SEAJCCM2024

South East Asia-Japan Conference on Composite Materials

"Composite Materials and Structures Toward Sustainable Future"

13-15 August 2024
Royale Chulan Hotel
Kuala Lumpur

program book

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Welcome to SEAJCCM 2024

Composites are widely used in aerospace, marine, transportation, civil and military applications because of their high strength to weight ratio, corrosion resistance, good energy absorption capability, high fatigue life, buoyancy, reduced electromagnetic and acoustic signatures, and lower maintenance cost as compared to traditional metallic structures. Thus, the **South East Asia-Japan Conference on Composite Materials 2024 (SEAJCCM 2024)** with theme of ***"Composite Materials and Structures Toward Sustainable Future"*** was held with aims to provide a platform for knowledge sharing in research and recent technology of composites in various aspects. It is a relevant platform for academics, researchers, policymakers and private companies to collaborate and to discuss issues related to research related to composite science and technology where more than 40 organizations and 13 countries participated including the Korea, Pakistan, Nigeria, Thailand, Japan, Singapore, China, Indonesia, Oman, Czechia, India, Brunei, and Malaysia. During this conference, the works about advanced manufacturing, applications, and recent developments on composite science and technology are presented. The presentations comprised different fields related to the composite science and technology including the natural fibres, mineral filler/recycling polymer composites, advanced metal matrix composites, fabric/film/rubber/polymer, and advanced polymer composites.

In the preparation of this conference, we have been helped by many colleagues and sponsors. We wish to acknowledge the supports given by our sponsors. In addition, we would like to thank all the SEAJCCM 2024 committee and volunteers, who have been sharing their time and strength in succeeding this conference from scratch. Last, but not least, we wish to thank the students, undergraduate, graduate, postdocs, researchers, and lecturers from various continents, who have joined our conference and shared their knowledge regarding their research activity with stimulating curiosity.

Foreword

Prof. Dr.
Mohd Yazid Yahya
Conference Chair SEAJCCM 2024

Emeritus Professor, Professor, Associate Professor, Dr., ladies and gentlemen,

A warm welcome to everyone to the South East Asia-Japan Conference on Composite Materials 2024 (SEAJCCM 2024) with the theme of "Composite Materials and Structures Toward Sustainable Future", especially to all our distinguished guests, speakers, experts on composite materials, and conference participants.

SEAJCCM 2024 brings together participants from academia and industry who share an interest in composite materials. This conference is the fourth in the series after tremendous success in Singapore (2015), Tokyo, Japan (2017), and Bali, Indonesia (2019). This year, the conference is held by Centre for Advanced Composite Materials (CACM), Universiti Teknologi Malaysia (UTM) at Royale Chulan Hotel, Kuala Lumpur, Malaysia from 13th until 15th August 2024, is the forum for knowledge exchange on the recent accomplishments and the future trends in composite science and technology. I hope this conference will be a meeting point for composite specialists and newcomers alike and has long been a venue where researchers and industrialists meet and establish long-lasting collaborations. SEAJCCM 2024 includes plenary talks, keynote lectures, oral presentations, and exhibition for industry partners and sponsors. The event layout and schedule will provide many opportunities to network and share with colleagues from around the world.

We wish to acknowledge the dedication of the organization's personnel, program committee members, and reviewers who invested considerable effort in evaluating papers and providing authors with constructive feedback to enhance their contributions. Additionally, we express gratitude to the external reviewers for their invaluable assistance and support throughout the review process.

Prof. Dr. Mohd Yazid Yahya
Director of Centre for Advanced Composite Materials (CACM),
Faculty of Mechanical Engineering,
Universiti Teknologi Malaysia

Foreword

Prof. Ts. Dr.
Mohd Hafiz Dzarfan Othman
Advisor of SEAJCCM 2024

The Name of Allah, Most Gracious, Most Merciful.

Dear Authors and Valued Readers,

We are honored to present the proceedings of the South East Asia-Japan Conference on Composite Materials 2024 (SEAJCCM 2024), themed 'Composite Materials and Structures Toward a Sustainable Future.' We believe these proceedings will be both informative and inspiring. The dynamic evolution and rapid progress of composite materials bring forth new challenges and opportunities, emphasizing the critical importance of exchanging innovative ideas and increasing awareness within this pivotal research field.

SEAJCCM 2024 aims to bring together academic scientists, engineers, and industry researchers to share insights and research findings on this expansive subject. These proceedings will serve as a valuable reference for scientists worldwide, fostering further exploration and investigation into sustainable composites across all related disciplines.

We extend our sincere appreciation to the numerous sponsors and co-organizers whose generous support has made this conference possible. Hosting an event of this magnitude has been a privilege for our team.

We also wish to acknowledge the dedication of the organization's personnel, program committee members, and reviewers, who invested significant effort in evaluating papers and providing authors with constructive feedback to enhance their contributions. Additionally, we express gratitude to the external reviewers for their invaluable assistance and support throughout the review process.

Prof. Ts. Dr. Mohd Hafiz Dzarfan Bin Othman
Faculty of Chemical and Energy Engineering,
Universiti Teknologi Malaysia

Foreword

Assoc. Prof. Dr.
Shukur Abu Hassan
Advisor of SEAJCCM 2024

The Name of Allah, Most Gracious, Most Merciful.

Dear Authors and Valued Readers

It is a great honour for us to present to you the South East Asia-Japan Conference on Composite Materials 2024 (SEAJCCM 2024) with the theme "Composite Materials and Structures Toward Sustainable Future". We hope you find it informative, exciting, and inspiring.

The ever-changing scope and rapid development of composites generate new problems and questions, necessitating the sharing of brilliant ideas and raising awareness of this important research field. SEAJCCM 2024's main goal and feature is to bring together academic scientists, engineers, and industry researchers to exchange and share their experiences and research results on this broad topic.

This conference will serve as an excellent reference book for scientists worldwide. I also hope that this will serve as a catalyst for further study and research in all areas related to sustainable composites.

A conference of this scale would not have been possible without the tremendous and generous support of the many sponsors and co-organizers who contributed to making it all possible. I would like to express gratitude to the organization's personnel, program committee members, and reviewers. They have put in a lot of effort assessing papers and offering authors helpful feedback on how to make their writing better. We would also like to thank all the participants for their contributions, and all attendees of SEAJCCM 2024 for an enjoyable scientific gathering.

Assoc. Prof. Dr. Shukur Abu Hassan
Faculty of Mechanical Engineering,
Universiti Teknologi Malaysia

Foreword

Prof. Datuk Ir. Ts. Dr.
Ahmad Fauzi bin Ismail
Vice-Chancellor,
Universiti Teknologi Malaysis (UTM)

Assalamualaikum and good morning.
Bismillahirrahmanirrahim,
Alhamdulillahirabbilalamin,
Wassolatuwassalamuala Saiyidina,
Muhammadin Asyrafil Anbiya Iwalmursalin,
Wa Ala Alihi Wasohbihi, Ajmain.

