

**Oral Presentation Day 1**  
27 November 2024 (Wednesday)

Session 1A Venue: Grand Ballroom		<b>Topic: Public Health and Medical Device Innovation</b>	
		<p><i>Link for Microsoft Teams:</i> Meeting Code: 410 344 850 113 Meeting Password: 7En6oW6o <a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d</a></p>	
Time (GMT + 8)	Abstract ID	Title & Authors	Physical/Online
10:45 – 12:30	MedDev-71	<b>AUTOLOGOUS DRUG-LOADED ERYTHROCYTES FOR TARGETED DELIVERY OF ANTIBIOTICS FOR THE TREATMENT OF SURGICAL INFECTIONS</b> <i>Berikkhanova K., Gulyayev A., Daniyeva N., Zakirov E., Bikhanov N., Zhilkaidarov A., Zhakhina A. and Sultan E.</i>	Physical
	MedDev-74	<b>BIG DATA AND AI IN POPULATION HEALTH RESEARCH: NU EXPERIENCE</b> <i>Abduzhappar Gaipov, Temirgali Aimyshev, Gulnur Zhakhina and Ruslan Akhmedullin</i>	Physical
	MedDev-72	<b>PASSENGER RESPONSE AND FIELD EXPERIMENTS BASED THERMAL COMFORT AND AIR QUALITY STUDY OF SEMI-OUTDOOR CAMPUS BUS STATIONS IN THE TROPICS</b> <i>Yin Liu and Mohd Sayuti Bin Ab Karim</i>	Physical
	MedDev-75	<b>ADDITIVE MANUFACTURING OF PATIENT-SPECIFIC INTERVERTEBRAL DISC MODELS FOR SPINAL CORD COMPRESSION MANAGEMENT</b> <i>Rajan S. Vraitch, Xianghong Ma, Francesco Giorgio-Serchi, Eirini Theodosiou, Adrian Gardner and Jean-Baptiste R.G. Souppes</i>	Online
	MedDev-76	<b>TRENDS AND PATTERNS IN MORTALITY FROM NON-COMMUNICABLE DISEASES IN SRI LANKA</b> <i>Hansa Jayarathne and Liwan Liyanage</i>	Online

<b>Session 1B</b> <i>Venue: Tactic 1</i>		<b>Topic: Advanced Manufacturing I</b>  <i>Link for Microsoft Teams:</i> Meeting Code: 410 344 850 113 Meeting Password: 7En6oW6o <a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d</a>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
10:45 – 12:30	AdvManuf-38	<b>MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION OF HIMN-HARDFACED WITH TWO TYPES OF BUFFER LAYER ON Q55 RAILROADS</b> <i>Defi Pramesti, Winarto Winarto and Sabandi Ismadi</i>	<b>Physical</b>
	AdvManuf-312	<b>MACHINE LEARNING APPROACH FOR DEFECT PREDICTION IN METAL 3D PRINTING FOR AEROSPACE APPLICATIONS</b> <i>Yerlik Gabdullaa, Md. Hazrat Ali and Essam Shehab</i>	<b>Physical</b>
	AdvManuf-33	<b>OPTIMISED PATH PLANNING AND PART IDENTIFICATION FOR AEROSPACE AUTOMATED PAINTING SYSTEMS</b> <i>Iqraq Kamal, Veronica Lestari Jauw, Ahmad Syazwan Mohd Hisaburi, Muhammad Nur Akmal Mohamad Razif and Sivadas Chandra Sekaran</i>	<b>Physical</b>
	AdvManuf-311	<b>REAL-TIME DEFECT DETECTION AND INTERVENTION SYSTEM FOR FDM 3D PRINTERS USING ACCELEROMETER DATA</b> <i>Kemel Shomenov, Md Hazrat Ali and Essam Shehab</i>	<b>Physical</b>
	AdvManuf-32	<b>DEVELOPING COST-EFFECTIVE INDIRECT MESOSTRUCTURE ADDITIVE MANUFACTURING USING ELECTROFORMING</b> <i>Farid Rabiei Motmaen, Seyed Morteza Mousavi and Javad Akbari</i>	<b>Online</b>
	AdvManuf-36	<b>IMPACT OF BEAM POWER AND SPEED ON TEMPERATURE DISTRIBUTION OF ADDITIVE MANUFACTURING PROCESS FOR ALSI10MG, TI6AL4V AND SS316 ALLOYS: NUMERICAL STUDY</b> <i>Abdulaleem Mohammed Alobaisi, Nukman Yusuf, Mohd Sayuti Ab Karim and Khaled Ahmed</i>	<b>Online</b>

