

KES-SDM (Sustainable Design and Manufacturing) 2017

26-27-28 April 2017

I Laboratori delle Arti

Piazzetta P. P. Pasolini 5/b - University of Bologna

Day	Date	Hour	Activity and place	Hour	Date	Day
April 26 Wednesday		14:00	Optional/elective visit at Lamborghini (30 available entrances) or Pagani (30 available entrances) or University of Bologna Museum Palazzo Poggi First. Please, reserve your option by emailing to barbara.cimatti2@unibo.it The possibility to participate in the optional/elective activity will be given through reservation on the base "FIRST COME FIRST SERVED" due to the limited availability	14:00	Wednesday April 26	1st
		18:00-20:00	Registration (Desk, Common Area)	18:00		
		18:30	Maestro Malferrari's Piano concert (Auditorium)	18:30		
		19:30	A SUSTAINABLE WELCOME BUFFET-DINNER introduced by Barbara Cimatti	19:30		

Day	Date	Hour	Activity and place	Hour	Date	Day		
1st day April 27 Thursday		08:00-9:00	Registration (Desk, Common Area)	08:00-9:00	Thursday April 27	1st day		
		09:00-9:30	Plenary Session, Auditorium. Opening and Greeting from the Authorities and KES. Welcome from the General Chair	09:00-9:30				
		09:30-9:45	Plenary Session, Auditorium. Dr. Marino Golinelli's Honoured Guest Speech. Introduced by Emilio Ferrari	09:30-9:45				
		09:45-10:30	Plenary Session, Auditorium. Prof. Guenther Seliger's Keynote Speech: Leverage of education for sustainable manufacturing. Introduced by Luca Tomesani	09:45-10:30				
		10:30-11:10	Track Session G01 (Auditorium), Pinar Bilge, Jeremy Bonvoisin	Track Sessions G02 (Theatre), Peter Ball			Track Sessions G04 (Cinema Room), Elliot Woolley	10:30-11:10
		10:30	1.1 Optimization of Electrical Discharge Machining parameters of Co-Cr-Mo Using Central Composite Design, S. Iranmanesh, A. Esmailzadeh, A. Razavykia (sdm17-006)	2.1 Improvement of Sustainability through the Application of Topology Optimization in the Additive Manufacturing of a Brake Mount, Stefan Junk, Claus Fleig, Björn Fink (sdm17-004)			4.1 Sustainable Design: an Integrated Approach for Lightweighting Components in the Automotive Sector, Dattilo C. A., Zanchi L., Del Pero F, Delogu M. (sdm17-021)	10:30
		10:50	1.2 Latent Semantic Indexing for capitalizing experience in inventive design, P. Zhang, C. Zanni-Merk, D. Cavallucci (sdm17-005)	2.2 A tool to promote sustainability in casting processes: development highlights, Emanuele Pagone, Mark Jolly, Konstantinos Salonitis (sdm17-055)			4.2 A Monitoring and Data Analysis System to Achieve Zero- Defects Manufacturing in Highly Regulated Industries, Theocharis Alexopoulos, Michael Packianather (sdm17-022)	10:50
		11:10-11:40	Coffee break (Common Area)				11:10-11:40	
		11:40-13:00	Track Session G01 (Auditorium), Pinar Bilge, Jeremy Bonvoisin	Track Sessions G02 (Theatre), Peter Ball			Track Sessions G04 (Cinema Room), Elliot Woolley	11:40-13:00
		11:40	1.3 Sustainable Data Collection Framework: Real-Time, Online Data Visualization, T.-L. Sun, G. A. Miranda Salgado (sdm17-010)	2.3 Sustainability of die-assisted quenching technology and comparison with traditional processes, Giampaolo Campana, Fabio Lenzi, Francesco Melosi, Andrea Zanotti (sdm17-053)			4.3 A multi-criteria decision-making model to evaluate sustainable product designs based on the principles of Design for Sustainability and Fuzzy Analytic Hierarchy Process, Chanjief Chandrakumar, Asela K. Kulatunga, Senthana Mathavan (sdm17-103)	11:40
		12:00	1.4 Performance Analysis on Fitness Equipment: Application of an Inertial Sensor toward Quality of Life, G. A. Miranda Salgado, T.-L. Sun (sdm17-011)	2.4 Supply Chain Major Disruptions and Sustainability metrics: A case study, Luisa Huaccho Huatuco, Guljana Shakir Ullah, Thomas F. Burgess (sdm17-060)			4.4 Assessing sustainability within organizations: The Sustainability Measurement and Management Lab (SuMM), Mariolina Longo, Matteo Mura (sdm17-072)	12:00
