Sunday 22 January 2017

16:00-18:30	Registration Open, Level 1 Foyer, Owen G. Glenn Building, The University of Auckland, 12 Grafton Road, Auckland
1630-1830	**Conference Welcome Reception** *Canapes & refreshments provided* **Level 1 Foyer, Owen G. Glenn Building, The University of Auckland, 12 Grafton Road, Auckland**

Monday 23 January 2017

08:00-09:00	Registration Open, Level 0, 071 Foyer, Owen G. Glenn Building, The University of Auckland Tea & Coffee on arrival		
09:00-10:30	**Plenary Session** **Room: OGGB3 Chair: Dist Prof Debes Bhattacharyya**		
09:00-09:10	Conference Opening Address		
09:10-09:50	**#31. Advanced Green Composites** *Professor Anil Netravali, Department of Fiber Science & Apparel Design, Cornell University, NY, USA*		
09:50-10:30	**#46. Nanoparticle Reinforced Polymer-based Composites for Space Environments** *Professor Alan Kin Tak Lau, Pro-Vice-Chancellor (Research Performance and Development), Faculty of Science, Engineering and Technology, Swinburne University of Technology, Australia*		
10:30-11:00	**Morning Tea, Level 0, 071 Foyer**		
11:00-12:30	**Session 1**		
	Manufacturing Technologies Room: Case Room 2 Chair: Dr Miro Duhovic	**Biomaterials** Room: Case Room 3 Chair: Dr Arcot Somashekar	**Nano Materials** Room: Seminar Room 260-040C Chair: Prof T S Srivatsan
11:00-11:30	**Keynote Talk: #15. Development of an infrared heating method for the processing of natural fiber reinforced polypropylene** *Peter Mitschang & Jovana Džalto,* *Institute Für Verbundwerkstoffe Gmbh*	**Keynote Talk #92. Improvement of hemocompatibility of silicone elastomer using polyethylene-glycol based additive for application as catheter** *Cécile Boudot, Technical University of Munich, Germany* *Christoph A. Briehn, Wacker Chemical Corporation, Ann Arbor, Michigan, USA*	**Keynote Talk #137. Nanomanufacturing of Simultaneously Strong and Tough Continuous Nanofibers.** *Yuris Dzenis, University of Nebraska-Lincoln*
11:30-11:50	**#14. Experimental investigations on electro chemical discharge machining for micro-fabrication of micro-channels on glass.** *Pankaj Gupta, Government Engineering College Bikaner (raj.)-India.* *Pradeep Kumar, Indian Institute of Technology, Roorkee.* *Uttarakhand, India*	**#28. "Electrospinning window": solution properties for uniform fibres from electrospinnable biopolymers.** *Deborah Le Corre-Bordes, Kathleen Hofman, Nicolas Bordes, Plant & Food Research, NZ. Nick Tucker, University of Lincoln, UK. Tim Huber, Mark P. Staiger, University of Canterbury, NZ*	**#12. Investigation of Ag-nanoparticles sizes in Ag-Cu nanopaste as die-attach material for high temperature application.** *Kuan Yew Cheong, NorasiahMohammad Noordin, University Sains Malaysia*
11:50-12:10	**#17. Plastic mechanics of wire rod drawing with rotating die considering Coulomb friction.** *Gow-Yi Tzou Chung-Chou University of Science and Technology*	**#30. An in-vitro study of a porous hydroxyapatite scaffold derived from New Zealand sourced bovine cancellous bone.** *Jithendra Ratnayake, Maree Gould, Niranjan Ramesh, George Dias, Amin Shavandi, University Of Otago, NZ*	**#62. ZnO nanostructured flexible photoanode for dye sensitized solar cell**. *Sivakumar Kandasamy Department Of Physics, Anna University*
12:10-12:30	**#20. A study of Kerf Ratio in Water Jet Trimming of Hybrid FRP Composites.** *Irina Wong, Azwan I Azmi, Lee Chang Chuan, Ahmad Fairuz Mansor, University Malaysia Perlis*	**#5. Design and Biological Evaluation of Biodegradable Zinc Alloys with Nutrient Elements Mg, Ca and Sr.** *Yufeng Zheng*	**#133. Potentiality of using Graphene Oxide as Nano-filler to Strengthen the Properties of CFRPs.** *Ada Pui-yan Hung, Kin-tak Lau, Bronwyn Fox, Nishar Hameed, Swinburne University of Technology, Australia*
