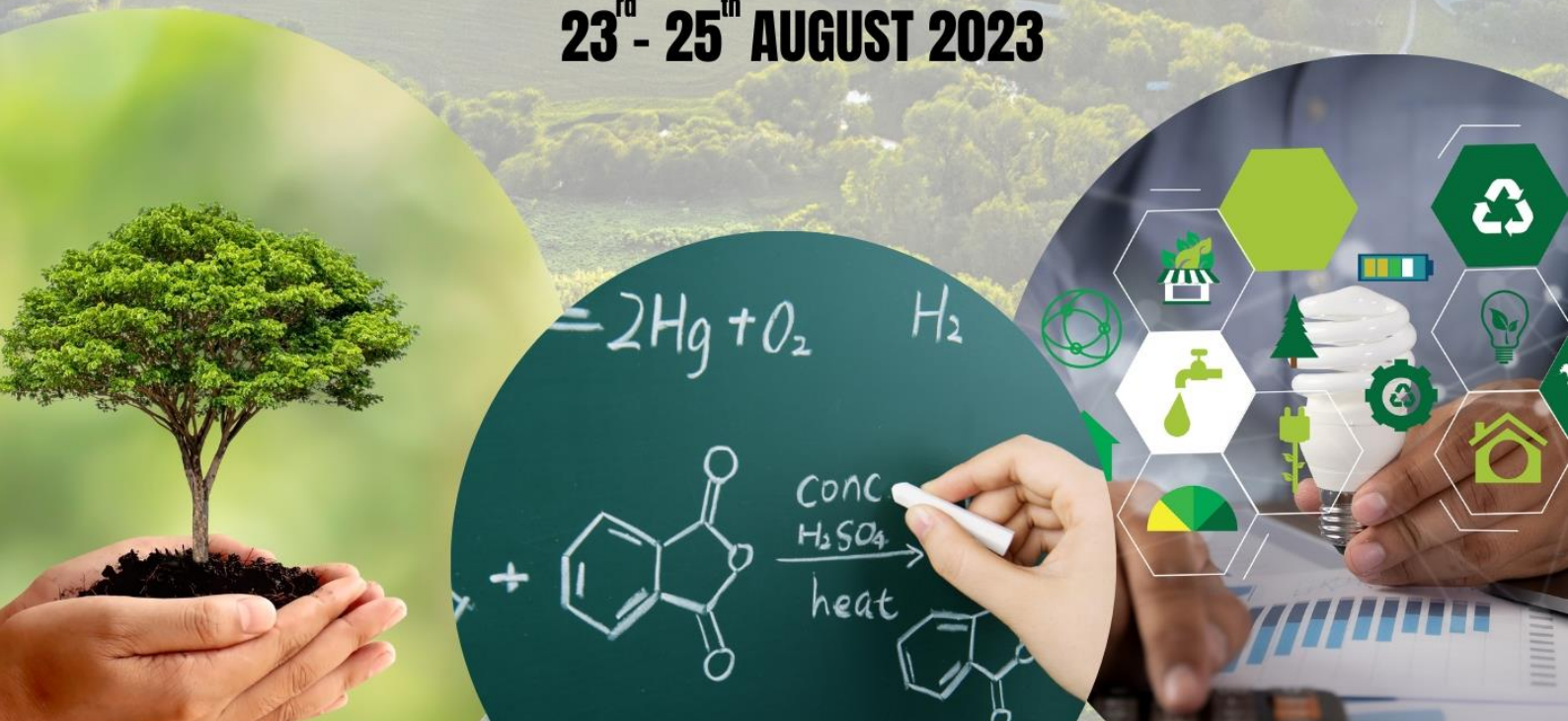
GLOBAL ADVANCED MATERIALS & SURFACES

BAYVIEW HOTEL
GEORGETOWN, PENANG

Empowering Materials Towards Future Sustainability

PROGRAMME BOOK

23rd - 25th AUGUST 2023



CONTENTS

MESSAGE FROM RECTOR OF UiTM PERLIS BRANCH

Assalamualaikum w.b.t and *Salam Sejahtera.*

I would like to extend my warmest welcome to all delegates to the **International Sciences, Technology & Engineering Conference (ISTEC)-Global Advanced Materials & Surfaces (GAMS)** The conferences' themes which is "*Empowering Materials Towards Future Sustainability*" serves as a platform for all delegates to share research findings, experiences, and discuss the environmental and sustainability issues and solutions related to their respective areas of expertise, fostering interdisciplinary collaboration and collective progress towards a more sustainable future.

These conferences are looked forward by academicians, students, researchers, and industry players who hold vital positions in academics, research, and industry, particularly in the in-demand fields of Applied Sciences. As such, I firmly believe that this event will facilitate productive discussions and fruitful idea exchanges.

To all our esteemed conference participants, I extend my heartfelt appreciation for joining us in this exciting venture. Your presence and contributions will undoubtedly enrich the discussions and outcomes of this prestigious event.