Emeritus Professor, Professor, Associate Professor, Dr., ladies, and gentlemen,

First, let me extend a warmest welcome to everyone, especially to all our distinguished guests, speakers, experts on composite materials, and conference participants from various countries and different parts of Malaysia to the South-East Asia-Japan Conference on Composite Materials 2024 (SEAJCCM2024) with the theme of "Composite Materials and Structures Toward Sustainable Future".

I would like to express my appreciation to the Centre for Advanced Composite Materials (CACM), Universiti Teknologi Malaysia (UTM) for organizing a programme that transcends academic and research development activities.

SEAJCCM2024 is an important platform for knowledge sharing and dissemination in research and technology of composites; research networking and collaboration; and even for networking. The discussions, dialogues, and networks built from this conference have the potential to not only bring benefit to UTM and the South-East Asia region, but also to the world. Your participation is a crucial part of this global movement.

I am confident that with the presence of distinguished researchers, this conference will be productive. Your contributions in sharing the state-of-the-art knowledge of composite and exchanging ideas on the latest developments in the advancement and exploitation of a wide range of composite materials and structures will be instrumental in the success of this event.

Thank you. In the Name of God for Mankind.

Prof. Datuk Ir. Ts. Dr. Ahmad Fauzi bin Ismail
Vice-Chancellor
Universiti Teknologi Malaysia

PLENARY SPEAKER 1

Prof. Dr. Tomonaga OKABE
Department of Aerospace Engineering,
Tohoku University, Japan

Tomonaga Okabe is a Professor in the Department of Aerospace Engineering and Aeronautical Engineering at the Graduate School of Engineering, Tohoku University, Japan. He earned his doctoral degree in engineering from Keio University, Graduate School of Science and Engineering in 1999. In 2001, he joined the National Institute of Advanced Industrial Science and Technology (AIST) as a researcher and became an assistant professor at Tohoku University in 2002. Since 2007, he has been serving as an associate professor at Tohoku University. In 2012, he assumed the role of Director of the Next Generation Aircraft Research Center at the Graduate School of Engineering, Tohoku University. He has been a Professor at Tohoku University since 2014. His primary areas of research encompass fracture mechanics, damage mechanics, continuum mechanics, primarily focusing on composite materials. He serves as an editor for prestigious journals such as the International Journal of Solids and Structures, Composites Part A: Applied Science and Manufacturing (Editor for Asia and Australasia in Applied Science), Multiscale and Multidisciplinary Modeling, Experiments, and Design, among others. He has received numerous awards, including recognition from the Ministry of Education, Culture, Sports, Science, and Technology (Japan), the Japan Society of Mechanical Engineers (JSME), and the Japan Society for Composite Materials (JSCM). Currently, he holds positions as an interim member of the Industrial Structure Council at the Ministry of Economy, Trade, and Industry (Japan), serves as a Project Leader for the development of next-generation composite materials and molding technology under the New Energy and Industrial Technology Development Organization (NEDO), and is a fellow member of the Japan Society for Aeronautical and Space Sciences.

PLENARY SPEAKER 2

Prof. Dr. Tong-Earn Tay
Department of Mechanical Engineering,
National University of Singapore (NUS), Singapore

T.E. (Tong-Earn) Tay is Professor at the Department of Mechanical Engineering, National University of Singapore (NUS). He has a PhD in Solid Mechanics from the University of Melbourne, Australia. He was formerly Head of Department of Dept of Mechanical Engineering, NUS, from 2011 to 2015, and Vice-Dean for Research for Faculty of Engineering, NUS, from 2009 to 2011. His current research interests are in progressive damage, failure, fracture, delamination, impact, and adaptive multi-fidelity and multi-scale computational analysis of fiber-reinforced composite materials and structures. He is an associate editor for the Journal of Reinforced Plastics & Composites, and editorial board member of the Journal of Composite Materials, International Journal of Damage Mechanics, Applied Composite Materials, Multiscale and Multidisciplinary Modeling Experiment and Design, and Journal of Multiscale Modeling. He served on a number of scientific advisory committees of international conferences on composites and presented several plenary, keynote and invited talks. He is the author or co-author of 190 international journal papers, 4 invited book chapters, 3 patents and 269 conference and seminar presentations. He obtained research funding from various agencies and industry, including Rolls-Royce, Airbus Germany, Haliburton Far East, Vestas, DSM Protective Materials, Maruhachi Corp., US Air Force Office of Scientific Research, A-Star Science & Engineering Research Council, Defence Science Organization, Marine Port Authority and Ministry of Education. He has reviewed proposals for The Swiss National Science Foundation, The Netherlands Organisation for Scientific Research (NWO), the Dutch Polymer Institute (DPI), the Australian Research Council's Centres of Excellence, the Research Grants Council of Hong Kong and the South African National Research Foundation. He is a recipient of JEC Life Achievement Award, a registered Professional Engineer (PE), Chartered Engineer (CEng), Founding Fellow of the Singapore Academy of Engineering (FSAE) and Council Member of the Asian-Australasian Association for Composite Materials.

KEYNOTE SPEAKER 1

Assoc. Prof. Dr. Ryo Higuchi
Department of Aeronautics and Astronautics,
Graduate School of Engineering,
The University of Tokyo, Japan

Ryo Higuchi is an associate professor at the Aerospace Innovative Structural Design Laboratory in the Department of Aeronautics and Astronautics, The University of Tokyo. He received a master's degree in 2015 and earned Ph.D. from the Department of Aerospace Engineering in 2017 from Tohoku University where he studied the high- and multi-fidelity modeling of progressive damage and failure of composite materials for the evaluation of reliability and damage tolerance of composite aerospace structures. His recent research focuses on the multiscale and multiphysics modeling of the fabrication of thermoplastic resin and CFRTP towards the reuse, recycling, and circular economy of CFRTP components. He published more than 50 papers within 10 years and won the Outstanding Paper Award from the Japan Society for Composite Materials in 2021 and 2023.

KEYNOTE SPEAKER 2

Prof. Dr. Jung-il Song
Department of Mechanical Engineering,
Changwon National University, South Korea

Professor Jung-il Song, a distinguished expert in natural fibre composites with over 3 decades of experience, boasts a remarkable career spanning structural analysis, reliability testing of structures, and biomedical rehabilitation engineering. His current research focus lies in developing sustainable materials, including green/bio composites, flame-resistant polymers, bio-based thermoset resins, and self-healing/reinforced composites. He also explores advancements in polymer recycling, micro/nano/cellulose materials, 3D printing technologies, and PU foams. Professor Song's dedication extends beyond research. He has mentored over five doctoral and fifteen postdoctoral fellows, nurturing their academic careers. As a prolific author, he has co-authored and authored over 250 peer-reviewed papers in international journals, solidifying his position as a leading contributor to the field. His pioneering spirit is further evidenced by his 24 domestic and 6 international (US) patents. Professor Song's influence transcends research institutions. He actively shares his knowledge by delivering over 50 keynote speeches, plenary presentations, and invited lectures at international conferences and gatherings. He currently serves on the Editorial Advisory Boards of two domestic journals and contributes as a reviewer for over 350 international scientific journals. Professor Song's leadership extends to various academic positions. He has served as Professor at Changwon National University, Chief of the Mechanical Engineering Department, Dean of the Faculty School of Mechatronics, and Head of the 2nd Brain Korea 21 program (2006-2013) within the School of Mechatronics. Additionally, he has held positions on committees for the city province of Changwon and national projects with KOSEF and KRF. Professor Song's international experience includes a year as a Visiting Professor at the Department of Biomedical Engineering at Memphis University, USA. He also served as the Director of the Engineering Division in the National Research Foundation of Korea. Currently, he holds the prestigious position of Director at the Center for Advanced Materials Research (CAMR), funded by the National Research Foundation of the Republic of Korea.

