

SDMMS 2022
Day 1
Tuesday, 16th August 2022
Swiss-Garden Beach Resort, Kuantan Pahang

Tentative Programme

08:00 – 08:45	Registration
08.45 – 09:00	WELCOMING REMARKS Associate Professor Ts. Dr. Mohd Ruzaimi bin Mat Rejab Symposium Chair
09:00 – 09:10	Professor Ir. Dr. Shahrum bin Abdullah Honourable Advisor
09:10 – 09:20	OPENING CEREMONY Professor Dr. Mahadzir bin Ishak @ Muhammad Dean Faculty of Mechanical & Automotive Engineering Technology Universiti Malaysia Pahang
09:20 – 10:00	KEYNOTE SESSION 1 Professor Ir. Dr. Mohd Sapuan bin Salit Faculty of Engineering Universiti Putra Malaysia
10:00 -10:40	KEYNOTE SESSION 2 Dr. Mohd Shahrul Azmi bin Mohamad Yusoff Director/Senior Engineer Industrial Centre of Innovation in Smart Manufacturing SIRIM
10:40 -11:00	PHOTO SESSION & COFFEE BREAK

PARALLEL SESSION 1

	Seminar Room 1 (Jasmine)	Seminar Room 2 (Lotus)
11:00 – 11:20	SDMMS2022-ID05	SDMMS2022-ID06
11:20 – 11:40	SDMMS2022-ID08	SDMMS2022-ID07
11:40 – 12:00	SDMMS2022-ID09	SDMMS2022-ID27
12:00 – 12:20	SDMMS2022-ID44	SDMMS2022-ID29
12:20 – 14:00	LUNCH BREAK	

PARALLEL SESSION 2

	Seminar Room 1 (Jasmine)	Seminar Room 2 (Lotus)
14:25 – 14:45	SDMMS2022-ID23	SDMMS2022-ID30
14:45 – 15:05	SDMMS2022-ID43	SDMMS2022-ID15
15:05 – 15:25	SDMMS2022-ID14	SDMMS2022-ID21
15:25 – 15:45	SDMMS2022-ID41	SDMMS2022-ID31
15:45 – 16:05	SDMMS2022-ID24	SDMMS2022-ID33
16:05 – 16:25	COFFEE BREAK	
16:25 – 16:45	SDMMS2022-ID42	SDMMS2022-ID22
16:45 – 17:05	SDMMS2022-ID13	SDMMS2022-ID03
17:05 – 17:25	SDMMS2022-ID16	SDMMS2022-ID34
17:25 – 17:45	SDMMS2022-ID25	SDMMS2022-ID35

SDMMS 2022
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Tentative Programme

08:45 – 09:25 **KEYNOTE SESSION 3**

Professor Dr. -Ing. Nik Abdullah bin Nik Mohamed
Faculty of Mechanical & Automotive Engineering Technology
Universiti Malaysia Pahang

PARALLEL SESSION 3

	Seminar Room 1 (Jasmine)	Seminar Room 2 (Lotus)
09:30 – 09:50	SDMMS2022-ID26	SDMMS2022-ID10
09:50 – 10:10	SDMMS2022-ID19	SDMMS2022-ID11
10:10 – 10:30	SDMMS2022-ID45	SDMMS2022-ID46
10:30 – 10:45	COFFEE BREAK	
10:45 – 11:05	SDMMS2022-ID17	SDMMS2022-ID36
11:05 – 11:25	SDMMS2022-ID18	SDMMS2022-ID37
11:25 – 11:45	SDMMS2022-ID39	SDMMS2022-ID38
11:45 – 12:05	SDMMS2022-ID40	SDMMS2022-ID32
12:05 – 12:25	SDMMS2022-ID12	SDMMS2022-ID28
12:25 – 14:00	LUNCH BREAK End of Programme	

