## POSTER SESSION 1
Day 1: 27th January 2016

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| 1  | PMM01     | The effects of compaction pressure for binary and ternary magnesium alloys  
                  Prof Dr Zuhailawati Hussain  
                  Universiti Sains Malaysia | |
| 2  | PMM04     | Effect of severe plastic deformation on the precipitation hardening of Al alloy  
                  Dr. Tomoya Aoba  
                  Toyohashi University of Technology | |
| 3  | PMM05     | Sustainable carbothermal reduction and nitridation of malaysian ilmenite concentrate by polyethylene terephthalat (PET) and coal  
                  Mr. Eltefat Ahmadi  
                  Universiti Sains Malaysia | |
| 4  | PMM06     | Superplastic deformation mechanism according to grain boundary sliding and solute drag creep in a thermally unstable fine–grained aluminum-magnesium solid solution alloy  
                  Assoc. Prof Tsutomu Ito  
                  National Institute of Technology, Kagawa College | |
| 5  | PMM07     | Synchrotron radiation micro and nano tomography for material science  
                  Assoc. Prof Masakazu Kobayashi  
                  Toyohashi University of Technology | |
| 6  | PMM09     | Selection of sample dipping time in liquid nitrogen prior to cryorolling for annealed and non annealed Al 1100 alloy  
                  Dr. Anasyida Abu Seman  
                  Universiti Sains Malaysia | |
| 7  | PMM10     | Producing precipitated calcium carbonate by flowing ionic solution from column  
                  Mr. Anuar Othman  
                  Mineral Research Centre, Malaysia | |
|    | **Material Engineering: Ceramic** | |
| 8  | PMC01     | The effects of composition and sintering temperature of silica foam fabricated by slurry method  
                  Ms. Syazwani Baharom  
                  Universiti Tun Hussein Onn | |
| 9  | PMC02     | Effect of heat treatment on crystal structure and photoluminescence of (Ca$_{2.82}$(Pr$_{0.5}$)$_{0.5}$)$_2$O$_9$ phosphor  
                  Mr. Nobuyuki Yokoyama  
                  Toyohashi University of Technology | |
| 10 | PMC03     | Effects of firing atmosphere on low temperature sintering of Al$_2$O$_3$ with a small quantity of CuO-TiO$_2$-Nb$_2$O$_5$-Ag$_2$O additives  
                  Assoc. Prof Koichi Shigeno  
                  National Institute of Technology, Ube College | |
| 11 | PMC04     | Effect of composition on MOR and water absorption of EAF Slag Added Ceramic Tile using Full Factorial Design  
                  Assoc. Prof Nurulakmal Sharif  
                  Universiti Sains Malaysia | |
| 12 | PMC05 | Structural and properties of Ba$_x$Sr$_{1-x}$TiO$_3$ synthesized using low temperature hydrothermal method  
Assoc. Prof Khairunisak Abdul Razak  
Universiti Sains Malaysia |
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| 13 | PMC06 | The effect of Zr dopant in Ba (Zr$_x$Ti$_{1-x}$)O$_3$ by using the soft combustion method  
Ms. Atiqah Ahmad  
Universiti Sains Malaysia |
| 14 | PMC07 | Synthesis and characterization of nano structured magnetite for mercury removal in water treatment  
Dr. Mukter Zaman  
Multimedia University |
| 15 | PMC08 | Effect of melting temperature on the purity of oxide and mineral-based cordierite powder for 3-D porous cordierite formation  
Assoc. Prof Hasmaliza Mohamad  
Universiti Sains Malaysia |
| 16 | PMC09 | Oxide-based 3-D porous cordierite through gel casting method  
Mr. Ahmad Kamil Fakhruddin Mohd Mokhtar  
Universiti Sains Malaysia |

