

	Main Auditorium	Auditorium 1	26-Jun-13 Auditorium 2	Auditorium 3	Auditorium 4
08:00 08:45	Conference Registration				
08:45 09:00	Opening Session				
09:00 09:50	Rivka Oxman				
09:55 10:45	Gabriela Celani				
10:45 11:00	Coffee Break				
11:00 13:00	<p>Chair: <b>Green Transportation</b></p> <p>Life Cycle Assessment Approach of Waste Management for Ship Operation <i>L. Bilgili &amp; U.B. Celebi</i></p> <p>An Innovative Method Establishment for a Green Shipyard Concept <i>L. Bilgili &amp; U.B. Celebi</i></p> <p>Systematic Approach of Upscaling Aircraft Parts and Sub-Modules to Aircraft Level <i>R. Ilg</i></p> <p>Social sustainability: a key concern for the recovery of urban roads <i>A. Annunziata</i></p>	<p>Chair: <b>Renewable Energy Technologies</b></p> <p>Use of Jathropa biomass for adsorption of glyphosate in water <i>H. Nacke, A. C. Gonçalves Jr., D. Schwantes, G. F. Coelho, Silva. M. R. &amp; Pinheiro. A.</i></p> <p>Investigation of the feasibility of constructing a biofuel plant in the region of North Evros <i>A.N. Papadopoulos &amp; M. Tsatiris</i></p> <p>Modeling of multi-assortment production of CO<sub>2</sub>-extract's <i>E.P.Koshevoy, V.S. Kosachev, V.U.Chundyshko &amp; N.N. Latin</i></p> <p>To develop a framework for the implementation of Miscanthus-fuelled ESCOs for non-domestic heat in Ireland – state of the art report <i>E. Stilwell &amp; D. O'Sullivan</i></p> <p>Comparison of working (operating) efficiency of electric and gas heat pump regarding to renewable heat source <i>D. Rajković &amp; M. Sentić</i></p>	<p>Chair: <b>Smart Design</b></p> <p>Mass customization of ceramic tableware through digital technology <i>Eduardo Castro e Costa &amp; José Pinto Duarte</i></p> <p>How to design smart-buildings without smart-people? <i>Marie-Christine Zélem</i></p> <p>Designing a sustainable and healthy living environment with smart technology <i>J.H. Lan</i></p> <p>Fabricating Selective Elasticity <i>Maria Paz Gutierrez</i></p> <p>Rapid Construction with Functionally Graded Designs <i>F. Craveiro, H. Almeida, L. Durão, H. Bártolo &amp; P. Bártolo</i></p>	<p>Chair: <b>Sustainable Business Models</b></p> <p>Corporate sustainability measurement in Portuguese manufacturing organizations <i>Pedro Mamede &amp; Carlos F. Gomes</i></p> <p>Managerial decision support tools for sustainable actions <i>M. Dolinsky &amp; V. Dolinska</i></p> <p>Eco-efficiency in Six Small and Medium Enterprises in Mexico <i>L. Iturbide, P. Lozoya &amp; P. Baptista</i></p> <p>Collaborative actions, technology and smart design <i>I. S. L. Xavier &amp; P. J. Silva Junior</i></p> <p>Sustainable Supply Chain and Collaboration: what is the link and what are the benefits? <i>Y. Dwi, I. Nouaouri, H. Allaoui &amp; G. Goncalves</i></p>	<p>Chair: <b>Reuse and Recycling Techniques</b></p> <p>Kinetics, equilibrium and thermodynamics of cadmium adsorption by a biosorbent from the bark of Pinus eliottii <i>L. Strey, A. C. Gonçalves Jr., D. Schwantes, G. F. Coelho, H. Nacke &amp; D. C. Dragunski</i></p> <p>Equilibrium of the adsorption process of Glyphosate using wastes from the cassava industry <i>D. Schwantes, A. C. Gonçalves Jr., G. F. Coelho, J. Casarin, J. R. Stangarlin &amp; A. Pinheiro</i></p> <p>Waste prevention and reuse of synthetic textiles: a case study in a Brazilian garment industry <i>S. B. Martins, C. P. Sampaio &amp; U. Perez</i></p> <p>Adaptation of the creativity tool ASIT to support eco-ideation phases <i>B. Tyl, J. Legardeur, D. Millet &amp; F. Vallet</i></p> <p>Controlling the properties of Materials manufactured using Recycled PVC <i>C.M.Pratt, F.J. Davis &amp; G.R. Mitchell</i></p>
