

PLEA\*

DUBLIN

2008

[www.plea2008.org](http://www.plea2008.org)

22nd - 24th October 2008

University College Dublin, Ireland

**\*25th PLEA International Conference**

CONFERENCE PROGRAMME

Wednesday - 22nd October 2008

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
8:00	Registration/Coffee/Tea		
9:15	Opening, Address & Announcements		
10:00	Keynote Presentation (30 min) - A. Tombazis		
10:30	Keynote Presentation (30 min) - Alison Kwok		
11:00	Tea/Coffee		
11:30	Session 1	Session 2	Session 3
	<b>Sustainable Urban Design: The City 1</b>	<b>Design Tools and Technique for the Building and its Fabric</b>	<b>The User and Post-Occupancy Evaluation</b>
	<b>Chair: Hans Rosenlund</b>	<b>Chair: Tamas Csoknyai</b>	<b>Chair: Marco Sala</b>
	<b>316 Urban Tissue: the representation of the Urban Energy Potential</b> Wouter Leduc, Wageningen UR	<b>109 Controlling the temperature structure in a naturally ventilated room with an underfloor air supply system</b> Torwong Chenvidyakarn, University of Cambridge	<b>361 Dutch Research into User Behavior in Relation to Energy Use of Residences</b> Ellie de Groot, TNO Built Environment and Geosciences
	<b>186 Two Models for Sustainable Urban Growth of the Post-industrial City: 'Port City' and 'City Campus'</b> Steffen Lehmann, University of Newcastle, Australia	<b>360 Building Form Generation based on Multiple Performance Envelopes</b> Abraham Yezioro, Faculty of Architecture - Technion IIT	<b>559 Building sensitivity to climatic fluctuations and users' actions: a challenge for high-tech buildings</b> Massimo Palme, Universidad Politécnica de Cataluña
	<b>639 Cities for pedestrians - Urban Mobility fosters Sustainability</b> Oscar Corbella, Universidade Federal do Rio de Janeiro	<b>122 Intelligent facades in hot climates: energy and comfort strategies for successful application</b> Carlos Ochoa, Technion - Israel Institute of Technology	<b>169 Observation-based models of user control actions in buildings</b> Ardeshir Mahdavi, Vienna University of Technology
	<b>147 Urban forms, Life-style, and Energy Consumption: A Case of Bangkok Metropolis.</b> Nopadon Sahachaisaeree, King Mongkut's Institute of Technology Ladkrabang	<b>504 On site evaluation of U-value of opaque building elements: a new methodology</b> Rossano Albatici, University of Trento	<b>324 Post Occupancy Evaluation of non-domestic buildings using draught cooling: Case studies in the US</b> Rosa Schiano-Phan, University of Nottingham
	<b>604 Environmental Urban Design for Central Urban Areas in São Paulo, Brazil</b> Joana Carla Soares Gonçalves, Faculty of Architecture and Urbanism, University of São Paulo, BR	<b>313 Experimental and Numerical Determination of Radiative Properties of Fenestration Systems</b> Antonio Santos, LNEC - Portuguese Nat. Lab. Civil Engineering	<b>649 Thermal Comfort Zone in Daily Life Considering Adjustments by Residents</b> Tamaki Fukazawa, Tokyo Metropolitan University
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
13:00	LUNCH		
14:00	Session 4	Session 5	Session 6
	<b>Sustainable Urban Design: The City 2</b>	<b>Design Tools and Technique in Urban Design</b>	<b>Comfort</b>
	<b>Chair: Gerald Mills</b>	<b>Chair: Murray Milne</b>	<b>Chair: Liliana O Beltran</b>
	<b>578 Spanish-American Urbanism Based on the Laws of the Indies: A Comparative Environmental Study of Eight Cities</b> Jose Manuel Almodovar Melendo, University of Seville	<b>464 Wind quantification in urban environments</b> Sigrid Reiter, Université de Liège	<b>325 Exploring the variation of the desired thermal sensation in tropical climate: A pilot study</b> Vorapat Inkarojrit, Chulalongkorn University

Wednesday - 22nd October 2008 (cont.)