**Material Engineering: Semiconductors**

| 17 | PMS01 | The photocatalytic activity of tungsten oxide layer grown on polyethylene terephthalate fiber  
Mrs. Siti Nor Qurratu Aini Abd Aziz  
Universiti Sains Malaysia |
| 18 | PMS02 | Electrochemical formation of tin oxide-hydroxide composite films for the application to electrochromic devices  
Mr. Kentaro Nishiyama  
Toyohashi University of technology |
| 19 | PMS03 | MoSi$_2$/Mo back electrode structures for CZTS-based thin-film solar cells  
Dr. Noritaka Momose  
National Institute of Technology, Nagano College |
| 20 | PMS04 | Synthesis of silicon nanowires by metal-catalyst-free process  
Assoc. Prof Takeshi Ishiyama  
Toyohashi University of technology |
| 21 | PMS05 | Structure and thermoelectric property of bulk CaMgSi intermetallic compound  
Mr. Nobufumi Miyazaki  
Toyohashi University of technology |
| 22 | PMS06 | Deposition of scaln thin film using RF-sputtering method  
Mr. Hayate Kadena  
National Institute of Technology, Okinawa College |
| 23 | PMS07 | Effects on external quantum efficiency of electrochemically constructed n-ZnO/p-Cu$_2$O photovoltaic device by annealing  
Mr. Pei Loon Khoo  
Toyohashi University of technology |
| 24 | PMS09 | Structural and photovoltaic studies on SnO$_2$-doped MWCNT based dye-sensitized solar cells  
Mrs. Siti Nur Fadhilah Zainudin  
Universiti Kebangsaan Malaysia |
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<td>Thermoelectric properties of Sn-doped Mg2Si prepared by mechanical alloying and spark plasma sintering</td>
<td>Mr. Yuta Iwasaki</td>
<td>National Institute of Technology, Niihama College</td>
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<td>Deposition and characterization of CDSE nanoparticles layer on ITO/PET flexible substrate by electrophoretic deposition</td>
<td>Dr. Khatijah Aisha Yaacob</td>
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<td>Urea adsorption by activated carbon prepared from palm kernel shell</td>
<td>Mr. Ooi Chee Heong</td>
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<td>Fabrication and characterization of photocrosslinkable trimethylsiloxyl terminated poly (dimethyl-co-methylmethacrylate) siloxane/ polyethylene glycol diacylate hydrogel properties for tissue engineering application</td>
<td>Mr. Lim Kar Wai</td>
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<td>Ms. Priscilla Yoong</td>
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<td>Mr. Ryotaro Yamamoto</td>
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<td>Williamson ether synthesis at a tertiary stereogenic carbon: a new synthetic route to anti-diabetic drugs</td>
<td>Ms. Nozomi Sasaki</td>
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<td>Highly enantioselective fluorination of branched aldehydes and its application for the synthesis of fluorinated biologically active molecules</td>
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<td>Dr. Toshinori Motegi</td>
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<td>Chemical modification of substrate surface by a water-soluble silane coupling agent for the preparation of tether-type support lipid bilayer membrane</td>
<td>Mr. Yuya Niiyama</td>
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<td>Dr. Zuratul Ain Abdul Hamid</td>
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<td>Fabrication of monophasic hydroxyapatite from alpha tricalcium phosphate by hydrothermal treatment in ammonia solution: effect of solution concentration on mechanical strength of hydroxyapatite</td>
<td>Dr. Nurazreena Ahmad</td>
<td>Universiti Sains Malaysia</td>
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37 PMB12  Cytotoxicity evaluation of ZnO-EUGENOL (ZOE) using different ZnO structure on Human Gingival Fibroblast (HGF) cell line  
Mrs. Siti Khadijah Mohd Bakhori  
Universiti Sains Malaysia

**Electrical & Electronic Engineering**

38 PEE01  Determination of normative data for a cost-effective Bal Ex Abevr: preliminary data - case study  
Dr. Zuraida Zainun  
Universiti Sains Malaysia

39 PEE02  Highly sensitive filter-less fluorescence detection method using an avalanche photodiode  
Assoc. Prof Masahiro Akiyama  
National Institute of Technology, Nagano College

40 PEE03  Characteristics of EDLC with C/C composite electrodes containing Nanocellulose  
Ms. Haruka Shimada  
National Institute of Technology, Nagano College

41 PEE04  Preparation of Ag nanoparticle-TiO₂ hybrid films and their photoconductive properties  
Mr. Kenki Yamazaki  
National Institute of Technology, Gunma College

42 PEE05  Reconfiguration system for high availability using dynamical matching mechanism  
Mr. Yoshikazu Hata  
Toyohashi University of Technology

43 PEE06  Resilient sensing with autonomous networked tiny satellites  
Mr. Yoshikazu Hata  
Toyohashi University of Technology

44 PEE07  Collective formation for autonomous networked tiny satellites  
Mr. Masatoshi Nozawa  
Toyohashi University of Technology

