

8th Asian-Australasian Conference on Composite Materials 2012 (ACCM-8)

Composites: Enabling Tomorrow's Industry Today

**Kuala Lumpur, Malaysia
6 - 8 November 2012**

Volume 1 of 2

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ISBN: 978-1-62993-066-4

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Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



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Hong Kong University of Science & Technology,
Clear Water Bay, Kowloon, Hong Kong

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List of papers

- O-APP-110** **Extending the Service Life of Crude Oil Export Line using PipeAssure™ Composite Overwrap Repair System** ***
M.A. Nurnisham and H. Badrul Hisham
- O-APP-344** **Challenges and Issues in the Detail Design of Composite Aircraft Structures** ***
R.J. Chinniah, S.H. Macci, T. Chin and A.F. Adnan
- O-APP-348** **Carbon Fiber Based Non-crimp-fabrics (NCFs) for Big Wind Turbine Blades and Composite Systems for Fire Resistant Structures** ***
H. Haberkern
- O-BIO-051** **Hybrid laser technology for composite coating and medical applications** ***
M. Jelínek, T. Kocourek, P. Písařík, J. Mikšovský, J. Remsa, I.N. Mihailescu and J. Kopeček
- O-BIO-075** **Comparative analysis of the physical properties of hydroxapatite and polyhedral oligomeric silsesquioxanes crystalline particulates reinforcing chitosan-based ribbon-like composite microfibrils** ***
S.L. Chew, K. Wang, S.-P. Chai, P. Pasbakhsh and K.L. Goh
- O-BIO-191** **Electrospun chitosan/halloysite nanocomposites** ***
C. Fernandopulle, K. Govindasamy, R. De Silva, P. Pasbakhsh, S.-P. Chai and K.L. Goh
- O-BIO-311** **Effect of Strain Rate and Temperature on Elastic Properties of PCL/Starch** ***
F.M. Nor, H.Y. Lee, J.Y. Lim and D. Kurniawan
- O-BIO-314** **Silane treatments on cellulose fabric/PLA composites** ***
N. Redzuan, B.-S. Kim and D. Kurniawan
- O-DES-084** **Failure Behavior of Aluminum-CFRPs Hybrid Composites Beam under Bending Collapse Load** ***
H.C. Kim, D.K. Shin and J.J. Lee
- O-DES-092** **Vibration Characteristics of Bi-stable Asymmetrically Laminated Composite Shell** ***
K. Takahashi, S. Honda, and Y. Narita
- O-DES-094** **Static and Vibration Optimization of Composite Structures with 3-D Local Anisotropy** ***
Y. Ishibashi, S. Honda, and Y. Narita
- O-DES-142** **Multi-objective Optimization of Fibrous Composites with Curvilinear Fibers for Mechanical Properties and Fiber Geometries** ***
T. Igarashi, S. Honda, and Y. Narita
- O-DES-201** **Development of Oblique angled Spacecraft Carbon-Epoxy Composite shielding system in Normal-Inclined configuration** ***
A.H. Baluch and C.-G. Kim
- O-DUR-008** **Effect of Water Absorption on the Mechanical Properties of Nanoclay Filled Recycled Cellulose Fibre Reinforced Epoxy Hybrid Nanocomposites** ***
H. Alamri and I.M. Low
- O-DUR-022** **Barrier Properties of EPDM/CR/Layered Silicate Nanorubber** ***
W.-Y. Hsieh and C.-M. Wu

- O-DUR-085** **Effect of Hybridization on the Water Absorption Behaviour of Pultruded Kenaf Fibre Reinforced Polyester Composites** ***
M.R. Osman, H.M. Akil and Z.A. Mohd Ishak
- P-DUR-253** **Durability on Carbon Fiber Reinforced Polymer Cable Cores for Overhead Power Transmission Lines** ***
K.-Y. Kim and W.L. Park
- O-DUR-271** **Diffusion in Triangular Bar Reinforced Composite** ***
B.B. Pajarito, M. Kubouchi and S. Aoki
- O-DUR-361** **Effect of Fiber/Matrix Modification on Tensile Properties and Water Sorption Behavior of Hybridized Kenaf/PALF Reinforced HDPE Composite** ***
I.S. Aji, E.S. Zainudin, S.M. Sapuan, A. Khalina and M.D. Khairul
- O-FIR-012** **Effect of Flame Retardant Fillers on Insulation Properties of Polypropylene/Ethylene Propylene Diene Monomer Composites** ***
M.S. Hamzah, M. Mariatti and M. Kamarol
- O-FIR-058** **Significance of Different Influencing Factors Within a Pyrolysis Simulation** ***
N. Reuther, X.L. Liu and K.H. Leong
- O-FIR-082** **A Strategy to Improving the Fire-Performance of Flax Fibre/Epoxy Skin- and Balsa Wood-Core Sandwich Composites without Degrading their Inherent Mechanical Properties** ***
E. Kandare, P. Luangtriratana and B.K. Kandola
- O-FIR-120** **Flammability and Mechanical Properties of Ramie Reinforced Poly(lactic acid) (PLA) Composites by Using DOPO** ***
T. Yu, Y. Li, and Y. Wang
- O-FIR-130** **Reaction to Fire of Nanocomposites: Influence of the Morphology** ***
S. Bourbigot, F. Samyn, G. Fontaine and S. Duquesne
- O-FIR-139** **Effect of Intumescent Flame Retardant (IFR) on Thermal Properties of Ethylene Vinyl Acetate (EVA)/Zeolite Composites** ***
N.D. Zahari, N. Othman and Z.A. Mohd Ishak
- O-FIR-170** **Strategies for Flame Retarding Bio-composites** ***
F. Samyn, S. Duquesne, S. Bourbigot, and P. Ouagne
- P-FIR-186** **Synergistic Effects of Zinc Hydroxystannate on the Flame Retardancy and Thermal Degradation of Intumescent Flame-Retardant Polypropylene** ***
X. Su, Y. Yi and J. Tao
- O-FIR-350** **Post-fire Structural Integrity of Phenolic Gratings for Offshore Platforms** ***
R. Holliday, J. Humphrey, P. Di Modica, S. Christke, G. Kotsikos, and A.G. Gibson
- O-FRA-027** **Prediction of First Transverse Crack Formation in Cross-Ply CFRP Laminates under Fatigue Loading** ***
A. Hosoi, K. Kurihara, N. Sato and H. Kawada
- P-FRA-073** **Fabrication and Dynamic Mechanical Properties of A357-Stainless Steel Composites** ***
M.N. Mazlee, J.B. Shamsul and Y. Zamri
- O-FRA-162** **Toughening of Epoxy Polymers with Rigid and Soft Particles** ***
L.-C. Tang, H. Zhang, S. Sprenger, L. Ye and Z. Zhang