KEYNOTE SPEAKER 3

Mr. Danu Chotikapanich

CEO of Cobra International Co., Ltd., Thailand

Mr. Danu Chotikapanich is the CEO of Cobra International Co., Ltd. COBRA, a privately held group of companies, is a Thailand based composites manufacturer with its core business in the Watersports market. COBRA is recognised as a world leader in the manufacture of high-quality composites products, renowned for premium Windsurf, SUP, Kite and Surf boards. Leveraging its technology and expertise in fiber-reinforced composites, COBRA has expanded its portfolio into a wide range of products and accessories for other recreational sports markets as well as into the automotive, architectural, transport, marine and luxury accessories sectors. The company's focus is on providing a one-stop shop for serial production of strong, light and beautiful composites products.

KEYNOTE SPEAKER 4

Prof. Dr. Yasir Nawab
National Center for Composite Materials,
School of Engineering and Technology,
National Textile University, Pakistan

Yasir Nawab, currently a professor (tenured), is a globally acknowledged researcher in the domain of composites materials. He did Ph.D. in Mechanical Engineering with a focus on fiber-reinforced composite materials from Université de Nantes, France, and Post-doc & HDR (Habilitation à Diriger des Recherches) from University of Le Havre Normandy, France. He is listed among top 2% scientists in the world by Elsevier in 2023. He has 19 years of research & industry experience gained while working with known national and international industries dealing with complete value chain of textiles and composite materials. He led development of several innovative technologies/ industrial solutions which are successfully licensed/transferred to industry for commercialization. He has experience to lead multidisciplinary projects involving cross-functional and multi-institutional teams. He has completed 24 funded R&D projects worth PKR. 158 million (One million USD), whereas 3 research projects worth PKR 231 million (1.8 million USD) are in progress. He is leading as a Principal Investigator, the grand challenge Fund project "Enhancement of Global Competitiveness of Pakistani Textile Export Value-chains By Capacity Building and Product Diversification (www.knowtex.pk)" worth Rs. 207 million (Sponsored by World Bank and Higher Education Commission, Pakistan) executed by a consortium of 4 universities and more than 20 textile industries. 2 He is an expert on student-centered teaching and has experience in developing course curricula. He taught several courses at BS, MS and PhD level. He has experience of working in various administrative posts including Head of Department, Director of Graduate Studies & Research, etc. at National Textile University. He is the founding Director of National Centre of Composite Materials. He has authored over 150 peer-reviewed journal articles, 8 books, 10 (3 Accepted/ Granted) patents and 54 conference communications. Eleven Ph.D. and 55 MS engineering students have completed their degrees under his supervision. He has been awarded HEC's Best University Teacher Award in 2017 and Dice Leadership Award in 2018. He is fluent in English, French, and Urdu.

KEYNOTE SPEAKER 5

Assoc. Prof. Dr. Michal Petrů
Department of Machine Parts and Mechanisms,
Faculty of Mechanical Engineering,
Technical University of Liberec, Liberec, Czechia

Michal Petrů specializes in developing new parts, structures, and systems for mechanical engineering and other industrial sectors, focusing on reducing energy use and environmental impact. His work emphasizes modernizing technologies and systems, adopting new approaches in areas like lightweight and composite structures, smart mechanisms, industry 4.0, electromobility, autonomous systems, augmented reality, and AI-integrated structures. Dr. Petrů has authored over 200 publications, including more than 80 articles with an impact factor, and his works have received over 3000 citations. He holds 2 international patents, 8 national patents, 21 utility models, and has developed 12 prototypes and 3 technologies sold to industry. He has edited volumes for Elsevier and Springer, and currently serves as the editor of Emergent Materials at Springer. His numerous awards include a 2023 REGIOSTARS finalist recognition, a 2020 best presentation award at the FICC, and various other honours. Dr. Petrů led the ANTeTUL project, recognized among the EU's top projects in 2023.

INVITED SPEAKER 1

Assoc. Prof. Dr. Jaromir Moravec
Faculty of Mechanical Engineering,
Technical University of Liberec, Liberec, Czechia

Jaromír Moravec studied at the Faculty of Mechanical Engineering of Czech Technical University in Prague Czech Republic. He obtained his Ph.D. in 2008 at the Technical University of Liberec, Faculty of Mechanical Engineering. Since 2019 he has been associate professor and the Department of Engineering Technology Head. Since 2022 Jaromír Moravec has occupied the post of the Dean at the Faculty of Mechanical Engineering of the Technical University of Liberec (FME TUL). In research and pedagogical work, he focuses on welding, soldering and heat treatment, low and high cycle fatigue of weld joints, and thermo-mechanical testing of materials using physical simulations. Assessment of the effect of temperature-stress cycles on the distribution of residual stresses and the possibility of their elimination, study of the kinetics of grain growth and diffusion processes in materials. As the principal investigator, he has solved 8 research projects on the national and international level. He is currently governing several study programs at the (FME TUL). He is a member of 6 scientific societies with international experience from several internships at partner universities in Europe, North America and Southern Asia. He is the author or co-author of 51 publications included in WoS and Scopus databases. Author or co-author of 5 professional books, university scripts, and more than 30 contributions published in peer-reviewed Czech journals and at domestic and international conferences. Author or co-author of 22 awarded industrial results (11 verified technologies, 1 semi-operation, 2 certified methodologies, 3 patents, 2 utility and 3 functional models and 2 prototypes.

INVITED SPEAKER 2

Assoc. Prof. Dr. Mohamad Ridzwan bin Ishak
Department of Aerospace Engineering,
Faculty of Engineering,
Universiti Putra Malaysia, Malaysia

Mohamad Ridzwan Ishak, known as MR Ishak, is part of the Department of Aerospace Engineering at Universiti Putra Malaysia (UPM). His research spans Biocomposite Materials, Natural Fibre Composites, Manufacturing Processes, and Aerospace Materials, among others. He leads the Aerospace Malaysia Research Centre (AMRC) and works as an Interim Researcher at UPM's Laboratory of Biocomposites Technology. Dr. Ishak has published over 241 works, with significant contributions recognized by a Scopus citation count of 11934 and an h-index of 60. He has played a pivotal role in the research and commercialization of sugar palm products, holding various trademarks and copyrights, and formerly presiding over the Society of Development and Industrialization of Sugar Palm Malaysia (PPIEM). Nationally, he has led projects like the "Design and Development of Motorised Adjustable Vertical Platform (MAVeP)" funded by the Malaysia Space Agency. His extensive contributions across academia, industry, and national projects highlight his dedication to advancing research and innovation.

