

September 21st, 2014 Sunday

15:00 -17:00	Registration opens	
Day 1: September 22nd, 2014 Monday		
08:00 - 17:00	Registration continues	
08:30-10:00	Opening Ceremony and Keynote Speeches	
08:30 - 08:45	Prof. Dr. Noordin Mohd. Yusof Universiti Teknologi Malaysia Malaysia	Opening and Greetings by Malaysian host
08:45 - 09:10	Prof. Dr.-Ing. Günther Seliger Technische Universität Berlin Germany	Global Sustainable Manufacturing – European Perspective
09:10 -09:35	Prof. Dr. I. S. Jawahir University of Kentucky USA	Global Sustainable Manufacturing – US Perspective
09:35 - 10:00	Prof. Dr.-Ing. Juergen Mallon Vietnamese-German University Vietnam	Sustainable Manufacturing in Vietnam – Actual Developments and Future Perspectives
10:00 - 10:30	Morning break	

Poster Session Parallel to Paper Session

Time: 10:00 - 17:00

Parallel Paper Session

Time: 10:30 - 12:45

PARALLEL SESSIONS	Session 1: Entrepreneurship	Session 2: Strategies	Session 3: Energy Management	Session 4: Processes
	<i>Room: Permata Ballroom</i>	<i>Room: Delima</i>	<i>Room: Nilam</i>	<i>Room: Mutiara</i>
	Moderator: A. Y. C. Nee , National University of Singapore	Moderator: M. Z. M. Saman , Universiti Teknologi Malaysia	Moderator: S. Kreitlein , Friedrich-Alexander- Universität Erlangen-Nürnberg	Moderator: C. Reise , Vietnamese- German University
	E. More, E. Gungor, R. Phaal, D. Probert: Addressing Resource Over-exploitation Via Cooperative Institutions: Examining How Technology Roadmapping Could Contribute	R. Orth, R.Scheumann, M. Galeitzke, K. Wolf, H. Kohl, M. Finkbeiner: Sustainable Corporate Development Measured by Intangible and Tangible Resources as Well As Targeted by Safeguard Subjects	J. Fischer, N. Weinert, C. Herrmann: Method For Selecting Improvement Measures For Discrete Production Environments Using An Extended Energy Value Stream Model	K. Kianinejad, E. Uhlmann: Investigation Into Energy Efficiency of Outdated Cutting Machine Tools And Identification of Improvement Potentials to Promote Sustainability
	A. Rebensdorf, A. Gergert, G.A. Oosthuizen, S. Böhm: Open Community Manufacturing – Development Challenge as A Concept for Value Creation for Sustainable Manufacturing in South Africa	R. Nurcahyo, A. D. Wibowo: Manufacturing Capability, Manufacturing Strategy and Performance of Indonesia Automotive Component Manufacturer	G. Lee, S. Park, H. Kim, J. Jeong, J. Kim: Energy Saving Effect Mapping of Redundant Actuation in Workspace	Z. E. Gungor, S. Evans: Eco-Effective Changeovers; Changing a Burden Into a Manufacturing Capability
	H. Kohl, R. Orth, O. Riebartsch, M. Galeitzke, J.P. Cap: Support of Innovation Networks in Manufacturing Industries through Identification of Sustainable Collaboration Potential And Best-practice Transfer	N. Oertwig, N. Wintrich, R. Jochem: Model-Based Evaluation Environment for Sustainability	S. Bougain, D. Gerhard, C. Nigischer, S. Uğurlu: Towards Energy Management in Production Planning Software Based on Energy Consumption as a Planning Resource	N. Sihag, P. Kala, P. M. Pandey: Chemo Assisted Magnetic Abrasive Finishing: Experimental Investigations

