

Wednesday - 26 June 2013					
	Main Auditorium	Auditorium 1	Auditorium 2	Auditorium 3	Auditorium 4
08:00	Conference Registration				
08:45					
08:45	Opening Session				
09:00					
09:00	Informed Tectonics in Material Based Design				
09:50	<i>Rivka Oxman</i>				
09:55	Digital fabrication and the architectural detail				
10:45	<i>Gabriela Celani</i>	Coffee Break			
10:45					
11:00					
11:00	Green Transportation	Renewable Energy Technologies	Smart Design	Sustainable Business Models	Reuse and Recycling Techniques
	Systematic Approach of Upscaling Aircraft Parts and Sub-Modules to Aircraft Level	Use of Jathropha biomass for adsorption of glyphosate in water	How to design smart-buildings without smart-people?	Managerial decision support tools for sustainable actions	Kinetics, equilibrium and thermodynamics of cadmium adsorption by a biosorbent from the bark of Pinus elliottii
	<i>R. Ilg</i>	<i>H. Nacke, A. C. Gonçalves Jr., D. Schwantes, G. F. Coelho, Silva. M. R. & Pinheiro. A.</i>	<i>Marie-Christine Zélem</i>	<i>M. Dolinsky & V. Dolinska</i>	<i>L. Strey, A. C. Gonçalves Jr., D. Schwantes, G. F. Coelho, H. Nacke & D. C. Dragunski</i>
	Social sustainability: a key concern for the recovery of urban roads	Modeling of multi-assortment production of CO ₂ -extract's	Designing a sustainable and healthy living environment with smart technology	Eco-efficiency in Six Small and Medium Enterprises in Mexico	Equilibrium of the adsorption process of Glyphosate using wastes from the cassava industry
	<i>A. Annunziata</i>	<i>E.P.Koshevoy, V.S. Kosachev, V.U.Chundyshko & N.N. Latin</i>	<i>J.H. Lan</i>	<i>L. Iturbide, P. Lozoya & P. Baptista</i>	<i>D. Schwantes, A. C. Gonçalves Jr., G. F. Coelho, J. Casarin, J. R. Stangarlin & A. Pinheiro</i>
	Modeling complex Aviation Systems – The Eco-Design Tool EcoSky	To develop a framework for the implementation of Miscanthus-fuelled ESCOs for non-domestic heat in Ireland – state of the art report	Fabricating Selective Elasticity	Collaborative actions, technology and smart design	Physical properties of aqueous mixtures of lignin and calcium hydroxide for their use as insulators in building
	<i>R. Ilg</i>	<i>E. Stilwell & D. O'Sullivan</i>	<i>Maria Paz Gutierrez</i>	<i>I. S. L. Xavier & P. J. Silva Junior</i>	<i>I.C. Garcés, A. Legido, J. L. Legido & J. Garcia</i>
	Recovery Of Roads In Urban Areas: From An Indistinct Feature To A Specific Function	Comparison of working (operating) efficiency of electric and gas heat pump regarding to renewable heat source	The limits of inclusive design in the current design practice	Sustainable Supply Chain and Collaboration: what is the link and what are the benefits?	Controlling the properties of Materials manufactured using Recycled PVC
	<i>A. Annunziata & F. Annunziata</i>	<i>D. Rajković & M. Sentić</i>	<i>E. Zitkus, P. Langdon & P.J. Clarkson</i>	<i>Y. Dwi, I. Nouaouri, H. Allaoui & G. Goncalves</i>	<i>C.M.Pratt, F.J. Davis & G.R. Mitchell</i>
				A method to select best nuggets from eco-innovation sessions	
				<i>F. Vallet, B. Tyl, D. Millet & B. Eynard</i>	
13:00					
13:00	Lunch Break				
14:15					
14:15	Sustainable work for a human centred manufacturing				
15:00	<i>Marco Santochi</i>				
15:00	Envisaging sustainable globalization				
15:45	<i>Francesco Jovane</i>	Coffee Break			
15:45					
16:00					