Thank you.

ASSOC. PROF. Ts DR. SHUKOR SANIM BIN MOHD FAUZI

MESSAGE FROM DEPUTY RECTOR OF RESEARCH, INDUSTRIAL LINKAGES, COMMUNITY & ALUMNI NETWORK, UiTM PERLIS BRANCH

Assalamualaikum, w.b.t, *Salam Sejahtera* and greetings to all.

On behalf of the organizing committee, I would like to welcome all the delegates and guests to the **International Sciences, Technology & Engineering Conference (ISTEC) – Global Advanced Materials & Surfaces (GAMS).** This international conference is organized by Universiti Teknologi MARA (UiTM), Perlis Branch, Arau Campus, Malaysia, as part of the 6th International Innovation, Design, and Articulation Conference (i-IDeA 2023).

With the theme of "*Empowering Materials Towards Future Sustainability*" I believe this conference serve as a great platform for researchers to share and discuss the latest developments and findings in related fields. We anticipate that this conference will serve as a networking opportunity for students, professors, and researchers from Malaysia and throughout the world.

We are confident that the conference will be enjoyable, beneficial, entertaining, and be a memorable event for all of you. I would like to thank my organizing committee, prominent plenary, keynote and invited speakers, passionate presenters and the management of Universiti Teknologi MARA Perlis branch for their support and commitment. Last but not least, on behalf of the committee, I humbly welcome all of you to the International Sciences, Technology & Engineering Conference (ISTEC) – Global Advanced Materials & Surfaces (GAMS) 2023 and look forward to your active participation. Have a great day.

Thank you.

Ts. Gs. DR. ERNIEZA SUHANA MOKHTAR

MESSAGE FROM CONFERENCE CHAIR I

Assalamualaikum w.b.t and *Salam Sejahtera*

It is my great pleasure to welcome all distinguished speakers and presenters to this conference. I am delighted to announce that we received 63 participations both from local and international participants. I hope this conference will be a great event to exchange research ideas and to establish collaboration with colleagues from various countries. I strongly believe that participants will shine brighter in the future with the experience gathered here, throughout the conference programme.

Last but not least, we look forward to meet you in upcoming events organized by Universiti Teknologi MARA (UiTM), Perlis Branch, Arau Campus, Malaysia. I wish all you a productive day and an enjoyable networking experience in these conferences. Thank you.

DR. WAN IZHAN NAWAWI WAN ISMAIL

MESSAGE FROM CONFERENCE CHAIR II

Salam Sejahtera and greetings to all

First and foremost, I would like to take the honour of welcoming each one of you to the **International Sciences, Technology & Engineering Conference (ISTEC) – Global Advanced Materials & Surfaces (GAMS) 2023**. I am confident that this platform opens ample opportunity for all of us to exchange latest research and developments in Applied Sciences. Without a doubt, I can promise that you will enjoy the fruitful discussion in the plenary, keynote and invited sessions by the outstanding and finest scientists.

As a chairman of the International Conference i-IDeA 2023, I am most thankful for the unceasing efforts of the organizing committee specifically; Dr. Mohammad Saifulddin Mohd Azami as Head Director of ISTEC-GAMS 2023

Finally, yet importantly, I look forward that all of the esteemed guests will offer a great deal of support for the success of this event. Many thanks for your participation and enthusiasm. Thank you and have a wonderful time ahead!

DR. JEYASHELLY ANDAS

MESSAGE FROM HEAD DIRECTOR OF ISTEC-GAMS 2023

Assalamualaikum WBT and *Salam Sejahtera*

On behalf of the organizing committees, I heartily welcome all honorable speakers and participants to this 5th International Sciences, Technology, and Engineering Conference-Global Advanced Materials & Surfaces 2023 (ISTEC-GAMS 2023) with an inspiring theme, "*Empowering Materials Towards Future Sustainability*". I sincerely welcome our respected and distinguished speakers; Prof. Datuk Chm. Ts. Dr. Taufiq Yap Yun Hin, Prof. Dr. Didik Prasetyoko and Prof. Dr. Aishah Abd Jalil, whose presence promise valuable insights and their expertise will unquestionably enhance the conference ambience.

Finally, on behalf of the ISTEC-GAMS 2023 committee, I hope that this event will be scientifically invigorating, while new collaborations and friendships can emerge and to encourage participants especially the young researchers to explore current research ideas in the field of the advanced materials and surfaces. Enjoy the event and your stay in Penang!