<p>N. Hami, M. R. Muhamad, Z. Ebrahim: The Impact of Sustainable Manufacturing Practices and Innovation Performance on Economic Sustainability</p>	<p>Y. Wang, W. Wang, G. Tang, M. Tseng: Component Reuse Management for Remanufacturing Based on Marketing Diffusion Model</p>	<p>M. Ghasemi, E. Halakoo, M. Sedighi, M. Sadeqzadeh, W. R. W. Daud: Performance Comparison of Three Common Proton Exchange Membranes for Sustainable Bioenergy Production in Microbial Fuel Cell</p>	<p>Othman M., Yusnenti F.M.Y, Mohd. Yusri I.: Siliconizing Process of Mild Steel Substrate by Using Tronoh Silica Sand (TSS): An Experimental Investigation</p>
<p>A. Zahedi, R. Otterpohl: Towards Sustainable Development by Creation of Green Social Entrepreneur's Communities</p>	<p>M. Taisch, B. Stahl, G. May: Sustainability in Manufacturing Strategy Deployment</p>	<p>T. Javied, T. Rackow, J. Franke: Implementing Energy Management System to Increase Energy Efficiency in Manufacturing Companies</p>	<p>H.-H. Westermann, M. Kafara, R. Steinhilper: Development of a Reference Part for the Evaluation of Energy Efficiency in Milling Operations</p>
<p>A. Kruse, S. Butzer, T. Drews, R. Steinhilper: A Simulation-Based Framework for Improving the Ecological and Economic Transparency in Multi-Variant Production</p>	<p>S. M. Masoumik, S. H. Abdul-Rashid, E. U. Olugu, R. A. R. Ghazilla: Importance-Performance Analysis of Green Strategy Adoption within the Malaysian Manufacturing Industry</p>	<p>S. Kreitlein, S. Spreng, J. Franke: E Benchmark - a Pioneering Method for Process Planning and Sustainable Manufacturing Strategies</p>	<p>S. Candra, I. M. L. Batan, W. Berata, A. S. Pramono: Analytical study and FEM simulation of the maximum varying blank holder force to prevent cracking on cylindrical cup deep drawing</p>
<p>A. Middendorf; S. Benecke; N. F. Nissen; O. Wittler; K.D.Langa: Establishing Ecoreliability of Electronic Devices in Manufacturing Environments</p>	<p>R. A. R. Ghazilla, N. Sakundarini, S. H. Abdul-Rashid, N. S. Ayub, E. Olugu, S. N. Musa: Drivers and Barriers Analysis for Green Manufacturing Practices in Malaysian SMEs : A Preliminary Findings</p>		<p>E. Uhlmann, R. Hollan: Blasting with Solid Carbon Dioxide – Investigation of the Mechanical Removal Mechanism</p>
Individual Discussions			
12:45 - 14:00 Lunch Break			