16:00	Eco Design and Innovation	Energy Efficiency	Green and Smart Manufacturing	Smart Materials	
	New visions in the manufacturing design – Jewels as Multiples	Spectral Shifters for an enhanced Indoor Environment	Compressed air system assessment for machine tool monitoring	Advanced smart polymer/nanographite composites for environmental pollution control	
	<i>Chiara Scarpitti</i>	<i>Geoffrey R Mitchell & Fred J Davis</i>	<i>A. Gontarz, P. Bosshard, K.Wegener & L. Weiss</i>	<i>M. Knite, J. Zavickis, G. Sakale, K. Ozols & A. Linarts</i>	
	Additive manufacturing as a social inclusion tool	Electrical energy analysis and potential environmental improvements of sheet metal punching processes	Crop rotation and association design for N budgeting in organic dairy farms	Photocatalytic degradation of textile effluent using ZnO/NaX and ZnO/AC under solar radiation	
	<i>G.M. Bem, R.T. Pupo, A.T.C. Pereira</i>	<i>G. Ingarao, K. Kellens, R. Renaldi, W. Dewulf & J.R. Duflou</i>	<i>G. Bukvić, R. Gantner, Z. Steiner & K. Karalić</i>	<i>T.M.P. Schmidt, F.R. Soares, V. Slusarski-Santana, F.F. Brites-Nóbrega & N.R.C. Fernandes-Machado</i>	
	Patterns of sustainability in textile design use of traditional technologies	A linear reciprocating thermomagnetic motor powered by water heated using solar energy	System –based analysis of environmental effects of liquid food packaging	New patent on nanomaterials for preserving stone and wood structures	
	<i>A. Rusu</i>	<i>L. D. R. Ferreira, C. V. X. Bessa, I. Silva & S. Gama</i>	<i>Bogóné-Tóth, Zs. & Lakner, Z.</i>	<i>Santina Di Salvo</i>	
	Eco-design concept manual as a web tool to reduce the impact of a product on the environment	Optimalmould Energy Consumption in Injection Moulding Optimization	Rapid Construction with Functionally Graded Designs	Biomimetic materials for design	
	<i>Z. Tončíková</i>	<i>Carina Ramos, Pedro Carreira, Paulo Bártoło, Igor Reis, Lina Durão & Nuno Alves</i>	<i>F. Craveiro, H. Almeida, L. Durão, H. Bártoło & P. Bártoło</i>	<i>L. Pietroni & J. Mascitti</i>	
		Prototypelab 2012: Mass-customization of energy self-sufficient prototypes and less environmental impact through improved parametric tools, sensors and CNC technology		Novel plastics for sustainable building design	
		<i>J. Ballesteros & P. Ferreira</i>		<i>Geoffrey R Mitchell</i>	
18:00					



SIM2013
25 to 28 Jun



Thursday - 27 June 2013				
	Main Auditorium	Auditorium 1	Auditorium 2	Auditorium 3
09:00	Design Prototyping = Design Construction <i>Lawrence Sass</i>			
09:50				
09:55	Interactive facades and the future of spatial media <i>Robert Kemp</i>			
10:45				
10:45	Coffee Break			
11:00	Eco Design and Innovation	Green and Smart Manufacturing	Green Transportation	Renewable Energy Technologies
	Self-building process: living the crisis in a sustainable way <i>F. Pugnaroni, E. Bellu & M. Giovanelli</i>	Synthetic Manufacturing – Resilient Modular Systems (RMS) <i>Wendy W Fok</i>	New York City blue network: water as liquid state of earth <i>M. Louro & F. Oliveira</i>	Removal of cadmium from aqueous solutions by adsorption on Jatropha biomass <i>H. Nacke, A. C. Gonçalves Jr., G. F. Coelho, L. Strey, D. Schwantes & A. Laufer</i>