12:30-13:30	**Lunch, Level 0, 071 Foyer**		
13:30-15:00	**Session 2**		
	Manufacturing Technologies Room: Case Room 2 Chair: Anders Jarfors	**Materials Simulations** Room: Case Room 3 Chair: Prof Gow-Yi Tzou	**Polymers and Polymer-Matrix Composites:** ***CFRP*** Room: Seminar Room 260-040C Chair: Dr Deborah Le Corre-Cordes
13:30-14:00	**Keynote Talk #35. Additive Manufacturing of Alternative Catalyst Support Geometries: A Fractal Approach.** *Michelle Kramer, Matthew Watson, Conan Fee,* *University Of Canterbury, New Zealand*	**Keynote Talk #13. Modelling of thermal conductivity of carbon fibre composites with inhomogeneous heat flux in out-of-plane direction.** *Martin Schütz, Jens Schuster University of Applied Sciences Kaiserslautern*	**Keynote Talk #49. Is hole making in fibre reinforced polymers (FRPs) a challenging task?** *Inderdeep Singh, U jendra Kumar Komal, Indian Institute of Technology Roorke. Pawan Kumar Rakesh, National Institute of Technology Uttarakhand Srinagar (Garhwal. Kishore Debnath, National Institute of Technology Meghalaya, India.*
14:00-14:20	**#25. Effects of processing conditions on structure-property relationship of 3D printed PLA with fused deposition modeling.** *Qinghao He, Lin Ye, The University of Sydney, Australia*	**#60. Molecular dynamics simulations on the effects of moisture on the interfacial properties of glass fibre-epoxy composites.** *Mark T Stoffels, Mark P. Staiger, and Catherine M. Bishop University of Canterbury, NZ*	**#50. LEFM based modelling of critical thrust force during drilling in PMCs.** *Anurag Thakur, Amrinder Pal Singh, Uiet, Panjab University Chandigar. Inderdeep Singh, MIED, Indian Institute of Technology Roorkee, India*
14:20-14:40	**#42. Effects of Variability in Carbon Fibre Preforms on Resin Transfer Moulding Filling Behaviour** *Sam van Oosterom, S. Bickerton, J. Applegate, D. Young, University Of Auckland, New Zealand*	**#123. Microstructure and mechanical properties in various regions of simulated heat affected zone of a HY 85 steel.** *Sanjeev Kumar, S. K. Nath, Indian Institute Of Technology Roorkee, India*	**#51. Intrinsic hybridisation of CFRP by incorporation of endless metal fibres for damage tolerant and highly conductive lightweight structures.** *Benedikt Hannemann,Sebastian Schmeer, Ulf P. Breuer, Institute for Composite Materials, Kaiserslauter. Sebastian Backe, Frank Balle, Institute of Materials Science and Engineering, Kaiserslautern, Germany.*
14:40-15:00		**#53. Realization of tactile graphics by thermoforming: Simulation studies.** *Amit Kumar, P.V.M. Rao, Indian Institute Of Technology Delhi, New Delhi*	
15:00-15:30	**Afternoon Tea, Level 0, 071 Foyer**		
15:30-16:00	**Poster Session, Level 0, 071 Foyer**		
	#9. on-machine fabrication of the micro-electrodes and their surface integrity analysis using block- µ-EDM process. *Pankaj Kumar, SREC, Warangal, Telengana, India. Alok Das, ISM, Dhanbad, Bihar, India*		
	#37. Durability of BFRP mesh-reinforced sea sand mortar thin plate. *Jun Deng, Yan Xie, Guangdong University of Technology, Peoples Republic of China*		
	#38. Potential of carbon nanomaterials growth on metal monoliths as surface textural promoter for improved dispersion of active metallic catalyst. *Luqmanulhakim Baharudin, Matthew James Watson, , Alex Chi-Kin Yip, University of Canterbury. John Abrahamson, ArcActive Limited, NZ*		
	#43. Effect of Ionic Initiators on the Pickering Emulsion Polymerization of Styrene/SiO2 Nanoparticles. *Cheng-Chien Wang, Chia-Yi Cheng, Southern Taiwan University of Science and Technology, Tainan. Chuh-Yung Chen, National Cheng-Kung University, Tainan*		
