

## SDMMS FULL EVENT

TIME	EVENT	VENUE
8.00 – 8.45	Registration	Lily Room (Ground Floor)
8.45 – 8.50	Welcoming speech Prof. Ir. Dr. Shahrum Abdullah (Chairman of SDMMS 2016)	
8.50 – 9.00	Opening speech Prof. Dato' Ir. Dr. Abdul Wahab Mohammad (Dean, Faculty of Engineering and Built Environment, UKM)	
9.00 – 9.40	<b>Keynote Speaker 1:</b> <b>Title : Multiple Subsurface Crack Growth Simulation Using S-Version FEM</b> Associate Prof. Dr. Akiyuki Takahashi (Tokyo University of Science, Japan) <b>Chairperson:</b> Prof. Dr. Prakash Thamburaja	
9.40 – 10.20	<b>Keynote Speaker 2:</b> <b>Title: Challenges in Forensic Engineering</b> Ir. Dr. Ezzarhan Abdullah (Department of Occupational Safety and Health, Ministry of Human Resources, Malaysia) <b>Chairperson:</b> Prof. Dr. Prakash Thamburaja	
10.20 – 10.40	Coffee Break	
10.40 – 11.00	<b>Session A</b> <b>Chairperson :</b> Ir. Dr. Ruslizam Daud	
	<b>P01:</b> Fatigue And Fracture Properties of Laminated Bamboo Composites (Aidy Ali, K. Rassiah , F. Othman, H.P. Lee, T.E. Tay, M.S. Hazin and M.M.H. Megat Ahmad)	
11.00 – 11.20	<b>P03:</b> Evaluation of Electronic Packaging Silicon Mechanical Performance with Experimental Approach (I.A. Azid, K.L. Koay and W. Fong)	
11.20 – 11.40	<b>P04:</b> Experimental Analysis of Composite Bolted Joints using Digital Image Correlation (Andi Haris, Tong Earn Tay and Vincent Beng Chye Tan)	
11.40 – 12.00	<b>P05:</b> Influence of Mechanical Properties on Loading Sequence Effect and Fatigue Life of Aluminium Alloy (F.H.A. Suhadak, K.A. Zakaria, M.B. Ali, S. Abdullah and M.J. Ghazali)	

12.00 – 12.20	<b>P06:</b> Verification Model for Intermetallic Compound (IMC) Solder Joints Fracture using Srawley model: Part I ( <i>Ooi Eang Pang, Ruslizam Daud, Nasrul Amri Mohd Amin, Mohd Afendi Rojan and Mohd Shukry Abd Majid</i> )	Lily Room (Ground Floor)
12.20 – 12.40	<b>P09:</b> Propagation and Scattering of Guided Waves in Composite Plates with Defects ( <i>Bibi Intan Suraya Murat and Paul Fromme</i> )	
12.40 – 14.00	Lunch	Café La Vista
14.00 – 14.20	<b>Session B</b> <b>Chairperson :</b> Prof. Dr. Aidy Ali	Lily Room (Ground Floor)
	<b>P10:</b> Investigation of Load Sequence Effects on Fatigue Crack Growth Behaviour of API X65 Steel ( <i>N.I.I. Mansor, S. Abdullah and A.K. Ariffin</i> )	
14.20 – 14.40	<b>P11:</b> Methodology for Reliability Assessment of Steel Wire Ropes under Fretting Damage Loadings ( <i>Suhaimi Salleh, Muhammad 'Aimullah Abdullah and Mohd Nasir Tamin</i> )	
14.40 – 15.00	<b>P12:</b> Characterization of Creep Behaviour using Maxwell Model in 7075 Aluminium Alloy ( <i>M.I.M Ahmad and J.L. Curiel Sosa</i> )	
15.00 – 15.20	<b>P14:</b> A Study on Damage Evolution of P91 Steel under Cyclic Loading at High Temperature ( <i>Abdullah Aziz Saad, Zuraihana Bachok and Wei Sun</i> )	
15.20 – 15.40	<b>P16:</b> Effects of Low and Intermediate Strain Rates on Flow Stress of Extruded AZ31 and AZ61 Magnesium Alloys ( <i>Noradila Abdul Latif, Zainuddin Sajuri and Junaidi Syarif</i> )	
15.40 – 16.00	<b>P19:</b> Correlation of FEA Vertical Wheel Impact Energy with Lateral Wheel Impact Energy ( <i>Hikmah Zainuddin and M.B. Ali</i> )	
16.00 – 16.15	Coffee Break	
16.15 – 16.35	<b>Session C</b> <b>Chairperson :</b> Prof. Dr. Mohd Nasir Tamin	
	<b>P22:</b> Finite Element Analysis of Cracks Formation in Hot Forging Process ( <i>Ameen Topa and Qasim H. Shah</i> )	
16.35 – 16.55	<b>P23:</b> S-Version Finite Element Simulation of Fatigue Crack Growth Behavior of Interacting Subsurface Cracks ( <i>Ayaka Suzuki, Akiyuki Takahashi and Masanori Kikuchi</i> )	
16.55 – 17.15	<b>P25:</b> Perforation Behavior of Composites Sandwich Structures Subjected to Low Velocity Impact At Oblique Angles ( <i>S.H. Sheikh Md Fadzullah, O.F. Ifayefunmi, Z. Mustafa and G. Omar</i> )	