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
	<b>287 Achieving Urban Sustainability through Urban Morphology Analyses and Optimum Ventilation</b> Tung-Shen Hsie, University of Sheffield	<b>107 Simulated Performance of Windcatchers within an Urban Environment</b> Tomas Elizalde, UCL, United Kingdom	<b>650 Evaluating psychological effects of climatic factors in educational environments</b> Farzin Haghparast, Tabriz Islamic Art University
	<b>451 Microclimatic behavior of morphological urban areas in hot dry regions. Towards a definition of adapted indicators. Case study of Beni Isguen.</b> Djenane Moussadek, University Mohamed Kheider, Biskra, Algeria	<b>677 Open Urban Spaces Quality: A study in a historical square in Bath</b> Maria Solange G. de C. Fontes, UNESP	<b>108 The analysis of the role of office space architectural design on occupant physical activity</b> Stamatina Rassaia, University of Cambridge
	<b>642 The CASANOVA district in Bolzano, South Tyrol, Italy</b> Alexandra Troi, EURAC research	<b>644 Energy Efficiency Compared Studies at Masterplan Stage for a New Urban Development in Madrid</b> Francisco Rodriguez, Labein Tecnalia	<b>591 Building Transition Spaces, Comfort and Energy Use</b> Adrian Pitts, Sheffield Hallam University
	<b>368 Sustainable master planning using design grammars</b> Jan Halatsch, Swiss Federal Institute of Technology Zurich	<b>261 Implications of micro-climatic assumptions for predictions of thermal performance of buildings</b> Kristina Orehoung, Vienna University of Technology	<b>619 Thermal Comfort Zone for External Areas in Subtropical Climate</b> Lucila Chebel, Labaki University of Campinas
	<b>506 The Integrated Resource Management (IRM) model - a guidance tool for sustainable urban design</b> Jessen Page, Arup	<b>104 Energy consumption as a function of urban variables</b> Lea Souza, State University of São Paulo	<b>526 Extreme STUDIO &amp; AOTEA STUDIO: Experiments of environmentally, cross-cultural and interdisciplinary educational projects in NZ.</b> Rosangela Tenorio, University of Auckland, New Zealand
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
<b>15:45</b>	<b>Coffee/Tea</b>		
<b>16:45</b>	Session 7	Session 8	Session 9
	<b>Sustainable Urban Design: Community</b>	<b>Design Support &amp; Tools</b>	<b>Climate Sensitive Architecture</b>
	<b>Chair: Joanna Goncalves</b>	<b>Chair: Pieter de Wilde</b>	<b>Chair: Kevin O'Rourke</b>
	<b>273 Sustainable Brasilia's University campus expansion</b> Marta Romero, UNB	<b>590 Environmental quality of materials : Software tools of interest to architectural quality</b> Laure Fernandez, Grecau Ensa	<b>586 Energy Efficient Germent Factories in Bangladesh</b> Farah Naz, Gifford Ltd
	<b>398 Reconciling Housing Density and Housing Diversity in Urban Neighborhoods</b> Ted Shelton, University of Tennessee	<b>377 Development of a support tool for building design optimization and renewable energy integration</b> Tiberiu Catalina, CETHIL (Centre De Thermique De Lyon)	<b>304 Wind Comfort in High Density Cities</b> Vicky Cheng, The University of Cambridge
	<b>120 Low energy communities with district heating and cooling</b> Sabine Froning, Euroheat & Power	<b>556 Life cycle assessment as a tool for material selection and waste management within the building sector</b> Jorgelina Pasqualino, Universitat Rovira i Virgili	<b>245 Smart Renovation</b> Michiel Ham, Eindhoven University of Technology
	<b>515 Inter-seasonal Co-generation as a Carbon-neutral solution for heritage-led regeneration.</b> Greg Keeffe, Manchester School of Architecture	<b>207 Parametric analysis as a methodical approach that facilitates the exploration of the creative space in low-energy and zero-energy design projects</b> Hanne Tine Ring, Hansen Ramboll Denmark	<b>595 The Sigma Home: towards an authentic evaluation of a prototype building</b> Fionn Stevenson, Oxford Institute for Sustainable Development

Wednesday - 22nd October 2008 (cont.)