	#87. Synthesis and Evaluation of Chromophore Functionalized Polyurethanes for 248 nm Nanosecond Laser Micromachining. *Hong Kang, The University of Auckland, NZ*		
	#94. Facile synthesis and excellent catalytic properties of NiFe/AC through a one-step pyrolysis of coal and metal salts. *Lang Liu, Xinjiang University, China*		
	#95. Fundamental studies of polymer structure and its gas separation performances via synthetic approaches. *Liang Chao, Jianyong Jin, The University of Auckland, NZ*		
	#96. Design and synthesis of biodegradable antimicrobial polymers. *Chloe Cho, The University of Auckland, NZ*		
	#99. Study of Oblique Vibration Cutting for Aluminum Using a 3-axis PZT Stage. *Yung-tien Liu, National Kaohsiung First University Of Science And Technology*		
	#101. Novel NiPd alloy nanoparticles/graphene nanosheets as stable electrocatalyst for formic acid and ethanol oxidation. *Nam Hoon Kim, Joong Hee Lee, Chonbuk National University, Republic of Korea*		
	#102. Ultrasmall AuAg alloy nanoparticles encapsulated within large surface area of graphene towards enhanced SERS effect and electrochemical sensing performance. *Joong Hee Lee, Chonbuk National University, Republic of Korea*		
16:00-17:30	**Session 3**		
	Manufacturing Technologies Room: Case Room 2 Chair: Prof Peter Mitschang	**Other (Inorganic Materials)** Room: Case Room 3 Chair: Dr Matthew Watson	**Polymers and Polymer-Matrix Composites:** ***Nanocomposites*** Room: Seminar Room 260-040C Chair: Prof Jens Schuster
16:00-16:30	**Keynote Talk #6. Simulating the Processing and Fabrication of Advanced Materials.** *Miro Duhovic, Dominic Schommer, Joachim Hausmann, Institut für Verbundwerkstoffe GmbH. Vitali Romanenko, BMW Group, Technology Development CFK. Tobias A. Weber, Airbus Helicopters Deutschland GmbH.*	**Keynote Talk #16. Thermal applications of phase change materials: a review.** *Chandra Shekhar Rajoria, Government Engineering College Bikaner, India*	**#44. Production of all-cellulose composites via aqueous solutions of tetrabutylphosphonium hydroxid**e. *Anton Baranov, Owen J. Curnow, Mark P. Staiger, University Of Canterbury, NZ. Benoit Duchemin, CNRS-Université du Havre, France.*
16:30-16:50	**#122. Ductile to Brittle Transition Behavior of Micro-alloyed Pipeline Steel.** *Satish Sharma, Sachin Maheshwari, Netaji Subhas, Institute Of Technology*	**#124. Isotopic Resonance – A New Frontier in Science and Technology?** *Roman Zubarev, Karolinska Institutet*	**#33. Fabrication and Properties of Polyimide(PI) Composites using Functionalized Graphene and Carbon Nanotubes(CNTs).** *Bon-Cheol Ku, Ki-Ho Nam, Nam-Ho You, Korea Institute Of Science And Technology(KIST). Haksoo Han, Yonsei University, Republic of Korea*
16:50-17:10	**#27. Study of mold level fluctuation with electromagnetic stirring in continuous casting mold.** *Pradeek Kumar Jha, Ambrish Maurya, Indian Institute of Technology Roorkee, India*	**#18. Investigation of plant leaf-derived graphene quantum dots via magnetic force microscopy.** *Chiashain Chuang, Masahiro Matsunaga,Nobuyuki Aoki, Chiba University, Japan. Rini Ravindranath, Huan-Tsung Chan, Chi-Te Liang, National Taiwan University, Taipei. Prathik Roy, University of Canterbury, Christchurch, NZ*	**#63. Role of defects in room temperature ferromagnetism of Graphene-CeO2 nanocomposites 10. Nano Materials.** *Sivakumar Kandasamy Department Of Physics, Anna University*