- O-FRA-167** **Influence of Cyclic Stress on Interfacial Debonding in Natural Fiber Reinforced Composite** ***
A. Sakuratani, T. Matsuoka and T. Hirayama
- O-FRA-180** **Creep Behavior of Carbon Fiber Nano-composites** ***
Yi.-L. Li, M.-Y. Shen, W.-J. Chen, H.-S. Su, C.-L. Chiang, M.-H. Sung, Y.-K. Hsiao and M.-C. Yip
- O-FRA-190** **Microcracking and Delamination of Stitched Composites under Static and Fatigue Loads** ***
A. Yudhanto, N. Watanabe, Y. Iwahori and H. Hoshi
- O-FRA-192** **Crushing Characteristics of Filament Wound Carbon Fiber/Epoxy Tube under Quasi-static Compression Condition** ***
X.L. Jia, G. Li, G. Chen, Y.H. Yu and X.P. Yang
- O-FRA-222** **Fracture Analysis of Needle Punched Glass Mat Composite with Open Hole** ***
Z.Y. Zhang, R. Nishida, Y.Q. Yang and H. Hamada
- O-FRA-242** **Stress-Life(S-N) Curve Prediction of Multi-layered Composite Laminates by using Multiaxial Fatigue Theory** ***
J.-J. Lee, M.-J. Kim, H.-D. Kim and J.-S. Park
- O-FRA-249** **Unidirectional Carbon/epoxy Composite with Modified Surface by using Randomly Oriented Aramid Fiber Felt** ***
I. Choi, J.G. Kim and D.G. Lee
- O-FRA-273** **A Study on the High Velocity Impact Behaviors of Nomex Sandwich Panels** ***
K.H. Nguyen, J.H. Kweon and J.H. Choi
- O-FRA-295** **Fatigue Behavior of Composite Single-lap Joints with Through-Thickness Reinforcement by Stainless Steel Pins** ***
H.G. Son, B.H. Lee, Y.B. Park, J.H. Kweon and J.H. Choi
- O-FRA-299** **Effects of Lamina Damages on Flexural Stiffness of CFRP Composites** ***
S.S.R. Koloor and M.N. Tamin
- P-FRA-335** **A Study on the Toughening of Unsaturated Polyesters with Liquid Rubbers and their Glass Fiber Reinforced Composites** ***
J.H. Yoo, M.S. Kim, J.K. Park and K.Y. Kim
- P-FRA-340** **The Effect of Different Velocity on Impact Strength of Advanced Composite Material for Aircraft Application** ***
A. Syayuthi. A.R, Haftirman, M. Afendi, M.S. Abdul Majid, N.B. Wei and M.S. Abdul Manan
- P-FRA-346** **Investigation on Fracture Toughness of PLA Hybrid Biocomposite** ***
H. Anuar and Z. Siti Fatimah
- O-FWE-052** **Improvement of Sliding Wear Performance of Epoxy with Hybrid Fillers** ***
M.Q. Zhang, M.Z. Rong and Q.B. Guo
- P-FWE-099** **Tribological Properties of CF/Gr/PTFE Bilayer Composites** ***
Y.J. Shi, Y.N. Sun, L. Mu, X. Feng and X.H. Lu
- O-FWE-138** **Research on Friction and Wear Resistance of Nano-particles Reinforced PEEK Composites** ***
Z.D. Zhang, K.Y. Sun, J. Xu, Y.H. Cui, C.C. Ning, Y.C. Wu and Y. Jin

- O-FWE-227** **Tribological Properties of PEEK Composites in Ionic Liquid Lubricants** ***
J. Wu, Y.J. Shi, L.W. Mu, X. Feng and X.H. Lu
- O-GCC-013** **The Reactivity of Fly Ash in Geopolymer Synthesis: A Qualification Study by FTIR** ***
Z. Zhang, H. Wang and J.L. Provis
- O-GCC-063** **Development and Properties of Composite Cement Reinforced Coconut Fiber with the Addition of Fly Ash** ***
N.I. Muhd Nazdri, J.B. Shamsul and M.N. Mazlee
- O-GCC-117** **Numerical Simulation of Porous Structure in Foam Concrete on Thermal Insulation Property** ***
Q. Li, H. Wang, F. Bullen and A. Reid
- O-GCC-148** **Incorporation of Rice Straw Into Clay Bricks** ***
Y. Mubarak Sani, A.B. Ayu Haslija and S. Noor Rosyidah
- O-GCC-231** **Palm-Based Lightweight Concrete System: A Preliminary Study** ***
K.A.M. Sari, S. Mat and K.H. Badri
- O-GCC-331** **Rheological Behavior of Fly Ash Based Geopolymers with the Addition of Superplasticizers** ***
C. Montes, D. Zang and E.N. Allouche
- O-GCC-363** **Geopolymers Properties from Various Metakaolin** ***
A. Autef, E. Joussein, G. Gasgnier and S. Rossignol
- O-GCC-364** **Effects of Ground Granulated Blast Furnace Slag on the Mechanical and Microstructure of Fly Ash-based Geopolymer Binders** ***
T. Yang, X. Yao, Z. Zhang and H. Wang
- O-GCC-380** **Recycled Concrete Aggregate for Structural Applications** ***
D. Talamona and K.H. Tan
- O-GRE-039** **Tensile Properties and Water Absorption of Spear Grass Fiber Filled High Density Polyethylene/Thermoplastic Soya Spent Powder Composites** ***
S.T. Sam, N.Z. Noriman, H. Ismail and S.B.S. Shahnaz
- P-GRE-044** **Hybrid Fiber-reinforced Biodegradable Polymer Composites** ***
Y.-F. Shih, Y.-W. Huang and C.-S. Kuan
- O-GRE-061** **Eco-Composites of Corn Stalk and Polylactic Acid: Effect Maleic Acid** ***
S.C. Koay, H. Salmah and L.M. Melody Yu
- O-GRE-067** **Effect of Three Different Epoxidized Palm Oil on the Properties of Poly(Lactic Acid)** ***
N.A. Ibrahim, V.S. Giita Silverajah, N. Zainuddin, W.M.Z. Wan Yunus and H.A. Hassan
- O-GRE-068** **Mechanical, Water Absorption and Weathering Properties of Poly(Butylene Succinate)/Kenaf Bast Fibre Composites: Effect of Maleated Compatibiliser** ***
M.Z. Ahmad Thirmizir, Z.A. Mohd Ishak, R. Mat Taib and S. Rahim
- O-GRE-079** **Utilization of Electronic Sensor Network (ESN) Control Chamber for monitoring Soil Decomposition Process of Sago Starch Filled Natural Rubber Latex Composite Films** ***
M.M. Afiq, A.R. Azura, O. Sidek and A. Baharin
- O-GRE-083** **Biomass Carbon Ratio of Biobased Polymer Composites** ***
M. Funabashi, F. Ninomiya, C. Buenaventurada, K. Taguchi, H. Yagi, A. Oishi and M. Kunioka