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
	<b>562 Input Dataflow Management for the Simulation of Community Energy Use</b> Aikaterini Fragaki, Cardiff University	<b>557 A method of weighting indicators of energy efficiency assessment in residential building in China</b> Yulan Yang, Chongqing University, P.R.China	<b>253 A survey on energy consumption in rural households in the North Shaanxi Province (PR, China)</b> Gong Xinzhi, Northwestern Polytechnical University
	<b>194 A Field Investigation on the Energy-saving Technologies Used in the Village Housing in North China</b> Yu Liu, Northwestern Polytechnical University	<b>469 D-LITE: a new perspective for searching and selecting light-control technologies as a designer</b> Rosa Urbano Gutierrez, Massachusetts Institute Of Technology	<b>709 A Low-Energy Passenger Terminal Building for Ahmedabad Airport, India: 'Building Envelope as an Environment regulator'</b> Annie Diana Babu, AA School of Architecture, London
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
18:00			
18:15	Bus transport of delegates to city centre venue.		
19:15	State Reception		
	Delegates to enjoy Dublin City		
20:30			

Thursday - 23rd October 2008

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
8:00	Breakfast with Tea/Coffee for Board and Chairs		
8:30	Keynote Presentation (30 min) - Chris Tweed		
9:00	Keynote Presentation (30 min) - Mario Cucinella		
9:30	Session 10	Session 11	Session A
	<b>Innovative Materials, Components and Systems 1</b>	<b>Integrated Design Practice</b>	<b>Irish Showcase of Architecture</b>
	<b>Chair: J. R. Garcia Chavez</b>	<b>Chair: Koen Steemers</b>	<b>Chair: Dean Hawkes</b>
	<b>733 U-values for better energy performance of residential buildings</b> Chris Hamans, Eurima - Rockwool International A.S.	<b>390 CASANAT - Reference Centre of Sustainable Building in Urban Area</b> Miguel Sattler Federal University of Rio Grande do Sul	Clonburris Sustainable Development, South Dublin County Council
	<b>676 Analyzing environmental performance of AAC blocks, strawbales and mud-plaster in hybrid wall construction</b> Ozun Taner, Middle East Technical University	<b>113 Integration of Architecture and Engineering: A simulation assisted design of zero-energy solar house in the United States</b> Na Wang, University of Illinois at Urbana-Champaign	York Street Housing Development, Sean Harrington Architects
	<b>314 Influence of reflective coatings on the energy demand and thermal comfort in dwellings at Mediterranean latitudes</b> Michele Zinzi, enea	<b>371 Passive and Low Energy Architecture (PLEA) VS Green Architecture (LEED)</b> Edna Shaviv, Technion - Israel Institute of Technology	Cork City Hall, ABK Architects
	<b>321 Agricultural Waste Materials as Thermal Insulation for Dwellings in Thailand: Preliminary Results</b> Satta Panyakaew, University of Sheffield	<b>654 Developing Integrated Energy Design as a standard practice of building design</b> Afroditi Synnefa, NKUA	Wetlands Environment Centre and other projects, Solearth Ecological Architecture

Thursday - 23rd October 2008 (cont.)