Parallel Paper Session

Time: 14:00- 15:45

Parallel Paper Session					
Time: 14:00- 15:45					
PARALLEL SESSIONS	Session 5: Knowledge	Session 6: Value Creation	Session 7: Resource Efficiency	Session 8: Machining	
	<i>Room: Permata Ballroom</i>	<i>Room: Delima</i>	<i>Room: Nilam</i>	<i>Room: Mutiara</i>	
		Moderator: G. Campana , University of Bologna	Moderator: S. K. Ong , National University of Singapore	Moderator: I. S. Jawahir , University of Kentucky	Moderator: M. Y. Noordin , Universiti Teknologi Malaysia
		A. Derakhshan, A. Khademi, S. Khademi, N. M. Yusof, M. H. Lee: Review of Discrete-Continuous Models in Energy and Transportation	E. Amrina, A. L. Vilsi: Key Performance Indicators for Sustainable Manufacturing Evaluation in Cement Industry	K. Irshad, K. Habib, T. Nagarajan: Performance Evaluation of PV-Trombe Wall for Sustainable Building Development	Y. R. Ginting, B. Boswell, W. Biswas, N. Islam: Advancing Environmentally Conscious Machining
		S. Schenker, J. G. Steingrímsson, R. Borndörfer, G. Seliger: Modelling of Bicycle Manufacturing via Multi-Criteria Mixed Integer Programming	V. V. Glinskiy, L. K. Serga, M. S. Khvan: Environmental Safety of the Region: New Approach to Assessment	C. Fanghänel, A. Rautenstrauch, C. Symmank, J. Katzenberger, M. Putz, V. Kräusel, U. Götze, B. Awiszus: Multidimensional Analysis of Process Chains Regarding the Resource-Efficient Manufacturing of Hybrid Structures	Gamage J.R., DeSilva A.K.M.: Assessment of Research Needs for Sustainability of Unconventional Machining Processes
		G. Campana, B. Cimatti: Measures and Methods for a New Taxonomy in Manufacturing Enterprises	P. Fantini, C. Palasciano, M. Taisch: Back to Intuition: Proposal for A Performance Indicators Framework to Facilitate Eco-factories Management and Benchmarking	T. Kitajima, H. Sawanishi, M. Taguchi, K. Torihara, O. Honma, N. Mishima: A Proposal on a Resource Efficiency Index for Electric and Electronic Equipment	G. Kant, K. S. Sangwan: Predictive Modeling for Power Consumption in Machining using Artificial Intelligence Techniques
		J. K. Palisaitiene, E. Sundin: Toward Pull Remanufacturing: a Case Study on Material and Information Flow Uncertainties at a German Engine Remanufacturer	C. I. Lim, W. Biswas, Y. Samyudia: Review of Existing Sustainability Assessment Methods for Malaysian Palm Oil Production	P. Vanegas, J. R. Peeters, D. Cattrysse, W. Dewulf, J. R. Dufloy: Improving Resource Efficiency through Recycling Modelling: A Case Study for LCD TVs	T. Zhang, O. Owodunni, J. Gao: Scenarios in Multi-Objective Optimisation of Process Parameters for Sustainable Machining
		A. M. Gontarz, D. Hampl, L. Weiss, K. Wegener: Resource Consumption Monitoring in Manufacturing Environments	K. Wolf, R. Scheumann, N. Minkov, Y.-J. Chang, S. Neugebauer, M. Finkbeiner: Selection Criteria for Suitable Indicators for Value Creation Starting With a Look at the Environmental Dimension	J. Bhamu, K. S. Sangwan: Reduction of Post-kiln Rejections for Improving Sustainability in Ceramic Industry: a Case Study	S. Dambhare, S. Deshmukh, A. Borade, A. Dugalwar, M. Phate: Sustainability Issues in Turning Process: A Study in Indian Machining Industry
		A. M. Yazid, J. K. Rijal, M. S. Awaluddin, E. Sari: Pattern Recognition on Remanufacturing Automotive Component as Support Decision Making using Mahalanobis-Taguchi System	V. Nappi, H. Rozenfeld, T. Gudiat: The Incorporation of Sustainability Indicators into a Performance Measurement System	B. Peukert, M. Saoji, E. Uhlmann: An Evaluation of Building Sets Designed for Modular Machine Tool Structures to Support Sustainable Manufacturing	A. Masood, R. Siddiqui, M. Pinto, H. Rehman, M. A. Khan: Tool Path Generation, for Complex Surface Machining, Using Point Cloud Data
		Individual Discussions			
15:45- 16:15 Afternoon break					