- O-GRE-100** **Study of Cocoa Pod Husk / Polyvinyl Alcohol (PVA) as A New Biodegradable Composite Film** ***
F.-L. Pua, S.M. Sapuan and A. Kumaran
- O-GRE-128** **Mechanical Properties and Life Cycle Assessment of Jute Woven Composites and their Hybrids** ***
S.D. Pandita, M.A. Manan, A.S. Subramanian, C.H. Lau and J. Wei
- O-GRE-160** **Study on Mechanical and Crystallization Behavior of Recycled Poly(ethylene terephthalate)/ Newspaper Fiber/ Montmorillonite Nanocomposite** ***
S.M. Ardekani, A. Dehghani, A. Hassan, M.U. Wahit, and M.A. Al-Maadeed
- O-GRE-195** **Fabrication and Mechanical Characterization of Green Composites from Bamboo Fabric and Poly (lactic acid)** ***
N.F. Mohammad Rawi, K. Jayaraman and D. Bhattacharyya
- O-GRE-216** **Manufacturing and Characterisation of Reactive Polylactic Acid (PLA)-Unidirectional Flax Fibre Composites** ***
K. Jayaraman, X.W. Yuan and G. Huen
- O-GRE-221** **Toughening of Polylactide by Two Core-Shell Rubbers** ***
M. Abtahi, A. Baji and Y.-W. Mai
- P-GRE-234** **Preparation and Characterization of Polyurethane Foam Using PLA/PEG as Polyols** ***
J.M. Lee, S.H. Kim, H.Y. Jeong, N.R. Ahn and J.S. Park
- P-GRE-248** **Preparation of Biodegradable Low Melting Binder Fibers for Nonwoven composites** ***
B.J. Yeang, Y.O. Choi and I.W. Nam
- O-GRE-256** **Effect of Compatibilizing Agents and Moisture Exposure on Tensile Properties of Rice Husk/Nanoclay Hybrid Filler-filled Low Density Polyethylene Nanocomposite films** ***
K. Majeed, A. Hassan, A.A. Bakar and M. Jawaid
- O-GRE-259** **The Incorporation of Kenaf Fibers in Sago Starch Biocomposites Film** ***
A. Zuraida, A.R. Nur Humairah, M.R. Nur Suraya and M. Nazariah
- O-GRE-310** **Novel Recyclable Coated Fabric using Kenaf Fiber for Architectural Membrane Structure** ***
H. Toyoda
- P-GRE-360** **Study of Biodegradable Green Nanocomposites Reinforced by Montmorillonite Nanoplatelets** ***
C.H. Neo, I.-K. Park, J.-P. Hong, Y.-J. Kim, H.-W. Seo and J.-D. Nam
- O-ITP-023** **Multifunctional Interphases in Composites** ***
E. Mäder, S.-L. Gao, J. Zhang, and N. Wiegand
- O-ITP-024** **Processing and Property of Carbon-fiber Aluminum-foam Sandwich with Low-density Short Aramid-fiber Interleave** ***
Z. Sun, S.Y. Sun, X.Z. Hu, H.R. Chen, T. Massey and Z. Wong
- O-ITP-054** **Comparative Studies of Mechanical Properties of Poly (ϵ -Caprolactone) and Poly (lactic acid) Blends Reinforced with Natural Fibers** ***
N.I. Akos, M.U. Wahit, R. Mohamed and A.A. Yussuf
- O-ITP-074** **A Study of Mechanical Properties of Ti-PEEK-Cf Hybrid Laminates** ***
L. Pan, J.-S. Wei and J. Tao

- O-ITP-101** **Inherent Sensing and Interfacial Evaluation of Fiber Reinforced CNT-Phenolic Nanocomposites with Plasma Surface Modification** ***
Z.J. Wang, D.J. Kwon, G.Y. Gu, J.K. Park, W.I. Lee and J.M. Park
- O-ITP-154** **A Numerical Study on Low Failure Strength of CFRP Laminates with Impact Damage** ***
M. Ichiki, H. Suemasu and Y. Aoki
- O-ITP-155** **Mechanical Properties of Kenaf Composites Coated with Several Nanofibers** ***
Y. Kobayashi, G. Ben and K. Sakata
- P-ITP-232** **Study on the Surface Grafting Treatment of Polyester, Polyamide 6 and Polypropylene Woven Fabrics using Pen-type Radio Frequency Plasma Treatment** ***
J.-Y. Liu, K.-B. Cheng, M.-H. Lee and J.-F. Hwang
- O-ITP-243** **Surface Modifications of Gasketless Carbon Composite Bipolar Plates for Gas Tightness** ***
J.W. Lim and D.G. Lee
- O-ITP-284** **Effects of Surface Modifications on the interfacial bonding of Flax/ β -Polypropylene composites** ***
C.-J. Wang, C.-M. Wu, T. Yu and C.-W. Ying
- O-ITP-345** **Tensile and Impact Properties of Polypropylene/Microcrystalline Cellulose Treated with Different Coupling Agents** ***
N. Samat, C.D. Marini, M.A. Maritho and F.A. Sabaruddin
- O-JOI-043** **Effect of Temperature on the Strength Properties of Adhesively Single-Lap Bonded Joint for Composite Laminates** ***
S.N.A. Razak, A.R. Othman and L.W. Sheng
- P-JOI-166** **Closed-form Solutions for Epoxy Adhesively Bonded Dissimilar Joint** ***
M. Afendi, A. Abdul Rahman, Haftirman, M.S. Abdul Majid and A. Syayuthi A.R.
- O-JOI-267** **Failure Characteristics of Pin-reinforced Composite Single-lap Bonded Joint in Various Temperature Conditions** ***
Y.B. Park, B.H. Lee, D. Kumar, J.H. Kweon and J.H. Choi
- O-JOI-274** **Strength Evaluation of Bolt Joint with Hole Clearance** ***
J.H. Yun, K.W. Jeong, J.H. Choi and J.H. Kweon
- O-JOI-294** **Environmental Effects on the Strength of Carbon/BMI-Nomex Sandwich Joints under Pull-out and Bearing Loads** ***
H. Ji, Y.B. Park, G.C. Lee, J.H. Kweon and J.H. Choi
- O-JOI-332** **Improving the Fracture Resistance of Sandwich Composite T-Joints by Z-pinning** ***
A. Nanayakkara, S. Feih and A.P. Mouritz
- O-JOI-368** **Reliability based Design Optimization of Bolted Joint in Cylindrical Composite Structure using simplified analysis** ***
M. Kim, B. Jang, H. Kim, S. Lee and J. Park
- O-MCM-031** **Damage Behaviour in Thin Titanium Films CFRP Fibre Metal Laminate for Composite Bolted Joints** ***
H. Nakatani, Y. Nekoshima, T. Yamada and S. Ogihara
- O-MCM-045** **Physical Properties and Microstructure of Green Aluminium Matrix Composite** ***
Z. Yusoff, J.B. Shamsul and M.N. Mazlee
- O-MCM-055** **Damage Growth Simulation of Ceramic Matrix Composites Reinforced with Ceramic Fibers** ***