Session 1C Venue: Tactic 4		Topic: Material Processing I	
		<p>Link for Microsoft Teams: Meeting Code: 470 229 256 203 Meeting Password: N56Wy9Bq</p> <p><a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGMwY2MwNjUtMWRkZS00NjJiLWI3MDgtMjg5MzlmYTl2NTk3%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGMwY2MwNjUtMWRkZS00NjJiLWI3MDgtMjg5MzlmYTl2NTk3%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d</a></p>	
Time (GMT + 8)	Abstract ID	Title & Authors	Physical/Online
10:45 – 12:30	MatPro c-417	<b>FABRICATION OF MIXED TIO2/ZRO2 NANOTUBES ON ALUMINIUM AA3003-H14 FOR BIOMEDICAL APPLICATION</b> <i>M. Sarraf and A.R. Bushroa</i>	Online
	MatPro c-47	<b>EFFECT OF FEMTOSECOND LASER MICROMACHINING ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF BIOMEDICAL TI ALLOYS</b> <i>Muhammad Farzik Ijaz and Tariq Ahmed Qashash</i>	Online
	MatPro c-412	<b>MECHANICAL PROPERTIES OF FIBER METAL LAMINATES WITH UNSATURATED POLYESTER RESIN: EFFECTS OF FIBER ORIENTATIONS</b> <i>Awang Mohamad Ihsan Bin Awang Julaihi, Irina Wong Ming Ming, Sebastian Dayou and Ngu Heng Jong</i>	Online
	MatPro c-43	<b>RECENT ADVANCES IN SUSTAINABLE COMPOSITE MATERIALS AND MANUFACTURING</b> <i>Jean-Baptiste R. G. Soupez</i>	Online
	MatPro c-411	<b>DISENTANGLING CARBON NANOTUBES FOR REINFORCING POLYURETHANE ADHESIVE COMPOSITES USING A CHEMICAL-FREE APPROACH</b> <i>Ravil Ashirmametov, Abzal Aznabayev, Madeniyet Bespayev, Konstantinos V. Kostas and Sherif Araby</i>	Online
	MatPro c-413	<b>POLYURETHANE NANOCOMPOSITES WITH HIGH MECHANICAL PERFORMANCE AND DURABILITY USING MODIFIED A-ZIRCONIUM PHOSPHATE NANOSHEETS</b> <i>Tomiris Zhmagaliyeva, Azamat Malgazhdar, Umut Bakhbergen and Sherif Araby</i>	Online
	MatPro c-418	<b>EFFECT OF INTERFACIAL LAYERS ON THE STRUCTURAL AND OPTICAL PROPERTIES OF MULTI-JUNCTION GE-TIO2 THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS</b> <i>Iqra Khalid, Khadeeja Ahsan, Abdul Faheem Khan and Bushroa Binti Abdul Razak</i>	Online
	Matpro c-419	<b>INFLUENCES OF RICE HUSK ASH FORMULATED INTUMESCENT COATING ON CHARRING EFFECTS AND THERMAL PROTECTION AND FOR STEEL</b> <i>Syed Niaz Hossain, Faiz Ahmad, Muhammad Amirul and Kee Kok Eng</i>	Online