Parallel Paper Session

Time: 16:15- 18:00

		Session 9: Education and Training	Session 10: Supply Chain	Session 11: Remanufacturing	Session 12: Lubrication
		<i>Room: Permata Ballroom</i>	<i>Room: Delima</i>	<i>Room: Nilam</i>	<i>Room: Mutiara</i>
PARALLEL SESSIONS		Moderator: A. Hasan , Birzeit University	Moderator: T. Yamada , University of Electro- Communications	Moderator: K. Hasnan , Universiti Tun Hussein Onn Malaysia	Moderator: D. Lung , RWTH Aachen University
		A. A. Hanieh, S. AbdElall, P. Krajnik, A. Hasan: Industry-Academia Partnership for Sustainable Development in Palestine	S. M. Masoumik, S. H. Abdul-Rashid, E. U. Olugu, R. A. R. Ghazilla: A Strategic Approach to Develop Green Supply Chains	J. M. Kafuku, M. Z. M. Saman, S. Mohd. Yusof, S. Sharif, N. Zakuan: Investment Decision Issues from Remanufacturing System Perspective: Literature Review and Further Research	F. Klocke, B. Döbbeler, D. Lung: Energy saving potentials of high pressure lubricoolant supply
		T. D. Nguyen, R. McFarland, M. Kleinsorge, J. Krüger, G. Seliger: Adaptive Qualification and Assistance Modules for Manual Assembly Workplaces	H. C. D. Pimenta, P. D. Ball: Analysis of Environmental Sustainability Practices Across Upstream Supply Chain Management	H.C. Fang, S.K. Ong, A.Y.C. Nee: Product Remanufacturability Assessment and Implementation Based on Design Features	P. Blau, K. Busch, M. Dix, C. Hochmuth, A. Stoll, R. Wertheim: Flushing and Coolants for High Performance, Efficient and Environmental Friendly Cutting
		B. C. Müller, C. Reise, G. Seliger: Gamification in Factory Management Education – A Case Study with Lego Mindstorms	A. Memari, A. R. A. Rahim, R. B. Ahmad: Integrated Production-distribution planning in Green Supply Chain: A Multi-objective Evolutionary Approach	S. E. Marshall, T. W. Archibald: Substitution In a Hybrid Remanufacturing System	E. A. Rahim, M. R. Ibrahim, A. A. Rahim, Z. Mohid: Experimental Investigation of Minimum Quantity Lubrication (MQL) as a Sustainable Cooling Technique
		G. May, M. Taisch, A. Bettoni, O. Maghazei, A. Matarazzo, B. Stahl: A new Human-centric Factory Model	T. Urata, T. Yamada, N. Itsubo, M. Inoue: Modeling and Balancing for Costs and CO2 Emissions in Global Supply Chain Network among Asian Countries	S.L. Soh, S.K. Ong, A.Y.C. Nee: Application Of Design For Disassembly From Remanufacturing Perspective	G. S. Goindi, S. N. Chavan, D. Mandal, P. Sarkar, A. D. Jayal: Investigation of ionic liquids as novel metalworking fluids during minimum quantity lubrication machining of a plain carbon steel
		S. Asmus, F. Karl, A. Mohnen, G. Reinhart: The Impact of Goal-Setting on Worker Performance - Empirical Evidence from a Real-Effort Production Experiment	K. Hasnan, A. Ahmed, B. Aisham, Q. Bakhsh: RFID with Xbee Communication Network Enhance the Visibility of Supply Chain Management	S.S. Yang , S.K. Ong , A.Y.C. Nee: Towards Implementation of DfRem Into the Product Development Process	S.Kolahdouz, M.Hadi, B.Arezoo, S.Zamani: Investigation of Surface Integrity in High Speed Milling of Gamma Titanium Aluminide Under Dry and Minimum Quantity Lubricant Conditions
			T. Guidat, M. Uoti, H. Tonteri, T. Määttä: A Classification of Remanufacturing Networks in Europe and Their Influence on New Entrants	M. Blankenburg, C. Horn, J. Krüger: Detection of Counterfeit by the Usage of Product Inherent Features	N. Talib, E. A. Rahim: Performance Evaluation of Chemically Modified Crude Jatropha Oil as a Bio-based Metalworking Fluids for Machining Process
		Individual Discussions			
Conference Banquet					
19:30	Bus pick up from Puteri Pacific Johor Bahru to dinner venue (Danga Bay)				
20:00-22:00	Conference dinner (onboard Danga Cruise 8)				
22:00	Bus pick up from dinner venue (Danga Bay) to Puteri Pacific Johor Bahru				

Day 2: September 23rd, 2014 Tuesday

08:00 -12:00	Registration continues and ends at noon	
08:30 - 09:00	Keynote Speech	
	Prof. Dr.-Ing. Matthias Finkbeiner Technische Universität Berlin Germany	Challenges of Environmental Engineering