DR. MOHAMMAD SAIFULDDIN BIN MOHD AZAMI

ISTEC-GAMS 2023 ORGANISING COMMITTEE

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Vice Chancellor UiTM

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Certificate/Souvenirs
Mrs. Azliana Ramli

Information
Mr. Alif Faisal Ibrahim

ABOUT 5TH ISTEC-GAMS 2023

With the success of ISTEC 2014, 2016, 2018, 2020. UiTM Perlis is organizing 5th Edition of International Sciences, Technology, and Engineering Conference-Global Advanced Materials & Surfaces 2023 (**5th ISTEC-GAMS 2023**). This conference is a international event organized between **24-25 August** 2023 in **Georgetown Penang, Malaysia.** The conference will be conducted in a hybrid format which comprises both in-person and virtual presentations. The participants are welcome to present and participate in the format most convenient for them.

The theme of the conference is ***Empowering Materials Towards Future Sustainability*** that will be covering a wide extent to serve the speakers to showcase their highly insightful research work, knowledge from the field of Materials Science & Engineering, Nanomaterials and Nanotechnology, Chemistry, Textile, Physics, Metallurgy, Material Surface Sciences and Polymers to the audience and participants.

PLENARY & KEYNOTE SPEAKER

PLENARY SPEAKER

Professor Datuk ChM. Ts. Dr. Taufiq Yap Yun Hin
Catalysis Science and Technology Research Centre,
Faculty of Science,
Universiti Putra Malaysia
Jalan Universiti 1,
43400 Serdang, Selangor

Title Speech: *State of the Art of Heterogeneous Catalysts for Sustainable Biofuels Production*

KEYNOTE SPEAKER 1

Professor Dr. Didik Prasetyoko
Department of Chemistry,
Institut Teknologi Sepuluh Nopember,
Surabaya, 60111, Indonesia

Title Speech: *Transformation of Reutealis trisperma fruit into biofuels and nanocrystalline cellulose*

KEYNOTE SPEAKER 2

Professor Dr. Aishah Abd Jalil
Department of Chemical Engineering, Faculty of Chemical and Energy Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

Title Speech: *Involvement of wastewater treatment towards a more environmentally sustainable future*

OPENING CEREMONY

24th AUGUST 2023 (THURSDAY)
SRI MAS GRAND BALLROOM, HOTEL BAYVIEW
GEORGETOWN PENANG

0915-0945	Arrival of Guests
0945-1000	Arrival of Guest of Honour **Assoc. Prof. Ts. Dr. Shukor Sanim Mohd Fauzi** Rector of UiTM Perlis Branch
1000-1015	National Anthem and Wawasan Setia Warga UiTM Doa Recitation
1015-1025	**Welcoming Speech by:** **Ts. Gs. Dr. Ernieza Suhana Mokhtar** Deputy Rector of Research, Industrial Linkages, Community & Alumni Network, UiTM Perlis Branch **Officiating Speech by:** **Assoc. Prof. Ts. Dr. Shukor Sanim Mohd Fauzi** Rector of UiTM Perlis Branch Launching Gimmick Video Montage Presentation Dance Performance Presentation of Souvenirs Photo Session