INVITED SPEAKER 3

Dr. Riza Wirawan, M.T.
Faculty of Mechanical and Aerospace Engineering,
Institut Teknologi Bandung, Indonesia

Riza Wirawan is an Assistant Professor at the Faculty of Mechanical and Aerospace Engineering, Bandung Institute of Technology, Indonesia. He obtained his undergraduate degree in Materials Engineering (2001) and master's degree in Materials Science and Engineering (2004) from Institut Teknologi Bandung, Indonesia. Wirawan received his Ph.D in Mechanical Engineering from Universiti Putra Malaysia, Serdang – Malaysia (2011) after defending his thesis entitled "Thermo-mechanical Properties of Sugarcane Bagasse-filled Polyvinyl Chloride Composites" under the supervision of Professor S.M. Sapuan. He was appointed to the Department of Mechanical Engineering at Universitas Negeri Jakarta (2005-2019) and then joined the Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung (20019-now). His research interests are primarily in the areas of natural fiber composite materials, thermomechanical properties of materials, and composite materials for transportation applications.

INVITED SPEAKER 4

Dr. Noor Zuhaira binti Abd Aziz

Aerospace composite manufacturing Senior Engineer, Malaysia

Noor Zuhaira Abd Aziz holds a Ph.D. in Science with a specialization in Hybrid Composite from Universiti Teknologi Mara, where she also worked as a Postgraduate Teaching Assistant. Her professional experience includes roles as a Material & Process Engineer and Research & Technology Engineer, contributing significantly to projects in composite process development and materials analysis. Noor's work has led to successful cost optimization initiatives, and she has authored several publications in the field. She is actively involved in international conferences and holds a strong track record in research and technology development, particularly in thermoplastic composites.

INVITED SPEAKER 5

Prof. Dr. Ryosuke Matsuzaki
Department of Mechanical and Aerospace Engineering,
Faculty of Science and Technology,
Tokyo University of Science, Japan

Ryosuke Matsuzaki is a professor at the Tokyo University of Science, specializing in the 3D printing of composite materials. His academic path began at the Tokyo Institute of Technology, where he earned his Bachelor's, Master's, and Doctorate in engineering between 2003 and 2007. His career progressed from a research fellowship with the Japan Society for the Promotion of Science (JSPS), to an assistant professorship at the Tokyo Institute of Technology, and then to the Tokyo University of Science. Here, he served as a junior associate professor from 2011 to 2017, before becoming an associate professor from 2017 to 2022, and subsequently, a full professor starting in 2022.

INVITED SPEAKER 6

Dr. Narongkorn Krajangsawasdi

Aerospace Engineering Department, Kasetsart University, Thailand

Narongkorn (Knight) Krajangsawasdi is currently a lecturer at the Department of Aerospace Engineering, Kasetsart University, Thailand. He completed his Ph.D. in the Centre of Doctoral Training (CDT) program at the Bristol Composite Institute (BCI), University of Bristol. His doctoral thesis was the 3D printing of discontinuous fibre under the title of "Highly Aligned Discontinuous Fibre Thermoplastic Filaments as Feedstock for Fused Deposition Modelling: Production, Printing and Performance". It was a sub-project of the HiPerDiF (High Performance Discontinuous Fibre) Technology, aimed at enhancing the performance of recycled short fibres to match that of virgin continuous fibres. Since achieving his Ph.D. in 2023, Narongkorn has been actively involved in research and teaching in the field of aircraft structure, material, and manufacturing at Kasetsart University. His current research interests revolve around sustainable composite materials for aircraft, encompassing plant-based natural fibres, recycled fibre composites, and bio-based polymers.

INVITED SPEAKER 7

Dr. Ma Quanjin
School of System Design and Intelligent Manufacturing,
Southern University of Science and Technology, China

Quanjin Ma works as Postdoctoral Fellow at School of System Design and Intelligent Manufacturing, Southern University of Science and Technology (SUSTech), China. He has received the MS.c and Ph.D. Degrees at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), Malaysia. He has published around 40 reputed journal articles (Mater. Today Commun., Int. J. Hydrogen Energy., Struct., Forces Mech.,), 10 book chapters and 2 patents. He has reached h-index 19 and 1396 citations of Google Scholar within 4 years. His research interest are composite structure, sandwich structure, impact mechanism, finite element method, structural design manufacturing integration, high-performance electromagnetic wave absorption, dielectric properties, mechanical properties, multi-axis filament winding, additive manufacturing.

INVITED SPEAKER 8

Dr. Koichi Mizukami
Department of Mechanical Engineering,
Ehime University, Japan

Koichi Mizukami received B. Eng. in 2013 from the Department of Mechano-Aerospace Engineering, Tokyo Institute of Technology (Japan), and Ph.D. in 2016 from the Department of Mechanical Science and Engineering, Tokyo Institute of Technology. Since 2016, he has been working as an assistant professor at the Department of Mechanical Engineering, Ehime University (Japan). His research areas include additive manufacturing and non-destructive testing methods (eddy current, ultrasonic, and thermal techniques) for fiber composite materials. In recent years, he has been working on the design and manufacturing of carbon fibre-reinforced functional composites/metamaterials for structural application. He is utilizing the design freedom of fibre composite 3D printing technique to produce stiff composite structures with unique vibration attenuation/damping properties that overcome limitations existing in conventional techniques.

INVITED SPEAKER 9

Prof. Dr. Mohd. Nasir Bin Tamin
Faculty of Mechanical Engineering,
Universiti Teknologi Malaysia, Malaysia

Mohd Nasir Tamin is a distinguished academic and researcher in Mechanical Engineering and Applied Mechanics, with a Ph.D. from the University of Rhode Island. His career includes significant roles such as the Deputy Dean of Research and Innovation at Universiti Teknologi Malaysia (UTM) and the founder of the Computational Solid Mechanics Laboratory at UTM. His expertise spans across the mechanics of FRP composite laminates, advanced materials characterization, and the reliability of microelectronic components. Professor Tamin has contributed extensively to academia and industry through his research, securing numerous grants and publishing influential papers. He has also been actively involved in mentoring PhD students and hosting international scholars. His achievements are recognized globally, highlighted by his participation in prestigious visiting professorships and research programs in Europe and Asia.

INVITED SPEAKER 10

Prof. Dr. Akinori Yoshimura

National Composite Center, Nagoya University, Japan

Akinori Yoshimura is a professor in Department of Aerospace Engineering in Graduate School of Engineering in Nagoya University. He also serves as a Director of National Composites Center Japan (NCC) in Nagoya University. He has an extensive career highlighted by his work at the Japan Aerospace Exploration Agency (JAXA) from 2007 to 2017. Holding a Ph.D. from the University of Tokyo, his research focuses on advanced composite materials like CFRP, crucial for aerospace innovations. He has made significant contributions to the field through various research projects, including the application of CFRP in aerospace structures. Professor Yoshimura's work is recognized through several prestigious awards and numerous publications, reflecting his influence in aerospace material science. Recent research topics of Prof. Yoshimura and NCC include recycling technology of carbon fibre recovered from CFRP, and its application to the aerospace and automotive structures.