R. Kitamura, M. Yamane, K. Goda and J. Noda

- O-MCM-076** **Microstructure, Physical Properties and Wear Behavior of SS316L/h-BN Composites** ***
S. Mahathanabodee, T. Palathai, S. Raadnuj, R. Tongsri and N. Sombatsompop
- P-MCM-086** **The Corrosion Study on the Effect of Heat Treated Mg–Mn Alloy for Sacrificial Anode Cathodic Protection** ***
A.M.H. Firdaus, M.N. Derman, J.B. Shamsul and S.S. Rizam
- O-MCM-111** **Role of Pore Microstructures on the Decomposition Kinetics in MAX-Phase Composites** ***
I.M. Low and W.K. Pang
- O-MCM-158** **A Study on Physical Properties of CNT Reinforced Carbon/Carbon Composites** ***
M.-Y. Shen, Y.-L. Li, H.-S. Su, C.-L. Chiang, Y.-K. Hsiao, M.-H. Sung and M.-C. Yip
- P-MCM-209** **Effect of Sn Powder Addition Methods on Properties of Sintered Frictional Cu-Base Composites** ***
R. Tongsri, N. Tosangthum, R. Krataitong, A. Daraphan, J. Prapai and M. Morkotjinda
- O-MCM-210** **Factors Affecting on Properties of the Injection-Moulded W base Composite** ***
R. Tongsri, P. Wila, T. Yodkaew, J. Lamlertham and B. Vetayanugul
- O-MCM-224** **Characterization and Optimization of Compaction Pressure in the Alumina (Al₂O₃) Reinforced Iron-Chromium (Fe-Cr) Composite under Microwave Sintering Process** ***
W. Rahman, J.B. Shamsul and M.N. Mazlee
- P-MCM-237** **Microstructure, Mechanical Properties and biocompatibility of Ultra Fine Grained Ti-Nb-X Composites with CPP Fabricated by SPS using HEMM powders** ***
S.-M. Kim, K.-D. Woo, D.-S. Kang, D.-G. Kim, K.-J. Lee and M.-H. Lee
- P-MCM-240** **Effect of β -TCP Content on Mechanical Properties and Bioactivity of Hydroxyapatite/ β -Tricalcium Phosphate Composites** ***
S. Kobayashi and T. Murakoshi
- O-MCM-307** **Mechanical Characteristics of Al₂O₃, TiO₂ and Al₂O₃-40.wt%TiO₂ Thermal Coating on AISI 1045 matrix by Nano-indentation Test** ***
Y.R. Wang, C.J. Jin and J.I. Song
- O-MCM-359** **Fabrication of TiB₂-Al₂O₃ composite by combustion synthesis** ***
M. Amiri Roudan, M. Hamdi, R. Rahbari Ghahnavieh and M. Akhtari Zavareh
- O-MEC-030** **Effect of Constituent Ply Thickness on Nonlinear Mechanical Response in CFRP Angle-Ply Laminates** ***
S. Ogihara, H. Nakatani and Y. Kogo
- O-MEC-116** **On the Effect of Voids and Porosities on the Mechanical Properties of M18-1/G939 Quasi Isotropic Carbon/Epoxy Laminates** ***
A.B. Harman, J.J. Wang and A.A. Baker
- O-MEC-280** **Optimal Design of Buckling and Failure Loads of Sandwich Composite Cylinders for Underwater Vehicles** ***
G.A. Yu, G.C. Lee, J.H. Kweon, J.H. Choi and Y.S. Cho
- O-MEC-336** **Comparison of Mechanical Properties of Boron and Kevlar-49 Reinforced Thermosetting Composites and their Economic Implications** ***
K.K. Herbert Yeung and K.P. Rao

- O-MFC-017** Evaluation of PP/EPDM/ZnO Nanocomposites as Thermoplastic Elastomeric Insulators ***
I.N. Hidayah, M. Mariatti, H. Ismail and M. Kamarol
- P-MFC-071** Conductivity and Structural Studies of pol(glycidyl methacrylate(GMA) –Methyl methacrylate -Lithium triflate (LiCF₃SO₃) solid Polymer Electrolyte Films ***
M. Imperiyka, A. Ahmad and S.A. Hanifah
- O-MFC-102** Transparent and flexible GnP/PVDF/GnP Composites Film speaker ***
G.Y. Gu, Z.J. Wang, D.J. Kwon and J.M. Park
- O-MFC-105** Micro- to Macroscopic Mechanical Behavior of Nafion Membranes ***
I. Riku, K. Murata and K. Mimura
- P-MFC-109** Electrochemical Studies on Cellulose Acetate-LiBOB Polymer Gel Electrolytes ***
S.Z.Z. Abidin, O.H. Hassan, A.M.M. Ali and M.Z.A. Yahya
- O-MFC-123** Composite Polymer Electrolytes Based on MG49 and Cellulose from Kenaf as Reinforcing Filler ***
S. Jafirin, I. Ahmad, A. Ahmad and S.Y. Zainuddin
- P-MFC-129** Effect of Microscopic Phases on Mechanical Behavior of Nafion Membranes ***
K. Murata, I. Riku and K. Mimura
- O-MFC-136** CNT Based and Graphene Based Polymer Nanocomposites for Radar Absorbing Applications ***
C.K. Das, C.H.V. Sudhakar, M.K. Kundu, A.K. Saxena and V. Nigam
- P-MFC-183** Effects of Dimethyl Carbonate Plasticizer and Aluminum Oxide as Filler on Ionic Conductivity of Methyl Cellulose-based Polymer Electrolytes ***
M.F. Mustafa, N.I.M. Ridwan, F.F. Hatta, T.I.T. Kudin, F. Latif and M.Z.A. Yahya
- P-MFC-206** Evaluation of Dielectric Material Properties for Composite-Antenna-Structures ***
D.S. Kim, J.Y. Kim and W.B. Hwang
- O-MFC-228** Mechanical and Electrical Characteristics of Dual-band Composite-Antenna-Structures after Impact ***
J.Y. Kim, D.S. Kim, D.S. Shin, W.S. Park and W.B. Hwang
- O-MFC-233** Development of Catalytic Paper by using Conductive Paper with Titanium Dioxide Particles ***
K. Shiono, H. Ino and T. Kimura
- O-MFC-304** AC and DC Percolative Conductivity and Dielectric Properties of Poly Ether Ether Ketone Nanocomposites ***
M. Mohiuddin and S.V. Hoa
- P-MFC-328** Preparation and Characterization of Highly Thermally conductive Polymeric Composites ***
H.S. Lee, J.W. Kwak, K.H. Song and D.S. Han
- O-MFC-338** Synthesis and Characterisation of Electrically Conductive Cellulose Nanowhisker Composites ***
D.Y. Liu and D. Bhattacharyya
- O-NAN-005** Effects of Processing on the Properties of Thermoplastic-based Nanocomposites ***
L. Lin and A.K. Schlarb