	A visual impaired children photography’s catalogue as an inclusive tool <i>A. P. P. Demarchi, B. M. Rizardi, G. Pires & C. B. R. Fornasier</i>	Influencing variables on sustainability in additive manufacturing <i>S. Junk & S. Côté</i>	An Innovative Six Sigma and Lean Manufacturing Approach for Environmental Friendly Shipyard <i>L. BILGILI, D. DELI & U.B. CELEBI</i>	Guidelines for redesign a commercially available product: The case of a split air conditioning unit <i>P.N. Botsaris</i>
	Door’s design for people with mobility impairments and service dogs <i>C. P. Carvalho, A. B. Magalhães, J. B. Pedro & L. de Sousa</i>	Environmental aspects of lightweight construction in mobility and manufacturing <i>S. Albrecht, M. Baumann, C. P. Brandstetter, R. Horn, H. Krieg, M. Fischer & R. Ilg</i>	Life Cycle Assessment Approach of Waste Management for Ship Operation <i>L. Bilgili & U.B. Celebi</i>	System of thermal energy accumulation in a soil layer in a combination with wind energy <i>A.V. Bunyakin</i>
	Designing innovation with craft-evolution to develop sustainability <i>E Aparo, L Soares & H. Santos-Rodrigues</i>	Package Design for frozen foods - principles for sustainability <i>R.A. Delfino, L.C. Paschoarelli & R. Frazão</i>	An Innovative Method Establishment for a Green Shipyard Concept <i>L. Bilgili & U.B. Celebi</i>	Natural ventilation potential on thermal comfort of a light-steel-framing residential building <i>A. Craveiro, A. Gameiro Lopes, P. Santos & L. Simões da Silva</i>
	Back to craft <i>E. Karanastasi, M. Moelee, S. Alexopoulou, M. Kardarakou, M. Nikolakaki, A. Papadopoulou, X. Papatriantafyllou & A. Terezaki</i>	A Study of Injection Moulding with Bismuth Alloy <i>A. Kus, E. Unver, B. Jagger & I. Durgun</i>	Sustainable mobility <i>António Costa, Toyota Portugal</i>	Analysis of the Ethanol production chain in the State of Rio Grande do Sul, Brazil: a study based on system’s dynamics with a view for exploring scenarios <i>A. Longhi, G. L. R. Vaccaro, T. Fleck, K. Roos, D. C. Azevedo & M. H. C. Moutinho</i>
13:00				
13:00	Lunch Break			
14:15				
14:15	Leiria			
18:00				

Friday - 28 June 2013

	Main Auditorium	Auditorium 1	Auditorium 2	Auditorium 3	Auditorium 4
09:00 09:50	Energy and resource efficient manufacturing: a multi-strategy approach <i>Joost Duflou</i>				
09:55 10:45	Nanotechnology: Science or Fiction? <i>Paulo Ferreira</i>				
10:45 11:00	Coffee Break				
11:00	Energy Efficiency	Life-Cycle Engineering	Reuse and Recycling Techniques	Smart Design	Smart Materials
	A bottom-up perspective upon climate change – approaches towards the local scale and microclimatic assessment <i>A. Santos Nouri</i>	Manufacturing Renaissance: Return of manufacturing to western countries <i>B. Kianian, T.C. Larsson & M.H. Tavassoli</i>	Use of bark of Pinus elliottii as a biosorbent in the removal of glyphosate from aqueous solutions <i>L. Strey, A. C. Gonçalves Jr., G. Coelho, D. Schwantes, H. Nacke & C. R. T. Tarley</i>	Freeform 3D Printing: Towards a Sustainable Approach to Additive Manufacturing <i>N. Oxman, J. Laucks, M. Kayser, E. Tsai & M. Firstenberg</i>	Behavior of High Strength Concrete with Raw Rice Husk Exposed to High Temperature Effect <i>B. Ucakosar, N. Yuzer & N.Kabay</i>
	Energy Price Differential and Industrial Production Growth in Mexico: A Wavelet Approach <i>Gazi Salah Uddin, Sanjib Chakraborty, Rubayet Hossian & Bo Sjö</i>	Life-cycle Management of High-performance and Sustainable Buildings Based on Enterprise Modeling Method <i>Y.M. Shao</i>	Kinetics, equilibrium and thermodynamics of the adsorption process of lead using cassava industry wastes <i>D. Schwantes, A. C. Gonçalves Jr., L. Strey, V. Schwantes & H. Nacke</i>	The haptic/ visual image as an inclusive tool <i>A.P. P. Demarchi, B. S. Pozzi & C. B. R. Fornasier</i>	Transparent and sustainable materials <i>A. Lanza Volpe</i>