13:00 14:15	Lunch Break				
14:15 15:00	Marco Santochi				
15:00 15:45	Francesco Jovane				
15:45 16:00	Coffee Break				
16:00 18:00	<p>Chair: <b>Eco Design and Innovation</b></p> <p>New visions in the manufacturing design – Jewels as Multiples <i>Chiara Scarpitti</i></p> <p>Additive manufacturing as a social inclusion tool <i>G.M. Bem, R.T. Pupo, A.T.C. Pereira</i></p> <p>Avieiro Boat – its recovery as a strategic factor for a sustainable development process <i>C. Barbosa</i></p> <p>Sustainable design for furniture and wood products <i>P. Browne &amp; P. Tobin</i></p> <p>Patterns of sustainability in textile design use of traditional technologies <i>A. Rusu</i></p> <p>Eco-design concept manual as a web tool to reduce the impact of a product on the environment <i>Z. Tončíková</i></p>	<p>Chair: <b>Energy Efficiency</b></p> <p>Electrical energy analysis and potential environmental improvements of sheet metal punching processes <i>G. Ingarao, K. Kellens, R. Renaldi, W. Dewulf &amp; J.R. Dufflou</i></p> <p>Energy Utilization and Output Dynamics in Bangladesh <i>Gazi Salah Uddin, Shair Razin, Ahmed Taneem Muzaffar &amp; Phouphet Kyophilavong</i></p> <p>Improving sustainability in healthcare with better space design quality <i>M. F. Castro, R. Mateus &amp; L. Bragança</i></p> <p>A linear reciprocating thermomagnetic motor powered by water heated using solar energy <i>L. D. R. Ferreira, C. V. X. Bessa, I. Silva &amp; S. Gama</i></p> <p>Prototypelab 2012: Mass-customization of energy self-sufficient prototypes and less environmental impact through improved parametric tools, sensors and CNC technology <i>J. Ballesteros &amp; P. Ferreira</i></p> <p>Optimalmould   Energy Consumption in Injection Moulding Optimization <i>Carina Ramos, Pedro Carreira, Paulo Bártolo, Igor Reis, Lina Durão &amp; Nuno Alves</i></p>	<p>Chair: <b>Green and Smart Manufacturing</b></p> <p>Compressed air system assessment for machine tool monitoring <i>A. Gontarz, P. Bosshard, K.Wegener &amp; L. Weiss</i></p> <p>Crop rotation and association design for N budgeting in organic dairy farms <i>G. Bukvić, R. Gantner, Z. Steiner &amp; K. Karalić</i></p> <p>System –based analysis of environmental effects of liquid food packaging <i>Bogáné-Tóth, Zs. &amp; Lakner, Z.</i></p> <p>Computer aided feature recognition in free form parts <i>H.M.A. Hussein &amp; H.M. Mousa</i></p> <p>Intelligent fixture planning system for prismatic parts <i>Abdulrahman Al-Ahmari, Emad Abouel Nasr, Awais A. Khan &amp; Ali Kamrani</i></p>	<p>Chair: <b>Smart Materials</b></p> <p>Advanced smart polymer/nanographite composites for environmental pollution control <i>M. Knite, J. Zavickis, G. Sakale, K. Ozols &amp; A. Linarts</i></p> <p>Photocatalytic degradation of textile effluent using ZnO/NaX and ZnO/AC under solar radiation <i>T.M.P. Schimidt, F.R. Soares, V. Slusarski-Santana, F.F. Brites-Nóbrega &amp; N.R.C. Fernandes-Machado</i></p> <p>New patent on nanomaterials for preserving stone and wood structures <i>Santina Di Salvo</i></p> <p>Biomimetic materials for design <i>L. Pietroni &amp; J. Mascitti</i></p> <p>Comparison of residue of cassava industry modified and “in natura” for adsorption of methylene blue dye <i>R.B. Pardino, J. Caetano, J. Casarin, A. C. Gonçalves Jr., L.F. Bonfim Jr. &amp; D. C. Dragunski</i></p> <p>Novel plastics for sustainable building design <i>Geoffrey R Mitchell</i></p>	