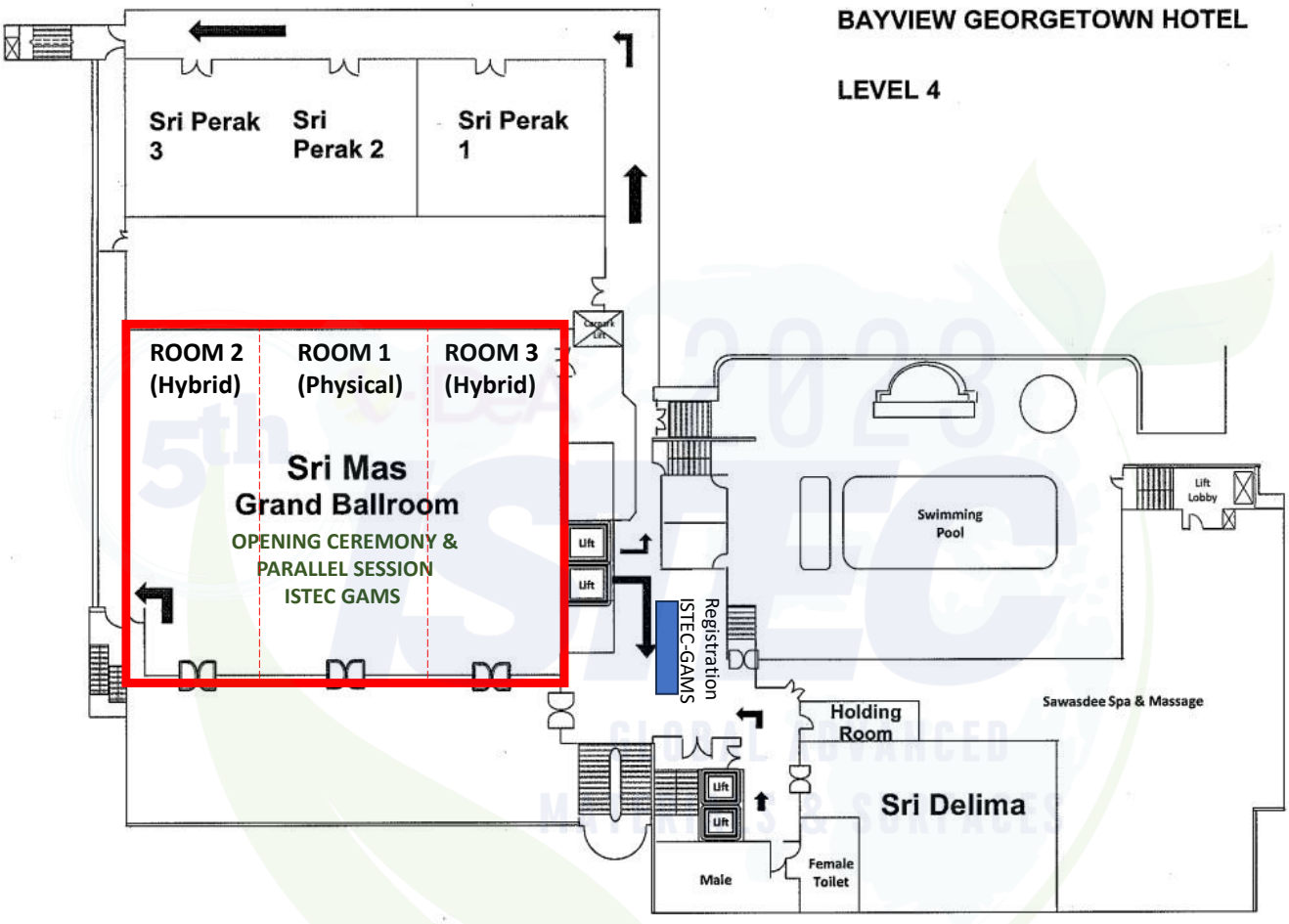
TENTATIVE OF ISTEC-GAMS 2023

DATE	TIME	ITINERARY
23rd August 2023 (Wednesday)	1400	Registration - *Lobby Sri Mas Ballroom*
24th August 2023 (Thursday)	0830	Registration - *Lobby Sri Mas Ballroom*
		Morning Tea Break - *Lobby Sri Mas Ballroom*
	0945	The arrival of Honorable Guests
	1000	Opening Ceremony - *Sri Mas Ballroom*
	1110	*Plenary Session - Sri Mas Ballroom* • **Professor Datuk Chm. Ts. Dr. Taufiq Yap Yun Hin** *Catalysis Science and Technology Research Centre, Faculty of Science, Universiti Putra Malaysia*
	1210	Lunch Break – *Kopitiam Restaurant*
	1415	Keynote Speaker - *Sri Mas Ballroom* • **Professor Dr. Didik Prasetyoko** *Department of Chemistry, Institut Teknologi Sepuluh Nopember, Indonesia*
	1445	• **Professor Dr Aishah Abd Jalil** *School of Chemical and Energy Engineering, Universiti Teknologi Malaysia*
	1515	Parallel Session 1 - *Sri Mas Ballroom*
	1615	Afternoon Tea Break - *Lobby Sri Mas Ballroom*
	1630	Parallel Session 1 - *Sri Mas Ballroom*
	1730	End of Day 2
25th August 2023 (Friday)	0800	Morning Tea Break - *Lobby Sri Mas Ballroom*
	0830	Parallel Session 2 - *Sri Mas Ballroom*
	1000	Parallel Session 3 - *Sri Mas Ballroom*
	1145	End of Conference

*Please refer to the layout Sri Mas Ballroom for parallel session

MAP OF BAYVIEW HOTEL GEORGETOWN, PENANG

LAYOUT SRI MAS BALLROOM
OPENING & PARALLEL SESSION



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ISTEC GAMS 2023 SCIENTIFIC PROGRAMME

24TH AUGUST 2023 (THURSDAY)

TIME			
1110 - 1210	**PLENARY SPEAKER** Professor Datuk Chm. Ts. Dr. Taufiq Yap Yun Hin Faculty of Science and Natural Resources, Universiti Malaysia Sabah **State of the Art of Heterogeneous Catalysts for Sustainable Biofuels Production**		
1210-1400	**Lunch Break (Kopitiam Restaurant)**		
1415-1445	**Keynote Speaker Session 1** Professor Dr. Didik Prasetyoko Department of Chemistry, Institut Teknologi Sepuluh Nopember		
1445-1515	**Keynote Speaker Session 2** Professor Dr Aishah Abd Jalil School of Chemical and Energy Engineering, Universiti Teknologi Malaysia		
	Parallel Session 1		
	ROOM 1 **Chairperson: DR ROZILAH RAJMI**	**ROOM 2 HYBRID PHYSICAL (P) & VIRTUAL (V)** **Chairperson: DR MOHAMMAD SAIFULDDIN MOHD AZAMI**	**ROOM 3 HYBRID PHYSICAL (P) & VIRTUAL (V)** **Chairperson: TS DR ABU HASSAN NORDIN**
1515-1530	**ID 32 – ROBERTO FERNANDEZ** *UNIVERSITY OF THE BASQUE COUNTRY UPV/EHU* *USE OF OPTIMIZATION TECHNIQUES BASED ON MULTI-RESPONSE SURFACE METHODOLOGY TO IMPROVE THE FRACTURE LIFE OF MATERIALS WORKING UNDER ADVERSE CREEP CONDITIONS*	**ID 49 – CHUFENG SUN (P)** *NORTHWEST MINZU UNIVERSITY* *EFFECT OF LOW TEMPERATURE ON PROPERTIES OF MOS_2-C COMPOSITE FILMS*	**ID 72 – NUREEL IMANINA BT ABDUL GHANI (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *AG-DOPED TIO_2 WITH TUNABLE AG^o AND AG^+ FOR ENHANCED PHOTOCATALYTIC DEGRADATION OF RR4 DYE*