- O-NAN-007** Investigating Vibration Damping Response of Nanocomposites and Fiber Composites ***
C.Y. Huang and J.L. Tsai
- O-NAN-019** Statistical Design of Experiments for Electrospun Poly(lactic acid) (PLA)/Halloysite Nanotube (HNT) Composites in Response to Fibre Diameter and Thermal Properties ***
Y. Dong, T. Bickford and H.J. Haroosh
- O-NAN-026** Investigation of Epoxy Matrix Resistance Against the Low Earth Orbit Environment by Adding MWCNT and Nano-Silica ***
G. Son, Y. Park and C.G. Kim
- O-NAN-028** Effect of Surface Treatment on the Mechanical Properties of Cellulose Nanocrystal Polyester Composite ***
H. Kargarzadeh, I. Ahmad, R.M. Sheltami, I. Abdullah and A. Dufresne
- O-NAN-053** Mechanical Properties of Hierarchically Structured Graphene Oxide Based Polymer Nanocomposites ***
Y. Gao, L.-Q. Liu and Z. Zhang
- O-NAN-090** Fabrication and Properties of Graphene Filled Epoxy Composite Thin Film For Electronic Application ***
Z.A. Ghaleb, M. Mariatti and Z.M. Ariff
- O-NAN-113** The Effect of Oil Palm Ash Loading on Curing Characteristics and Tensile Properties of Natural Rubber Vulcanizates ***
Z.X. Ooi, H. Ismail and A.A. Bakar
- O-NAN-161** Studies on Structure and Properties of Graphene Oxide/Poly(vinyl alcohol) Hybrid Materials ***
W.H. Ruan, Y.F. Huang, M.Q. Zhang, M.Z. Rong
- P-NAN-189** Preparation and Photocatalytic Antibacterial Property of Nitrogen Doped TiO₂ Nanoparticles ***
P. He, J. Tao, Y. Yi, J. Deng and J. Xue
- O-NAN-200** Mechanical Properties of Biobased Nanocomposites from Unsaturated Polyester Resin / Epoxidized Palm Oil Blends and Nanoclay ***
S.N.H. Mustapha, A.R. Rahmat and A. Arsad
- O-NAN-223** Study on Morphology, Thermal Stability and Mechanical Properties of PS/NR Thermoplastic Vulcanizate Containing Organic Modified Montmorillonite ***
C. Thongpin
- O-NAN-239** Influence of Nanoclay Agglomerates on Tensile and Fatigue Properties of Nanoclay/Epoxy Matrix Composites ***
Y. Matsuda, K. Tokuno, A. Nordin, K. Goda and J. Noda
- O-NAN-265** Effects of Cellulose Nanocrystals on Thermal Properties of Poly(vinyl chloride) ***
R.M. Sheltami, I. Ahmad, H. Kargarzadeh and I. Abdullah
- P-NAN-306** Tensile Deformation Behavior of Carbon Nanotube Reinforced Electrospun Fibers ***
A. Baji, Y.-W. Mai and M. Abtahi
- P-NAN-313** Improvement of Mechanical Properties of Polymer Based CNT Composites -Effect of CNT's Quality- ***
T. Yasuhara, Y. Honda, K. Ota and N. Ohtake

- O-NAN-322** **Self-assembly of Graphene onto Electrospun Polyamide 66 Nanofibers as Transparent Conductive Thin Films** ***
C.-C. M. Ma, Y.-L. Huang, H.-W. Tien and S.-Y. Yang
- O-NAN-370** **Wheat Gluten-Based Natural Polymer Nanocomposites** ***
X. Zhang
- O-NAT-025** **Tensile properties of chopped bagasse fibers reinforced epoxy composites** ***
M. Trada, J. Mandava, H. Ku and B. Yousif
- O-NAT-035** **Cellulose nanofiber aerogel production and applications** ***
A.N. Nakagaito, H. Kondo, H. Takagi and J.K. Pandey
- O-NAT-038** **Oil Palm Trunk Biocomposites: Mechanical and Morphological Properties** ***
C.K. Abdullah, M. Jawaid, H.P.S. Abdul Khalil, M.R. Nurul Fazita and A.F. Ireana Yusra
- O-NAT-046** **Anti-algal Performance and Strength of Wood Poly(vinyl chloride) Composites with Different Wood Types** ***
A. Kositchaiyong and N. Sombatsompop
- O-NAT-069** **The Effects of Oil Palm Fruit Bunch Fibre Treatment on the Performance of Hybrid Polypropylene Nanocomposites** ***
A. Kalam, M.N. Berhan, H. Ismail and N.W.A. Razak
- O-NAT-104** **Cellulose Nanofiber from Waste Paper and its Application to Green Composites** ***
H. Takagi, M.S.A. Bistamam, A.N. Nakagaito and J.K. Pandey
- P-NAT-112** **Effect of Yarn Structure on Tensile Properties of Ramie Twisted Yarn-reinforced Green Composites** ***
S. Sakurada, K. Yoshida, R. Nakamura, K. Goda and J. Noda
- O-NAT-124** **The Tensile and Thermal Properties of Microcrystalline Kenaf Fibres Filled HDPE/EPDM Composites** ***
M.S. Anis, A. Abu Bakar and H. Ismail
- O-NAT-134** **Composites of Cellulose-based Adhesive and Toluenesulfonic acid-Doped Polypyrrole Prepared via Colloidal Dispersion** ***
S.F.S. Draman, R. Daik, S.M. El-Sheikh and F.A. Latif
- O-NAT-135** **Feather Fibers as Natural Reinforcement in Composites: A Review** ***
M.Y. Yahya, W.A. Wan Abdul Rahman and N. Aris
- O-NAT-141** **Evaluation of Medium Density Fiberboards Using Kenaf Bast Fibers and Conventional Synthetic Resins** ***
I. Ali, K. Jayaraman and D. Bhattacharyya
- P-NAT-144** **Tensile Properties and Morphology of Impact Modified Polylactic Acid/Kenaf Fiber Composites** ***
R. Mat Taib, H.M. Hasan and Z.A. Mohd Ishak
- O-NAT-159** **Study on Mechanical Properties and Crystallization Behavior of Poly(ethylene terephthalate) Reinforced Date Palm Leaf Fiber Montmorillonite Nanocomposites** ***
A. Dehghani, S.M. Ardekani, M.U. Wahit, A. Hassan and M.A. Al-Maadeed
- O-NAT-168** **Fabrication Process Optimization of Hemp Fibre Reinforced Polypropylene Composites** ***
Z.L. Yan, H. Wang, K.T. Lau, J.C. Zhang, H. Zhang and Y. Ding
- O-NAT-176** **Acoustic Properties of Natural Fiber Reinforced Sandwich Structures** ***
W.D. Yang, Z.Y. Zheng and Y. Li