Poster Session Parallel to Paper Session

Time: 09:00 - 15:45

Parallel Paper Session

Time: 09:05 - 10:15

PARALLEL SESSIONS	Session 13: Awareness	Session 14: Logistics	Session 15: Maintenance	Session 16: Equipment
	<i>Room: Permata Ballroom</i>	<i>Room: Delima</i>	<i>Room: Nilam</i>	<i>Room: Mutiara</i>
	Moderator: S. Marshall , Auckland University of Technology	Moderator: K. Y. Wong , Universiti Teknologi Malaysia	Moderator: S. Kreitlein , Friedrich-Alexander- Universität Erlangen- Nürnberg	Moderator: Y. Yusof , Universiti Tun Hussein Onn Malaysia
	M. Severengiz, J. Seidel, J. G. Steingrímsson, G. Seliger: Enhancing Technological Innovation with the Implementation of a Sustainable Manufacturing Community	T. Yamada, Y. Yoshizaki, N. Itsubo, M. Inoue: Low-Carbon and Economic Supplier Selection Using Life Cycle Inventory Database by Asian International Input-Output Tables	R. P. Mishra, R. B. Kodali, G. Gupta, N. Mundra: Development of a Framework for Implementation of World-Class Maintenance Systems Using Interpretive Structural Modeling Approach	L. Abdullah, Z. Jamaludin, M.N. Maslan, J. Jamaludin, I. Halim, N.A. Rafan, T.H. Chiew: Assessments on Tracking Performance of Cascade P/PI, NPID and NCasFF Controller for Precise Positioning of XY Table Ballscrew Drive System
	W. M. Wang, L. Wolter, K. Lindow, R. Stark: Graphical Visualization of Sustainable Manufacturing Aspects for Knowledge Transfer to Public Audience	T. Kawasaki, T. Yamada, N. Itsubo, M. Inoue: Multi Criteria Simulation Model for Lead Times, Costs and CO2 Emissions in a Low-Carbon Supply Chain Network	N. K. Kasava, N. M. Yusof, A. Khademi, M. Zameri, M. Saman: Sustainable Domain Value Stream Mapping (SdVSM) Framework Application in Aircraft Maintenance: A Case Study	X. He, Y. Zhang, H. Cun, S. Yuan, Y. Ding, K. Zeng: Vibration Measurements of Clinched Joints
	A.K. Digalwar, G. Giridhar: Interpretive Structural Modeling Approach for Sustainable Development of Electric Vehicle Market in India	R. Bhinge, R. Moser, E. Moser, G. Lanza, D. Dornfeld: Sustainability Optimization for Global Supply Chain Decision-Making	E. Sari, A. M. Shaharoun, A. Ma'aram, A. M. Yazid: Sustainable Maintenance Performance Measures: a Pilot Survey in Malaysian Automotive Companies	A. Albalasie, A. Glodde, G. Seliger, A. Abu Hanieh: Quasi-linearization Approach for the Under-actuated Robots
	S. Basmer; S. Buxbaum-Conradi; P. Krenz; T. Redlich; J. P. Wulfsberg; F.-L. Bruhns: Open Production: Chances for Social Sustainability in Manufacturing	M. Fareeduddin, A. Hassan, S. N. Mujahid, S. Selim: The Impact of Carbon Policies on Closed-loop Supply Chain Network Design	M. Borschlegl, S. Kreitlein, M. Bregulla, J. Franke: A Method for Forecasting the Running Costs of Manufacturing Technologies in Automotive Production during the Early Planning Phase	J. Um, A. Gontarz, I. Stroud: Developing Energy Estimation Model Based on Sustainability KPI of Machine Tools
Individual Discussions				
10:15 - 10:45 Morning Break				