1530-1545	**ID 55 – LU XINYU** *NORTHWEST MINZU UNIVERSITY, CHINA* *PREPARATION AND PERFORMANCE STUDY OF BIOMASS STRAW FOAMING MATERIAL*	**ID 41 – SOLHAN YAHYA (P)** *UNIVERSITI TEKNOLOGI MARA PERLIS* *THE POTENTIAL OF SOYBEAN AND GLYCINE AS CORROSION INHIBITORS FOR STEEL IN HYDROCHLORIC ACID*	**ID 95- SITI RAIHAN BT HAMZAH (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *IMMOBILIZED TIO_2 SURFACE INTERACTIONS WITH ENR/PVC AS POLYMER BINDER IN ACID PHOTOETCHING FOR RR4 DYE PHOTODEGRADATION*
1545-1600	**ID 114 - WAHIDA BINTI ABDUL RAHMAN (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *EFFECT OF VARIOUS PLASTICIZER TO THE PROPERTIES OF BIODEGRADABLE FILM DERIVED FROM FRUIT PEELS-MICROCRYSTALLINE CELLULOSE (MCC)*	**ID 92 – DR JEYASHELLY ANDAS (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *KAPOK DERIVED ACTIVATED CARBON CATALYST FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL*	**ID 87 – MUHAMMAD FARHAN BIN HANAFI (P)** *UNIVERSITI KUALA LUMPUR* *PHOTOCATALYTIC ACTIVITY AND STABILITY OF TIO2/ZNO CATALYST FOR PHENOL DEGRADATION UNDER VISIBLE LIGHT IRRADIATION*
1600-1615	**ID 65 - ANJAM WAHEED** *UNIVERSITY KEBANGSAAN MALAYSIA* *BISMUTH IRON MANGANESE OXIDE NANOCOMPOSITE AS AN EFFICIENT ELECTRODE MATERIAL FOR SUPERCAPACITOR APPLICATION*	**ID 39 – BISMA PARVEEZ (V)** *INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA* *INVESTIGATION OF MORPHOLOGY AND COMPRESSIVE PROPERTIES OF DIAMOND REINFORCED POROUS ALUMINIUM COMPOSITES*	**ID 22 – NIK MUHAMMAD IZZUDIN BIN NIK LAH (V)** *UNIVERSITI TEKNOLOGI MALAYSIA* *UNRAVELLING THE EFFICIENT REMOVAL OF TETRACYCLINE HYDROCHLORIDE OVER FIBROUS SILICA BISMUTH OXIDE PHOTOCATALYST*
1615-1630	**Tea Break (Lobby Sri Mas Ballroom)**		
1630-1645	**ID 84 – NABILAH AKEMAL MUHD ZAILANI** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *THE EFFECT OF 1-ETHYL-3-METHYLIMIDAZOLIUM ACETATE ON THE STRUCTURAL, MORPHOLOGICAL AND ELECTRICAL PROPERTIES OF PMMA-BASED ELECTROLYTES FILMS*	**ID 43 – NORAZURA IBRAHIM (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *CHARACTERISATION OF RECYCLED HDPE/LDPE BLENDS*	**ID 102 - DIYANA FAZIHA MOHAMAD (V)** *UNIVERSITI KUALA LUMPUR* *MAGNETIC BEADS CATALYST FOR ORGANIC POLLUTANT REMOVAL: PHOTOCATALYTIC EFFICIENCY*

