



Day 0: 16th May 2016

Time	Programme
1700-1900 (120 mins)	REGISTRATION Welcome reception Venue: Nanyang Executive Centre, NTU Singapore

Day 1: 17th May 2016

Time	Programme	Speaker
0800-0900 (60 mins)	Arrival and Registration	
0900-0920 (20 mins)	Arrival of Guest-of-Honour (GOH), Minister – Mr S Iswaran	
0920-0930 (10 mins)	Welcome Address by Prof. Bertil Andersson <i>President, Nanyang Technological University, Singapore</i>	
0930-0940 (10 mins)	Speech by Mr S Iswaran , <i>Ministry of Trade and Industry (Industry)</i>	
0940-0955 (15 mins)	Official Launch of Singapore Centre for 3D Printing	
0955-1015 (20 mins)	Prize Award Ceremony for Singapore International 3D Printing Competitions 2016	
Concurrent Sessions – Start of conference		
1015-1055 (40 mins)	Keynote Lecture 1: Perspectives and Trends in Additive Manufacturing	Prof. David Lee Bourell <i>Professor, The University of Texas at Austin, USA</i>
1055-1110 (15 mins)	TEA BREAK & NETWORKING SESSION	
	Concurrent Sessions and Exhibition	
	Session Chair: Dr Chen Songlin <i>Venue1 (Auditorium)</i>	Session Chair: Assistant Professor Moon Seung-Ki <i>Venue 2 (LT1)</i>
		Session Chair: Assistant Professor Zhou Kun <i>Venue 3 (LT2)</i>
1110-1130 (20 mins)	Applications and Industry Rapid Tooling for Metal Injection Moulding Process Invited Speaker: Altaf Khurram <i>Mechanical Engineering Department, Universiti Teknologi Petronas, Malaysia</i>	Equipment and New Techniques Electron Beam Melting of Gamma-Titanium Aluminide for Next Generation Aero-Engine Components Invited Speaker: Mohammad Ashfaq <i>King Saud University, Saudi Arabia</i>
		Measurement Science and Methods New Network based Finite Element Method for Stereolithography Process Analysis Invited Speaker: Cunico Marlon Wesley Machado <i>University of São Paulo, Brazil</i>
1130-1150 (20 mins)	Measurement Science and Methods Water Absorption and Mechanical Properties Evaluation of Surface Modified ABS Printing Parts Invited Speaker: Leite Marco <i>IDMEC, Instituto Superior Técnico, Universidade de Lisboa, Lisboa, Portugal</i>	Materials Recent Researches on High-Performance Ceramics Fabricated by Selective Laser Sintering (SLS) Invited Speaker: Wu Jia-Min <i>School of Materials Science and Engineering, Huazhong University of Science and Technology, China</i>
		Equipment and New Techniques New Additive Manufacturing Technology Based on Selective Metal-Polymer Composite Formation Invited Speaker: Cunico Marlon Wesley Machado <i>University of São Paulo, Brazil</i>