17:10-17:30	**#36. Reuse of nylon powder in selective laser sintering.** *Kirsten Kozlovsky, Steven Schmid, Jessica Schiltz,* *University of Notre Dame Tayler Kreider, Zimmer Biomet*	**#125. Effect of Process Parameters on Electro Chemical Honing (ECH) of External Cylindrical Surfaces of Titanium alloy Ti 6Al 4V.** *P. SUDHAKAR Rao, Indian Institute Of Technology Roorkee, IITR, Roorkee*	

Tuesday 24 January 2017

08:00-09:00	Registration Open, Level 0, 071 Foyer, Owen G. Glenn Building, The University of Auckland Tea & Coffee on arrival			
09:00-10:30	**Plenary Session** **Room: OGGB 3 Chair: Prof Simon Bickerton**			
09:00-09:10	Session Chair Address			
09:10-09:50	**#45. Processing Challenges During Co-bonded Repairs of Composites Aircraft Structures** *Professor Pascal Hubert, McGill University, Canada*			
09:50-10:30	**#47. Hierarchical Three-Dimensional Graphene Network Based Materials for Advanced Energy Harvest and Biosensor Applications.** *Professor Joong Hee Lee, Chonbuk National University, Republic of Korea*			
10:30-11:00	**Morning Tea, Level 071 Foyer**			
11:00-12:30	**Session 4**			
	Manufacturing Technologies Room: Case Room 2 Chair: Prof Ramawamy Nagarajan	**Metals and Metal-Matrix Composites** Room: Case Room 3 Chair: Dr PVM Rao	**Polymers and Polymer-Matrix Composites:** ***Natural fibre composites*** Room: Seminar Room 260-040C Chair: Dr Andrew George	**Polymers and Polymer-Matrix Composites:** ***Functional composites*** Room: Seminar Room 260-040B Chair: Prof Wen Hong Ruan
11:00-11:30	**Keynote Talk #57. On the effect of oxides on the evolution of microstructure during rheocasting of Al-Si-Mg-Fe alloys.** *Anders E. W. Jarfors, Ehsan Ghassemali, Mostafa Payandeh, Jonkoping University, Sweden*	**Keynote Talk #76. Wear resistant matrix materials used in manufacturing diamond tools.** *Elzbieta Bączek, The Institute of Advanced Manufacturing Technology. Konstanty Janusz, AGH University of Science and Technology, Poland*	**Keynote Talk #110. The variability of mechanical properties in natural fibre composite laminates.** *Michael Heitzmann, Juan Pablo Torres, Angelica Legras, The University of Queensland, Brisbane, Australia. Mercedes Alcock, Composite Innovation Centre, Manitoba, Canada .*	**Keynote Talk #82. Self-healing and reclaiming of vulcanized rubber.** *Ming Qiu Zhang, Hong Ping Xiang, Min Zhi Rong, Sun Yat-sen University, China*
11:30-11:50	**#77. Non-Destructive Evaluation of Preform Injectability and Compressibility for Quality Assessment in a Production Environment.** *Tino Hermann, S. van Oosterom, G. Lamb, T. Henke, S. Bickerton, The University Of Auckland, NZ*	**#34. Scan direction related grain growth during selective laser melting.** *Zhan Chen, M.A.L Phan, K. Darvish, Auckland University Of Technology, NZ*	**#29. Approaches to numerical modelling of coupled thermo-structural behaviour of natural fibre reinforced composite structures in fire.** *Swagata Dutta, Raj Das, Debes Bhattacharyya, The University Of Auckland*	**#120. Synergetic Effect on Static and Dynamic Mechanical Properties of Graphene Oxide- Carbon Nanotube Hybrid Acrylonitrile Butadiene Styrene Composites.** *Jeevan Jyoti, National Physical Laboratory*
11:50-12:10	**#91. A New 3D Printing Technique Using Extrusion of Photopolymer.** *Muhammad Asif , Maziar Ramezani, Auckland University Of Technology. Xiting Sun, Liang Wang, Xun Xu, Tim Giffney, Jadranka Travas-Sejdic, Kean Aw, University of Auckland, NZ*	**#10. Synthesis and Mechanical Response Of Ignition Resistant Magnesium-Alloy Based Nanocomposites.** *Sravya Tekumalla, Manoj Gupta, National University of Singapore. Srivatsan Tirumalai Srivatsa, The University of Akron , USA*	**#70. Mechanical behaviour of injection molded bagasse fiber reinforced PP and PE composites** *Manish Lila, Saurabh Chaitanya, Inderdeep Singh, Indian Institute of Technology Roorkee. Faninder Kumar, Sanjay Sharma, National Institute of Technical Teacher's Training and Research, Chandigarh, India.*	**#66. Effect of crystallization behaviours with respect to solvent evaporation rate on interface of carbon fiber reinforced polyamide 66 composites.** *Go Eun Park*