- P-NAT-204** **Preparation and Characterization of Kapok/PP Composite Nonwovens in the Aspect of Their Uses** ***
Y.O. Choi, J.Y. Kim and S.W Byun
- O-NAT-207** **The effect of natural fiber treatment on the Flame Retardancy, Mechanical and Morphology Properties of Natural Fibers filled Polypropylene Composites containing Ammonium Polyphosphate** ***
A. Ismail, A. Hassan and A. Abu Bakar
- O-NAT-225** **Bending Property of Jute/glass Hybrid Laminated Composites** ***
R. Nishida, M. Liao, M. Matuura, Y. Yang and H. Hamada
- O-NAT-238** **Manufacturing and Characterization of Coconut Fiber Reinforced Polypropylene Composite** ***
N. Nafsin and M. Hasan
- O-NAT-252** **Evaluation of Mechanical Properties on Rice Husk and Expanded Rice Husk Filled Polyethylene Composites** ***
A. Bilal, R.J.T. Lin, K. Jayaraman and C. Zhang
- O-NAT-275** **Characteristics of Nanofiber Extracted from Kenaf Bast** ***
S. Karimi, A.N. Karimi and P.M. Tahir
- O-NAT-288** **The Effect of Fiber Yarns Structure on the Mechanical Properties of Natural Fiber Reinforced Composites** ***
H. Ma and Y. Li
- O-NAT-308** **Borassus Fruit Fiber Reinforced PP Composites: Effect of Fiber Content and Compatibilizer on Thermal and Mechanical Properties** ***
P. Sudhakara, J.-H. Bae, D.-W. Lee, A.P. Kamala Devi, C.V. Prasad, D. Jagadeesh, Z.P. Hui, G. Balakrishnan, B.S. Kim and J.I. Song
- O-NAT-319** **The Effect of Physical And Mechanical Properties on Hybrid Empty Fruit Bunches Fibres/Bamboo Strips Reinforced Polyester Composites** ***
W.O. Wan Nadirah, H.P.S. Abdul Khalil, M. Jawaid and A.M. NurulHuda
- O-NAT-323** **Mechanical Properties of A Bamboo Charcoal Reinforced Polylactic Acid Composite** ***
M.P. Ho, H. Wang, K.T. Lau, K. Jayaraman and D. Bhattacharyya
- O-NAT-324** **Cellulose Isolated From Oil Palm Fibres For Green Nanobiocomposite Applications** ***
A.F. Ireana Yusra, H.P.S. Abdul Khalil, A.A Astimar and M. Siti Alwani
- O-NAT-330** **Mechanical and Thermal Properties of Woven Jute Fabric Reinforced Poly(butylene succinate) Laminated Biocomposites** ***
H.N. Tran, S. Ogihara, H. Nakatani, S. Kobayashi and K. Goto
- O-NAT-365** **Secondary Processing of Natural Fiber Reinforced Thermoplastic Composite Laminates** ***
P.K. Bajpai, I. Singh and J. Madaan
- O-NUM-064** **A Cohesive Element for Analysis of Delamination Growth under Arbitrary Mixed-mode Failure Condition** ***
A. Kondo, H. Suemasu and N. Watanabe
- O-NUM-066** **3-D Modelling of GFRP Woven Fabric Double-Lap Bolted Joint** ***
H. Ahmad, P.A. Smith and A.D. Crocombe

- O-NUM-095 Numerical Modeling of [0°/90°] CFRP Laminated Plates under Low Velocity Crushing** ***
H.A. Israr, S. Rivallant and J.J. Barrau
- O-NUM-103 Investigation of Thermal Reaction Kinetic of Tire Tube Resin** ***
I.M. Alwaan and A. Hassan
- O-NUM-188 Homogenized Thermo-Mechanical Properties of 3-D Orthogonal Interlocked Composite with Relieved Periodic Boundary Conditions** ***
M.R.E. Nasution and N. Watanabe
- O-NUM-217 Estimation of Mechanical Characteristics for Unidirectional FRP based on Oblique Unit Model considering Random Arrangement of Filaments** ***
H. Yamatsuka, Y. Fujita, T. Kurashiki and M. Zako
- P-NUM-246 Finite Element Simulation of Tensile Properties of Carbon Fiber Reinforced Nanocomposite by Unit Cell Method** ***
Y.Q. Wang, C.J. Jin, J.H. Bae, J.H. Byun, B.S. Kim and J.I. Song
- O-NUM-261 Failure Criteria Analysis for Meso-Scale Finite Element Modeling of Nomex Honeycomb Sandwich Panels** ***
R. Roy, J.H. Kweon and J.H. Choi
- O-NUM-268 Failure Criterion of Transverse Compression in Fiber Composites** ***
T. Nadabe and N. Takeda
- O-NUM-272 Structural Analysis of Large Size Wind Turbine Blade** ***
J.H. Jung, Y.M. Ji and K.S. Han
- O-ONR-087 Effect of Water Absorption on Time-Temperature Dependent Strength of Unidirectional CFRP** ***
M. Nakada, S. Hara and Y. Miyano
- O-ONR-088 Applicability of Time-Temperature Superposition Principle to the Mode I Interlaminar Fracture Behavior of CFRP Laminates** ***
Y. Miyano, M. Nakada and T. Moromizato
- O-ONR-341 Ply Bunching and Delamination Effects on the Open-Hole Tensile Strength of Laminated Composites** ***
M. Ridha and T.E. Tay
- O-ONR-379 Strength of Sandwich Composites Subjected to Water Impact** ***
M.A. Battley, A.M. Clark, T.D. Allen and C.J. Cameron
- O-PRO-021 Effect of multifunctional acrylates (MFA) on the Electron Beam irradiated Ethylene Vinyl Acetate/Waste Tire Dust** ***
C.T. Ratnam, S. Nazira, A.S.Z. Abidin and T.G. Chuah
- O-PRO-089 Piercing process by punch press in CFRP laminates** ***
K. Ogi
- O-PRO-146 Compression molding of chemical/thermal resistant composite materials using wastes of glass fiber reinforced PTFE and carbon fiber** ***
A. Yorifuji, T. Kimura, H. Toyoda and K. Shibata
- O-PRO-157 Development and Evaluation of Mechanical Properties for Phenolic Composites** ***
Y. Mori, G. BEN, A. Hirabayashi, and K. Sakata

- O-PRO-181** **Characterization and Properties of Bentonite Filled EPDM Compounds: Effect of 3-aminopropyltriethoxysilane Content** ***
M. Mathialagan and H. Ismail
- P-PRO-241** **Preparation and Characterization of Green Composite using Poly Lactic Acid Modified Lignin** ***
S.-H. Kim, H.-Y. Jeong, J.-M. Lee, N.-R. Ahn and J.-S. Park
- O-PRO-263** **Mouldless Construction of GRP Composite Wind Blade using Resin Infusion Process: Flow Monitoring and Void Characterization** ***
M.R. Abdul Latif, M.A. Mohd Azlan, M.Z. Abdullah, K.A. Zainal Abidin and A.A. Wahab
- O-PRO-320** **Development of Pultrusion System for Fiber Hybrid Braided Composites** ***
T. Motochika and A. Nakai
- O-PRO-321** **Optimization of Electrospinning Process Parameters for Enhancement of Mechanical and Physical Properties of PMMA Fiber using Response Surface Method** ***
S.A. Karim, A.B. Sulong M.A. Amri, R. Idrus and C.H. Azhari
- O-PRO-373** **Study of Mechanical Life Expired for Time and Temperature Sensitive (TATS) Materials in Composite Materials Manufacturing** ***
M.I. Hussain, Z.M. Zain and M.A. Efendi
- O-REP-057** **Heat Transfer Analysis and Cure Modelling of Composite Repairs for Pipelines** ***
X.L. Liu, A.Y.L. Leong, K.H. Leong and P.J. Falzon
- O-REP-121** **Parametric Finite Element Study of Grouted Composite Sleeves for Pipeline Repairs** ***
W.S. Sum and K.H. Leong
- O-REP-131** **Study on Patch Bonding for Recovery of Damaged CFRTP under Bending Load** ***
R. Yamagishi, K. Obunai, T. Fukuta and K. Ozaki
- O-REP-257** **Fracture mechanics of crack propagation in composite repairs of steel pressure piping** ***
J.M. Linden, M. Köpple, D. Elder and A.G. Gibson
- O-REP-351** **The Study of Composite Wet Wrap Application with the Integrated Structural Health Monitoring approach** ***
M.A Murad, S.R Frost and F.P Brennan
- O-REP-352** **Qualification of a Composite System for Oil and Gas Pipeline Repairs, Part 1: Mechanical Properties** ***
L.P. Djukic, P.J. Falzon, K.H. Leong and A.Y.L. Leong
- O-REP-353** **Qualification of a Composite System for Oil and Gas Pipeline Repairs, Part 2: Corrosion Protection Properties** ***
L.P. Djukic, P.J. Falzon, A.Y.L. Leong and K.H. Leong
- O-REP-354** **Development and Assessment of a Carbon Fibre Reinforced Composite Repair System** ***
P.J. Falzon, K.H. Leong, L. McGarva, A.Y.L. Leong, A. Manalo, A. Virk, D. Leipnik and L. Djukic
- O-REP-378** **Bonded Patch Repair for Metallic Structure – a New Recommended Practice** ***
A.T. Echtermeyer, D. McGeorge and J. Weitzenböck
- O-RUB-034** **Effects of Maleated Rubber on the Mechanical, Thermal and Morphological Properties of Poly(lactic acid) Nanocomposites** ***
W.S. Chow, Y.Y. Leu, Z.A. Mohd Ishak