DAY 1 (13th August 2024)	
Time	**Events**
0800 - 0825	Participant's arrival and registration
0825 - 0830	Arrival of VIPs
0830-0930	**Opening and MOU Exchange Ceremony (Tun Sri Lanang 1)**
	National anthem
	Welcoming speech by emcee
	Dua recitation
	Welcoming speech by Chairman of SEAJCCM 2024, Prof. Dr Mohd Yazid Bin Yahya
	Speech by representative of Technical University of Liberec, Czechia, Assoc. Prof. Dr. Jaromir Moravec
	Video montage presentation of SEAJCCM 2024
	Opening address and officiation by Vice-Chancellor of Universiti Teknologi Malaysia, Malaysia, Prof. Datuk Ir. Ts. Dr. Ahmad Fauzi bin Ismail
	MOU exchange Ceremony
	Photo session
0930-1000	**Tea break**

Time	Events
1000 - 1030	**Plenary Speaker 1 (Tun Sri Lanang 1)** **Prof. Dr. Tomonaga OKABE (Tohoku University, Japan)** "Multiscale Modeling of Carbon Fiber-Reinforced Composites from Molecule to Structure" Moderator: Ts. Dr. Muhammad Asyraf Bin Muhammad Rizal
1030 - 1100	**Plenary Speaker 2** **Prof. Dr. Tong-Earn Tay (University of Singapore, Singapore)** "A Perspective on Multi-Fidelity and Machine Learning Modeling of Progressive Damage in Fiber-Reinforced Composites" Moderator: Ts. Dr. Muhammad Asyraf Bin Muhammad Rizal
1100- 1130	**Keynote Speaker 1** **Assoc. Prof. Dr. Ryo Higuchi (The University of Tokyo, Japan)** "Multiscale and Multiphysics Modeling of Composite from Manufacturing to Design" Moderator: Ts. Dr. Muhammad Asyraf Bin Muhammad Rizal
1130-1200	**Keynote Speaker 2** **"Prof. Dr. Jung-il Song (Changwon National University, South Korea)** "Sustainable Natural Fiber Polymer Composites: Recent Advancements" Moderator: Ts. Dr. Muhammad Asyraf Bin Muhammad Rizal

Time	Events
1200-1215	**Sponsor** **LabAlliance Sdn. Bhd**. "Expert Tools for Material Characterization" Moderator: Ts. Dr. Muhammad Asyraf Bin Muhammad Rizal
1215-1230	**Sponsor** **Atomic Solutions Sdn. Bhd.** "ChemiSEM Technology: SEM and EDS for materials characterizations" Moderator: Ts. Dr. Muhammad Asyraf Bin Muhammad Rizal
1230-1245	Token of Appreciation Session for Sponsors, Plenary and Keynote Speakers
1245-1445	Lunch

Time	Events		
	Parallel Presentation Session 1		
	Room: Tun Sri Lanang 1 Chair: Prof. Dr. Tong-Earn Tay Co-Chair: Ts. Dr. Ahmad Ilyas bin Rushdan	**Room : Tun Sri Lanang 2** Chair: Prof. Dr. Akinori Yoshimura Co-Chair: Dr. Norhayani binti Othman	**Room: Tun Sri Lanang 3** Chair: Prof. Dr. Song Jung-il Co-Chair: Dr. Nur Hafizah Ab Hamid
1445 – 1500	**Invited speaker 1** **Assoc. Prof. Dr. Jaromir Moravec** *Technical University of Liberec, Liberec, Czechia* Possibilities for the Top Engineering Collaboration with a University in the Heart of Europe	**Invited Speaker 2** **Assoc. Prof. Dr. Mohamad Ridzwan bin Ishak** *Universiti Putra Malaysia, Malaysia* Surface Interaction Strength Effects in Recycled PLA/PDA and Kenaf Fibre 3D Printing Filament Composites through Experimental and Finite Element Insights	**Invited Speaker 3** **Dr. Riza Wirawan, M.T.** *Institut Teknologi Bandung, Indonesia* Mechanical Properties of a Biocomposite made of Ramie Fiber and a Natural Matrix
1500 -1515	**ID-25** **Prof. Dr. Jun Koyanagi** *Tokyo University of Science, Japan* Numerical Simulation for Frequency Dependence on Fatigue Failure for a Polymer Material Based on Entropy Damage Criterion	**ID-89** **Abdul Razif Abdul Karim** *Universiti Teknologi Malaysia, Malaysia* Thermal Energy Storage Features Nano-Enhanced Phase Change Materials: Comprehensive Review of Current Development, Functions, and Anticipated Challenge	**ID-28** **Dr. Ali Farokhi Nejad** *Universiti Teknologi Malaysia, Malaysia* Investigation of Temperature Dependent Tensile Properties of Unidirectional Glass Fiber Reinforced Epoxy Composite Laminate

Time	Events		
1515 - 1530	**ID-61** **Ms. Hinako Shiozaki** *Tokyo University of Science, Japan* Establishment of 3-D Numerical Model of CFRP Rope (CFCC)	**ID-90** **Assoc. Prof. Dr. Tuty Asma Binti Abu Bakar** *Universiti Teknologi Malaysia, Malaysia* Role of Ceramic Particles on the Enhancement of Microstructure and Mechanical Properties of Al-20%Mg_2Si Hybrid Composites	**ID-72** **Dr. Pavel Srb** *Technical University of Liberec Czechia* Optimization of the Welding Element of a Machine for the Production of Eco-Plastic Packaging
1530 - 1545	**ID-20** **Ms. Yutong Li** *Tokyo University of Science, Japan* Numerical Durability Simulation of a Viscoelastic Material Subjected to Variable Loadings Fatigue Based on Entropy Damage Criterion	**ID-35** **Mr. Rachmadi Norcahyo** *The University of Tokyo, Japan* Numerical Simulation on Residual Strength of Composite Laminates after Three-Point Bending Fatigue using Cohesive Zone Model and Continuum Damage Model	**ID-51** **Prof. Ir. Dr. Mariatti binti Jaafar @ Mustapha** *Universiti Sains Malaysia (USM), Malaysia* Mechanical Properties and Flammability of Kenaf Short Fiber/Recycled Plastic Composites
1545-1600	Tea break		