1150-1205 (15 mins)	Applications and Industry Application of Polyjet Technology in Additive Manufacturing of Personalised Nail Art Lu Zhen <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Rheology and Printability of Engineered Cementitious Composites-A Literature Review Weng Yiwei <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Design Characterisation of Micro-Lattices Fabricated by Selective Laser Melting Sing Swee Leong <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1205-1220 (15 mins)	Applications and Industry The Preparation of Calcia-Based Ceramic Slurry for Rapid Manufacturing Hollow Turbine Blade Based on Stereolithography Lu Zhongliang <i>Xi'an Jiaotong University, China</i>	Materials Selective Laser Sintering of Polypropylene Feed Spacers for Spiral Wound Membrane Modules Tan Wen See <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Design Transient Electrowetting on Dielectric for Activating Droplet in Bioprinting Applications Vo Quoc <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
Concurrent Sessions and Exhibition			
	Session Chair: Dr Chen Songlin <i>Venue1 (Auditorium)</i>	Session Chair: Assistant Professor Moon Seung-Ki <i>Venue 2 (LT1)</i>	Session Chair: Assistant Professor Zhou Kun <i>Venue 3 (LT2)</i>
1220-1235 (15 mins)	Equipment and New Techniques Adaptive Layer Height during DLP Materials Processing Pedersen David Bue <i>Department of Mechanical Engineering, Technical University of Denmark, Denmark</i>	Measurement Science and Methods Controlling Polymer Digital Material Composition with Layering Shukri Bin Abdul Jalil <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials A Preliminary Study of 3D Printability of Alginate Hydrogel and Effect of Graphene Oxide for 3D Biofabrication Li Huijun <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1235-1250 (15 mins)	Equipment and New Techniques A Self-Peeling Vat for Improved Release Capabilities during DLP Materials Processing Pedersen David Bue <i>Department of Mechanical Engineering, Technical University of Denmark, Denmark</i>	Software and Data Processing Unified Storage File Format for Additive Manufacturing Felix Baumann <i>University of Stuttgart, Germany</i>	Materials Comparative Study on Tribological Behaviour of Ti-6Al-4V and CoCr Samples Additively Manufactured with Electron Beam Melting Toh Wei Quan <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1250-1305 (15 mins)	Materials Properties of 3D Printable Concrete Paul Suvash Chandra <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Applications and Industry Additive Manufacturing for Active Electronic Components : A Review N Saengchairat <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Measurement Science and Methods Effects of Speed Function and Focus Offset on Selective Electron Beam Melting of Stainless Steel 316L Jing Wei <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>



1305-1400 (55 mins)	LUNCH & NETWORKING SESSION		
1400-1440 (40 mins)	Keynote Lecture 2: AM Format	Prof. Alain Bernard <i>Professor, Ecole Centrale de Nantes, France</i>	
1440-1500 (20 mins)	Lecture 1: Metal Additive Manufacturing with SLM Solutions' multi-lasers technology.	Mr Jeffrey Chew <i>SLM Solutions</i>	
	Concurrent Sessions and Exhibition		
	Session Chair: Associate Professor Li Hua <i>Venue1 (Auditorium)</i>	Session Chair: Assistant Professor David Fan <i>Venue 2 (LT1)</i>	Session Chair: Assistant Professor Lau Gih Keong <i>Venue 3 (LT2)</i>
1500-1515 (15 mins)	Applications and Industry Effect of Alumina-Based Fiber on The Mid-Temperature Strength of Integral Ceramic Mold for Casting Hollow Turbine Blade Tian Guoqiang <i>Xi'an Jiaotong University, China</i>	Materials Preliminary Investigation on Selective Laser Melting of Pure Tin Yap Chor Yen <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Applications and Industry The Disruptive Evolution of 3D Printing Panda Biranchi Narayan <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1515-1530 (15 mins)	Applications and Industry Convective Heat Transfer Performance of Staggered Heat Sink Arrays Fabricated by Selective Laser Melting Wong Kin Keong <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Synthesis of A Conductive Polymer for Potential Use in Printing Prosthetic Hands Using FDM Technique Zhong Shaohong <i>Raffles Science Institute, Raffles Institution, Singapore</i>	Materials Effect of Energy Density on Density and Microstructure for Selective Laser Melted Stainless Steel 316L Sun Zhongji <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1530-1550 (20 mins)	TEA BREAK & NETWORKING SESSION		
	Concurrent Sessions and Exhibition		
	Session Chair: Associate Professor Li Hua <i>Venue1 (Auditorium)</i>	Session Chair: Assistant Professor David Fan <i>Venue 2 (LT1)</i>	Session Chair: Assistant Professor Lau Gih Keong <i>Venue 3 (LT2)</i>
1550-1605 (15 mins)	Applications and Industry Structural, Mechanical and Invitro Study on Pulsed Laser Deposition of Hydroxyapatite on Additive Manufactured Substrate Kuppuswamy Hariharan <i>CEG Campus, Anna University, Chennai, India</i>	Materials Potential of Cold Spray as Additive Manufacturing for Ti-6Al-4V Tan Adrian Wei-Yee <i>Rolls-Royce@ NTU Corporate Lab, Nanyang Technological University, Singapore</i>	Design Quantifying Mechanical Properties of Material Extrusion Fabricated Lattice Structures based on Semi-Rigid Joint Frame Formulation Park Sang-in <i>The Woodruff School of Mechanical Engineering, Georgia institute of Technology, Atlanta Georgia, USA</i>