**Mechanical & Manufacturing Engineering**

45 PMH01  Effect of forced vibration on pulse-echo ultrasonic scanning for fiber glass composite laminates inspection  
Mr. Muhammad Faisal Mahmod  
Universiti Sains Malaysia

46 PMH02  The phase control of circadian rhythms using melanopsin-specific DNA aptamer  
Mr. Shuhei Yamashita  
Toyohashi University of Technology

47 PMH03  Measurement of vapor-liquid equilibria for aqueous solution contained organic compound by gas-stripping method  
Prof Kenji Fukuchi  
National Institute of Technology, Ube College

**Aerospace Engineering**

48 PMA01  Development of aerial view health monitoring system for malaysia oil palm plantations using unmanned aerial vehicle  
Mr. Azizul Abdullah  
Universiti Sains Malaysia
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Mrs. Rohani Abdul Majid  
Universiti Sains Malaysia |}
| 2 | PMP02     | Isothermal crystallization kinetics of polylactic acid toughened with an impact modifier  
Assoc. Prof Razaina Mat Taib  
Universiti Sains Malaysia |}
| 3 | PMP03     | Effect of γ-aminopropyltriethoxy silane (γ-APS) coupling agent on mechanical and morphological properties of high density polyethylene (HDPE)/ acrylonitrile butadiene rubber (NBR)/ palm pressed fibre (PPF) composites  
Ms. Nabila Norizan  
Universiti Sains Malaysia |}
| 4 | PMP04     | Effect of polypropylene maleic anhydride (PPMAH) on mechanical and morphological properties of polypropylene(Pp)/recycled acrylonitrile butadiene rubber(NBRr)/ empty fruit bunch (EFB) composites  
Mrs. Nurul Othman  
Universiti Malaysia Perlis |}
| 5 | PMP05     | Processing torque and thermal properties of kenaf (KNF) filled linear low-density polyethylene/poly (vinyl alcohol) (LLDPE/PVA) composites with addition of 3-(trimethoxysilyl)propyl methacrylate  
Ms. Pang Ling  
Universiti Sains Malaysia |}
| 6 | PMP06     | The partial replacement of palm kernel shell by carbon black or halloysite nanotube as fillers in Nr composites  
Mrs. Shuhairiah Daud  
Universiti Sains Malaysia |}
| 7 | PMP07     | Curing characteristics and tear properties of bentonite/calcium carbonate filled ethylene propylene monomer (EPDM) rubber composite  
Ms. Nurus Che Mat  
Universiti Sains Malaysia |}
| 8 | PMP08     | Thermal properties of silica-filled high density polyethylene composites compatibilized with glut palmitate  
Mrs. Dalina Samsudin  
Universiti Sains Malaysia |}

