

Tentative Programme

Time	Programme
Opening Ceremony & Keynote 1 Speech https://tinyurl.com/3muht37d	
08:00 am	Symposium link open
08:30 - 09:10 am	Doa recital Screening of UMPSA Corporate video Welcoming remarks by the Chairman of the 4 th ProSES Symposium 2025 <i>Associate Professor Ts. Dr. Noor Asma Fazli bin Abdul Samad</i> Welcoming speech by the Dean of the Faculty of Chemical & Process Engineering Technology, UMPSA <i>Professor Ts. Dr. Sumaiya binti Zainal Abidin@ Murad</i> Official Opening Ceremony by Vice-Chancellor UMPSA <i>Professor Dr. Yatimah binti Alias</i> Montage session Photography session
09:10 - 10:00 am	Keynote 1 Link: https://tinyurl.com/3muht37d Title: <i>Digital Twin Applications in Process Industry</i> <i>Mr. Cooberan Thambirajah</i> Senior Solution Consultant Aspentech Solutions Sdn. Bhd. Chairperson: Assoc. Prof. Ts. Dr. Ruwaida Abdul Rasid Technical: Ts. Junaidi Zakaria
10:00 -10:15 am	Break

Parallel Session 1 (Presentation & Lucky Draw)	
10:15 – 12:00 pm	Track A: Green Technology & Materials https://tinyurl.com/3n6j5n2v
	Track B: Material Science & Engineering, Renewable Energy https://tinyurl.com/mw77vtxn
	Track C: Control & Monitoring https://tinyurl.com/4z7vces7
12:00 - 02:00 pm	Lunch Break
02:00 - 03:00 pm	Keynote 2 Link: https://tinyurl.com/3z7pvv8e Title: <i>Harnessing Nature-Inspired Algorithms for Advancements in AI: Innovations and Challenges in Industrial AI Applications</i> <i>Assoc. Prof. Ts. Dr. Mohd Herwan Sulaiman</i> Deputy Dean (Research & Postgraduate Studies) Faculty of Electrical & Electronics Engineering Technology Universiti Malaysia Pahang Al-Sultan Abdullah Chairperson: Assoc. Prof. Ts. Dr. Mohd Yusri Mohd Yunus Technical: Ts. Junaidi Zakaria
Parallel Session 2 (Presentation & Lucky Draw)	
03:00 – 4:40 pm (Presentation & Lucky Draw)	Track D: Safety and Loss Prevention https://tinyurl.com/5h8jkjhb
	Track E: Integration, Modelling & Optimisation https://tinyurl.com/4tj43wjx
	Track F: Separation & Purification Technology, Catalyst & Reaction Engineering https://tinyurl.com/2r2zvpur
Closing Ceremony https://tinyurl.com/4a4fyv87	
04:40 – 5:00 pm	Closing by the Chairman • Best Presenter Award

Parallel Session 1 (10:15 am – 12:00 pm)			
	TRACK A: GREEN TECHNOLOGY AND MATERIAL	TRACK B: MATERIAL SCIENCE AND ENGINEERING, RENEWABLE ENERGY	TRACK C: CONTROL AND MONITORING
	Chairperson: Dr. Abdul Halim Abdul Razik Technical: Ts. Dr. Syamsul Bahari Abdullah Ms Teams link: https://tinyurl.com/3n6j5n2v	Chairperson: Dr. Nur Aminatulmimi Ismail Technical: Ms. Zainatul Bahiyah Handani Ms Teams link: https://tinyurl.com/mw77vtxn	Chairperson: Dr. Noorlisa Harun Technical: Dr. Nadiya Abd. Halim Ms Teams link: https://tinyurl.com/4z7vces7
10:15-10:30	P42 In-Situ Immobilised Laccase on Pineapple Waste-Derived Bacterial Cellulose for Juice Clarification Hiew, T., Chew, F. N.	P01 Thermogravimetric And Kinetic Study of Co-Pelletization of Torrefied Oil Palm Trunk and Palm Oil Mild Effluent Samad, N. A. F. A., Saleh, S.	P10 Uncertainty Mapping of Key Devices in Fiscal Gas Flow Measurement System Sulaiman, N. S., Ramli, M. S.
10:30-10:45	P39 Innovative Soil Liner Design: Utilizing Kenaf Fiber and Empty Fruit Bunch for Enhanced Performance Ahmad, F. H., Mukri, M., KS, Ng., Kamarudin, F., Yahaya, N. A.	P22 Gasification Performance of Raw and Torrefied Kulim Wood Sawdust Using Air and Steam As Gasifying Agents Samad, N. A. F. A.	P29 Improving Asset Operational Excellence for Ammonia Plant Che Din, N. S., Othman, M. S., Ling, M. F. C.
10:45-11:00	P24 Thermal Performance Assessment of Eco-Friendly Solar Absorbing Materials Using Finite Element Analysis Md Shamshul, N. A., Mansor, N. H.	P37 Development of Cellulose-Reinforced Chitosan Biofilms for Food Packaging Chin, C. L., Ahamad Nordin, N. I. A., Anwar A. I. W.	P30 Adaptive Exponential Q-Learning for Fed-Batch Yeast Fermentation Feed Control Bahrn, M. H. V. and Ahmad, Z