27-Jun-13

	Main Auditorium	Auditorium 1	Auditorium 2	Auditorium 3
09:00 09:50	Larry Sass			
09:55 10:45	Robert Kemp			
10:45 11:00	Coffee Break			
11:00 13:00	<div>Eco Design and Innovation</div> <div>Chair:</div> <div>Self-building process: living the crisis in a sustainable way</div> <div>F. Pugnaroni, E. Bellu &amp; M. Giovanelli</div> <div>A visual impaired children photography’s catalogue as an inclusive tool</div> <div>A. P. P. Demarchi, B. M. Rizardi, G. Pires &amp; C. B. R. Fornasier</div> <div>Door’s design for people with mobility impairments and service dogs</div> <div>C. P. Carvalho, A. B. Magalhães, J. B. Pedro &amp; L. de Sousa</div> <div>Designing innovation with craft-evolution to develop sustainability</div> <div>E Aparo, L Soares &amp; H. Santos-Rodrigues</div> <div>Back to craft</div> <div>E. Karanastasi, M. Moelee, S. Alexopoulou, M. Kardarakou, M. Nikolakaki, A. Papadopoulos, X. Papatriantafyllou &amp; A. Terezaki</div>	<div>Green and Smart Manufacturing</div> <div>Chair:</div> <div>Synthetic Manufacturing – Resilient Modular Systems (RMS)</div> <div>Wendy W Fok</div> <div>Influencing variables on sustainability in additive manufacturing</div> <div>S. Junk &amp; S. Côté</div> <div>Environmental aspects of lightweight construction in mobility and manufacturing</div> <div>S. Albrecht, M. Baumann, C. P. Brandstetter, R. Horn, H. Krieg, M. Fischer &amp; R. Ilg</div> <div>Strategic Sustainability through a Product Development Tool</div> <div>Polin Kumar Saha</div> <div>Package Design for frozen foods - principles for sustainability</div> <div>R.A. Delfino, L.C. Paschoarelli &amp; R. Frazão</div>	<div>Green Transportation</div> <div>Chair:</div> <div>New York City blue network: water as liquid state of earth</div> <div>M. Louro &amp; F. Oliveira</div> <div>An Innovative Six Sigma and Lean Manufacturing Approach for Environmental Friendly Shipyard</div> <div>L. BILGILI, D. DELI &amp; U.B. CELEBI</div> <div>Modeling complex Aviation Systems – The Eco-Design Tool EcoSky</div> <div>R. Ilg</div> <div>Recovery Of Roads In Urban Areas: From An Indistinct Feature To A Specific Function</div> <div>A. Annunziata &amp; F. Annunziata</div>	<div>Renewable Energy Technologies</div> <div>Chair:</div> <div>Removal of cadmium from aqueous solutions by adsorption on Jatropha biomass</div> <div>H. Nacke, A. C. Gonçalves Jr., G. F. Coelho, L. Strey, D. Schwantes &amp; A. Laufer</div> <div>Guidelines for redesign a commercially available product: The case of a split air conditioning unit</div> <div>P.N. Botsaris</div> <div>System of thermal energy accumulation in a soil layer in a combination with wind energy</div> <div>A.V. Bunyakin</div> <div>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</div> <div>A. Longhi, G. L. R. Vaccaro, T. Fleck, K. Roos, D. C. Azevedo &amp; M. H. C. Moutinho</div> <div>Natural ventilation potential on thermal comfort of a light-steel-framing residential building</div> <div>A. Craveiro, A. Gameiro Lopes, P. Santos &amp; L. Simões da Silva</div>
13:00 14:15	Lunch Break			
14:15 18:00	Leiria			

Main Auditorium		Auditorium 1		28-Jun-13 Auditorium 2		Auditorium 3		Auditorium 4	