**POSTER SESSION 2**

Day 2: 28th January 2016

**Material Engineering: Polymer & Composites**

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Universiti Sains Malaysia |
| 2 PMP02   | Isothermal crystallization kinetics of polylactic acid toughened with an impact modifier  
Assoc. Prof Razaina Mat Taib  
Universiti Sains Malaysia |
| 3 PMP03   | Effect of γ-aminopropyltriethoxy silane (γ-APS) coupling agent on mechanical and morphological properties of high density polyethylene (HDPE)/ acrylonitrile butadiene rubber (NBR)/ palm pressed fibre (PPF) composites  
Ms. Nabila Norizan  
Universiti Sains Malaysia |
| 4 PMP04   | Effect of polypropylene maleic anhydride (PPMAH) on mechanical and morphological properties of polypropylene(Pp)/recycled acrylonitrile butadiene rubber(NBRr)/ empty fruit bunch (EFB) composites  
Mrs. Nurul Othman  
Universiti Malaysia Perlis |
| 5 PMP05   | Processing torque and thermal properties of kenaf (KNF) filled linear low-density polyethylene/poly (vinyl alcohol) (LLDPE/PVA) composites with addition of 3-(trimethoxysilyl)propyl methacrylate  
Ms. Pang Ling  
Universiti Sains Malaysia |
| 6 PMP06   | The partial replacement of palm kernel shell by carbon black or halloysite nanotube as fillers in Nr composites  
Mrs. Shuhairiah Daud  
Universiti Sains Malaysia |
| 7 PMP07   | Curing characteristics and tear properties of bentonite/calcium carbonate filled ethylene propylene monomer (EPDM) rubber composite  
Ms. Nurus Che Mat  
Universiti Sains Malaysia |
| 8 PMP08   | Thermal properties of silica-filled high density polyethylene composites compatibilized with glut palmitate  
Mrs. Dalina Samsudin  
Universiti Sains Malaysia |
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| 9 | PMP09 | Comparison enhancement of mechanical properties of graphene oxide and reduced graphene oxide based polymer composites  
Ms. Nur Hidayah Md Said  
Universiti Malaysia Perlis |
| 10 | PMP10 | Hardness and swelling behaviour of epoxidized natural rubber/recycled acrylonitrile-butadiene rubber (ENR 50/NBRr) blends  
Ms. Hazwani Syaza Ahmad @ Sofa  
Universiti Sains Malaysia |
| 11 | PMP11 | Potential of donax grandis fiber as reinforcement in starch-based composite  
Ms. Sofiyah Mohd Razali  
Universiti Malaysia Kelantan |
| 12 | PMP12 | Paddy straw powder filled phbv biocomposites: the effects of filler loading and surface modification  
Mrs. Noorulnajwa Yaacob  
Universiti Sains Malaysia |
| 13 | PMP13 | Effects of hydrocolloid on density and morphological properties of kenaf filled natural rubber latex foam  
Mr. Ahmad Fikri Abdul Karim  
Universiti Sains Malaysia |
| 14 | PMP14 | The effect of triacetin in the miscibility and migration ability of polyvinyl chloride compounds  
Dr. Arjulizan Rusli  
Universiti Sains Malaysia |
| 15 | PMP15 | Effect of fibre treatments on tensile properties of EVA/NR/MLF thermoplastic elastomer composites  
Mrs. Faiezah Hashim  
Universiti Sains Malaysia |
| 16 | PMP16 | Production of PMMA/Bn composite insulating material using electrostatic adsorption method  
Assoc. Prof Yoshinobu Murakami  
Toyohashi University Of Technology |
| 17 | PMP18 | Propagation loss in electrospun Poly(Vinylcarbazole) submicron fibers  
Mr. Shota Satozono  
Toyohashi University of Technology |
| 18 | PMP19 | Characterization of carbon films prepared from polybenzoxazine films by temperature-controlled carbonization  
Mr. Tsubasa Osawa  
Toyohashi University of Technology |
| 19 | PMP21 | Extraction of silica content from the cymbopogan citratus (lemon grass) and its performance as reinforcement for polymers  
Mrs. Nur Firdaus Mohamed Yusof  
Universiti Malaysia Perlis |
| 20 | PMP22 | Synthesis of main-chain polyester containing MacMillan catalyst and its application to asymmetric Diels-Alder reaction  
Mr. Liem Nguyen  
Toyohashi University of Technology |
| 21 | PMP23 | Rigid polyurethane/oil palm fibre biocomposite foam  
Ms. Adilah Alis  
Universiti Teknologi Malaysia |
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<td>Ms. Siti Nadia Aini Ghazali Universiti Teknologi Malaysia</td>
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<td>The improvement of the mechanical properties of PMMA denture base by Al₂O₃ particles with nitrile rubber</td>
<td>Mr. Ahmed Alhareth Universiti Sains Malaysia</td>
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<td>Palm oil polyol/polyethylene glycol blend for rigid polyurethane foam</td>
<td>Ms. Izzah Ahmad Nasir Universiti Teknologi Malaysia</td>
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<td>Effect of dispersion preparation technique of calcium carbonate (CaCO₃) fillers on mechanical properties of natural rubber (NR) films</td>
<td>Ms. Fairus Mazlia Mat Suki Universiti Sains Malaysia</td>
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<td>Effect of combination ultrasonic and ball milling techniques of commercial fillers dispersion on mechanical properties of natural rubber (NR) latex films</td>
<td>Ms. Noramirah Hamran Universiti Sains Malaysia</td>
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<td>Effect of soft-hard segment content on properties of palm oil polyol based shape memory polyurethane</td>
<td>Dr. Syazana Ahmad Zubir Universiti Sains Malaysia</td>
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<td>The effect of pre- and post-electron beam irradiation on the properties of NR/rCR blends</td>
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<td>Refractory degradation by glass melts: dissolution of aluminium oxide in molten silicates</td>
<td>Dr. Tutki Katrina Abdullah Universiti Sains Malaysia</td>
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<td>Removal of acetic acid through supported liquid membrane using different type of polymeric membrane as a support</td>
<td>Mrs. Norlisa Harruddin Universiti Malaysia Pahang</td>
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**Material Engineering: Nanomaterial**