Concurrent Sessions and Exhibition			
	Session Chair: Associate Professor Li Hua <i>Venue1 (Auditorium)</i>	Session Chair: Assistant Professor David Fan <i>Venue 2 (LT1)</i>	Session Chair: Assistant Professor Lau Gih Keong <i>Venue 3 (LT2)</i>
1605-1620 (15 mins)	Applications and Industry Haptic - 3D Additive Manufacturing in the Sports Industry Schmidt Thomas <i>Huafeng Textile Group, China</i>	Materials Laser Melting Of Cu Based Powder Shape Memory Alloys: Inert Gas Pressure And Scanning Pattern Effect On Transformation Temperature And Ultimate Strength Jorge Ramos-Grez <i>Mechanical and Metallurgical Engineering Department, Pontificia Universidad Catolica de Chile, Chile</i>	Design Study on Curling Due to Part Distortion in Additive Manufactured Thin Feature Manivannan Sugavaneswaran <i>CEG Campus, Anna University, Chennai, India</i>
1620-1635 (15 mins)	Applications and Industry Investigation of the Mechanical Properties of 3D Printed Compliant Mechanisms Pham Minh Tuan <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Additive Manufacturing of ZnO Thin Film for Micro Size UV Photodetector Du Hejun <i>Singapore Institute of Manufacturing Technology, Singapore</i>	Design A Strategy to Locally Optimise the Material Composition of AM Construction Elements Craveiro Flavio <i>CIAUD, Faculty of Architecture, University of Lisbon, Portugal</i>
1635–1650 (15mins)	Applications and Industry Wind Tunnel Testing of a Joined- Wing Aircraft Model with Additive Manufactured Components Teo Zhen Wei <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Measurement Science and Methods Finite Element Analysis of Temperature Field in Selective Laser Melting Process Tan Peng Fei <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Design, Fabrication and Evaluation of PCL/Graphene Scaffolds for Bone Regeneration Wang Weiguang <i>University of Manchester, UK</i>
1650-1705 (15 mins)	Applications and Industry Embedding Electronics in Printing Ultem 9085 Quadcopter Keane Phillip <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Fabrication of Samaria Doped Ceria Thin Film on Porous Substrate by Slurry Spin Coating Lee Tsung-Han <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Design Kinematic Pair Design for 3D Printing of Micro Mettalic Robotic Mechanisms Chen Yonghua <i>The University of Hong Kong, Hong Kong</i>



Concurrent Sessions and Exhibition			
	Session Chair: Associate Professor Li Hua <i>Venue1 (Auditorium)</i>	Session Chair: Assistant Professor David Fan <i>Venue 2 (LT1)</i>	Session Chair: Assistant Professor Lau Gih Keong <i>Venue 3 (LT2)</i>
1705-1720 (15 mins)	Applications and Industry Application of 3D Printed Medical Aid for Paediatric Cancer Patients Peh Zhen Kai <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials A Review of 3D Printable Construction Materials and Applications Lu Bing <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Design Cross Entropy for Weight Minimization of a Compressive Strut Malekjafarian Abdollah <i>University College Dublin, Ireland</i>
1720-1735 (15 mins)	Applications and Industry Failure Mode Analysis of Kagome Lattice Structures Gautam Rinoj <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Measurement Science and Methods Multi-Scale Modeling of Additive Manufacturing Process Chandra Shubham <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Applications and Industry Fabricating Patient-Customizable Tubular Scaffolds from Biodegradable Polymer Tan Yu Jun <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1735	CLOSING		