09:00 09:50	<div>Joost Duflou</div>								
09:55 10:45	<div>Paulo Ferreira</div>								
10:45 11:00	Coffee Break								
11:00 13:00	<div>Chair: Energy Efficiency</div> <div>A bottom-up perspective upon climate change – approaches towards the local scale and microclimatic assessment</div> <div>A. Santos Nouri</div> <div>Energy Price Differential and Industrial Production Growth in Mexico: A Wavelet Approach</div> <div>Gazi Salah Uddin, Sanjib Chakraborty, Rubayet Hossian &amp; Bo Sjö</div> <div>Daylighting and ventilation in energy efficient factories</div> <div>K. Klimke, T. RösseI, P. Vohlidka &amp; H. Riemer</div> <div>Environmental quickscans as a decision supporting tool – Scanning the embodied energy of different fibre treatments in the development of biocomposite building products</div> <div>E.E. Keijzer</div> <div>Spectral Shifters for an enhanced Indoor Environment</div> <div>Geoffrey R Mitchell &amp; Fred J Davis</div>	<div>Chair: Life-Cycle Engineering</div> <div>Manufacturing Renaissance: Return of manufacturing to western countries</div> <div>B. Kianian, T.C. Larsson &amp; M.H. Tavassoli</div> <div>Life-cycle Management of High-performance and Sustainable Buildings Based on Enterprise Modeling Method</div> <div>Y.M. Shao</div> <div>Set up of an European LCA Building Rating Methodology within the Open House Project</div> <div>J. Gantner, K. Lenz &amp; H. Krieg</div> <div>Evaluating the impact of glass and PET packaging for bottled water</div> <div>H.A. Almeida, C.A. Ramos, H. Bártolo &amp; P.J. Bártolo</div>	<div>Chair: Reuse and Recycling Techniques</div> <div>Use of bark of Pinus elliottii as a biosorbent in the removal of glyphosate from aqueous solutions</div> <div>L. Strey, A. C. Gonçalves Jr., G. Coelho, D. Schwantes, H. Nacke &amp; C. R. T. Tarley</div> <div>Kinetics, equilibrium and thermodynamics of the adsorption process of lead using cassava industry wastes</div> <div>D. Schwantes, A. C. Gonçalves Jr., L. Strey, V. Schwantes &amp; H. Nacke</div> <div>Design of experimental composting of animal carcasses in university unit of treatment aimed a correct final disposition and soil improve</div> <div>J.C.L. Fonseca, M.R.R. Marchi, L.T. Braz, A.A. Cecilio &amp; L.V.S. Sacramento</div> <div>EIA implementation and follow up: a case study of Koga irrigation pro-ject- Ethiopia</div> <div>Wubneh B. Abebe &amp; M. McCartney</div> <div>Reducing Packaging Waste by GIS Applications</div> <div>Adrián Horváth, Ákos Mojzes &amp; Gábor Takács</div>	<div>Chair: Smart Design</div> <div>Freeform 3D Printing: Towards a Sustainable Approach to Additive Manufacturing</div> <div>N. Oxman, J. Laucks, M. Kayser, E. Tsai &amp; M. Firstenberg</div> <div>Digital fabrication and rapid prototyping as a generative process</div> <div>Filipe Coutinho, Mário Kruger &amp; José P. Duarte</div> <div>Digital manufacture: Robotic CAD/CAM protocol for low cost housing</div> <div>Vasco Portugal</div> <div>The haptic/ visual image as an inclusive tool</div> <div>A.P. P. Demarchi, B. S. Pozzi &amp; C. B. R. Fornasier</div> <div>An irregular discretization process for climate-responsive façades</div> <div>E.Vermisso, M.Thitisawat &amp; M.Feldsberg</div>	<div>Chair: Smart Materials</div> <div>Behavior of High Strength Concrete with Raw Rice Husk Exposed to High Temperature Effect</div> <div>B. Ucarikosar, N. Yuzer &amp; N.Kabay</div> <div>Transparent and sustainable materials</div> <div>A. Lanza Volpe</div> <div>Particle Model for Orange Peel Pyrolysis</div> <div>J. A. Rodríguez, J. A. Loredo &amp; R. C. Miranda</div> <div>Use of films based starch and casein for conservation of guavas (Psidium guajava)</div> <div>L.F. Bonfim Jr., A.R. Lopes, D.C. Dragunski, J. Casarin, A.C. Gonçalves Jr. &amp; J. Caetano</div> <div>Phase Change Materials as a tool for Climate Change Mitigation</div> <div>Ana. P Viera, Helena Bártolo, Geoffrey R Mitchell &amp; Paulo Bártolo</div>				
13:00 14:15	Lunch Break								
14:15 15:00	<div>Mario Buono</div>								
15:00 15:45	<div>Giuseppe D'Angelo</div>								
15:45 16:00	Coffee Break								
16:00 18:00	<div>Chair: Eco Design and Innovation</div> <div>Communicating effectively in writing: issues and strategies for engineers</div> <div>L. Nazarenko &amp; G. Schwarz-Peaker</div> <div>The Olivetti factory as a paradigm of sustainable growth</div> <div>F. Castanò &amp; A. Gallo</div> <div>Disruptive innovation and learning to create architectural forms</div> <div>L.S. Leite; A.T.C. Pereira &amp; R. Pupo</div> <div>In Direction to Sustainable Eco Resorts</div> <div>C. Alho &amp; J.C. Pina</div> <div>The Meaning of Public Spaces</div> <div>M. Hanzl</div> <div>Urban Nomads - Smart and Flexible Design Strategies for a Sustainable Future</div> <div>Nicoline Loeper &amp; Matthias Ott</div>	<div>Chair: Green and Smart Manufacturing</div> <div>A step towards sustainable machining through increasing the cutting tool utilization</div> <div>F. Schultheiss, J.M. Zhou, E. Grönroft &amp; J.-E. Ståhl</div> <div>Natural Aspect of Sustainable Food and Cosmetics Manufacturing</div> <div>K. Kyriakopoulou, S. Papadaki &amp; M. Krokida</div> <div>Cobalt and manganese recovery from spent industrial catalysts by hydrometallurgy</div> <div>D. Fontana &amp; F. Forte</div> <div>A Study of Injection Moulding with Bismuth Alloy</div> <div>A. Kus, E. Unver, B. Jagger &amp; I. Durgun</div> <div>Automated feature extraction from cylindrical parts based on STEP</div> <div>A.M.A. Al-Ahmari, H. M. A. Hussein, Emad Abouel Nasr &amp; Awis Khan</div> <div>Set up planning for automatic generation of inspection plan</div> <div>Emad Abouel Nasr, Abdulrahman Al-Ahmari, Osama Abdulhameed &amp; Syed Hammad Mian</div>	<div>Chair: Sustainable Business Models</div> <div>Multi-criteria evaluation of reaction to the economic recession in modernization of multi-apartment buildings</div> <div>L. Kelpsiene &amp; M.L. Matuseviciene</div> <div>Sustainable development and business: Past and Future</div> <div>M. Leščevica</div> <div>An economic approach on the urban development of squatter settlements in hillsides high-risk areas</div> <div>S. R. Soares &amp; S. T. Moraes</div> <div>Sustainable supply chain management: a systematic literature review about sustainable practices taken by focal companies</div> <div>A.M. Nascimento &amp; R.L.C. Alcantara</div> <div>Assessment of the costs and benefits of environmental investment</div> <div>Mohamed E. Hussein, Gim S. Seow &amp; Kinsun Tam</div> <div>A method to select best nuggets from eco-innovation sessions</div> <div>F. Vallet, B. Tyl, D. Millet &amp; B. Eynard</div>	<div>Chair: Sustainable Construction</div> <div>3 Scales of Repurposed Disposability – Construction, Renovation, and Demolition (CRD)</div> <div>Wendy W Fok</div> <div>Towards Zero Energy House Integrated Design: Parametric Formwork for Capillary Systems in Precast Concrete Panels</div> <div>Christopher Beorkrem &amp; Mona Azarbayjani</div> <div>Sustainable design of prefabricated solutions for the rehabilitation of ancient buildings</div> <div>A. C. Coelho, J. M. Branco, P. B. Lourenço &amp; H. Gervásio</div> <div>Architectural rehabilitation and NZEB: the expansion of the Library of FDUL</div> <div>A.P. Pinheiro</div> <div>Smart Technology for the passive house</div> <div>S. Vattano</div> <div>Self-sustaining home: Design liaises technology</div> <div>Jan-Michael Werner</div>					

29-Jun-13

	Main Auditorium	Auditorium 1	Auditorium 2	Auditorium 3
09:00 09:50	<div>Branko Kolarevic</div>			
09:55 10:45	<div>Klaus Sedbauer</div>			
10:45 11:00	Coffee Break			
11:00 13:00	<div>Chair: Life-Cycle Engineering</div> <div>Assessment tool for building materials S. Vasconcelos, C. Alho &amp; B. Müller</div> <div>Environmental Management and use of the water in Food Service Segment: the Life Cycle Assessment as a tool for a sustainable development M.S. Lourenço, S.R.R. Costa, M.L. Nunes, L.S. Xavier &amp; J.A.A. Peixoto</div> <div>Objective Monetization of Environmental Impacts H. Krieg, S. Albrecht, M. Jäger &amp; J. Gantner</div> <div>Process chain analysis of lightweight metal components – A case study R. Ilg &amp; D. Wehner</div>	<div>Chair: Sustainable Construction</div> <div>Opportunity to complement Vitoria-Gasteiz’s green network, using the roofs of public facility buildings Elena Basanta Carmona</div> <div>Harnessing advances in eco-innovation to achieve resource efficient cities P. Vandergert, S. Sandland, D. Newport &amp; P. van den Abeele</div> <div>New paradigms in post-hydrological disaster shelter practice; hydrological disasters &amp; informal urban settlements – An insoluble problem? J. Lacey &amp; A. Read</div> <div>Improving urban environment with green roofs G. Darázs &amp; I. Hajdu</div> <div>On- demand post-disaster emergency shelters M Tafahomi</div>	<div>Chair: Smart Design</div> <div>Robotically Controlled Fiber-based Manufacturing as Case Study for Biomimetic Digital Fabrication N. Oxman, M. Kayser, J. Laucks &amp; M. Firstenberg</div> <div>Climate change adaptation and strategies: an overview A. Santos Nouri &amp; M. Matos Silva</div> <div>Space time information on display: smart devices and spatial cognition D.P. Henriques</div> <div>The limits of inclusive design in the current design practice E. Zitkus, P. Langdon &amp; P.J. Clarkson</div> <div>Architectural fabrication of tensile structures with flying machines A. Mirjan, F. Gramazio, M. Kohler, F. Augugliaro &amp; R. D’Andrea</div>	<div>Chair: Sustainable Business Models</div> <div>Integrated environmental and economic assessment in the construction sector H. Krieg, S. Albrecht, J. Gantner &amp; W. Fawcett</div> <div>Secure e-Manufacturing: Here there and everywhere D. Meehan</div> <div>Exploring Green IT and Green IS: insights from a case study in Brazil T. A. Viaro &amp; G. L. R. Vaccaro</div> <div>Parametric Places 22@: Smart Urban Analysis Tools and Place Brand-ing Value P. Speranza</div> <div>Implementing Concurrent Engineering in the Construction Industry: A different approach for a better consideration of users X. Latortue &amp; S. Minel</div>
13:00 14:15	Closing Ceremony			