<b>Session 1D</b> <i>Venue: Tactic 7</i>		<b>Topic: STEM Education and Communication Science, Artificial Intelligence &amp; Industrial Data Science and Manufacturing Management</b>  <i>Link for Microsoft Teams:</i> Meeting Code: 414 355 304 458 Meeting Password: Zb6YJ2rh <a href="https://teams.microsoft.com/l/meetup-join/19%3a0ZIF2h6R5V0_6tOmlTmOwmzOOgkNiGXYgUJJTrSKOOU1%40thread.tacv2/1732607299682?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11f66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3a0ZIF2h6R5V0_6tOmlTmOwmzOOgkNiGXYgUJJTrSKOOU1%40thread.tacv2/1732607299682?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11f66a%22%7d</a>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
10:45 – 12:30	Edu-62	<b>LANGUAGE AND COMMUNICATION IN SCIENCE IN THE CONTEXT OF STEM EDUCATION</b> <i>Kalani Irosha Dharmasiri</i>	<b>Online</b>
	Edu-64	<b>DEVELOPMENT OF SCENARIO BASED MODELLING FRAMEWORK FOR ENGINEERING EDUCATION AND TRAINING</b> <i>Tammam Kaid, Vince Zevallos Herencia, Li Wang, Yuguo Zhuo, Fatih Ates and James Ren</i>	<b>Online</b>
	AI-58	<b>A DEEP FUSION OF MULTIPLE FEATURE INFORMATION FRAMEWORK FOR PREDICTING COLD-ROLLED STRIP FLATNESS</b> <i>Jinbo Zhou, Xiaochen Wang, Youzhao Sun, Quan Yang, Xianghong Ma, Yuchun Xu, Jiaqi Chen, Hainan He, Weijian Tong</i>	<b>Online</b>
	AI-15	<b>ARABIC SPEECH RECOGNITION WITH DIACRITICS USING DEEP LEARNING: HOLY QUR'AN RECITATION AS CASE STUDY</b> <i>Mohammed Baggash Ghaleb, Mohammed Abdo Hashem Ali, Aya Najeeb, Shaima Nasser and Zal-Alham Sadeq</i>	<b>Online</b>
	AI-16	<b>DEVELOPMENT OF AI-BASED MEASUREMENT SYSTEM TOWARDS INTELLIGENT AUTO-TRACKING UMBRELLA</b> <i>Mohammed Baggash Ghaleb, Mohammed A. H. Ali, Ayman Rafea, Wazir Khaled, Osamah Mohammed and Laith Abdulwahab</i>	<b>Online</b>
	ManufMg m-51	<b>HARVEST SMART: AN ERGONOMIC FRUIT HARVESTER FOR INCREASED PRODUCTIVITY AND WORKER WELL-BEING</b> <i>M.Rajesh, G Karthik Reddy and Komal Kulkarni</i>	<b>Online</b>

<b>Session 2A</b> <i>Venue: Tactic 1</i>		<b>Topic: AR/VR Devices, Systems and Applications &amp; Artificial Intelligence &amp; Industrial Data Science</b>  <i>Link for Microsoft Teams:</i> Meeting Code: 410 344 850 113 Meeting Password: 7En6oW6o <a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d</a>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
14:00 – 16:30	AR-24	<b>PRINCIPLES OF AERIAL DISPLAY AND ITS APPLICATIONS FOR GLASSES-FREE AR AND STEAM EDUCATION MATERIALS</b> <i>Hirotsugu Yamamoto, Kei Horio, Mohd Ridha Muhamad, Shin Hara, Chiharu Ohga, and Shiro Suyama</i>	Physical
	AR-23	<b>3D MAGNETIC INDUCTION TOMOGRAPHY SENSOR DESIGN USING MULTIPHYSICS SOFTWARE FOR DEFECT DETECTION IN WELDING PIPE</b> <i>Kurnia Nugraha, Winarto Winarto and Didied Haryono</i>	Physical
	AR-21	<b>BRIDGING THE GAP: A MIXED REALITY TRAINING EXPERIENCE FOR AUTOMOTIVE MANUFACTURING</b> <i>Nashrah Hani Jamadon, Mohamad Hilman Nordin and Darween Reza</i>	Physical
	AI-11	<b>ADVANCING NATURAL LANGUAGE PROCESSING: A COMPARATIVE STUDY OF TEXT REPRESENTATION AND WORD EMBEDDING TECHNIQUES</b> <i>Muhammad Iqbal Abu Latiffi, Mohd Ridzwan Yaakub and Azuraliza Abu Bakar</i>	Physical
	AI-12	<b>KHALIFAH: EXPLORING AI'S IMPACT THROUGH INTERACTIVE ART</b> <i>Hilman Nordin, Darween Reza and Syafiq Ali'am</i>	Physical
	AI-14	<b>MACHINE LEARNING-DRIVEN INSIGHTS INTO INDUSTRIAL LIGHTING ENERGY CONSUMPTION: ENHANCING ENERGY EFFICIENCY AND SUSTAINABILITY</b> <i>Anam Nawaz Khan, Qazi Waqas Khan, Misbah Bibi, Rashid Ahmad and Do Hyeun Kim</i>	Physical