Day 2: 18th May 2016

Time	Programme	Speaker	
0900-0940 (40 mins)	Keynote Lecture 3: Functional and Responsive Materials in 3D Printing	Prof. Shlomo Magdassi <i>Professor, The Hebrew University of Jerusalem, State of Israel</i>	
0940-1020 (40 mins)	Keynote Lecture 4: Design for Additive Manufacturing	Prof. David Rosen <i>Professor, Georgia Institute of Technology, USA</i>	
1020-1040 (20 mins)	TEA BREAK & NETWORKING SESSION		
	Concurrent Session and Exhibition		
	Session Chair: Nanyang Assistant Professor Kim Young-Jin <i>Venue1 (Auditorium)</i>	Session Chair: Assistant Professor Li Peifeng <i>Venue 2 (LT1)</i>	Session Chair: Assistant Professor Zhou Yufeng <i>Venue 3 (LT2)</i>
1040-1100 (20 mins)	Applications and Industry Status of Standardization for Additive Manufacturing Invited Speaker: Zhou Wei <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Simulating the Dynamic Deformation Behaviour of Selective Laser Melted Stainless Steel Microlattice Structures Invited Speaker: Li Peifeng <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Near-Surface Properties of Stainless Steels Repaired by Alloy 625 Using Laser Direct Energy Deposition Invited Speaker: J.Y. Hascoet/ Surendar Marya <i>Ecole Centrale Nantes</i>
1100-1120 (20 mins)	Applications and Industry Challenges and Opportunities in Overcoming Barriers to Sustainable Additive Manufacturing Adoption by Industry Invited Speaker: Wong David <i>Nanyang Polytechnic, Singapore</i>	Materials Preliminary Study on Solvent Effect in Fiber Fabrication in Near-Field Electrospinning Invited Speaker: Koomsap Pisut <i>Industrial & Manufacturing Engineering, Asian Institute of Technology, Thailand</i>	Equipment and New Techniques The Influence of Preheating on Laser Beam Melting Invited Speaker: Merkel Markus <i>Aalen University of Applied Sciences, Germany</i>
1120-1135 (15 mins)	Materials Selective Laser Melting of Aluminium Metal Matrix Composites Sercombe Tim <i>The University of Western Australia, Australia</i>	Measurement Science and Methods Real Time Monitoring of Exposure Controlled Projection Lithography Jariwala Amit <i>Georgia Institute of Technology, Georgia, USA</i>	Materials Bioceramic Composite Scaffolds for Tissue Engineering Blaker Jonny <i>University of Manchester, UK</i>



	Concurrent Session and Exhibition		
	Session Chair: Nanyang Assistant Professor Kim Young-Jin Venue1 (Auditorium)	Session Chair: Assistant Professor Li Peifeng Venue 2 (LT1)	Session Chair: Assistant Professor Zhou Yufeng Venue 3 (LT2)
1135-1150 (15 mins)	Measurement Science and Methods A Model of Parallel Kinematics for Machine Calibration Pedersen David Bue <i>Department of Mechanical University, Technical University of Denmark, Denmark</i>	Applications and Industry A Study of the State-Of-The-Art Printed Passive Electronic Components Through Fully Additive Manufacturing Methods Tan Hong Wei <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials A Preliminary Study on The Extrusion Resolution of Pluronic F127 for Bioprinting 260 Thermo-Responsive Hydrogel Constructs Ratima Suntornnond <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1150-1205 (15 mins)	Materials State of the Art Review on Selective Laser Melting of Stainless Steel for Future Applications in the Marine Industry Wu Wenjin <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Measurement Science and Methods Understanding the Link Between Process Parameters, Microstructure and Mechanical Properties of Laser Sintered PA12 Parts through X-Ray Computed Tomography Pavan Michele <i>Materialise NV, Leuven, Belgium</i>	Applications and Industry Topology Optimization and Structure Partition for Additive Manufacturing: A Literature Review Xu Feifei <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1205-1220 (15 mins)	Equipment and New Techniques Review of Multi-Material in Additive Manufacturing Tan Jie Lun <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Measurement Science and Methods 3D Printing Structures that Exhibit Torsions Noh Kyoung-Seok <i>Gwangju Institute of Science and Technology, Gwangju, South Korea</i>	Applications and Industry 3D Printing of Anatomy Bio-Models for Medical Education Tan Heang Kuan Joel <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1220-1235 (15 mins)	Applications and Industry Investigation of Quasi Static Indentation on 3D Printed Honeycomb Based Truncated-Pyramid Square Structure Dikshit Vishwesh <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Measurement Science and Methods Dissipative Particle Dynamics Study of Ultraviolet Ink Agglomeration in 3D Inkjet Printing Aphinyan Suphanat <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Applications and Industry Encapsulation of Human Umbilical Vein Endothelial Cells within Gelma Fibers with Controlled Diameter for Vascular Tissue Engineering Liew Wen Loon Andy <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>