	Daylighting and ventilation in energy efficient factories <i>K. Klimke, T. Rössel, P. Vohlidka & H. Riemer</i>	Set up of an European LCA Building Rating Methodology within the Open House Project <i>J. Gantner, K. Lenz & H. Krieg</i>	Design of experimental composting of animal carcasses in university unit of treatment aimed a correct final disposition and soil improve <i>J.C.L. Fonseca, M.R.R. Marchi, L.T. Braz, A.A. Cecilio & L.V.S. Sacramento</i>	The Industrial Engineering: Sustainable Factor in the Process <i>A. Vargas & J. A. Loreda</i>	Particle Model for Orange Peel Pyrolysis <i>J. A. Rodríguez, J. A. Loreda & R. C. Miranda</i>
	Environmental quickscans as a decision supporting tool – Scanning the embodied energy of different fibre treatments in the development of biocomposite building products <i>E.E. Keijzer</i>	Evaluating the impact of glass and PET packaging for bottled water <i>H.A. Almeida, C.A. Ramos, H. Bártolo & P.J. Bártolo</i>	Adaptation of the creativity tool ASIT to support eco-ideation phases <i>B. Tyl, J. Legardeur, D. Millet & F. Vallet</i>	Digital fabrication and rapid prototyping as a generative process <i>Filipe Coutinho, Mário Kruger & José P. Duarte</i>	Phase Change Materials as a tool for Climate Change Mitigation <i>Ana. P Viera, Helena Bártolo, Geoffrey R Mitchell & Paulo Bártolo</i>
				Digital manufacture: Robotic CAD/CAM protocol for low cost housing <i>Vasco Portugal</i>	
13:00					
13:00 14:15	Lunch Break				
14:15 15:00	Rethink the design for the sustainable innovation <i>Mario Buono</i>				
15:00 15:45	Practice in sustainable automotive manufacturing <i>Giuseppe D'Angelo</i>				
15:45 16:00	Coffee Break				
16:00	Eco Design and Innovation	Green and Smart Manufacturing	Sustainable Business Models	Sustainable Construction	
	Sustainability @ Portugal Telecom <i>Teresa Salema, Portugal Telecom</i>	A step towards sustainable machining through increasing the cutting tool utilization <i>F. Schultheiss, J.M. Zhou, E. Gröntoft & J.-E. Ståhl</i>	Multi-criteria evaluation of reaction to the economic recession in modernization of multi-apartment buildings <i>L. Kelpsiene & M.L. Matuseviciene</i>	3 Scales of Repurposed Disposability – Construction, Renovation, and Demolition (CRD) <i>Wendy W Fok</i>	
	Communicating effectively in writing: issues and strategies for engineers <i>L. Nazarenko & G. Schwarz-Peaker</i>	Natural Aspect of Sustainable Food and Cosmetics Manufacturing <i>K. Kyriakopoulou, S. Papadaki & M. Krokida</i>	Sustainable development and business: Past and Future <i>M. Leščevica</i>	Towards Zero Energy House Integrated Design: Parametric Formwork for Capillary Systems in Precast Concrete Panels <i>Christopher Beorkrem & Mona Azarbayjani</i>	
	In Direction to Sustainable Eco Resorts <i>C. Alho & J.C. Pina</i>	Cobalt and manganese recovery from spent industrial catalysts by hydrometallurgy <i>D. Fontana & F. Forte</i>	Assessment of the costs and benefits of environmental investment <i>Mohamed E. Hussein, Gim S. Seow & Kinsun Tam</i>	Sustainable design of prefabricated solutions for the rehabilitation of ancient buildings <i>A. C. Coelho, J. M. Branco, P. B. Lourenço & H. Gervásio</i>	