11:00-11:15	P20 Precision Resilience by Design: Stimulation of the Natural Intelligence by Crop Rhizosphere Engineering Ghazalia, A., Mohd Salleh, R., Abdul Malik, M. F. I., Drejerskad, N., Zbiec, M., Shahrul Nizam, N. N. N., Safwana, N. S.	P23 Development And Characterization of Rice Husk Ash-Filled Epoxy Resin for Fire Retardant Coating Steel Application A'zali, A., Sulaiman, S.Z., Mohd Mokhtar, K., Mohd Amin, K. N., Che Man. R., Abdul Mudalip, S. K., Mohd Arshad, Z. I., Shaarani, S.	P35 Evaluation Of Stress Distribution and Settlement Behaviour of Mini Scale of Reinforced Soft Soil Using Rowe Cell Test Kamarudin, F., Mukri, M., Yahaya, N. A., Ahmad, F. H., Zainuddin, A. N.
11:15-11:30	P14 Utilization of Sidoarjo Mud and Agricultural Waste as Solid Organic Fertilizer Raden, D., Tata, S. K. D.	P26 Ultrafast Probe Sonication–Assisted Solvothermal Synthesis: A Green Technology for Emerging Ti3c2 Mxenes Quantum Dots Catalytic Materials Ali, M. M., Abd Aziz, A., Awang, S.	P41 Influence of Inoculum Size on Mixed Culture Performance for Ammonium Removal Izzudin, M. H., Anika, T. Y. B., Samah, R. A., Zainol, N., Jimat, D. N., Kamarudzaman, A. N.
11:30-11:45	P16 The Production of Lignin-Based Sodium Lignosulfonate Surfactant from Oil Palm Empty Fruit Bunch Waste with Ultrasound-Assisted Lailatul, Q., Kirei, S. A., Rafie, A. N., Firman, K.	P27 Effect of multi-directional forging process on microstructures and hardness of copper Awang Shri, D. N., Azharudin, A. R., Fedrick, H. P.	P05 Deployment of Cooling Water Heat Exchanger Performance Monitoring Dashboard Sofian, M.N., Rahim, R., M., Ritzaudeen, Z., M Nazari, N.N.
11:45-12:00	P03 Utilization of Natural Kaolin-Derived Zeolite NaA for Ni/Ce/Ru Catalysts in CO₂ Methanation Applications Ab Halim, A. Z., Raja Alias, R. N. N.	P25 The Role of Food Waste Valorisation in Renewable Energy Systems: A Focused Review Abdul Rasid, R., Ismail, M., Asdinata, A. H.	