Concurrent Session and Exhibition			
	Session Chair: Nanyang Assistant Professor Kim Young-Jin Venue1 (Auditorium)	Session Chair: Assistant Professor Li Peifeng Venue 2 (LT1)	Session Chair: Assistant Professor Zhou Yufeng Venue 3 (LT2)
1235-1250 (15 mins)	Applications and Industry Out of Plane Compressive Strength Of 3D Printed Vertical Pillar Based Core Structure Dikshit Vishwesh Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Materials 3D Printed Materials for High Torque Applications: Challenges and Potential Goh Guo Dong Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Design A Perspective on 3D Printed Membrane: Direct/Indirect Fabrication Methods via Direct Laser Writing Lee Jian-Yuan Singapore Centre for 3D Printing, Nanyang Technological University, Singapore
1300-1400 (60 mins)	LUNCH & NETWORKING SESSION		
1400-1440 (40 mins)	Keynote Lecture 5: Potentials and Challenges in 3D Concrete Printing		Prof. Theo Salet Professor, Eindhoven University of Technology, Netherlands
Concurrent session and Exhibition			
	Session Chair: Nanyang Assistant Professor Tran Anh Tuan Venue1 (Auditorium)	Session Chair: Nanyang Assistant Professor Kim Young-Jin Venue 2 (LT1)	Session Chair: Associate Professor Liu Yong Venue 3 (LT2)
1440-1455 (15 mins)	Materials Hydrothermal Synthesis of Hydroxyapatite Whiskers for Biomedical Applications Dong Zhili School Materials Science and Engineering, Nanyang Technological University, Singapore	Measurement Science and Methods X-Ray CT Assessment of Porosity in AlSi10Mg Parts Fabricated by Selective Laser Melting Cai Xingfang Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Materials Microvalve Bioprinting of Cellular Droplets with High Resolution and Consistency Ng Wei Long Singapore Centre for 3D Printing, Nanyang Technological University, Singapore
1455-1510 (15 mins)	Materials Additive Manufacturing of Conductive 3D Structure Cooperstein Ido Casali Center for Applied Chemistry, Institute of Chemistry and Center for Nanoscience and Nanotechnology, The Hebrew University of Jerusalem, Jerusalem, Israel	Measurement Science and Methods Review of the Fatigue Performance of Stainless Steel 316L Parts Manufactured by Selective Laser Melting Zhang Meng Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Materials Effects of Laser Processing on Nickel Oxide – Yttria Stabilized Zirconia Tan Hong Yi Kenneth Singapore Centre for 3D Printing, Nanyang Technological University, Singapore



Concurrent session and Exhibition			
	Session Chair: Nanyang Assistant Professor Tran Anh Tuan Venue1 (Auditorium)	Session Chair: Nanyang Assistant Professor Kim Young-Jin Venue 2 (LT1)	Session Chair: Associate Professor Liu Yong Venue 3 (LT2)
1510-1525 (15 mins)	Design Multidisciplinary Design Optimization for Additive Manufactured Customised Products Yao Xiling Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Materials Geometrical-Based Characterisation of Complex Ti- 6AL-4V Parts Fabricated by Selective Electron Beam Melting Kok Yihong Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Materials Curing Behaviour and Characteristics of Shape Memory Polymers by UV Based 3D Printing Choong Yu Ying Clarrisa Singapore Centre for 3D Printing, Nanyang Technological University, Singapore
1525-1540 (15 mins)	Materials Control of Residual Stress in Single-Track Electron Beam Melting of Ti6Al4V by Finite Element Modeling Vastola Guglielmo A*STAR Institute of High Performance Computing, Singapore	Measurement Science and Methods Evaluation of 3D Scanner Using Elimination and Multi Criteria Decision Making (MCDM) Method Ahmad Khairyanto Bin Ratmin Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Design Functionally Graded Material by Selective Laser Melting Choy Sing Ying Singapore Centre for 3D Printing, Nanyang Technological University, Singapore
1540-1555 (20 mins)	TEABREAK & NETWORKING SESSION		
Concurrent Sessions			
	Session Chair: Nanyang Assistant Professor Tran Anh Tuan Venue1 (Auditorium)	Session Chair: Nanyang Assistant Professor Kim Young-Jin Venue 2 (LT1)	Session Chair: Associate Professor Liu Yong Venue 3 (LT2)
1555-1610 (15 mins)	Applications and Industry Additive Manufacturing of Unmanned Aerial Vehicles: Current Status, Recent Advances and Future Perspectives Govdeli Yunus Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Materials Further Analysis in Microstructure Evolution, Texture, Mechanical Properties and Fracture Behavior Of Ti- 6AL-4V Fabricated by Selective Laser Melting Do Dang Khoa Singapore Centre for 3D Printing, Nanyang Technological University, Singapore	Design User-Centered Design for Additive Manufacturing as a Customization Strategy Ko Hyunwoong Singapore Centre for 3D Printing, Nanyang Technological University, Singapore