		12:20	1.5 Design Principles for Do-It-Yourself Production, J. Bonvoisin, J. K. Galla, S. Prendeville (sdm17-012)	2.5 Multi-Layer Stream Mapping: Application to an injection moulding production system, M. N. Gomes, A. J. Baptista, A. P. Guedes, I. Ribeiro, E. J. Lourenço, P. Peças (sdm17-061)			4.5 Eco-Intelligent Factories: Timescales for Environmental Decision Support, Elliot Woolley, Alessandro Simeone, Shahin Rahimifard (sdm17-051)	12:20
		12:40	1.6 Establishment of Engineering Metrics for Upgradable Design of Brake Caliper, N. A. Aziz, D. A. Wahab, R. Ramli ((sdm17-018)	2.6 Sustainability of Micro Electrochemical Machining: Discussion, Mina Mortazavi, Atanas Ivanov (sdm17-065)			4.6 A Combination of Life Cycle Assessment and Knowledge Based Engineering to evaluate the Sustainability of Industrial Products, G. Campana, M. Mele, B. Cimatti (sdm17-030)	12:40
		13:00-14:00	Lunch (Common Area)				13:00-14:00	
		14:00-15:00	Plenary Session, Auditorium. Prof. Shahin Rahimifard Keynote Speech: Forging new frontiers in sustainable food manufacturing. Introduced by Rossi Setchi				14:00-15:00	
		15:00-17:00	Track Sessions G03 (Auditorium), Daniel Eysers	Track Sessions G02 (Theatre), Michele Dassisti			Invited Session IS04 (Cinema Room), Mario Monzón	15:00-17:00
		15:00	3.1 Sustainable Manufacturing for Thai Firms: A Case Study of Remanufactured Photocopiers, Jirapan Chaowanapong, Juthathip Jongwanich (sdm17-007)	2.7 Application of Design for Environment principles combined with LCA methodology on automotive product process development: the case study of a crossmember, S. Maltese, M. Delogu, L. Zanchi, A. Bonoli (sdm17-081)			8.1 Developing fiber and mineral based composite materials from paper manufacturing by-products, Cynthia Adu, Mark Jolly (sdm17-013)	15:00
		15:20	3.2 Steps in organisational environmental change: similarities across manufacturing sectors, Peter Ball (sdm17-039)	2.8 A Conceptual Framework to support Decision-Making in Remanufacturing Engineering Processes, Awn Alghamdi, Paul Prickett, Rossitza Setchi (sdm17-093)			8.2 Sustainable Carbododimine and Triazine reagents as collagen cross-linking agents in the presence of PAMAM Dendrimers, V. Beghetto, L. Agostinis, V. Gatto, R. Sole, D. Zanette, S. Conca (sdm17-026)	15:20
		15:40	3.3 From the Treatment of Olive Mills Wastewater to its Valorisation: Towards a Bio-Economic Industrial Symbiosis, Y. Mouzakitis, R. Aminalragia-Giamini, E. D. Adamides (sdm17-040)	2.9 Optimized production process of a supporting plate as an improvement of the product sustainability, G. Bertuzzi, S. Di Rosa, G. Scarpa (sdm17-101)			8.3 Banana Fiber Processing for the Production of Technical Textiles to Reinforce Polymeric Matrices, Z. Ortega, M. Monzón, R. Paz, L. Suárez, M. Morón, M. McCourt (sdm17-043)	15:40
		16:00	3.4 A Case Study of Sustainable Manufacturing Practice: End-of-Life Photovoltaic Recycling, Jun-Ki Choi (sdm17-070)	2.10 Cross-Functional Mapping to link Lean Manufacturing and Life Cycle Assessment in Environmental Impact Reduction, Jun T. Leong, Wai M. Cheung (sdm17-003)			8.4 Experimental investigation into the use of natural reinforcements for sustainable composite materials, M. Del Borrello, M. Secchi, G. Campana, M. Mele (sdm17-080)	16:00
16:20	3.5 Supply Chain Risk Management for Sustainable Additive Manufacturing, Daniel Eysers (sdm17-083)	2.11 Combining Process Based Monitoring with Multi-layer Stream Mapping, D. Fissler, A. Schneider, E. J. Lourenço, A. J. Baptista (sdm17-033)	8.5 The effects of the industrial processing on commercial polyhydroxyalkanoates, Laura Mazzocchetti, Tiziana Benelli, Emanuele Maccaferri, Loris Giorgini (sdm17-085)	16:20				