Time	Events		
	Parallel Presentation Session 2		
	Room: Tun Sri Lanang 1 Chair: Prof. Dr. Mohd. Nasir Bin Tamin Co-Chair: Dr. Shuhada Atika binti Idrus Saidi	**Room: Tun Sri Lanang 2** Chair: Prof. Dr. Tomonaga Okabe Co-Chair: Dr. Nur Hafizah Abd Khalid	**Room: Tun Sri Lanang 3** Chair: Assoc. Prof. Dr. Mohamad Ridzwan bin Ishak Co-Chair: Dr Muhamad Fauzi bin Abd. Rased
1600 -1615	**Invited Speaker 4** **Dr. Noor Zuhaira binti Abd Aziz** *Aerospace composite manufacturing Senior Engineer, Malaysia* Composites in Aerospace: Applications and Innovations	**Invited Speaker 5** **Prof. Dr. Ryosuke Matsuzaki** *Tokyo University of Science, Japan* Optimizing Fiber Path for 3D Printing of Continuous Carbon Fiber-Reinforced Composites	**Invited Speaker 6** **Dr. Narongkorn Krajangsawasdi** *Kasetsart University, Thailand* Initial Mechanical Property Assessment of Thai Plant-Based Fibre Composites for Sustainable Structural Applications
1615 -1630	**ID-32** **Ms. Maruri Takamura** *Tokyo University of Science, Japan* Size Dependence of Bond Strength in CFRP Single Lap Joints	**ID-36** **Junro Sano** *Tokyo University of Science, Japan* Elucidation of the Formability Enhancement Mechanisms in High Accuracy 3D Printing of CNT Yarns Using Machine Learning	**ID-82** **Mr. Hery Sunarsono** *Universitas Andalas Padang and Institut Teknologi Batam,Indonesia* Effect of Indonesian Bay Leaf Extract Preparation on the Barrier of Red Ray Transmission of Polyvinyl Alcohol Blend-Film

Time	Events		
1630 - 1645	**ID-27** **Dr. Ali Farokhi Nejad** *Universiti Teknologi Malaysia, Malaysia* Damage and Failure Analysis of Reinforced Thermoplastic Pipes under Combined Loading through Finite Element Modelling	**ID-96** **Dr. Norhayani Othman** *Universti Teknologi Malaysia, Malaysia* Mechanical Properties of Recycled Poly(Ethylene Terephthalate) (rPET)/Recycled High Density Poly(Ethylene) (rHDPE) with Zinc Oxide	**ID-48** **Dr. Muhammad Amin bin Azman** *Universiti Putra Malaysia, Malaysia* Mechanical Properties of Wollastonite/Kenaf Hybrid Bio-Composite
1645 - 1700	**ID-71** **Dr. Mio Sato** *Japan Aerospace Exploration Agency, Japan* Analytical Consideration for the Probability Characteristics of Fiber Curvature and Orientation Angle in rCF Nonwoven Fabrics	**ID-84** **Assoc. Prof. Dr. Muhammad Umair** *National Textile University, Pakistan* Nano-Clay Based Novel 3D Woven Hemp/Green Epoxy Composites	**ID-62** **Dr. Khoo Pui San** *Universiti Teknologi Malaysia, Malaysia* Enhancing Flexural Properties of Recycled Glass Fibre Reinforced Polyester with Eggshell-Derived Calcium Oxide

Time	Events		
1700 - 1715	**ID-15** **Prof. Dr. Toshio Nagashima** *Sophia University, Japan* Damage Propagation Analyses of CFRP laminate by XFEM using continuum shell elements	**ID-49** **Mrs. Devita Amelia** *Universiti Teknologi Malaysia, Malaysia* Development and Characterization of Thermoplastic Oil Palm Trunk Starch and Poly(Lactic) Acid Blend Composites via Melt Extrusion	**ID-26** **Prof. Dr. Mototsugu Tanaka** *Kanazawa Institute of Technology, Japan* Evaluation on Hydrolysis Control Function of Fiber-Reinforced Photo-Dissociable Protecting Group Introduced PLA Composites
1715 - 1730	**ID-38** **Mr. Takumu Sugiyama** *Tokyo University of Science, Japan* Numerical Simulation of Fracture of Plastic Materials Subjected to Heat Cycles Based on Entropy Damage Criterion	**ID-13** **Ms. Nursyahmira Farhana Mohd Shah** *Universiti Teknologi Malaysia, Malaysia* Propylene Glycol Monomethyl Ether as a Sustainable Substitute for Xylene in Epoxy Coatings for Corrosion Prevention in Marine Applications	**ID-23** **Ts. Dr. Syed Mohd Saiful Azwan Syed Hamzah** *Universiti Malaysia Terengganu, Malaysia* Quasi-Static Indentation Fracture Behaviour of Sandwich Panel-Polypropylene Honeycomb Core

Time	Events		
1730 - 1745	**ID-39** **Assoc. Prof. Dr. Vincent Tan** *National University of Singapore, Singapore* Multiscale Topology Optimization	**ID-55** **Dr. Pradeep Kumar Krishnan** *National University of Science and Technology, Oman* Production and Characterization of Aluminum Metal Foam from Industrial Waste AL-6063 Cast Aluminum Alloy using $CaCO_3$ Foaming Agent	**ID-40** **Ms. Amirah Ain Asyiqin Mohammad Sappa** *Universiti Teknikal Malysia Melaka, Malaysia* Strength Performance of Pineapple Leaf Fibre Reinforced Poly(3-Hydroxybutyrate-Co-3-Hydroxyvalerate) Biocomposites for Packaging Application
1745 - 1800	**ID-37** **Mr. Takumi Sekino** *Tokyo University of Science, Japan* Damage Assessment of CFRP Subjected to Cyclic Loading Based on Entropy	**ID-85** **Assoc. Prof. Dr. Mohd Ruzaimi Mat Rejab** *Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia* Experimental Investigation of the Bullet-Proofing Capabilities of Fiber Metal Laminate (FML) under Ballistic Impact Loading	**ID-50** **Dr. IGP Agus Suryawan** *Udayana University, Indonesia* Environmentally Friendly Crab Shell Powder Filled Polypropylene Composites: A Review
2000-2200	Dinner (Level 2, Poolside)		
2200	End of Day 1		

DAY 2 (14th August 2024)			
Time	**Events**		
0800 - 0830	Registration		
	Parallel Presentation Session 3		
	Room: Tun Sri Lanang 1 Chair: Assoc. Prof. Dr. Ryo Higuchi Co-Chair: Dr. Mohammad Fikry bin Mohammad Jelani	**Room: Tun Sri Lanang 2** Chair: Prof. Dr. Ryosuke Matsuzaki Co-Chair: Ts. Dr. Muhammad Asyraf Bin Muhammad Rizal	**Room: Tun Sri Lanang 3** Chair: Dr. Riza Wirawan Co-Chair: Ts. Dr. Ahmad Ilyas bin Rushdan
0830-0845	**Invited Speaker 7** **Dr. Ma Quanjin** *Southern University of Science and Technology, China* Effect of $BaTiO_3$ as Filler with Adjustable Dielectric Properties on Polymer Composites for 10 GHz Microstrip Antenna Design	**Invited Speaker 8** **Dr. Koichi Mizukami** *Ehime University, Japan* Design and 3D Printing of Carbon Fiber-Reinforced Functional Composite Structures for Controlling Elastic Wave Propagation	**ID-54** **Dr. Melbi Mahardika** *National Research and Innovation Agency, Indonesia* Novel Papain and Bacterial Cellulose/Alginate Biocomposites for Bioactive Wound Dressing
0845-0900	**ID-12** **Sota Oshima** *Tokyo Metropolitan University, Japan* Relationship between Mesoscopic Damage Progression and R Curve during Transverse Cracking in Composite Laminates	**ID-19** **Assoc. Prof. Dr. Wong King Jye** *University of Nottingham, Malaysia* Water Absorption Effects on Mode I and II Delamination of Carbon/ Epoxy Composites	**ID-29** **Ms. Yeo Yi Xuan** *Universiti Malaysia Perlis, Malaysia* Effect of Elevated Temperatures on Friction and Wear Properties of Pineapple Leaf Fibres- Reinforced Natural Rubber Composites with the Addition of Multi-Walled Carbon Nanotubes