	Concurrent Sessions		
	Session Chair: Nanyang Assistant Professor Tran Anh Tuan <i>Venue1 (Auditorium)</i>	Session Chair: Nanyang Assistant Professor Kim Young-Jin <i>Venue 2 (LT1)</i>	Session Chair: Associate Professor Liu Yong <i>Venue 3 (LT2)</i>
1610-1625 (15 mins)	Materials Selective Laser Melting of Spodumene: An Exploratory Study Gan Mingxuan <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Equipment and New Techniques Current Challenges and Future Perspectives of 3D Concrete Printing Tay Yiwei Daniel <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Equipment and New Techniques Sub-Micron Additive Manufacturing of Carbon Materials for Environmental Sensors by Femtosecond-Laser-Based Direct Laser Writing Nguyen Trong Nghia <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1625-1640 (15 mins)	Equipment and New Techniques Preliminary Investigation of 4D Printing Technology for Deployable UAV Development Teoh Ee Mei Joanne <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Design 3D Printing of Microfluidic Sensor for Soft Robots: A Preliminary Study in Design and Fabrication Goh Guo Liang <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Equipment and New Techniques Fabrication of Complex Hydrogel Structure via Free-Form Bioprinting: A Review Tan Yong Sheng Edgar <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1640-1655 (15 mins)	Software and Data Processing Degradable vs. non-degradable bone fixation implants: A computational study Altamimi Abdulsalam <i>Mechanical, Aerospace and Civil Engineering, The University of Manchester, UK</i>	Measurement Science and Methods Effect of Inert Gas Flow Velocity and Unidirectional Scanning on the Formation of Spattered Powder During Selective Laser Melting Ahmad Bin Anwar <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Applications and Industry Bioprinting for Cardiovascular Tissue Engineering Lee Jia Min <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1655-1715 (20 mins)	Lecture 2: Laser Metal Deposition: Innovative 3D Printing Technology for High-Value Industrial Applications		Mr Frederic Le Moullec <i>BeAM Machines</i>
1715-1755 (40 mins)	POSTER PRESENTATION		
1755	CLOSING		