SDMMS2022 - LIST OF PAPERS

Paper ID	Author(s)	Title
SDMMS2022-ID03	Mohammad Ridzwan Bin Abd Rahim , Siegfried Schmauder, Yupiter HP Manurung, Andreas Klenk, Meor Iqram B Meor Ahmad, Kiarash Dogahe	Cycle Number Estimation Method on Fatigue Crack Initiation using Voronoi Tessellation and Tanaka Mura Model
SDMMS2022-ID04	H. Zainuddin, M.B. Ali and N.B. Muhammad Said	Instrumented Charpy Impact: Influence of Impact Velocity and Material Thickness on The Impact Duration and Energy Absorbed
SDMMS2022-ID05	M. K. Faidzi, S. Abdullah , S. S. K. Singh, M. F. Abdullah, and A. H. Azman	Enhancement on Hemispherical Dimple Core Design using the Fuzzy Triangular Hybrid Decision-Making Method for Damage Behaviour
SDMMS2022-ID06	Sana Zulfiqar, Abdullah Aziz Saad , Zulkifli Ahmad, Zuraihana Bachok	Mechanical Analysis and Constitutive modeling of Non-linear Behavior of Ag-based Conductive Ink
SDMMS2022-ID07	Quanjin Ma , M.R.M.Rejab, Shukur Abu Hassan, Mohammad Azeem, Saffirna M.S	Parametric Studies on Compressive Characteristics of the Spherical-roof Contoured Core (SRCC) A Numerical Study
SDMMS2022-ID08	M. N. Tawfik , M.M Padzi, H. Hapaz, Shahrum Abdullah	Approaches of Finite Element Analysis to Study Fatigue of Rail-Wheel Contact Stress for Light Rail Transit

SDMMS2022-ID09	L. Abdullah, S.S.K. Singh , S. Abdullah, A.H. Aziman, A.K. Ariffin	Fatigue Characteristic for Effective Strain Damage Model on Various Road Load Condition
SDMMS2022-ID10	H.Hapaz , M.M. Padzi, S.Abdullah, M.N. Tawfik	Effect of Geopolymer Coating Thickness towards Mechanical Properties
SDMMS2022-ID11	Adam A. Suhaimi, Aidy Ali , Kannan Rassiah, and Ku Zarina Ku Ahmad	Impact Behaviour Of Laminated Bamboo, E-Glass and Hybrid Bamboo/E-Glass Fibre Composites
SDMMS2022-ID12	Noor Sheena Herayani Harith , Samnursidah Samir, Nur Izzati Husna Hassan, Ally Easter Alan	Finite Element Analysis with Seismic Response on RC Buildings' Simplified Modeling at High Seismicity Region in Sabah
SDMMS2022-ID13	IU Ferdous, NA Alang , J. Alias, and NA Razak	Creep Crack Growth Simulations of 316H Stainless Steel using C-Shaped Specimen
SDMMS2022-ID14	Z. M. Hafiz and E. Vorathin	Influence of Crack in Composite Plate on Natural Frequency using Multiplexed Fibre Bragg Grating Sensors
SDMMS2022-ID15	Zhang Bo , LI Shaoying, M. R.M. Rejab	Modeling the Mechanical Behavior of PolyJet 3D-Printed Resin Sand Material
SDMMS2022-ID16	MAA Roslin, N. Ab Razak , NA Alang, and N Sazali	Numerical Simulation of P91 Steel Under Low Cycle Fatigue Loading
SDMMS2022-ID17	SNA Rosli , N. Ab Razak, NA Alang	Comparison Creep Life Prediction of P91 Steel by using Omega Method and Larson Miller Parameter Method

SDMMS2022-ID18	M. M. Mubasyira, M. F. Abdullah , K. Z. K. Ahmada, R. N. I. R. Othmana, S. Abdullah	Reinforced Magnesium Alloy in Nano Fluid using Response Surface Method
SDMMS2022-ID19	Sarah Kamaludin and Prakash Thamburaja	Efficient Neighbor Search Algorithm in Nonlocal Fracture Simulation
SDMMS2022-ID21	Mohd Irman Ibrahim , Mohd Ruzaimi Mat Rejab, Ma Quanjin, Mohd Fadhil Rani	Effects on Hybridization of Interlayer Composites and Self-Reinforced Polypropylene
SDMMS2022-ID22	Mohd Fadhil Rani , Mohd Ruzaimi Mat Rejab, Mohd Irman Ibrahim, Nur Khaleeda Romli	Mechanical Characterization of 3/2 Fibre Metal Laminate Materials
SDMMS2022-ID23	Zulkifli Yusof	Impact of Cyclic Operation to Leaked Pipeline Reinforced with Composite Wrapping
SDMMS2022-ID24	Du Qianriui, Siti Sarah Kamaludin, Norwahida Yusoff	Frequency-driven Crack Propagation in Ultrasonically-assisted Bone Cutting
SDMMS2022-ID25	M.N.M. Husnain , M.R.M. Akramin, Z.L. Chuan, M.S. Shaari, Akiyuki Takahashi	Analysis of Stress Intensity Factor via Finite Element Model
SDMMS2022-ID26	Norwahida Yusoff , Feizal Yusof	J-Delta Sigma Quantification of Out-of-plane Constraint Loss in Mode-I Fracture
SDMMS2022-ID27	Jiang Xiaoxia , Gou Ningnian, Saffirna.M.S, Yang Gang, Wang Yaowei	Von-Mises stress analysis on the faceplates of laser-welded web-core steel sandwich plate
SDMMS2022-ID28	Gouningnian , Sunshuo, Jiangxiaoxia, Yuanyongguang, Wangbangle, Hanxiaotong	Numerical simulation of temperature field in ultra-narrow arc welding of thick-walled steam turbine valve body material