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
	<b>441 Applied design of an energy-efficient multi-layered membrane roofing system for climate-control of semi-permanent shelters</b> Tim de Haas, Technical University Eindhoven	<b>655 Towards closed cycles - New strategy steps based on the cradle to cradle approach</b> Andy van den Dobbelsteen, Delft University of Technology	Greening Wexford DOEHLG Offices, Roland van Elsen, OPW
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
<b>11:00</b>	<b>Coffee/Tea</b>		
<b>11:30</b>	Session 12	Session 13	Session B
	<b>Innovative Materials, Components and Systems 2</b>	<b>Low Energy Design Strategy 1</b>	<b>Passive Design and Policy</b>
	<b>Chair: Martin de Witt</b>	<b>Chair: Brian Ford</b>	<b>Chair: Bruce Haglund</b>
	<b>433 Construction methods which can achieve A3 rating at minimal extra cost</b> James Pike, O'Mahony Pike Architects	<b>383 Encapsulating sustainability principles for structural design of buildings</b> Timothy J McCarthy, University of Wollongong	<b>443 NAVAN CREDIT UNION ECO OFFICES: Post Occupancy Evaluation and Reflections.</b> Paul Leech, Paul Leech:GAIA ecotecture
	<b>548 Heat flux measurements and indoor temperatures in wood-based test cells</b> Eduardo Kruger, Universidade Tecnológica Federal do Parana	<b>624 Effective architectural design strategies for thermal comfort and energy efficiency in two nursery schools in Chile</b> Mario Ubillas, P.Catholic University of Chile	<b>409 Crossing Tresholds iLEeID Demonstration House a Zero Energy House in Ireland</b> Patrick Daly, BESRaC
	<b>582 A Photovoltaic cell coupled with a phase changing material heat storage system in hot climates</b> Giuseppina Ciulla, Università degli Studi di Palermo	<b>698 Sustainable Design Strategies in Industrial Building Refurbishments</b> Manuel Correia Guedes, Instituto Superior Tecnico	<b>524 Tools for Designing Zero Energy Homes: How Well Do They Work in Dublin</b> Murray Milne, UCLA
	<b>125 Simulation-based Assessment of the Prospects of Cool Paints in the Built Environment in the UK</b> Pieter de Wilde, University of Plymouth	<b>738 Bioclimatic Designs of Glover Residence in Nagasaki, Japan - How it was developed in the 19th century for hot-humid climate?</b> Yuichiro Kodama, Kobe Design University, Japan	<b>106 Certification of Passive Houses: a Western European Overview</b> Mlecnik Erwin, TU Delft OTB
	<b>474 Lighting and Thermal Performance of Innovative Shading Devices: New Insights into their Aesthetics and Control in a Mediterranean Climate.</b> Vincent Buhagiar, Faculty of Architecture & Civil Engineering	<b>218 Totnes Eco House: interaction between design and in-situ monitoring</b> Jim Carfrae, University of Plymouth	<b>746 Generic Repeat Design Schools Ireland</b> Tony Sheppard, Department of Education & Science
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
<b>13:00</b>	<b>LUNCH</b>		
<b>14:00</b>	Session 14	Session 15	Poster Session 1
	<b>Daylight &amp; Architecture 1</b>	<b>Low Energy Design Strategy 2</b>	<b>Bio-climatic low energy design</b>
	<b>Chair: Paul Kenny</b>	<b>Chair: Willi Weber</b>	<b>Chairs: Vivienne Brophy, Andre Potvin, Vincent Buhagiar &amp; Giles Bruce</b>
	<b>338 The Poetics of Sacred Light – a comparative study of the luminous environment in the Ronchamp Chapel and the Monastery of La Tourette</b> Benson Lau, Nottingham University	<b>480 Risks and Solutions in the Practice of Building Retrofit</b> Tamas Csoknyai, Budapest University of Technology and Economics	

Thursday - 23rd October 2008 (cont.)