16:40	3.6 Implementation of an advanced automated management system for the optimization of energy and power terms in a Water Purification Plant (WPP) with a photovoltaic plant (PP), J. Chazarra Zapata, I. Yahyaoui, J. Castellote Martínez, J. M. Molina-Martínez, M. Estrems Amestoy, A. Ruiz Canales (sdm17-100)	2.12 Cryogenic delamination and sustainability: analysis of an innovative recycling process for photovoltaic crystalline modules, M. Dassisti, G. Florio, F. Maddalena (sdm17-014)	8.6 Pyrolysis of low-density polyethylene in an innovative batch pilot plant: influence of the temperature on product distribution and gas composition, G. Zattini, C. Leonardi, L. Mazzocchetti, M. Cavazzoni, I. Montanari, C. Tosi, T. Benelli, L. Giorgini (sdm17-095)	16:40				
17:00-17:30	Coffee break (Common Area)			17:00-17:30				
17:30-19:10	Invited Session IS11 (Auditorium), Davide Russo	Invited Session IS10 (Theatre), E. Betancour, C. Fragassa	Invited Session IS08 (Cinema Room), E. Ferrari, M. Bortolini, R. Accorsi	17:30-19:10				
17:30	Ind.02 Conscious and Innovative design with solidThinking Evolve and Inspire, Adel Matar e Riccardo Bianco, SolidThinking & Weissoft	14.1 History of solar car and its electric components advancement and its future, Hideki Jonokuchi, Satoshi Maeda (sdm17-071)	Ind.01 Smart Factory Competitiveness based on real time monitoring and quality predictive model applied to Multi-Stages Production Lines, Nicola Gramegna, Enginsoft	17:30				
17:50	15.1 How to build guidelines for Eco-improvement, Davide Russo, Caterina Rizzi, Christian Spreafico, (sdm17-056)	14.2 A Brief Review on Determinant Aspects in Energy Efficient Solar Car Design and Manufacturing, Giangiacomo Minak, Cristiano Fragassa, Felipe Vannucchi de Camargo (sdm17-094)	12.1 Eco Orbit View – a way to improve environmental performance with the application of Lean Management, Katarzyna Skornowicz, Malgorzata Fialkowska-Filipek, Remigiusz Horbal (sdm17-017)	17:50				
18:10	15.2 QFD and TRIZ to Sustain the Design of Direct Open Moulds, G. Caligiana, A. Liverani, D. Francia, L. Frizziero, G. Donnici (sdm17-067)	14.3 Mg ₂ SiO ₄ : Er ³⁺ Coating for Efficiency Increase of Silicon- Based Commercial Solar Cells, Rubia Young Sun Zampiva, Annelise Kopp Alves, Carlos Perez Bergmann (sdm17-086)	12.2 On Reconciling Sustainable Plants and Networks Design for By-Products Management in the Meat Industry, R. Accorsi, R. Manzini, G. Baruffaldi, M. Bortolini (sdm17-076)	18:10				
18:30	15.3 An industrial application of a TRIZ based Eco-design approach, Davide Russo, Caterina Rizzi, Pierre-Emmanuel Fayemi (sdm17-073)	14.4 Aerodynamic effects of manufacturing tolerances on a solar car, E. Betancur, C. Fragassa, J. Coy, S. Hincapie, G. Osorio-Gomez (sdm17-098)	12.3 3D Printing Services: A Supply Chain Configurations Framework, Helen Rogers, Norbert Baricz, Kulwant S. Pawar (sdm17-075)	18:30				
18:50	15.4 An Eco-design methodology based on a-LCA and TRIZ, G. Bersano, P.-E. Fayemi, M. Schofer, C. Spreafico (sdm17-102)	14.5 Experimental Temperature Modelization for Solar Racing Vehicle, C. Rossi, M. Bertoldi, G. Fabbri, D. Pontara, G. Rizzoli (sdm17-092)	12.4 Design of an innovative plant for the wastewater recovery and purification in the food & beverage industry, M. Bortolini, M. Gamberi, F. Pilati, A. Regattieri, R. Accorsi (sdm17-077)	18:50				
19:30	Closing of the sessions of the first conference day and leaving the venue Private buses to the Social Dinner (Savoia Hotel)			19:30				
20:00-20:30	Social Dinner (Savoia Hotel)			20:00-20:30				
20:30-23:30	AITeM-AIAS joint Award Assignment to Olmes Ognibene			20:30-23:30				