<b>Session 2B</b> <i>Venue: Tactic 4</i>		<b>Topic: Advanced Manufacturing II &amp; Manufacturing Management</b>  <i>Link for Microsoft Teams:</i> Meeting Code: 470 229 256 203 Meeting Password: N56Wy9Bq <a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGMwY2MwNjUtMWRkZS00NjJiLWI3MDgtMjg5MzlmYTl2NTk3%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11f866a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGMwY2MwNjUtMWRkZS00NjJiLWI3MDgtMjg5MzlmYTl2NTk3%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11f866a%22%7d</a>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
14:00 – 16:30	AdvManuf-39	<b>SIMULATION BASED DESIGN OF SIMULATED MOVING BED REACTOR FOR THE PRODUCTION OF ETHYL CHLORO ACETATE</b> <i>Chhavi Gupta and Sanjay M. Mahajani</i>	Physical
	AdvManuf-313	<b>OPTIMISED 3D MODELLING FOR ADDITIVE MANUFACTURING OF COPPER-10TIN OPEN-CELL METAL FOAM</b> <i>Robert Chukwuemeka, Nur Amirah Mohd Zahri1, Muhammad Farid Syazwan Hassan and Naqiuddin Wahab</i>	Physical
	AdvManuf-314	<b>OPTIMIZING FUSED DEPOSITION MODELLING: ENHANCING SUSTAINABILITY AND PROCESS EFFICIENCY</b> <i>Khairul F. M. and Faiz M. T.</i>	Physical
	ManufMgm-52	<b>OPTIMIZING MANUFACTURING OPERATIONS THROUGH DYNAMIC DATA VISUALIZATION WITH POWER BI DASHBOARDS</b> <i>Nur Shaliyana Ilias, Mohd Azraie Mohd Azmi and Cheong Yew Wee</i>	Physical
	ManufMgm-53	<b>INTEGRATION MODEL FOR EVALUATING COOLANT EFFECTS ON TOOL WEAR AND SURFACE QUALITY IN SUSTAINABLE BALL END MILLING</b> <i>Ahmad Saifuddin Azraie and Faiz Mohd Turan</i>	Physical

<b>Session 2C</b> <i>Venue: Grand Ballroom</i>		<b>Topic: Material Processing II</b>  <i>Link for Microsoft Teams:</i> Meeting Code: 410 344 850 113 Meeting Password: 7En6oW6o <a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDYyNDljYmMtNmUzNi00YTl1LTgxYWUtMjM3ODk0NDUwNTMz%40thread.v2/0?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d</a>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
14:00 – 16:30	MatProc-420	<b>OPTIMIZED POTASSIUM CHLORIDE ANODIZING PROCESS FOR ENHANCED AIPU INTERFACIAL ADHESION</b> <i>Madina Moldabayeva, Umut Bakhbergen and Sherif Araby</i>	<b>Physical</b>
	MatProc-415	<b>NANOMATERIAL AGGREGATION BY SMART CONTROL SUGGESTS A NOVEL BIO-MANUFACTURING IN ANTICANCER</b> <i>Yingqiu Xie</i>	<b>Physical</b>
	MatProc-41	<b>MEMBRANE GAS SEPARATION IMPROVEMENT FOR ACID GAS REMOVAL FROM NATURAL GAS PROCESSING</b> <i>Ratikorn Sornumpol, Prathana Nimmanterdwong, and Kreangkrai Maneeintr</i>	<b>Physical</b>
	MatProc-45	<b>EFFECT OF SOLUTION HEAT TREATMENT ON THE MICROSTRUCTURE AND DEGREE OF SENSITIZATION IN HEAT AFFECTED ZONE OF DISSIMILAR WELD TP304 STAINLESS STEEL JOINED WITH 335 P11</b> <i>Sabandi Ismadi, Winarto Winarto, B Suharno, Defi Pramesti and Namyrotu Fuada</i>	<b>Physical</b>
	MatProc-46	<b>SIMULATION OF CASTING TEMPERATURE FIELDS BASED ON U-NET NEURAL NETWORK</b> <i>Qichao Zhao and Jinwu Kang</i>	<b>Physical</b>
	MatProc-48	<b>OPTICAL FILM IMPROVEMENT FOR MEDICAL AND FOOD PACKAGING FILMS</b> <i>Abdulmohsen N Alqahtani and Maher A Alrashid</i>	<b>TBC</b>