1645-1700	**ID 93 – DR ZULIAHANI AHMAD** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *CONDUCTIVE AND MECHANICAL PROPERTIES OF SILICONE ELECTRICALLY CONDUCTIVE ADHESIVES (ECAS) FILLED GRAPHENE-CARBON BLACK (GR-CB)*	**ID 56 – NURNADIA BT ANDENAN (V)** **,** *UNIVERSITI PERTAHANAN NASIONAL MALAYSIA* *LESS TOXIC COLOUR SMOKE BOMB CHARACTERISTICS*	**ID 20 – NURUL SYAHEERA BINTI RAZALI (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *FABRICATION AND CHARACTERIZATION OF ER^{3+}-DOPED SIO_2-TIO_2 NANOFIBER PRODUCED BY ELECTROSPINNING*
1700-1715	**ID 63 - DR IZDIHAR KAMAL** *KPJ HEALTHCARE UNIVERSITY COLLEGE* *TENSILE AND CHEMICAL PROPERTIES OF CLINICAL-GRADE KIDNEY PHANTOM BASED ON POLYDIMETHYLSILOXANE AND ELASTOMER*	**ID 61 – ATIQAH NAJWA ZAINUDDIN (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *THE INFLUENCE OF GEOPOLYMER ON SOIL MECHANICAL STRENGTH IN LANDFILL SOIL LINER APPLICATION*	**ID 19 – SITI AMIRA OTHMAN (V)** *UNIVERSITI TUN HUSSEIN ONN MALAYSIA* *STUDY OF THE RADIATION EFFECT ON GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PD) DEFICIENCY ERYTHROCYTES*
1715-1730	**ID 48 – GONGTAO DING** *NORTHWEST MINZU UNIVERSITY* *ONE-STEP METHOD FOR PREPARATION OF KERATIN NANOMATERIALS: STEAM FLASH EXPLOSION TREATMENT*	**ID 97 - DR TEO SIOW HWA (V)** *UNIVERSITI MALAYSIA SABAH* *A PEROVSKITE SOLAR CELL USING LANTHANUM-DOPED NICKEL OXIDE HOLE TRANSPORTING LAYER*	**ID 15 – INTAN QHUZAIRIN BT ZAHARUDDIN (V)** *UNIVERSITI TEKNOLOGI MARA PERLIS* *STUDIES ON THE EFFECT OF THE INCARCERATION OF DEEP EUTECTIC SOLVENT WITH DIFFERENT HYDROXYL POSITIONS DURING FREE RADICAL POLYMERISATION OF POLY(METHYL METHACRYLATE) ON ITS STRUCTURAL AND IONIC CONDUCTIVITY PROPERTIES*
1730	**End of the conference days 1**		

ISTEC GAMS 2023 SCIENTIFIC PROGRAMME

25TH AUGUST 2023 (FRIDAY)

	Parallel Session 2		
0800-0830	**Morning Tea Break (Lobby Sri Mas Ballroom)**		
	ROOM 1 **Chairperson: Mrs Zamzila Erdawati Zainol**	**ROOM 2 HYBRID PHYSICAL (P) & VIRTUAL (V)** **Chairperson: DR NORZAHIR BIN SAPAWE**	**ROOM 3 HYBRID PHYSICAL (P) & VIRTUAL (V)** **Chairperson: Mrs. NUR RAIHAN MOHAMED**
0830-0845	**ID 47 – NOOR AMNANI BT MOHD SOFI** *UNIVERSITI TEKNOLOGI MARA CAWANGAN SHAH ALAM* *RHEOLOGICAL AND MECHANICAL PERFORMANCE OF HIGHLY FLOWABLE CONCRETE INCORPORATING EGGSHELL POWDER AS PARTIAL CEMENT REPLACEMENT*	**ID 54 – WEI SHUAN** *NORTHWEST MINZU UNIVERSITY* *PREPARATION OF BIOMASS-DERIVED CARBON MATERIALS AND THEIR APPLICATION IN SUPERCAPACITORS*	**ID 79 – NADIAH SABIHAH BT MD NATAR (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *THE ROLE OF NITROGEN-DOPED TIO_2 SUPPORTED BY PLATINUM CATALYST SYNTHESIZED VIA VARIOUS MODE PREPARATIONS FOR PHOTOCATALYTIC ENHANCEMENT*
0845-0900	**ID 7 – ADZRIE BIN BAHARUDIN** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *ELECTRICAL AND MECHANICAL PROPERTIES OF SILICONE ELECTRICALLY CONDUCTIVE ADHESIVES (ECAS) FILLED CARBON BLACK*	**ID 83 – DR. ROZILAH RAJMI (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *EFFECT OF PR^{3+} SUBSTITUTION AT THE A-SITE ON THE STRUCTURAL AND ELECTRICAL PROPERTIES OF ELECTRON-DOPED LA-BASED MANGANITES*	**ID 98- MUHAMMAD AFIQ BIN ROSLI (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *ELECTRON-DRIVEN ENHANCEMENT OF RR4 DYE PHOTOELECTROCHEMICAL DEGRADATION USING ENR/PVC POLYMER BINDER AG-TIO_2*
0900-0915	**ID 109 - OMMY MADINA BINTI ABDUL HALIM** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *MODIFICATION ON PT DOPED TIO_2 SUPPORTED VARIOUS DYES SENSITIZER FOR HYDROGEN PRODUCTION UNDER PHOTO ELECTROCHEMISTRY PROCESS*	**ID 69 – PROF MADYA DR NOR AZLIAN ABDUL MANAF (P)** *UNIVERSITI PERTAHANAN NASIONAL MALAYSIA* *GRADED BANDGAP DEVICE ARCHITECTUTE TO ENHANCE EFFICIENCY OF PEROVSKITE SOLAR CELLS*	**ID 104 - NUR IZZATI NABILAH BINTI ZANAL (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *COMPARISON STUDY ON IMMOBILIZED AG-TIO_2/ENR/PVC USING DIFFERENT PREPARATION METHOD FOR PHOTODEGRADATION OF METHYLENE BLUE DYE*