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
	<p><b>224 Acceptability of screen reflections: lighting strategies for improving quality of the visual environment in classrooms of the future</b> Tharinee Ramasoot, University of Sheffield</p>	<p><b>208 LOW ENERGY DESIGN STRATEGIES for DIFFERENT CLIMATES of TURKEY: Comparison of Traditional and Modern Samples</b> A. Zerrin Yilmaz, Istanbul Technical University</p>	
	<p><b>312 ANALYSIS OF URBAN OCCUPATION X DAYLIGHTING AVAILABILITY USING THE PREFERABLE SKY WINDOW PARAMETER</b> Fernando Oscar Ruttkay Pereira, Federal University of Santa Catarina</p>	<p><b>621 Passive Environmental Control Methods for District and Building Scales on Taketomi Island</b> Daishi Inoue, The University of Kitakyushu</p>	
	<p><b>462 Informing daylighting design with the Lightsolve approach: why and how</b> Marilyne Andersen, MIT</p>	<p><b>317 Thermal performance of houses located in Florianópolis, Southern Brazil</b> EneDir Ghisi Federal, University of Santa Catarina</p>	
	<p><b>306 SUSTAINABLE DAYLIGHTING DESIGN IN SOUTHERN EUROPE</b> Antonio Santos, LNEC - Portuguese Nat. Lab. Civil Engineering</p>	<p><b>212 Energy performance of energy conscious buildings; between design and reality...Leo Gommans, Technical University Delft</b></p>	
	<p><b>354 Composing with Light: An Inside-Out Evaluation of the Role of Intuition and Simulation throughout the Design Process</b> Zigurds Greivulis</p>	<p><b>386 Energy efficient renovation of dwellings lessons learned</b> Frans Koene, ECN, Energy research Centre of the Netherlands</p>	
	Q&A 15 minutes	Q&A 15 minutes	
<b>15:45</b>	<b>Coffee/Tea</b>		
<b>16:15</b>	Session 16	Session 17	Poster Session 2
	<b>Daylighting &amp; Architecture 2</b>	<b>Low Energy Design Strategy 3</b>	<b>Zero Energy Building, Design Process and Evaluation Innovative Systems, Components and Energy Systems Building Assessment and the Occupant</b>
	<b>Chair: Marilyne Anderson</b>	<b>Chair: Despina Kyprianou Serghides</b>	<b>Chairs: Paul Dykes, Andras Zold, Kevin McCartney &amp; Giouli Milhalakakou</b>
	<p><b>319 Influences on lighting performance: the case of the 1908 Carnegie Public Library at Wednesbury, Birmingham, UK</b> Oriol Prizeman University of Cambridge</p>	<p><b>511 High Density, Low Energy: Achieving useful solar access for Dublin's Multistory Apartment Developments</b> Giles Bruce, BDSP Partnership</p>	
	<p><b>718 Investigating the performance of anidolic zenithal openings under real conditions in Greece</b> Katerina Tsikaloudaki, Aristotle University of Thessaloniki</p>	<p><b>690 Form Follows the Sun; Hill County SEZ Office Complex</b> Varun Kohli, SOM</p>	
	<p><b>199 Displacing Electric Lighting with Optical Daylighting Systems</b> Liliana Beltran, Texas A&amp;M University</p>	<p><b>197 The remodelling of Ashburton Court: implementing natural ventilation in an existing urban building</b> Peter Fisher Bennetts Associates Architects</p>	
	<p><b>211 Objective and Subjective Criteria Regarding the Sunlight and Daylight in Classrooms</b> Kleo Axarli, Aristoteles University Of Thessaloniki</p>	<p><b>401 Effect of Internal Gains on Thermal Comfort in Welsh Dwellings.</b> Eleni Ampatzi, Cardiff University, WSA, United Kingdom</p>	

Thursday - 23rd October 2008 (cont.)

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
	<b>520 LESO-SUNtool: Comprehensive simulation and optimisation for more sustainable urban design</b> Darren Robinson, Solar Energy and Building Physics Lab.	<b>552 Towards sustainable construction in a developed and a developing country based on Life Cycle Assessment</b> Oscar Ortiz, University of Rovira i Virgili	
	<b>350 New Zealand Daylight Code Compliance Tool: Development and Implementation.</b> Krystle Stewart, Victoria University of Wellington	<b>425 Development of an interdisciplinary approach to the assessment of occupant-(building-environment) interactions: Case study of an atrium housing block in warm climates</b> Daoudi Nadia, Polytechnic School of Architecture and Urbanism	
	Q&A 15 minutes	Q&A 15 minutes	
<b>18:00</b>			
<b>18:15</b>	<b>Bus transport of delegates to city centre venue.</b>		
<b>19:00</b>	<b>Tour of Trinity Library and Book of Kells</b>		
	<b>Gala Dinner</b>		