<b>Session 2D</b> <i>Venue: Tactic 7</i>		<b>Topic: STEM Education and Communication Science</b>	
		<p><i>Link for Microsoft Teams:</i>  Meeting Code: 414 355 304 458  Meeting Password: Zb6YJ2rh</p> <p><a href="https://teams.microsoft.com/l/meetup-join/19%3aOZIF2h6R5V0_6tOmITmOwmzOOgkNiGXYgUJJTrSKOOU1%40thread.tacv2/1732607299682?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3aOZIF2h6R5V0_6tOmITmOwmzOOgkNiGXYgUJJTrSKOOU1%40thread.tacv2/1732607299682?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d</a></p>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
14:00 – 16:30	Edu-65	<b>CHILDREN INTERNATIONAL PROBLEM-BASED LEARNING</b> <i>Horio Kei, Yamamoto Hirotsugu, Ohga Chiharu and Mohd Ridha bin Muhamad</i>	<b>Physical</b>
	Edu-61	<b>EFFECT OF E-LEARNING ON ATTITUDE AND PERFORMANCE OF DIFFICULT CONCEPTS IN PHYSICS AMONG SECONDARY SCHOOL STUDENTS IN ZARIA, NIGERIA</b> <i>Shitu Mohammeda and Ibrahim Abdullahi Inuwaa</i>	<b>TBC</b>
	Edu-63	<b>AN INVESTIGATION OF FACTORS ASSOCIATED WITH THE MENTAL HEALTH OF UNDERGRADUATES IN THE FAS, USJ</b> <i>Randi S. De Alwis and Dias P.</i>	<b>TBC</b>

**Oral Presentation Day 2**  
28 November 2024 (Thursday)

<b>Session 3</b> <i>Venue: Block D IR Cube, Faculty of Engineering</i>		<b>Topic: Material Processing and Advanced Manufacturing</b>  <i>Link for Microsoft Teams:</i> Meeting Code: 478 693 231 586 Meeting Password: Qh6JY3qf <a href="https://teams.microsoft.com/l/meetup-join/19%3ansJdSHifBMW4BHYH1IAIE_8DsfiTzeHVgMxRckRTQ1%40thread.tacv2/1732607417316?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ansJdSHifBMW4BHYH1IAIE_8DsfiTzeHVgMxRckRTQ1%40thread.tacv2/1732607417316?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d</a>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
10:00 – 12:15	MatProc-49	<b>EFFECTS OF VARIOUS ENVIRONMENTAL CONDITIONS ON THE STABILITY OF SINGLE-LAYER ALGINATE MICROCAPSULES</b> <i>Nur Syazana Aziz, Muhamad Nizar Amir, Swee Seong Tang, Tuan Zaharinie and Suriani Ibrahim</i>	<b>Physical</b>
	MatProc-416	<b>FABRICATION OF TIO2 DOPED WITH SNO2 THIN FILMS TO IMPROVE ANTIFOGGING AND SELF-CLEANING PROPERTIES FOR SOLAR CELL APPLICATION</b> <i>N.A. Ruzali, A.R. Bushroa and M.Z. Ibrahim</i>	<b>Physical</b>
	MatProc-410	<b>NONLINEAR EVALUATION OF RESIDUAL MECHANICAL CHARACTERISTICS OF COLD-ROLLED- DUPLEX STAINLESS-STEEL REINFORCEMENT BARS FOLLOWING HIGH-TEMPERATURE EXPOSURE</b> <i>Haitham Abdallah Khamis AL Adawani, Tuan Zaharinie and Muhammad Khairi Faiz bin Ahmad Hairuddin</i>	<b>Physical</b>
	MatProc-42	<b>MXENE 2D NANO-MATERIAL ADDITIVE EFFECTS ON FRICTION STIR WELDING OF AL-CU</b> <i>Naser Abdullah Al Anazi</i>	<b>Physical</b>
	AdvManuf-310	<b>DESIGN AND DEVELOPMENT OF A ROTATING NOZZLE FOR LARGE-SCALE CONSTRUCTION 3D PRINTER</b> <i>Akbota Uskembayeva, Bakhytgul Sarsenova, Ramazan Dursunov, Bakbergen Temirzakuly, Essam Shehab, and Md. Hazrat Ali</i>	<b>Physical</b>
	AdvManuf-34	<b>UTILIZATION OF NANO-GRAPHENE CUTTING FLUID IN MACHINING AL7075: PART QUALITY AND MORPHOLOGICAL ANALYSIS</b> <i>Siti Zuliana Salleh, Erol Kilickap, Ahmed Aly Diao Sarhan, Mohd Sayuti Ab Karim and Ahmet Yardimeden</i>	<b>Physical</b>