0915-0930	**ID 101 - NUR SYAMIMI BINTI MOHD ABD ADZIS** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *ENHANCEMENT THE ROLE OF PLATINUM AS ELECTRON MEDIATOR IN Z-SCHEME PLATINUM DOPED BISMUTH TUNGSTATE/GRAPHITIC CARBON NITRIDE VIA IN-SITU AND ONE-STEP SYNTHESIS FOR PHOTODEGRADATION OF RHODAMINE B DYES*	**ID 62 – CHAN KOK SHENG (V)** *UNIVERSITI MALAYSIA TERENGGANU* *EFFECT OF SODIUM BENZOATE CONCENTRATION ON ZINC CORROSION IN SEAWATER*	**ID 27 – KAMARUL RIDWAN BIN ZAINUDDIN (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *PREPARATION OF SULFONATED LIGNIN-BASED CARBON CATALYST FOR GLUCOSE ETHANOLYSIS TO ETHYL LEVULINATE*
0930-0945	**ID 99 - NUR HIDAYATUL SYAZWANI BINTI SUHAIMI** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *COMPARING AG-DECORATED PHOTOCATALYSTS WITH DIFFERENT G-C_3N_4 / TIO_2 PREPARATIONS FOR RED REACTIVE 4 (RR4) DYE DEGRADATION*	**ID 64 – NORASMAH BT MOHAMMED MANSHOR (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *SOLUBILITY, MECHANICAL AND THERMAL PROPERTIES OF STARCH-CHITOSAN FILM CONTAINING RED CABBAGE EXTRACT*	**ID 78 – NG CHI HUEY (V)** *UNIVERSITI MALAYSIA SABAH* *GE PASSIVATION FOR A QUASI 2D/3D PEROVSKITE SOLAR CELL*
0945-1000	**ID 100 - RAHIL BINTI AZHAR** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *FABRICATED OF TIO2/PT/G-C3N4 PHOTOCATALYST FOR ENHANCED PHOTOCATALYTIC PERFORMANCE ON RR4 DYE DEGRADATION*	**ID 71 - SITI NOR FARHANA ZAKARIA (V)** *UNIVERSITI MALAYSIA SABAH* *PERFORMANCE OF AZADIRACHTA INDICA AS BIO-COAGULANT IN LANDFILL LEACHATE TREATMENT*	**ID 81 – SITI AMIRA OTHMAN (V)** *UNIVERSITI TUN HUSSEIN ONN MALAYSIA* *EFFECT OF IODINE ADSORPTION AS A TRACE ELEMENT IN THYROID DISEASE*
	Parallel Session 3		
	ROOM 1 **Chairperson: DR NABILAH AKEMAL MUHD ZAILANI**	**ROOM 2 HYBRID PHYSICAL (P) & VIRTUAL (V)** **Chairperson: DR ZULIAHANI AHMAD**	**ROOM 3 HYBRID PHYSICAL (P) & VIRTUAL (V)** **Chairperson: DR SOLHAN YAHYA**
1000-1015	**ID 112 - DR NUR NASULHAH KASIM** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *EFFECT OF SEQUENTIAL PRE-TREATMENT ON THE THERMAL BEHAVIOR OF PRETREATED PALM EMPTY FRUIT BUNCH USING THERMAL GRAVIMETRIC ANALYZER*	**ID 85 – AZURAIDA BT AMAT (P)** *UNIVERSITI PERTAHANAN NASIONAL MALAYSIA* *EFFECT OF CE^{3+} AND CE^{4+} IN BORO-TELLURITE BASED GLASS ON OPTICAL AND STRUCTURAL PROPERTIES*	**ID 113 - DR NON DAINA MASDAR (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *THE ANALYSIS OF RICE BRAN-LATOK (RILA) EXTRACTS FOR HYPERPIGMENTATION SERUM*