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<td>Effect of Sonication Time on The Properties of Multilayer Graphene</td>
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<td>Supercritical Co₂-assisted immobilization of catalitically active Pt nanoparticles inside the pores of metal organic framework</td>
<td>Assoc. Prof Kiyoshi Matsuyama National Institute of Technology, Kurume College</td>
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| 35      | PMN05      | Efficient adsorption consentration and photolysis of acetaldehyde on   | Mr. Satoshi Yamaguchi  
Toyohashi University of Technology                                                                             |
|         |            | titania-mesoporous silica composite                                      |                                                                                                                                            |
| 36      | PMN06      | Rapid adsorption removal of hydrogen sulfide by surface-modified        | Ms. Akane Inoue  
Toyohashi University of Technology                                                                                     |
|         |            | activated carbon                                                        |                                                                                                                                            |
| 37      | PMN07      | Improvement of electrical anisotropy IN Bi-2212 high temperature        | Assoc. Prof Hiromi Tanaka  
National Institute of Technology, Yonago College                                                                 |
|         |            | superconductor                                                          |                                                                                                                                            |
| 38      | PMN08      | Structural analysis of potassium-graphite intercalation compounds by    | Mr. Shinya Hatakoshi  
National Institute of Technology, Nagano College                                                                 |
|         |            | transmission electron microscopy combined with image processing          |                                                                                                                                            |
| 39      | PMN09      | Synthesis of Au nanoparticle-deposited mesoporous SiO2-TiO2 for highly- | Dr. Go Kawamura  
Toyohashi University of Technology                                                                                   |
|         |            | efficient photocatalyst under sunlight                                   |                                                                                                                                            |
| 40      | PMN10      | Enhancement of critical current density in bi-based superconductor by  | Mr. Kippei Tanaka  
National Institute of Technology, Yonogo College                                                                 |
|         |            | inducing nano-sized structural defects                                   |                                                                                                                                            |
| 41      | PMN13      | Fabrication and charge-discharge property evaluation of all-solid-state  | Dr. Wai Kian Tan  
Toyohashi University of Technology                                                                                   |
|         |            | Fe-air rechargeable battery with composite electrolyte sheet            |                                                                                                                                            |
| 43      | PMN14      | Magneto-optical responses of cerium substituted yttrium iron garnet     | Mr. Takuya Yoshimoto  
Toyohashi University of Technology                                                                                   |
|         |            | film annealed by laser in vacuum                                        |                                                                                                                                            |
| 44      | PMN15      | The effect of gold nanoparticles modified electrode on the glucose      | Ms. Zulfa Aiza Zulkiifi  
Universiti Sains Malaysia                                                                                           |
|         |            | sensing performance                                                      |                                                                                                                                            |

**Civil Engineering**

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| 45      | PCV01      | Basic research of the acquisition of biological information towards  | Mr. Yuta Kobayashi  
National Institute of Technology, Tsuruoka College                                                                                   |
|         |            | the construction of agricultural support system                      |                                                                                                                                            |
| 46      | PCV02      | Nonstructural damages of reinforced concrete buildings due to 2015    | Mr. Inwan Adiyananto  
Universiti Sains Malaysia                                                                                                      |
|         |            | Ranau earthquake                                                      |                                                                                                                                            |
| 47      | PCV03      | A study on traffic weaving segment level of service at MALAYSIA urban  | Ms. Rohaya Abdullah  
Universiti Sains Malaysia                                                                                                      |
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Universiti Sains Malaysia                                                                        |
| 49   | PCV05| Spatial analysis of accident risks based on motorcyclists’ perception of hazard | Mr. Muhammad Redho Zakaria  
Universiti Sains Malaysia                                                                          |
| 50   | PCV06| Development of environmental education concerned water in northeast Asia, Mongolia and far-east Russia along the Amur river | Prof Kenji Fukuchi  
National Institute of Technology, Ube College                                                   |

### Electrical & Electronics Engineering

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National Institute of Technology, Hakodate College                                               |
| 52   | PEE09| The ice and snow effect on wireless power transfer                  | Mr. Shun Endo  
National Institute of Technology, Hakodate College                                                 |
| 53   | PEE10| Effect of mutual coupling and positional deviation between the coil on wireless power transfer | Mr. Kenta Furuta  
National Institute of Technology, Hakodate College                                               |