Day 3: 19th May 2016

Time	Programme	Speaker
0900-0940 (40 mins)	Keynote Lecture 6: Emerging Trends in Reverse Engineering	Prof. Bopaya Bidanda <i>Professor, University of Pittsburgh, USA</i>
0940-1020 (40 mins)	Keynote Lecture 7: Medicine 4.0: The Role of Additive Manufacturing	Prof. Paulo Bartolo <i>Professor, University of Manchester, UK</i>
1020-1040 (20 mins)	TEA BREAK & NETWORKING SESSION	
	Concurrent Session and Exhibition	
	Session Chair: Associate Professor Sunil Chandrakant Joshi <i>Venue1 (Auditorium)</i>	Session Chair: Associate Professor Zhang Yilei <i>Venue 2 (LT1)</i>
	Session Chair: Associate Professor Sridhar Idapalapati <i>Venue 3 (LT2)</i>	
1040-1100 (20 mins)	Equipment and New Techniques High Power Multi-Laser Selective Laser Melting Technology Invited Speaker: Stefan Ritt <i>SLM Solutions</i>	Materials Laser additive manufacturing of light-weight Al-based aerospace components: An integration of structure, material and process Invited Speaker: Gu Dong Dong <i>Nanjing University of Aeronautics and Astronautics (NUAA)</i>
		Measurement Sciences and Methods Studies on Effect of Area-Filling Pattern on Residual Stress Evolution in Weld-Deposition Based Additive Manufacturing M Naveenkumar <i>Indian Institute of Technology Hyderabad</i>
1100-1115 (15 mins)	Materials Dynamic Mechanical Behaviours and Thermal Decomposition of Laser Sintered Polyurethane Incorporated with MWCNTs Yuan Shangqin <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Fabrication of Titanium Lattice Structures by Selective Laser Melting for Osteochondral Tissue Regeneration Wang Shuai <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
		Equipment and New Techniques Experimental Investigation on Fracture Resistance Behavior of Additive Manufactured Multi Material Structure with Corrugated Interface Vijayanand Rajendra Boopathy <i>CEG Anna University, Chennai, India</i>
1115-1130 (15 mins)	Materials Identifying New Process Parameters for Preparing Polycaprolactone Powder with a Solution Spraying Technique Phattanaphibul Thittikorn <i>Department of Industrial Engineering, Kasetsart University, Thailand</i>	Materials Selective Laser Melting of Nickel Titanium Shape Memory Alloy Khoo Zhong Xun <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
		Equipment and New Techniques Particle Accumulation in Microchannel and its Reduction by Surface Acoustic Wave (SAW) Sriphutkiat Yannapol <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>



	Concurrent session and Exhibition		
	Session Chair: Associate Professor Sunil Chandrakant Joshi <i>Venue1 (Auditorium)</i>	Session Chair: Associate Professor Zhang Yilei <i>Venue 2 (LT1)</i>	Session Chair: Associate Professor Sridhar Idapalapati <i>Venue 3 (LT2)</i>
1130-1145 (15 mins)	Applications and Industry Inkjet Printed Stretchable Electrodes for Tunable Focus Lens Shrestha Milan <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Selective Laser Melting of Copper Based Alloy on Steel: A Preliminary Study Tey Cher Fu <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Equipment and New Techniques Robotic 3D Printing for Building and Construction Lim Jian Hui <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1145-1200 (15mins)	Equipment and New Techniques Additive Manufacturing of Metal Nanowires for Transparent Electrodes by Femtosecond-Laser-Based Direct Laser Writing Le Dinh Truong Son <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Measurement Science and Methods Benchmarking of Material Jetting Process: Process Capability Study Yap Yee Ling <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials Characterization of Thermoplastic Polyurethane Powders to Determine Laser Sintering Processability Verbelen Leander <i>Department of Chemical Engineering, KU Leuven; Department of Mechanical Engineering, KU Leuven, Belgium</i>
1200-1215 (15 mins)	Materials The Effect of Laser Power and Scanning Speed on The Density of Selective Laser Melting Fabricated AL-CNT Composites Du Zhenglin <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Design Influence of the Geometric Factor for the Width of the Contour Scan in Selective Laser Melting Ahn Il Hyuk <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>	Materials 3D Printed Electronic Tracks for Bio-Integrated Free-Form Devices Shweta Agarwala <i>Singapore Centre for 3D Printing, Nanyang Technological University, Singapore</i>
1215-1255 (40 mins)	Keynote Lecture 8: Material Characterisation and Mechanical Properties of Metallic AM Systems		Prof. John Lewandowski <i>Professor, Case Western Reserve University, USA</i>
1255-1355 (60 mins)	LUNCH & NETWORKING SESSION		
1355-1455 (60mins)	Lab Tour at SC3DP Future of Manufacturing Lab 1 (FoM1 Lab) To be continued....		



Day 3: 19 th May 2016 - CONFERENCE BANQUET	
1630-1700 (30mins)	Meet up point at NEC carpark to board the coach to Marina Bay Sands
1700-1745 (45mins)	Depart to Conference Banquet Venue at Marina Bay Sands
1745-1830 (45mins)	Arrival of Guest and Reception at Marina Bay Sands
1830-1900 (30mins)	Guests to be seated down
1900 -2100	CONFERENCE BANQUET Venue: Marina Bay Sands, Singapore Function Room Name: Roselle Junior Ballroom, Level 4