	The Meaning of Public Spaces <i>M. Hanzl</i>	The Olivetti factory as a paradigm of sustainable growth <i>F. Castanò & A. Gallo</i>	Corporate sustainability measurement in Portuguese manufacturing organizations <i>Pedro Mamede & Carlos F. Gomes</i>	Architectural rehabilitation and NZEB: the expansion of the Library of FDUL <i>A.P. Pinheiro</i>	
	Urban Nomads - Smart and Flexible Design Strategies for a Sustainable Future <i>Nicoline Loeper & Matthias Ott</i>	Disruptive innovation and learning to create architectural forms <i>L.S. Leite; A.T.C. Pereira & R. Pupo</i>	An economic approach on the urban development of squatter settlements in hillsides high-risk areas <i>S. R. Soares & S. T. Moraes</i>	Smart Technology for the passive house <i>S. Vattano</i>	
18:00					

Saturday - 29 June 2013				
	Main Auditorium	Auditorium 1	Auditorium 2	Auditorium 3
09:00	Design Democracy <i>Branko Kolarevic</i>			
09:50				
09:55	Challenges and technologies of the city of tomorrow <i>Klaus Sedbauer</i>			
10:45				
10:45	Coffee Break			
11:00	Life-Cycle Engineering	Sustainable Construction	Smart Design	Sustainable Business Models
	Assessment tool for building materials <i>S. Vasconcelos, C. Alho & B. Müller</i>	New paradigms in post-hydrological disaster shelter practice; hydrological disasters & informal urban settlements – An insoluble problem? <i>J. Lacey & A. Read</i>	Robotically Controlled Fiber-based Manufacturing as Case Study for Biomimetic Digital Fabrication <i>N. Oxman, M. Kayser, J. Laucks & M. Firstenberg</i>	Integrated environmental and economic assessment in the construction sector <i>H. Krieg, S. Albrecht, J. Gantner & W. Fawcett</i>
	Environmental Management and use of the water in Food Service Segment: the Life Cycle Assessment as a tool for a sustainable development <i>M.S. Lourenço, S.R.R. Costa, M.L. Nunes, L.S. Xavier & J.A.A. Peixoto</i>	On- demand post-disaster emergency shelters <i>M. Tafahomi</i>	Climate change adaptation and strategies: an overview <i>A. Santos Nouri & M. Matos Silva</i>	Parametric Places 22@: Smart Urban Analysis Tools and Place Brand-ing Value <i>P. Speranza</i>
	Objective Monetization of Environmental Impacts <i>H. Krieg, S. Albrecht, M. Jäger & J. Gantner</i>	Sustainable by Nature <i>Carlos Manuel, AISOL, Group Amorim</i>	Space time information on display: smart devices and spatial cognition <i>D.P. Henriques</i>	Collaborative Development of Advanced Manufacturing Technologies <i>José Carlos Caldeira, Productech Cluster</i>
	Process chain analysis of lightweight metal components – A case study <i>R. Ilg & D. Wehner</i>	Mass customization of ceramic tableware through digital technology <i>Eduardo Castro e Costa & José Pinto Duarte</i>	Architectural fabrication of tensile structures with flying machines <i>A. Mirjan, F. Gramazio, M. Kohler, F. Augugliaro & R. D'Andrea</i>	Implementing Concurrent Engineering in the Construction Industry: A different approach for a better consideration of users <i>X. Latortue & S. Minel</i>
		Improving urban environment with green roofs <i>G. Darázs & I. Hajdu</i>		Secure e-Manufacturing: Here there and everywhere <i>D. Meehan</i>
13:00				Exploring Green IT and Green IS: insights from a case study in Brazil <i>T. A. Viaro & G. L. R. Vaccaro</i>
13:00	Closing Ceremony			
14:15				