Parallel Paper Session

Time: 10:45 - 12:30

Parallel Paper Session					
Time: 10:45 - 12:30					
PARALLEL SESSIONS	Session 17: Operations	Session 18: Lifecycle	Session 19: Waste Water	Session 20: Tools and Technologies	
	<i>Room: Permata Ballroom</i>	<i>Room: Delima</i>	<i>Room: Nilam</i>	<i>Room: Mutiara</i>	
		Moderator: O. E. Udony , University of Malaya	Moderator: M. Finkbeiner , Technische Universität Berlin	Moderator: M. Ghasemi , Universiti Kebangsaan Malaysia	Moderator: R. Wertheim , Technische Universität Chemnitz
		I. H. Garbie : Sustainability Optimization in Manufacturing Enterprises	A. Esfandiyari, S. Härter, T. Javied, J. Franke : A Lean Based Overview on Sustainability of Printed Circuit Board Production Assembly	N.M. Mokhtar, W.J. Lau, A.F. Ismail, D. Veerasamy : Membrane Distillation Technology for Treatment of Wastewater from Rubber Industry in Malaysia	A. Fritsche, F. Bleicher : Evaluating and Influencing Dressing Results by Changing the Grain Size Distribution Based on Statistical and Experimental Investigations
		P. Schnellbach, G. Reinhart : Evaluating the Effects of Energy Productivity Measures on Lean Production Key Performance Indicators	T. F. Go, D. A. Wahab, H. Hishamuddin : An Approach in Designing Products for Multiple Generation Life- Cycles	H.Norafifah, M.Y.Noordin, K.Y.Wong, S.Izman, A.N. Aizat Ahmad : A Study of Operational Factors for Reducing the Fouling of Hollow Fiber Membranes during Wastewater Filtration	A. Gontarz, T. Schudeleit, K. Wegener : Framework of a Machine Tool Configurator for Energy Efficiency
		P. D. Ball : Developing a Start- Stop Production System Concept	Y. J. Chang, G. Sproesser, S. Neugebauer, K. Wolf, R. Scheumann, A. Pittner, M. Rethmeier, M. Finkbeiner : Environmental and Social Life Cycle Assessment of Welding Technologies	A.S. Noor Adila, M.Y. Noordin, K.Y. Wong, S. Izman : Modeling of Spinning Process for Efficient Production of Hollow Fiber Membranes Used In Wastewater Treatment	Y. Yusof, K. Latifa : New Interpretation Module for Open Architecture Control based CNC Systems
		T. Stock, G. Seliger : Multi- Objective Shop Floor Scheduling Using Monitored Energy Data	C. Mascle, P. Baptiste, D. Sainte Beuve, A. Camelot : Process for Advanced Management and Technologies of Aircraft End- Of-Life (EOL)	S. Affi, S. Alnahhal, S. Abdelall : Developing an Integrated Sustainable Sanitation System for Urban Areas: Gaza Strip Case study	W. Weiliang, Z. Shusheng, Z. Ce : Study of the Hydrogen-Steam Turbine Composite Cycle
		J. Stoldta, E. Franz, A. Schlegel, M. Putz : Resource Networks: Decentralised Factory Operation Utilising Renewable Energy Sources	Júnior Sousa Ribeiro, Jefferson de Oliveira Gomes : Proposed Framework For End-Of-Life Aircraft Recycling	R.K.Ihalawatt,K.A.B.N.Kurup puarachchi,A.K.Kulatunga : Eco-Friendly, Water Saving Sanitation System	N.A Rafan, Z. Jamaludin, T.H Chiew , L. Abdullah, M.N. Maslan : Contour Error Analysis Of Precise Positioning For Ball Screw Driven Stage Using Friction Model Feedforward
		T. Rackowa, T. Javied, T. Donhausera, C. Martin, P. Schuderer, J. Franke : Green Cockpit: Transparency on Energy Consumption in Manufacturing Companies	S. Mahmood, M. Z. Mat Saman, N. Mohd. Yusof : Proposed Framework for Assessing the Sustainability of Membrane Life Cycle	C.S. Ong, W.J. Lau, P.S. Goh, B.C. Ng, T. Matsuura, A.F. Ismail : Performance Study of PVDF-Tio2 Membrane with Different Molecular Weight of PVP for Oily Wastewater Treatment Process	J. Franke, B. Hofmann,J. Tremel, A. Meyer : Innovative Methods for Assembly and Fixation of Permanent Magnets in Electrical Machines
		Individual Discussions			
12:30- 14:00Lunch Break					