Friday - 24th October 2008

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
<b>8:00</b>	<b>Breakfast with Tea/Coffee for Board and Chairs</b>		
<b>8:30</b>	Session 18	Session 19	Session 20
	<b>Zero Energy Building</b>	<b>Sustainable Urban Design: The Urban Climate 1</b>	<b>The Role of Education</b>
	<b>Chair: Paula Cadima</b>	<b>Chair: Darren Robinson</b>	<b>Chair: Susan Roaf</b>
	<b>651 Towards Zero Energy Renovation: Ex-Post Building in Bolzano/Italy</b> Alexandra Troi, EURAC research	<b>561 Seasonal impact of building densities and urban forest configurations on the thermal conditions in urban canyons. The case of Mendoza's Metropolitan Area in Argentina</b> Claudia Fernanda Martinez, Centro Científico Tecnológico - Conicet	<b>198 Pioneering the 2010 Imperative in Studio: Carbon-Neutral Studios 2006 and 2007</b> Bruce Haglund, University of Idaho
	<b>745 Zero Energy House - Integrated Design and the Human Factor</b> Despina Kyprianou Serghides, Cyprus University of Technology	<b>118 Urban Climate - an experience from Hong Kong</b> Chun Yiu Lau, Chinese University of Hong Kong	<b>329 The notion of medium in architectural teaching or, how would we teach architecture if air was water?</b> Ricardo Martinez, The University of Nottingham
	<b>692 Defining Zero Energy Buildings - A life cycle perspective</b> Patxi Hernandez, University College Dublin	<b>217 Implementation of bioclimatic principles in the design of urban open spaces: microclimatic improvement for the cooling period of an open space adjacent to the sea</b> Kleo Axarli, Aristoteles University Of Thessaloniki	<b>339 'Duaal' learning program and Multidisciplinary master design project for sustainable climatic design</b> Marinus Van Houten, Technical University Eindhoven
	<b>731 Sustainable Ecological Habitat: Towards Zero Energy Building</b> José Roberto García Chávez, Universidad Autónoma Metropolitana	<b>663 Expression forms of climate adaptability urban design guidelines and relevant description methods of urban forms</b> Yuan Huang, Laboratoire CERMA	<b>498 Integrated Sustainability and Environmental Design in an African Architecture Circulum: The Case of Uganda</b> Mark Olweny, Uganda Martyrs University

Friday - 24th October 2008 (cont.)

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
	<b>305 Certification and benchmarking in the Hotel Sector; do they actually reduce Global CO2 Emissions?</b> Aoife Houlihan Wiberg, University of Cambridge	<b>491 Microclimate and Urban Form in Dubai</b> Harsh Thapar, Architectural Association School of Architecture	<b>592 Learning from practice: a model for integrating sustainable design in architectural education</b> Maureen Trebilcock, Universidad del Bio-Bio
	<b>679 An Investigation to Design Strategies of Traditional Zero-Energy Water Reservoir Buildings in Iran: An Outlook to Innovative Passive Cooling System</b> Farzin Haghparast Tabriz Islamic Art University	<b>250 Urban climatology and its relevance to urban design</b> Gerald Mills, UCD	<b>693 Engaging Architects and Architectural Students in Global Warming Awareness</b> Amira Elnokaly, University of Lincoln
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
<b>10:15</b>	<b>Coffee/Tea</b>		
<b>10:45</b>	Session 21	Session 22	Session 23
	<b>Low Carbon Design</b>	<b>Sustainable Urban Design: The Urban Climate 2</b>	<b>Environmental Theory &amp; Architecture</b>
	<b>Chair: Fionn Stevenson</b>	<b>Chair: Tony Rigg</b>	<b>Chair: Hugh Campbell</b>
	<b>382 UCD 'Passive House' Student Residences - Roebuck Hall II</b> Tony Rigg, Kavanagh Tuite	<b>601 Climate Analysis and Strategies for the Bioclimatic Design Process</b> Heitor Da Costa Silva, Universidade Federal do Rio Grande do Sul - ufrgs	<b>151 The Architecture of Climate: Studies in environmental history, Smythson and the Smithsons.</b> Dean Hawkes, University of Cambridge
	<b>432 The Passivhaus standard in the UK: Is it desirable? Is it achievable?</b> Rosa Schiano-Phan, University of Nottingham	<b>457 The cooling effect and water consumption of urban landscape strategies in a hot dry climate</b> Evyatar Erell, Ben Gurion University	<b>191 The Building of the Great Exhibition of 1851 - an Environmental Design Experiment</b> Henrik Schoenefeldt, University of Cambridge
	<b>536 Feasibility studies on the Development of the Zero-emission CO2 Residential Communities in China</b> Nianxiong Liu, Tsinghua University	<b>179 Plant Canopy Planting Design in Modifying Urban Thermal Environment: Theory and Guidelines</b> Mohd Fairuz Shahidan, Cardiff University, United Kingdom	<b>227 Energy-conscious landscape design: Synergy between ecosystem thinking and spatial planning</b> Sven Stremke, Wageningen University and Research
	<b>444 Passive house in traditional way?</b> Andras Zold, Budapest University of Technology and Economics, Hungary	<b>214 Cooling performance of green roofs</b> Kleanthi Kanellopoulou, Oxford Brookes University	<b>540 Modern Architecture: rescuing passive principles for a temperate climate in Brazil</b> Aloisio Schmid, UFPR
	<b>135 The impact of carbon modelling on domestic building design</b> Pieter de Wilde, University of Plymouth	<b>684 From the Modern toit jardins to the current green roofs: can a hit become classic?</b> Aloisio Schmid, UFPR	<b>739 The Many Faces of the Wind - and its Catchers</b> Susan Roaf, Heriot-Watt University
	<b>299 Ilan Ramon-Elementary School, Jerusalem</b> Ruth Lahav, R. Lahav- Rigg Architects and Town Planners, Israel		<b>342 Aesthetic vision and sustainability in The New York Times Building ceramic rod facade.</b> Simone Medio, The University of Lincoln, UK
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
<b>12:15</b>	<b>LUNCH</b>		