Time	Events		
0900-0915	**ID-53** **Dr. Carla Canturri** *Cetim-Matcor, Singapore* Failure Analysis of Composites for Pressure Vessel Applications	**ID-92** **Mr. Mastariyanto Perdana** *Universitas Andalas, Indonesia* Bioadhesive Materials Based on PVA/Tannin Acid/Nanocellulose: Simple Method and Effects of Mixing Time on Manufacturing Process	**ID-94** **Ms. Siti Khairunisah Ghazali** *Universiti Teknologi Malaysia, Malaysia* Thermal Stability and Dielectric Performance of Palm Oil-Based Polyurethane Polypyrrole-Montmorillonite Nanocomposite Foam
0915 - 0930	**ID-10** **Mr. Namasivayam Sukumaar Vijayvignesh** *Universiti Putra Malaysia, Malaysia* Experimental and Numerical Investigation of Flexural Mechanical and Creep Properties of Sleeved PGFRP Composite Cross-Arm Used in Transmission Tower Application	**ID-42** **Mr. Takayu Nishioka** *The University of Tokyo, Japan* The Effects of Molding Conditions on Fiber Waviness in CFRTP Laminates	**ID-67** **Dr. Masaudu Adamu Kazaure** *Hussaini Adamu Federal Polytechnic, Nigeria* Evaluation of Physicomechanical Properties of Floor-Tile using Epoxy Resin Treated with Snail Shell Filler

Time	Events		
0930 - 0945	**ID-11** **Dr. Xin Lu** *The University of Tokyo, Japan* Experimental and Numerical Study on Failure Mechanisms of Tapered Composite Laminates	**ID-24** **Dr. Yeoh Kirk Ming** *National University of Singapore, Singapore* Effects of Ply Blocking on the Behaviour of Notched CF/Epoxy Thin-Ply Laminates	**ID-104** **Ms. Nur 'Aisyah Ar-Raudhoh Mohammad Tahar** *Universiti Teknologi MARA, Malaysia* Effect of Nano-Palm Kernel Shell Biochar (n-PKSB) on The Cure, Swelling and Mechanical Properties of Natural Rubber Vulcanizates
0945 - 1000	**ID-17** **Assoc. Prof. Dr. Shigeki Yashiro** *Kyushu University, Japan* Variable Stiffness Composite Patch for Single-Sided Bonded Repair of Composite Structures	**ID-46** **Rafif Zufarihsan** *Sepuluh Nopember Institute of Technology, Indonesia* Mechanical Behaviour of Low Carbon Engineered Cementitious Composite: Experimental Investigations and Finite Element Studies	**ID-102** **Muhamad Haziq Bin Mohd Fadzli** *Universiti Teknologi MARA, Malaysia* The Effect of Nanoparticles Activated Palm Kernel Shell (N-APKS) as Bio-Filler on Mechanical Properties of Filled Natural Rubber Vulcanizates
1000 - 1030	Tea Break		

Time	Events	
	Parallel Presentation Session 4	
	Room: Tun Sri Lanang 1 Chair: Dr. Narongkorn Krajangsawasdi Co-Chair: Assoc. Prof. Dr. Rohah A. Majid	**Room: Tun Sri Lanang 2** Chair: Prof. Dr. Yasir Nawab Co-Chair: Dr. Norhayani binti Othman
1030 - 1045	**Invited Speaker 9** **Prof. Dr. Mohd. Nasir Bin Tamin** *Universiti Teknologi Malaysia, Malaysia* Interlaminar Fatigue Damage Model of Fiber-reinforced Polymer Composite Laminates	**Invited speaker 10** **Prof. Dr. Akinori Yoshimura** *Nagoya University, Japan* Non-Destructive Evaluation of CFRP Microscopic Structure and Microscopic Defect by using Advanced X-Ray Devices
1045-1100	**ID-31** **Ms. Marina Inagaki** *Tokyo Metropolitan University, Japan* Effect of Lightning Current on Mechanical Properties of Adhesively Bonded Composite Joints	**ID-63** **Dr. M. J. Mohammad Fikry** *Tokyo University of Science, Japan* Inhibition of Interlaminar Damage in CFRP Laminates by Inserting Non-Woven Carbon Fiber Reinforced Layers

Time	Events	
1100 - 1115	**ID-21** **Mr. Tian Kun** *National University of Singapore, Singapore* An Explicit Discrete Crack Method for Simulating Damage in Carbon Fiber Composites under Open Hole Compression and Low Velocity Impact	**ID-52** **Dr. Mizah binti Ramli** *Universiti Teknikal Malaysia Melaka, Malaysia* Analysis of Void Content in Thermoset CFRP Composite and Its Effects on Mechanical and Physical Properties
1115 - 1130	**ID-33** **Ms. Pham Nguyen Hong Van** *National University of Singapore, Singapore* In-Plane Shear Characterization for Carbon Fiber Reinforced Thermoplastic Composites	**ID-47** **Dr. Shintaro Kamiyama** *Japan Aerospace Exploration Agency, Japan* Visualazation of Edge Glow on the CFRP Exposed to Lightning Current
1130 - 1145	**ID-41** **Assoc. Prof. Dr. Shuang Zhang** *Dalian Jiaotong University* Composition Design of (Zr, Ti)-Based Amorphous-Matrix Composites	**ID-91** **Assoc. Prof. Ir. Ts. Dr. Mohd Yuhazri Yaakob** *Universiti Teknikal Malaysia Melaka, Malaysia* Kenaf Core Reinforced Cement Slurry - Experimental Study on Mechanical Properties and Fire Performance
1145 - 1200	**ID-14** **Mrs. Adrina Rosseira Abu Talip** *Universiti Teknologi Malaysia, Malaysia* Exploring Temperature Influence: Accelerated CO_2 Curing on Cement and Carbide Lime Mortar	
1200 - 1400	Lunch break	

Time	Events
1400 - 1430	**Keynote Speaker 3 (Tun Sri Lanang 1)** **Mr. Danu Chotikapanich (CEO of Cobra International Co., Ltd., Thailand)** "Current Status of Sustainable Material Applied in Mass Production of Water Sports Product" Moderator: Ts. Dr. Ahmad Ilyas bin Rushdan
1430 - 1500	**Keynote Speaker 4** **Prof. Dr. Yasir Nawab (National Textile University, Pakistan)** "Fatigue Properties of Aerospace Composites: Modelling, Testing and Improvement by Incorporating of Thermoplastic Fillers" Moderator: Ts. Dr. Ahmad Ilyas bin Rushdan
1500 - 1530	**Keynote Speaker 5** **Assoc. Prof. Dr. Michal Petrů (Technical University of Liberec, Liberec, Czechia)** "Development and Winding Optimization of Lightweight Composite Constructions" Moderator: Ts. Dr. Ahmad Ilyas bin Rushdan
1530-1545	Tea break
1530 - 1600	**Closing ceremony (Tun Sri Lanang 1)**
	END OF DAY 2