SDMMS2022-ID29	Aohua Li , Bingjian Zhang, Hongtao Hao	A new flat inspection vehicle for detecting belt damage
SDMMS2022-ID30	Song Mu , Kuang An , You ming Qiao	Research on failure and repair of hydraulic support column seal
SDMMS2022-ID31	Junli Guo , Zhibo Dong and Hongyuan Fang	The Effectiveness of the Equal Load Carrying Capacity Joints Design Method Based on the Ideal Elastic-plastic Hypothesis
SDMMS2022-ID32	Zhao Nan , Ding Wenjie ,Wang Qiangjing ,Shi Xinglong Li Tongman	Study on chemical state model of reserve chemical equipment
SDMMS2022-ID33	Zhiyong Jia , Yanqing Wang, Yanru Xu	Surface Enhanced Raman Scattering Effect of AgNPs /SiO ₂ Prepared by Rapid Thermal Annealing Method
SDMMS2022-ID34	Zongyu Wang, Jianwei Yu, You Ma, Aili Qu	Design and simulation analysis of bolt group connection of BS-type flange cast steel right-angle sea valve
SDMMS2022-ID35	Zhang Pei, Wang Guan , Kou Linyuan, Wu Yan, Zou Zekun, Shang Xin	Effect of 3.5% NaCl solution on the mechanical properties of 7075 aluminium alloy with RRA regression re-aging
SDMMS2022-ID36	Zou Zekun, Wang Guan , Kou Linyuan, Yang Qingrui, Zhang Pei, Xu Yiquan	Numerical study of random corrosion characteristics of metal surfaces based on the Cellular automata method
SDMMS2022-ID37	Wu Yan, Wang Guan , Kou Linyuan, Zhang Pei, Wang Wenhui, Zhu Xuejun	Research on localized corrosion and mechanical properties of high strength aluminum alloys
SDMMS2022-ID38	Song Mu ,Youming Qiao ,Kuang An,Jigang Wu	Failure analysis of ear socket of gangue retaining bracket for coal mine
SDMMS2022-ID39	M. A. Azizi , A. Ehsan	Peridynamics Model of Polymer Concrete PCL10/-15 Compression Test with Fracture

SDMMS2022-ID40	M.S. Muhamad Azmi , Tomoyuki Fujii, Keiichiro Tohgo	Estimation of ΔJ -Integral for a Shallow Crack in Small Scale Yielding (SSY) and Large Scale Yielding (LSY) Condition
SDMMS2022-ID41	Miminorazeansuhaila Loman , Mohd Hafizi Zohari and Fauziana Lamin	Tension-tension Fatigue Behavior Analysis of Glass Fiber Reinforced Polymer Composite
SDMMS2022-ID42	Chin Fung Yung, Sylvia Dennis Urai, Mohd Shamil Shaari , Akiyuki Takahashi, and Mohd Akramin Mohd Romlay	Fatigue Crack Growth Behaviour of AlSi10Mg Material Produced by Direct Metal Laser Sintering Using S-version Finite Element Method
SDMMS2022-ID43	Muhammad Zaid Bin Kamardin , Ir. Mohd Aswadi Bin Ton Alias, Asrul Hazimin Bin Mohamad	Investigation and Analysis of Pipe Support Weld Cracks
SDMMS2022-ID44	M Hawari Hasan, Rohana Jaafar and Nurjaimi Ali	Combatting Repetitive Failures at Sour Gas Concentration Unit (SGCU) Overhead System
SDMMS2022-ID45	Nurul Syafiqah Abdul Razak, Aizat Alias	Damage Assessment of Stiffened Steel Plates Subjected to Blast Loads Using Finite Element Analysis
SDMMS2022-ID46	Mohd Harris Mohammad	Failure Analysis of Radiant Tube in Ethylene Furnace