17.15– 17.35	<b>P26:</b> Buckling behavior of imperfect axially compressed cylinder with axial crack ( <i>O.F. Ifayefunmi and S.H. Sheikh Md Fadzullah</i> )	Lily Room (Ground Floor)
17.35– 17.55	<b>P28:</b> The Effect of Stress Concentration Zone in Metal Magnetic Memory Parameter under Bending Condition ( <i>A. Ariffin, S.A.N. Mohamed, S. Abdullah, A.K. Ariffin and N. Jamaluddin</i> )	
17.55– 18.00	Concluding Remarks Prof. Ir. Dr. Ahmad Kamal Ariffin Mohd Ihsan (Honorary Chairman of SDMMS 2016)	
18.00	Meet the Expert Networking / Session End	

#### List of Poster Presentations:

**P07:**Computational Ballistic Performance of Lightweight Materials in Metal-laminate Panel Subjected to 7.62-mm Armour Piercing Projectile

(*N.A. Rahman, M.F. Abdullah, S. Abdullah, I.T. Zakaria, W.F.H. Zamri, M.Z. Omar, Z. Sajuri and I.F. Mohamed*)

**P08:** Finite Element Analysis of Stress Shielding between Orthopedic Screw and Cortical-Cancellous Bone: A pilot Study.

(*Muhamad Nurhanif Husain, Ruslizam Daud, Khairul Salleh Basaruddin, Noor Alia Md Zain and Mohd Yazid Bajuri*)

**P13:** The Influence of Different Abutment on Dental Crown Stress Behavior using Finite Element Analysis

(*Khalilah Khasnulhadi, Ruslizam Daud, Fauziah Mat, Noor Alia Md Zain and Ahmad Burhanuddin Abdullah*)

**P15:** Evaluation of Enamel-Cement-Bracket Fracture using 2-D Finite Element Analysis

(*Syafiq Farhan Samshuri, Ruslizam Daud, Mohd Afendi Rojan, Noor Alia Md Zain and Ahmad Burhanuddin Abdullah*)

**P17:** Low Stress Corrosion Damage on Austenitic Stainless steel in Sodium Chloride

(*N. Islami, S. Rashid and A.K. Ariffin*)

**P18:** Analyzing Pressure Sores of the Human Tissue Damage during Compression of Pelvic Binder

(*I. Munandar, S. Huzni, Ismail M.S. and A.K. Ariffin*)

**P20 :** Fatigue Crack Growth Analysis on Square Prismatic With Embedded Cracks under Tension Loading

(*M.S. Shaari, M.R.M. Akramin, A.K. Ariffin, Akiyuki Takahashi and S. Abdullah*)

**P21:** Damage Analysis in Creep Test Using Peridynamic Formulation with Adaptive Dynamic Relaxation Method

(*Muhammad Azim Azizi, Nurul Ain Alias, Ahmad Kamal Ariffin and Nik Abdullah Nik Mohamed*)

**P24:** Monitoring of Acoustic Emission Signals during Fatigue Loading using Unsupervised Clustering Technique

(*Mazian Mohammad, Tajuddin, Shahrum Abdullah, Nordin Jamaluddin and Othman Innayatullah*)

**P27:** Fatigue Properties of Strained Thin Sheet Stainless Steel 304

(*Zainuddin Sajuri, Ammar Adil Al-bakri, Ahmad Kamal Ariffin, Mohammed Abdul Razzaq and Mohd Salehudin Fafmin*)