TENTATIVE OF POSTER PRESENTATION

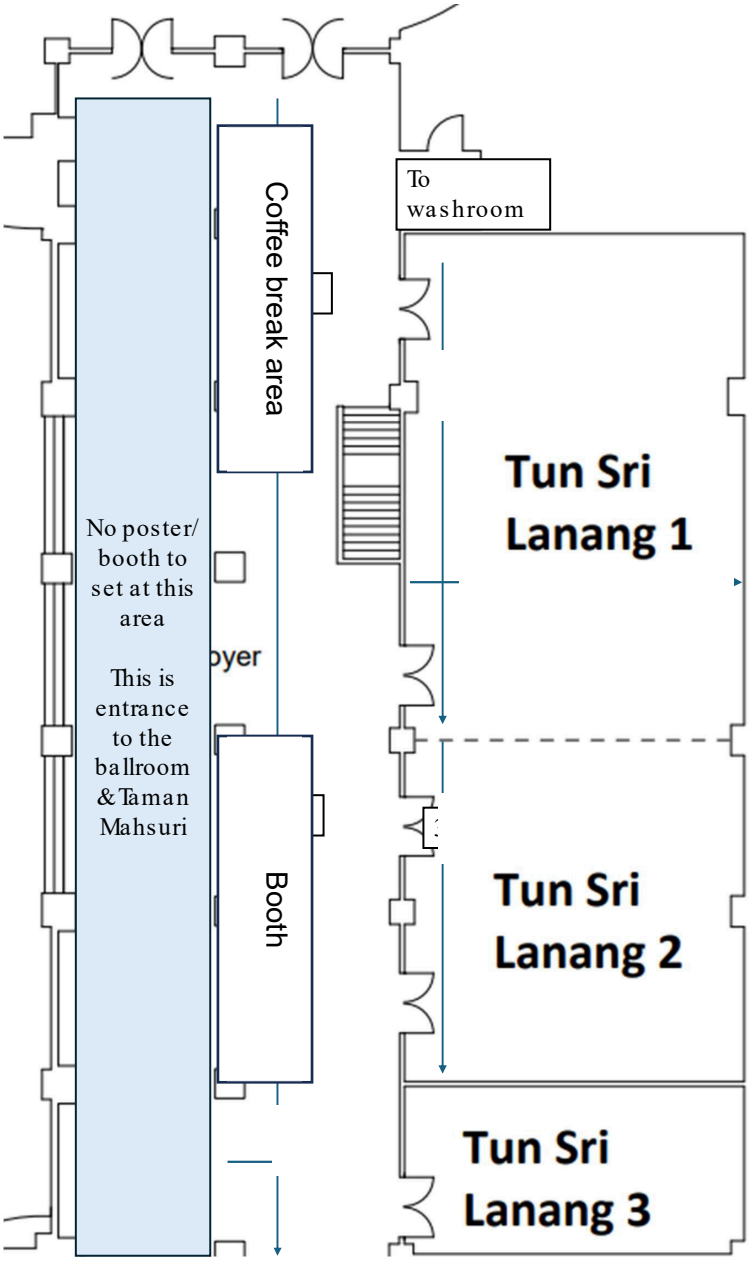
DAY 1 (13th August 2024)	
Time	**Events**
1445 - 1500	**ID-3** **Dr. Nabilah Afiqah Mohd Radzuan,** *Universiti Kebangsaaan Malaysia, Malaysia* Mechanical Properties of Polyamide Material using FDM Method
1500 - 1515	**ID-18** **Assoc. Prof. Dr. Cun Lei Zou,** *Dalian Jiaotong University, China* A Nano-Micro Dual-Scale Particulate-Reinforced Copper Matrix Composite with High Strength, High Electrical Conductivity and Superior Wear Resistance
1515 - 1530	**ID-88** **Ms. Nur Liyana Shafie,** *Universiti Terknologi Malaysia, Malaysia* Mercury Removal Units in Oil and Gas: Combating Toxicity, Corrosion, and Fire Hazards
1530 - 1545	**ID-97** **Mr. Muhammad Adlan Azka,** *Universiti Putra Malaysia, Malaysia* Water Absorption Characteristic on Natural Fiber Reinforced Polylactic Acid Composites: A Review
1545 - 1600	**ID-98** **Dr. Vasi Uddin Siddiqui,** *Universiti Putra Malaysia, Malaysia* Effect of Graphene Nanoplatelets on Polylactic Acid (GNP/PLA) Biocomposites
1600 - 1615	**ID-99** **Mr. Abdul Habib,** *Universiti Putra Malaysia, Malaysia* Utilization of Carbon Nanotube-Reinforced Arrowroot Starch Biopolymer Nanocomposites as Flexible Conductive Materials

TECHNICAL VISIT TO MALACCA

Time	Tentative
0830	Depart from Royale Chulan Hotel, Kuala Lumpur
1030 - 1230	Tour around Bandar Hilir, Melaka
1230 - 1345	Lunch
1430 - 1630	Technical visit session at CTRM Aero Composite Sdn Bhd, Batu Berendam, Melaka
1630 - 1830	To Putrajaya
1830 - 1930	**Drop off delegates at Putrajaya Sentral Sightseeing for the remaining delegates
1930	Return to Royale Chulan Hotel, Kuala Lumpur

***Drop off is only for the participants who have informed committees ahead. Please bring your luggage together during the trip*

ROYAL CHULAN HOTEL LAYOUT



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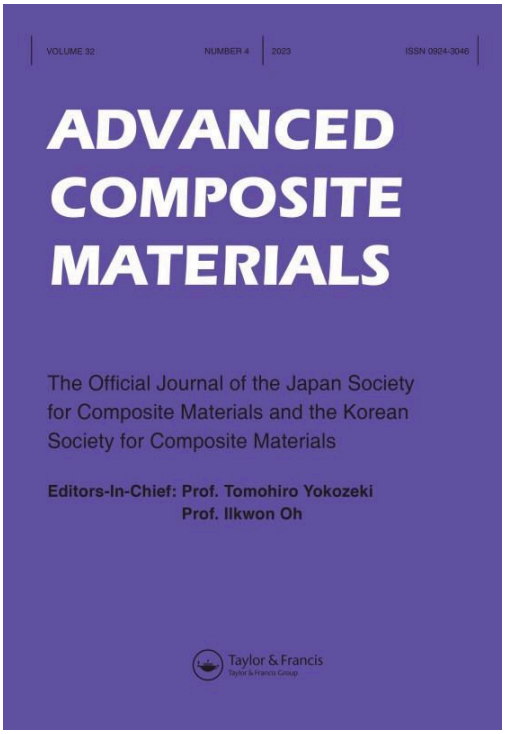

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