## Poster Presentation

*Link for Microsoft Teams:*

Meeting Code: 475 380 414 518

Meeting Password: cQ9x2pk2

[https://teams.microsoft.com/l/meetup-join/19%3ansJdSHfBMW4BHYH11AIE\\_8DsfmafTzeHVgMxRckRTQ1%40thread.tacv2/1732617604639?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ansJdSHfBMW4BHYH11AIE_8DsfmafTzeHVgMxRckRTQ1%40thread.tacv2/1732617604639?context=%7b%22Tid%22%3a%22a63bb1a9-48c2-448b-8693-3317b00ca7fb%22%2c%22Oid%22%3a%225572c8f8-ebbb-417b-ab10-14aac11ff66a%22%7d)

<i>Venue: Grand Ballroom</i>		<b>Topic: Artificial Intelligence &amp; Industrial Data Science</b>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
10:00 – 12:15	AI-13	<b>MACHINE LEARNING SOLUTIONS FOR PREDICTING CO2 SOLUBILITY AND DIFFUSION IN WATER AND BRINE FOR CARBON SEQUESTRATION AND ENHANCED OIL RECOVERY</b> <i>Suleiman Hassan, Masoud Riazi and Peyman Pourafshary</i>	<b>Online</b>
<i>Venue: Grand Ballroom</i>		<b>Topic: Advanced Manufacturing</b>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
10:00 – 12:15	AdvManuf-35	<b>LEARNING-BASED STAGE VERIFICATION SYSTEM IN MANUAL ASSEMBLY SCENARIOS</b> <i>Xingjian Zhang, Yutong Duan and Zaishu Chen</i>	<b>Physical</b>
<i>Venue: Grand Ballroom</i>		<b>Topic: Material Processing</b>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
10:00 – 12:15	MatProc-421	<b>DEVELOPMENT OF BILAYER GATE DIELECTRICS OF ZRO2 AND HO2O3 ON 4H-SIC WIDE BANDGAP SEMICONDUCTOR</b> <i>Ahmad Hafiz Jafarul Tarek, Chin Wei Lai, Bushroa Abd Razak, Prastika Krisma Jiwanti, Hing Wah Lee and Yew Hoong Wong</i>	<b>Physical</b>
	MatProc-422	<b>EXPLORING THE RHEOLOGICAL PROPERTIES OF BIO WAX BINDERS AS POTENTIAL FOR BINDER IN METAL INJECTION PROCESSES</b>	<b>Physical</b>

		<i>Azib Juri, Farazila Yusof, Mahmoud Zakaria, Nurhiwani Hapipi, Sufian Raja</i>	
<i>Venue: Grand Ballroom</i>		<b>Topic: Public Health and Medical Device Innovation</b>	
<b>Time (GMT + 8)</b>	<b>Abstract ID</b>	<b>Title &amp; Authors</b>	<b>Physical/Online</b>
10:00 – 12:15	MedDev-73	<b>TRENDS IN CARDIOVASCULAR DISEASE MORTALITY IN KAZAKHSTAN 2014-2022: INSIGHTS FROM NATIONAL HEALTH DATA</b> <i>Ruslan Akhmedullin, Gulnur Zhakhina, Temirgali Aimyshev, Suran Yerdessov and Abduzhappar Gaipov</i>	<b>Physical</b>