1015-1030	**ID 53 – YANBIN WANG** *NORTHWEST MINZU UNIVERSITY* *TRIBOLOGICAL PROPERTIES OF ORGANOGUANIDINE PHOSPHATE IONIC LIQUIDS IN POLYETHYLENE GLYCOL*	**ID 75 – EFIL YUSRIATO (P)** *UNIVERSITY TUN HUSSEIN ONN MALAYSIA (UTHM)* *PERFORMANCE OF AUTOCLAVED AERATED CONCRETE (AAC) CONTAINING RECYCLED CERAMIC AND GYPSUM WASTE*	**ID 42 – NUR DIANA NASUHA BT MOHAMAD KAMSANI (P)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *ADHESION AND CORROSION PROPERTIES OF EPOXY FILLED MICROCRYSTALLINE CELLULOSE (MCC) PRIMER COATINGS ON METAL SUBSTRATE*
1030-1045	**ID 35 – DR MOHAMMAD SAIFULDDIN** *UNIVERSITI TEKNOLOGI MARA PERLIS* *COMPARISON STUDY ON THE SILVER OXOSALTS PHOTOCATALYST FOR THE PHOTODEGRADATION OF 2-CHLOROPHENOL*	**ID 29 – JIYAUL HAQUE (P)** *UNIVERSITY OF MALAYSIA TERENGGANU* *AMINO ACID DERIVED IMIDAZOLIUM ZWITTERION AS GREEN INTERFACIAL CORROSION INHIBITOR FOR COLD ROLLED STEEL: EXPERIMENTAL AND THEORETICAL STUDIES*	**ID 12 – NURUL JANNAH ABDUL RAHMAN (V)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN SABAH* *COUROUPITA GUIANENSIS FRUIT AS ELECTRODE MATERIAL FOR ELECTRIC DOUBLE LAYER CAPACITOR (EDLC)*
1045-1100	**ID 96 - NUR AIEN BINTI MUHAMAD** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *WATER BASED HYDROTHERMAL SYNTHESIS IN THE PRODUCTION OF G-C_3N_4/TIO_2 COMPOSITE FOR PHOTOCATALYTIC EFFICIENCY ON RR4 DYE*	**ID 45 – SITI ANISAH BT AWANG (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *MICROSTRUCTURE AND MACROSTRUCTURE BEHAVIOUR OF SELF-COMPACTING CONCRETE INCORPORATING EGGSHELL EXPOSED TO ELEVATED TEMPERATURE*	**ID 57 – MUHAMMAD ZAKWAN YA'ACOB (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *COMMERCIAL HYDROPHOBIC SURFACES FOR ELECTROWETTING-ON-DIELECTRIC MECHANISM*
1100-1115	**ID 105 - NUR HAFIKAH BINTI MUSTAPHA** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *SILVER DOPED CADMIUM SULFIDE/ZINC OXIDE:PARAMETER STUDY ON PHOTODEGRATION OF REACTIVE RED 4 DYE*	**ID 46 – HAFIZAH BT ARIFF (V)** *UNIVERSITI PERTAHANAN NASIONAL MALAYSIA* *EFFICACY EVALUATION OF OXIME INCORPORATED OIL PALM BASED LIQUID SOAPS TO DECONTAMINATE ORGANOPHOSPHATE COMPOUNDS*	**ID 44 – NUR SHAZWANI BINTI ABDUL LATIF (V)** *UNIVERSITI PERTAHANAN NASIONAL MALAYSIA* *ENHANCEMENT OF SOLID SOAP ORGANOPHOSPHATE DECONTAMINATION EFFICACY USING 2-PYRIDINE ALDOXIME METHIODIDE (2-PAM): A PHYSICOCHEMICAL PROPERTIES OF THE SYNTHESIED SOAP*

1115-1130		**ID 82 – SITI AMIRA OTHMAN (V)** *UNIVERSITI TUN HUSSEIN ONN MALAYSIA* *CHARACTERISATION OF IRRADIATED DETERGENT USING BOVINE SERUM ALBUMIN (BSA)*	**ID 94 – NURUL FATIHAH BINTI NAZUA (V)** *UNIVERSITI TEKNOLOGI MARA CAWANGAN PERLIS* *DESULFURIZATION AND OPTIMIZATION OF HIGH SULFUR JAMBI PROVINCE COAL BY ULTRASONIC-ASSISTED PROCESS USING PEROXYACETIC ACID (PAA) TREATMENT*
1130-1145		**ID 67 – SITI AISHAH ABDULLAH SUHAIMI (V)** *KPJ HEALTHCARE UNIVERSITY COLLEGE* *A METAL ARTIFACT REDUCTION (MAR) ALGORITHM FOR ORTHOPEDIC METAL ARTIFACTS IN COMPUTED TOMOGRAPHY (CT) IMAGE RECONSTRUCTION: A PHANTOM STUDY*	**ID 59 – FARAH LIYANA BT MUHAMMAD KHIR (V)** *UNIVERSITI TEKNOLOGI MARA SHAH ALAM* *HYDROXYLATION TREATMENT STUDY ON THE GAN SAMPLES FOR THE SURFACE FUNCTIONALISATION*
1145-0100	**Lunch (Kopitiam Restaurant)** **End of the conference**		

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