12:10-12:30	**#106. Heat treatment of nitrided layers formed on X37CrMoV5-1 tool steel.** *Aleksander Ciski, Institute Of Precision Mechanics, Poland. Michal Duchek, COMTES F.H.T., Dobřany, Czech Republic*	**#79. Heterogeneous catalysis in copper matrix.** *Tarasankar Pal, Indian Institute Of Technology Kharagpur*		**#74. Study the effect of cerium substituted silicate-zirconium protective coating on SS-304 (Boiler Steels)** *Jatinder Kapoor Guru Nanak Dev Engg. College, Gill Raod, Ludhiana, Punjab*
12:30-13:30	**Lunch, Level 0, 071 Foyer**			
13:30-15:00	**Session 5**			
	Ceramics and Ceramic-Matrix Composites Room: Case Room 2 Chair: Dr Kishore Debnath	**Metals and Metal-Matrix Composites** Room: Case Room 3 Chair: Dr Azwan Azmi	**Polymers and Polymer-Matrix Composites:** ***Natural fibre composites*** Room: Seminar Room 260-040C Chair: Dr Michael Heitzmann	**Polymers and Polymer-Matrix Composites** Room: Seminar Room 260-040B Chair: Prof Ming Qiu Zhang
13:30-14:00	**Keynote Talk #39. Complex Impedance Measurement on BaNd2-xLaxTi3O10 and BaNd2-xLaxTi4O12 Ceramic.** *Shrikant Kokare, P.B. Abhang & V.C. Malvade, Raje Ramrao College, Jath. S. Chandralingam, Jawaharlal Nehru Technological University, Hyderabad*	**Keynote #11. Role of Reinforcement Addition on Microstructure and Mechanical Response of Magnesium Alloy-Based Nanocomposites.** *Sravya Tekumalla, Najib Farhan, Manoj Gupta, National University of Singapore . Srivatsan Tirumalai Srivatsan, The University of Akron, USA*	**#136. Fire and impact resistance of epoxy resin composites filled with synthetic and natural fibres.** *Nam Kyeun Kim, Mohammad Rajaei, Debes Bhattacharyya, The University of Auckland, NZ*	**Keynote Talk #85. Water triggered dynamic coordinate bonds for underwater self-healing of polymer.** *Min Zhi Rong, Nan Nan Xia, Ming Qiu Zhang, Sun Yat-sen University*
14:00-14:20	**#83. Dielectric, ferroelectric and piezoelectric properties of manganese modified (K0.485Na0.5Li0.015)(Nb0.98V0.02)O3 ceramics.** *Chongtham Jiten, Kirori Mal College, University of Delhi. Radhapiyari Laishram, Solid State Physics Laboratory, Timarpur, Delhi . K Chandramani Singh, Sri Venkateswara College, University Of Delhi*	**#118. Microstructure and Mechanical Properties of Copper Metal Matrix Composites Developed by Powder Metallurgy Routes.** *Harshpreet Singh, Muhammad Hayat , Raj Das, Peng Cao, University Of Auckland*	**#93. The effect of blowing agent on the mechanical properties of wood/polypropylene composites with added biochar.** *Moganraj Subramaniam , V Patel, S Ikram, D Bhattacharyya, The University of Auckland, NZ*	**#98. Numerical Analysis of CFRP Butt Joint between dissimilar adherends under Torsional Loading.** *Raju Ladhwe, Prashant Kumar, College of Engineering, Shivajinagar, Pune. Shantanu Ladhwe, eGain Communications Pvt. Ltd., Pune. Ajay Shinde Mahindra Electric Vehicle Ltd., Banglore.*