Friday - 24th October 2008 (cont.)

	Stream 1 - Room 1	Stream 2 - Room 2	Stream 3 - Room 3
13:15	Session 24	Session 25	Session 26
	<b>Zero Energy Building Regulation &amp; Policy</b>	<b>Sustainable Urban Design: The Urban Heat Island</b>	<b>Renewable Energy Systems</b>
	<b>Chair: Edna Shaviv</b>	<b>Chair: Simos Yannas</b>	<b>Chair: Adrian Pitts</b>
	<b>399 Moving the entire building sector towards low CO2 emissions</b> Anna Pagès Ramon, Technical University of Catalonia - UPC	<b>330 Daytime urban heat island intensity in London during the winter season</b> Giridharan Renganathan, Brunel University	<b>744 Interdisciplinary Partnering/ Integrated Design: Georgia Tech's Entry in Solar Decathlon 2007</b> Christopher Jarrett, Georgia Institute of Technology, United States
	<b>495 Driving change in the UK built environment: A review of the impacts of zero carbon buildings policy in the UK</b> Chani Leahong, Fulcrum Consulting	<b>396 An Analysis of the Urban Heat Island of Sheffield – the Impact of a Changing Climate</b> Susan Lee, University of Sheffield	<b>153 Assessment on Non-technical Barriers for Widespread Adoption of Building Intergated Photovoltaic Systems (BIPV) in Malaysian Urban Residential Sector</b> Chin Haw Lim, Faculty Of Design And Architecture, University Putra Malaysia
	<b>460 Zero Carbon by 2011: Delivering Sustainable Affordable Homes in Wales</b> Matthew Jones, Design Research Unit Wales	<b>641 Influence of land use and occupation in the urban heat island</b> Lucila Chebel Labaki, University of Campinas	<b>628 Experimental Investigation of Fluid Flow Regime in Thermosyphon Heat-pipe Evacuated Tube Solar Water Heaters</b> David Redpath, University of Ulster
	<b>378 Assessing the relationship between energy thermal regulations and passive comfort in buildings</b> Vitor Leal, IDMEC - Institute of Mechanical Engineering / FEUP - Faculty of Engineering of the University of Porto	<b>588 Set up of a monitoring system for a preliminary evaluation of the Urban Heat Island in the town of Palermo</b> Simona Culotta, DREAM University of Palermo	<b>735 Singapore's first Zero-Energy-Building – Introduction and Evaluation of various BIPV Design proposals</b> Anupama , National University of Singapore
	<b>178 Sustainable design for retail buildings</b> Federico Montella ,Architectural Association School of Architecture	<b>658 Ice Tea City or Climate 22</b> Julie Fletcher, UCD	<b>458 Renewable Energy Sources in Small Communities</b> Agapi Fylaktou-Cattaneo, Fylaktou-Cattaneo
	Q&A 15 minutes	Q&A 15 minutes	Q&A 15 minutes
15:00	Coffee/Tea		
15:30	Closing Plenary		
16:00	Closing Address		
16:30			