Parallel Session 2 (3:00 pm – 4:30 pm)			
	TRACK D: SAFETY AND LOSS PREVENTION	TRACK E: INTEGRATION, MODELLING & OPTIMIZATION	TRACK F: SEPARATION & PURIFICATION TECHNOLOGY, CATALYST & REACTION ENGINEERING
	Chairperson: Ts. Dr. Noor Ida Amalina Ahamad Nordin Technical: Dr. Wan Nurul Huda Wan Zainal Ms Teams link: https://tinyurl.com/5h8jkjhb	Chairperson: Dr. Nazreen Najibullah Khan Technical: Ts. Dr. Nor Khonisah Daud Ms Teams link: https://tinyurl.com/4tj43wjx	Chairperson: Dr. Aainaa Izyan Nafsun Technical: Dr. Wan Hanisah W. Ibrahim Ms Teams link: https://tinyurl.com/2r2zvpur
15:00-15:15	P43 Effect on The Presence of Polypropylene Grafted Maleic Anhydride Copolymer Compatibilizer and Nanosilica Reinforcement on Hydrophobicity of Polypropylene Mat Desa, M. S. Z., Sainuddin, M. F., Hesamuddin, N. L. A., Izhab, I., Yusop, M.	P04 Real-Time Optimization via Sequential Quadratic Programming for Energy-Efficient Co-Generation System Rohman, F. S., Wan Alwi, S. R. Ahmad Termizi, S. N. A., Hong, A. E., Muhammad, D., Azmi, A.	P06 Perspective on Coconut Shell Activated Carbon as a Promoter for Gas Hydrate-Based CO ₂ Capture Ruslan, K. M., Ismail, N. A
15:15-15:30	P11 Experimental Investigation on the Fire Extinguishing Performance of SiO ₂ -Doped Sidoarjo Mud Udyani, K., Juwari, Suhendra, Handogo, R., Anugraha, R.P.	P12 Thermodynamic Evaluation of Thorium Speciation in Sulfate Systems Using Pourbaix Diagrams for Optimized Water Leaching of Baked Lanthanide Concentrate Mohamad Sobri, N. A., Harun, N., Ismail, S.Z., Abdul Rasid, R.	P09 Analysis of Heat Transfer in The Drying Process Lahmdi, A. M.
15:30-15:45	P28 Assessment Of Firefighter Readiness for Peat Fire Control in Binsuluk Forest Reserve, Sabah Musa, D. N. S., Afat, R. M., Mohd Tohir M. Z.	P15 Leveraging First-Principle Simulation for Near Real- Time Multi-Unit Boiler Load Optimisation and Emission Reduction Hussein, N., Pirmang, S., M. Ali, F. I., Poo, H. W., Ishak M. A.	P08 Effect of Additive Addition on Structure and Mechanical Properties in Membrane Production for Hemodialysis Applications Nisa', Z., Syah, H. A., Rahmawati, Y., Susianto

15:45-16:00	P02 Dust Explosion Risk Management (DERM) in Malaysian Higher Learning Institutions Shaari, E. S., Wan Sulaiman, W. Z., Sopian, N. A., Mohd Mokhtar, K., Shahri, Z., Abdul Majid, N.D.	P21 Techno-Economic Analysis of Bio-Methanol Production from Landfill Gas Methanation Fatin Malurie R., and Abdul Halim A.R.	P19 Prioritization of Ree Separation Model Using Revenue Index Ahmat, F., Mohd Yunus, M.Y., Ismail, N.A., Tohar, S.Z.
16:00-16:15	P18 Safety Strategies in Nuclear Power Plant Design and Operation Arunagiri, S. L., Othman, S. A.	P36 Emperical Correlation Between Standard Penetration Test (SPT) N-value and Soil Properties of Soft Soil. Yahaya, N. A., Mukri, M., Kamarudin, F., Ahmad, F. H.	P07 Effect of Evaporation and Coagulation Parameters on Pes Membrane Characteristics for Microplastic Removal Rahmah, Annisa A., Arkhab, Daffa' P., Fachri, Galang I., Rahmawati, Y., Sumarno, Altway, A.
16:15-16:30	P13 Evaluation of Fire Suppression Design Using CO₂ Gas in Gas Turbine Room with Simulation Software Juwari, Renanto, Anugraha, R. P., Fiscasari, R. A., Piero, A. D.	P32 Enhancing Biogas Yield from EFB Via Torrefaction: A Review on Process IntegrationaAnd Microbial Challenges Mushtaq, A., Abdul Rasid, R., Ahamad Nordin, N. I. A.	P40 Performances Comparison Study on Type of Filler in Mixed Matrix Membrane (MMM) for Methane Purification Ninthiya, S., Yashini, P., Ellora, P. N. T., Sunarti, A. R., Maya, S.