14:20-14:40	**#131. Design and characterization of a composite piezoelectric ceramic motor.** *Yung Ting, Chung Yuan Christian University, Taiwan*	**#129. Investigating the low velocity response of fibre metal laminates.** *Avishek Chanda, Raj Das, University Of Auckland. Etienne Goutagny, École de l'Air, Mechanical Engineering Department, France*	**#105. Drilling of hemp/epoxy and fly ash filled hemp/epoxy composites: analysis of force and temperature.** *Kishore Debnath, Mridusmita Roy Choudhury, National Institute of Technology Meghalaya. Viaks Upadhyay, National Institute of Technology Patna,*	**#111. Time-Temperature Transformation Diagrams for in-situ Processing of Thermoplastics.** *Jarrad Humphry, Luigi Vandi, Darren Martin, Michael Heitzmann, The University of Queensland, Australia*
14:40-15:00				**#138. Analysis of Environmental Impact of Manufacturing Glass and Bamboo Composites Using Vacuum Assisted Moulding.** *Tiange Lu, Richard J.T. Lin, Krishnan Jayaraman, The University of Auckland*
15:00-15:30	**Afternoon Tea, Level 0, 071 Foyer**			
15:30-16:50	**Session 6**			
	Manufacturing Technologies Room: Case Room 2 Chair: Dr Nam Hoon Kim	**Measurements and Analysis** Room: Case Room 3 Chair: Dr Bon-Cheol Ku	**Polymers and Polymer-Matrix Composites:** ***Natural fibre composites*** Room: Seminar Room 260-040C Chair: Dr Nam Kyeun Kim	**Polymers and Polymer-Matrix Composites** Room: Seminar Room 260-040B Chair: Prof Min Zhi Rong
15:30-15:50	**#41. Taguchi based Grey relational analysis of Al2O3 ceramics using vibro-rotary ECDM process.** *Maneetkumar Dhanvijay, COEP*	**#2. Effects of LSM coating on mechanical strength of solid oxide fuel cell joint.** *Chih-Kuang Lin, Fan-Lin Hou, National Central University. Atsushi Sugeta, Hiroyuki Akebono, Hiroshima University, Japan. Szu-Han Wu, Peng Yang, Institute of Nuclear Energy Research, Taiwan.*	**#86. Flammability of sandwich composites using short flax fibre-reinforced fire-retardant polypropylene.** *Arcot Somashekar, Debes Bhattacharyya, W. Wijaya, C. C. Cheok, The University Of Auckland, NZ*	**Keynote Talk #108. Polymer Composite of UV cross-linked GO / PEOas Polymer Electrolyte Matrix for Lithium-Sulfur Batteries**. *Wen Hong Ruan, Yi Fu Huang, Liang Wang, Ze Qun Xu, Ming Qiu Zhang, Sun Yat-sen University, Guangzhou, China*
15:50-16:10	**#115. Design of 3D Core Wood-Strand Sandwich Panels for Building Envelope**. *Mostafa Mohammadabadi Composite Materials And Engineering Center, Department Of Civil & Environmental Engineering, Washington State University*	**#61. Drillability of Titanium 6246 Alloy.** *Mahros Darsin,Tim Pasang, Zhan Chen, Auckland University of Technology, NZ*	**#109. Phosphorus-containing wool fibre/polypropylene composite with improved flame retardancy.** *Daeseung Jung, Debes Bhattacharyya, The University Of Auckland, NZ*	**#78. Alignment of short fibres: An overview.** *Tom Sunny, Kim L Pickering, Shen Hin Lim, The University Of Waikato, NZ*
16:10-16:30		**#52. Comparison of Near dry EDM and Wet EDM- A Parametric Effect on Environmentally Harmful Gas Emission Concentration on HSS.** *Kuldeep Chaudhary, IIMT Meerut. Inderdeep Singh, Akshay Dvivedi, Indian Institute of Technology Roorkee, India.*	**#48. Mechanical behaviour of injection molded bagasse fiber reinforced PP and PE composites.** *Manish Lila, Saurabh Chaitanya, Inderdeep Singh, Indian Institute of Technology Roorkee. Faninder Kumar, Sanjay Sharma, National Institute of Technical Teacher's Training and Research, Chandigarh, India*	**#130. Study of PVDF thin film characteristics for multi-axis force sensors.** *Yung Ting, Chung Yuan Christian University, Taiwan*
16:30-16:50		**#103. Measuring interface toughness characteristics of composite laminates using a novel top surface analysis method.** *Martin Veidt , School Of Mechanical And Mining Engineering*	**#84. Compressibility modeling for flow simulation of vacuum infusion.** *Andrew George, Paul Hannibal, Joseph Schindler, Michael Morgan, David Hoagland, Caleb Lystrup, Brigham Young University*	**#54. High speed laser cutting of F-12 aramid laminates.** Geng *Dongbing, Zhang Yi, Yi Kai, Yang Zhiyong, Sun Jianbo, Aerospace Research Institute Of Material & Processing Technology. He Yehong, Yang Jian, AVIC Shenyang Liming Aero-Engine Group Corporation Ltd.*