- O-RUB-065** Effect of Sago Starch as Filler on Properties of NR and DPNR Latex Composite Films ***
Y.S. Rohana, A.R. Azura and B. Azahari
- O-RUB-072** Improved Tear Strength of Banana Stem Powder Filled Natural Rubber Latex (NRL) Composite films ***
A.S. Siti Nuraya, A. Baharin and A.R. Azura
- O-RUB-077** Improved Mechanical Properties of Thermoplastic Natural Rubber (TPNR) composite using a hybrid SiC-CNTs nano-filler ***
M.A. Tarawneh and S. Hj Ahmad
- O-RUB-143** Effect of Maerogel Fillers on Cured Characteristics and Mechanical Properties of Maerogel Filled Natural Rubber Composites ***
M. Lay, A.R. Azura, O. Nadras, Y. Tezuka and C. Pen
- O-RUB-150** Tensile Properties and Morphology of Irradiated Ethylene Vinyl Acetate/ Epoxidized Natural Rubber/ Halloysite Nanotube Nanocomposites ***
A.K. Rudin, Z. Mohamad, C.T. Ratnam and A.B. Bakar
- P-RUB-244** Gradient Effects on the Mechanical and Dynamic Properties of Silica Reinforced Rubber Composite ***
D.-J. Lee and S.-R. Ryu
- O-RUB-301** Comparison of Mechanical Properties of Polypropylene/Acrylonitrile Butadiene Rubber/Rice Husk Powder Composites modified with Silane and Acetic Anhydride Compound ***
S. Ragunathan, H. Ismail and K. Hussin
- O-RUB-349** Spectroscopic Study of Film Formation From PS Latex/ Al_2O_3 Nanocomposites Prepared by Dip-Drawing Method ***
Ş. Uğur and Y. Kışlak
- O-SEL-006** A Self-healing Polymer Network based on Reversible Covalent Bonding ***
G. Scheltjens, M.M. Diaz, J. Brancart, G. Van Assche and B. Van Mele
- O-SEL-020** Self-healing thermal conductive composites ***
U. Lafont, C. Moreno-Belle, H. van Zeijl and S. van der Zwaag
- O-SEL-037** Etching of Hollow Glass Beads Loaded with Amines for Self-healing Composites ***
J.L. Yang and H. Zhang
- O-SEL-060** Healing Mechanisms in Thermoplastic Modified Epoxy/Amine Networks ***
R. Varley, D. Craze, A. Mouritz and C. Wang
- O-SEL-070** Photo-stimulated self-healing of polyurethane film containing coumarin derivatives ***
M.Z. Rong, M.Q. Zhang and J. Lin
- O-SEL-212** Fundamentals of Self-healing Epoxy Resin Matrices for Composites ***
M.S. Md Jamil and F.R. Jones
- O-SEL-230** Self-Healing of Reversible Polymer Network Systems on a Microscopic Scale ***
J. Brancart, G. Scheltjens, M.M. Díaz Acevedo, B. Van Mele and G. Van Assche
- O-SEL-262** Strength and Actuation of Carbon Nanofiber/Polypyrrole Conducting Composite Films ***
C. Kim and S. Zhang
- O-SEL-309** Stimuli Triggered Deployment of Bio-Inspired Self-Healing Functionality ***
R. Trask, I.P. Bond and C. Norris

- O-SEL-327** **Development of Self-healing Resin for the Rehabilitation of Underwater Structures** ***
W. Tian, C. Wood, S. Gao, S. Howard and K. Kozielski
- O-SEL-339** **Structural Properties of Self-Healing Microvascular Fibre Composites** ***
A.P. Mouritz, A. Kousourakis, A.T.T. Nguyen, C.H. Wang and A.C. Orifici
- P-SEL-369** **Low Molecular Weight Thermoplastic Modifiers as Effective Healing agents in Mendable Epoxy Networks** ***
B. Dao, R.J. Varley, C. Pillsbury, S.J. Kalista and F. R. Jones
- O-SEL-371** **Healing of Mendable Polymer Composite by Ultrasonic Vibration** ***
C. H. Wang, K. Hargou, K. Pingkarawat, A.P. Mouritz and R. Varley
- O-SHM-040** **Damage Assessment in Composite Laminates using Tomography Based on Sensing Network** ***
L. Ye, D. Zhang, S. Mustapha and D. Wang
- O-SHM-059** **Debond Arrest and Smart Detection of CFRP Facesheet/Foam Core Sandwich Structures** ***
N. Takeda, S. Minakuchi and Y. Hirose
- O-SHM-145** **Evaluation of Gradient Degradation of GFRP Laminates with Distribution of Ultrasonic Reflection Coefficient** ***
A. Wada, Y. Fujii and S. Satoh
- P-SHM-147** **Nondestructive Evaluation of Laminated Composite Plates with Acousto-Ultrasonic Parameters** ***
M. Okubo, Y. Takechi, A. Wada, E. Kitagawa and Y. Sasaki
- O-SHM-153** **An Investigation of Effective Detection Length of a Localized Micro-failure in a Laminated Thin Composite Plate Using FBG Sensor Integrated AE System** ***
Z.M. Hafizi, J. Epaarachchi and K.T. Lau
- O-SHM-175** **The effect of waveguide on AE Characteristics from Tooth Restored with Composite Resin** ***
J.U. Gu and N.S. Choi
- O-SHM-187** **Wave Propagation and Health Monitoring in Composite Plate** ***
Q.-Q. Ni, C. Du, H. Xia and T. Natsuki
- O-SHM-270** **Crack Detection of Composite Shell under Lateral Loading using FBG Sensor** ***
M.-H. Kang, J.-H. Choi and J.-H. Kweon
- O-SHM-277** **Optimized FBG Sensor Network for Efficient Detection of a Delamination in FRP Structures** ***
G.C. Kahandawa, J.A. Epaarachchi, H. Wang and K.T. Lau
- O-SHM-287** **Piezoresistive Behavior of Ultralight Graphene foams and its composites** ***
L.-Q. Liu, J. Kuang, Y. Gao and Z. Zhang
- O-SMA-093** **Multidisciplinary Design Optimization of Smart Composite Shell for Vibration Suppression** ***
K. Kosaka, S. Honda and Y. Narita
- O-SMA-106** **Fabrication and Evaluation of Shape Memory Polymer Based Composite Actuator** ***
G.J.H. Melvin, T. Natsuki and Q.-Q. Ni
- O-SMA-199** **Development of Smart Wind Turbine Blades** ***
E.E. Supeni, J.A. Epaarachchi, M.M. Islam and K.T. Lau