Parallel Paper Session

Time: 14:00- 15:45

Parallel Paper Session				
Time: 14:00- 15:45				
PARALLEL SESSIONS	Session 21: Implementations	Session 22: Design	Session 23: Value Creation	Session 24: Material
	<i>Room: Permata Ballroom</i>	<i>Room: Delima</i>	<i>Room: Nilam</i>	<i>Room: Mutiara</i>
	Moderator: M. A. Lajis , Universiti Tun Hussein Onn Malaysia	Moderator: H. Ishikawa , University of Electro- Communications	Moderator: D. Kurniawan , Universiti Teknologi Malaysia	Moderator: S. Izman , Universiti Teknologi Malaysia
	J. H. Miah, A. Griffiths, R. McNeill, I. Poonaji, R. Martin, S. Morse, A. Yang, J. Sadhukhan : Creating an Environmentally Sustainable Food Factory: A Case Study of the Lighthouse Project at Nestlé	Y. Moubachir, D. Bouami : A New Approach for the Transition between QFD Phases	H. Sawanishi, K. Torihara, N. Mishima : A Study on Disassemblability and Feasibility of Component Reuse of Mobile Phones	B. Yahaya, S. Izman, M. H. Idris, M. S. Dambatta : Effects of Activated Charcoal on Dewaxing Time in Microwave Hybrid Heating
	Lunt PAV, P. D. Ball, S. Kaladgew : Integrating Energy Efficiency into Industrial Strategy – A Case Study from the European Aerospace Sector	S. Gupta, G. S. Dangayach, A. Kumar Singh : Key Determinants of Sustainable Product Design and Manufacturing	S.N. Ab Rahim, M.A. Lajis : A Review on Recycling Aluminum Chips by Hot Extrusion Process	K. S. Fong, M. J. Tan, B. W. Chua, D. Atsushi : Enabling Wider Use of Magnesium Alloys for Lightweight Applications by Improving the Formability by Groove Pressing
	A. K. Marsono, W. J. Ying, M. Md. Tap, Y. C. Chieh, A. Haddadi : Standard Verification Test for Industrialised Building System (IBS) Repetitive Manufacturing	T. Buchert, S. Neugebauer, S. Schenker, K. Lindow, R. Stark : Multi-criteria Decision Making as A Tool for Sustainable Product Development – Benefits and Obstacles	K. Torihara, T. Kitajima, N. Mishima : Design of a Proper Recycling Process for Small-Sized E-waste	A. T. Baheta, S. Hassan, A. Radzihan B. Reduan, A. D. Woldeyohannes : Performance Investigation of Transcritical Carbon dioxide Refrigeration Cycle
	Y. Ojaghi, A. Khademi, N. Mohd. Yusof, N. Ghorbani Renani, S. A. H. bin Syed Hassan : Production Layout Optimization for Small and Medium Scale Food Industry	N. Sasaki, H. Ishikawa : Set-based Design Method for Multi-Objective Structural Design with Conflicting Performances under Topological Change	Y. Yusof, S. A. Yahya, A. Adam : Novel Technology for Sustainable Pineapple Leaf Fibers Productions	E. Halakoo, A. Khademi, M. Ghasemi, N. Mohd. Yusof, R. J. Gohari, A. F. Ismail : Production of Sustainable Energy by Carbon Nanotube/Platinum Catalyst in Microbial Fuel Cell
	T. Rackow, J. Kohl, A. Canzaniello, P. Schuderer, J. Franke : Energy Flexible Production: Saving Electricity Expenditures by Adjusting the Production Plan	A.K. Kulatunga, N. Karunatilake, N. Weerasinghe : Sustainable Manufacturing based Decision Support Model for Product Design and Development Process	A Mat Nawi, N.A. Badarulzaman : Effect of Plaster of Paris Waste and Sintering Temperatures on Physical Properties of Pottery	N.M. Ismail, A.F. Ismail, A. Mustafa : Sustainability in Petrochemical Industry: Mixed Matrix Membranes from Polyethersulfone/Cloisite15a® for the Removal of Carbon Dioxide
	P. Gausemeier, J. Seidel, T. Riedelsheimer, G. Seliger : Pathways for Sustainable Technology Development - The Case of Bicycle Mobility in Berlin	B. Kianian, S. Tavassoli, T. C. Larsson : The Role of Additive Manufacturing Technology in Job Creation: An Exploratory Case Study of Suppliers of Additive Manufacturing in Sweden	S.S. Khamis, M.A. Lajis, R.A.O. Albert : A Sustainable Direct Recycling of Aluminum Chip (AA6061) in Hot Press Forging Employing Response Surface Methodology	D. Paraskevas, K. Vanmeensel, J. Vleugels, W. Dewulf, J. R. Duflou : The Use of Spark Plasma Sintering To Fabricate a Two-Phase Material from Blended Aluminium Alloy Scrap and Gas Atomized Powder
	Panel Discussion			
15:45 - 16:15 Afternoon Break				
16:15 - 17:30	Presentation: GCSM Blue Responsibility Award: Manufacturing for a Sustainable Terra Preta Sanitation System			

Day 3: September 24th, 2014 Wednesday

09:00	Bus pick up from Puteri Pacific Johor Bahru to UTM campus
09:30 - 10:30	Welcoming to the UTM, Presentation
10:30 - 11:00	Morning break
11:00 - 12:00	Blue Responsibility Award ceremony
12:00 - 13:30	Individual discussions and lunch
14:00	Departure to Puteri Pacific Johor Bahru
End of the 12th Global Conference on Sustainable Manufacturing – Emerging Potentials	