16:50-18:30	Free time			
18:30-22:00	**Conference Dinner** The Fale Pacifika, Wynyard Street, The University of Auckland			

Wednesday 25 January 2017

08:00-09:00	Registration Open, Level 0, 071 Foyer, Owen G. Glenn Building, The University of Auckland Tea & Coffee on arrival		
09:00-10:30	**Plenary Session** **Room: OGGB 3 Chair: Dr Richard Lin**		
09:00-09:10	Session Chair Address		
09:10-09:50	**Reducing Defects in Laminates from Out-of-Autoclave Prepregs** *Professor Stephen Nutt, University of Southern California, United States of America*		
09:50-10:30	*Special Talk: Professor Debes Bhattacharyya, The University of Auckland, NZ*		
10:30-11:00	**Morning Tea, Level 0, 071 Foyer**		
11:00-12:30	**Session 7**		
	Manufacturing Technologies Room: OGGB 3 Chair: Mr Neil Edmonds	**Metals and Metal-Matrix Composites** Room: Case Room 2 Chair: Dr Kirsten Edgar	**Polymers and Polymer-Matrix Composites** Room: Case Room 3 Chair: Dr Xiaowen Yuan
11:00-11:30	**Keynote Talk #117. Bioinspired Flame Retardants.** *Ramaswamy Nagarajan, University Of Massachusetts Lowell*	**Keynote Talk #3. Extrinsic influence of coating on quasi-static response and fracture behavior of two high strength steels.** *Srivatsan Tirumalai , Paul Arindam, The University of Akron , USA. G. L. Doll, Akron Engineering Research Center.*	**Keynote Talk #81. Dielectric elastomers: from mechanics to applications.** Yanju *Liu, Jinsong Leng, Liwu Liu, Harbin Institute of Technology, Harbin, China*
11:30-11:50	**#75. Performance improvement using slotted tool electrode during micro electric discharge drilling.** *Ravinder Kumar, Inderdeep Singh, IIT Roorkee, India*	**#134. Porous nickel-titanium alloy 60NiTi prepared by conventional press-and-sinter method.** *Khashayar Khanlari, Maziar Ramezani, Auckland University of Technology. Peng Cao, Muhammad Hayat, Kelly Piaras, The University of Auckland*	**#100. Recycling of fibres from glass fibre reinforced composite materials.** *Muhammad Jamsari, Raja Zul Majdi Raja Yaacob, Arcot A Somashekar, Krishnan Jayaraman , The University Of Auckland, NZ*
11:50-12:10	**#71. Thermal and mechanical characterization of woven jute fibre reinforced thermoset composites.** *Ujendra Kumar Komal, Manish Kumar Lila, Inderdeep Singh, Pradeep Kumar, Indian Institute of Technology Roorkee, India*	**#7. Synthesis of an aluminum composite using friction stir processing and resultant mechanical response.** *Srivatsan Tirumalai, The University of Akron , USA. H. C. Madhu, S. V. Kailas, Indian Institute of Science, India*	**#90. 3D Printing of Natural Fibre Reinforced Recycled Polypropylene.** *David Stoof, Kim Pickering, University Of Waikato, NZ*
12:10-12:30			**#104. Drilling investigation of injection molded short sisal fiber reinforced polylactic acid composites**. *Kishore Debnath, Mridusmita Roy Choudhury, National Institute of Technology Meghalaya. Saurabh Chaitanya, Inderdeep Singh, Indian Institute of Technology Roorkee, India. Tirumalai S. Srivatsan, The University of Akron, USA.*
12:30-13:30	**Lunch, Level 0, 071 Foyer**		
13:30-14:30	**Plenary Session** **Career Celebration Distinguished Professor Debes Bhattacharyya** **Room: OGGB 3 Chair: tbc**		
14:30-15:00	**Afternoon Tea, Level 0, 071 Foyer**		
15:00-17:00	Optional Tour of CACM at Newmarket Campus - please sign up at registration		