- O-SMA-300** **Highly Stretchable Electrodes based on Double Network Structure for Dielectric Elastomers Actuators and Generators** ***
C. Nah, G.-B. Lee, R. H. Lee, Y. H. Yoo and A.N. Gent
- P-SMA-367** **Deformation Behavior of Shape-Memory Alloy Wire / Carbon Fiber Reinforced Thermoplastic Composites** ***
Y. Tabuchi, T. Morisugi, D. Tanabe and K. Nishiyabu
- O-SMA-372** **Crosslinking of Palm Oil Polyol based Shape Memory Polyurethane** ***
E.S. Ali, A.Z. Syazana and S.H. Ahmad
- O-TEM-185** **Experimental Modal Analysis of Passive Constrained Layer Damping Plate Using CFRP Material** ***
K. Tomihashi, S. Honda, Y. Narita and M. Ewing
- O-TEM-236** **Measuring the Fracture Toughness of Polymer Nanocomposites from Cutting Tests** ***
H.J. Wang, L. Chang and L. Ye
- O-TEM-375** **Mechanism of Micro-void Formation Inside Fiber Tow in Model Composite using Microfluidic Device** ***
M. Hojo, Y. Mitsuyama, Y. Inoue and M. Nishikawa
- O-THE-014** **Properties of Calcium Carbonate/Talc and Calcium Carbonate/Mica Filled Polypropylene Composites** ***
S.R. Vincent, M. Mariatti, P. Samayamutthiririan
- O-THE-036** **Mechanical Properties of Graphite / Maleic Anhydride Grafted Polypropylene Nanocomposites** ***
J.U. Roh, S.W. Ma, W.I. Lee, H.T. Hahn and D.W. Lee
- O-THE-125** **The Synthesis and Characterization of Linear Low Density Polyethylene – GTC4 Synthetic Clay Nanocomposites** ***
A.L. Juwono, M.R. Amiaty and S. Roseno
- O-THE-156** **Properties of Chitosan Filled Polypropylene (PP) Composites by Introducing Binary Modifying Agent** ***
F. Amri, H. Salmah and K. Hussin
- O-THE-163** **Mechanical Properties and Morphological Characterization of Graphene Filled Polyethylene terephthalate/Polypropylene Nanocomposites (70:30)** ***
I.M. Inuwa, A. Hassan and S.A. Samsudin
- O-THE-193** **Effects of Incorporating Kenaf Core Fibers into Low Density Polyethylene (LDPE)/Thermoplastic Sago Starch (TPSS) Blends** ***
N. Sarifuddin, H. Ismail and Z. Ahmad
- O-THE-196** **Mechanical Properties and Manufacturing of Bamboo-Glass Hybrid Thermoplastic Composites** ***
N.Z. Mahmud Zuhudi, X.W. Yuan and K. Jayaraman
- O-THE-213** **Improvement of Thermal Conductivity of Polymer-based Composites using Phase Separation Structure of Polymer Blends** ***
H. Ito, K.Tei, T. Takayama, Y. Takahashi, H. Sano and Y. Fujita
- O-THE-264** **Fusion Behavior of Continuous Fiber Reinforced Thermoplastic Composites in Electro-fusion Welding** ***
D. Tanabe, S. Tsutaya, k. Nishiyabu and T. Kurashiki

- O-THE-297** **Effects of Compatibilizers on Mechanical Properties of PET/PP Blend** ***
N.C. Abdul Razak, I.M. Inuwa, A. Hassan and S.A. Samsudin
- O-TUB-003** **Frp Piping Response to Dynamic Load Conditions** ***
N.E. Bos and H.J. Bos
- O-TUB-032** **A Finite Element Study of the Influence of Coupled Loadings on Offshore Pipe Riser Repaired with Fibre Reinforced Composite** ***
P.H. Chan, K.Y. Tshai, M. Johnson, H.L. Choo and S. Li
- P-TUB-033** **A Numerical Investigation of Chopped Strand Mat Underground Storage Tank Subjected to External Loadings** ***
S.C. Jong, K.Y. Tshai and C.P. Pagwiwoko
- O-TUB-171** **Damage haracterization of glass fibre reinforced epoxy (GRE) pipes under biaxial ultimate elastic wall stress (UEWS) tests using acoustic emissions** ***
M.S. Abdul Majid, A.G. Gibson, T.A. Assaleh, C.A.P. Rookus, M. Hekman, M. Afendi, Haftirman and A. Syayuthi A.R.
- O-TUB-220** **Bending Behaviour of Reinforced Thermoplastic Pipes for Offshore Oil and Gas Applications** ***
M.A. Ashraf, E.V. Morozov and K. Shankar
- O-TUB-317** **Simulation Study of an Anti-Aging Material for FRP Storage of Nonvolatile Corrosive Solution** ***
M. Kubouchi, Y. Nitanaï, S. Aoki and T. Sakai
- O-TXT-140** **Preparation and Properties of Hollow PET/PP Nonwoven Composite Materials Used for Car Interior** ***
H.G. Li, J. Tao and Z.G. Bao
- O-TXT-165** **Study on Mechanical Properties of a CFRP woven laminates with Spread Tow** ***
Y. Watanabe, T. Kurashiki and M. Zako
- O-TXT-235** **Prediction of Out-of-plane Coefficient of Thermal Expansion of Carbon/Epoxy Plain Weave Composites by Considering Thermal Residual Stresses** ***
Y. Oishi, N. Watanabe and H. Hoshi
- O-TXT-285** **Development of Pultrusion System for Jute Spun Yarn/PLA Tubular Composite with Braiding Technique** ***
A. Memon and A. Nakai
- O-TXT-312** **Predicting Braid Pattern on Complex-shaped Mandrel with both Concave and Convex Segments** ***
W.-J. Na, H.C. Ahn, S.-Y. Jeon, C.-H. Ahn, J.S. Lee, H.-M. Kang and W.-R. Yu
- O-TXT-326** **Design for Dimension and Internal Structure of Braided Composites** ***
R. Morinaga, A. Ohtani and A. Nakai
- O-TXT-329** **Static and Dynamic Mechanical Properties of Woven Composites with Flexible Interphase** ***
A. Ohtani, T. Fukuda and A. Nakai
- O-TXT-334** **Effect of Stitch Yarn on Flexural Properties of Biaxial Weft Knitted Thermoplastic Composites** ***
O. Demircan, S. Ashibe, T. Kosui and A. Nakai

Additional Paper:

- O-RUB-215** **Thermal Decomposition and Kinetic Study of Epoxidized Natural Rubber** ***
I. Alwaan, A. Hassan