

MONDAY BREAK-OUT SESSION SCHEDULE

SESSION A (MONDAY) 1:00pm – 2:30pm								
SESSION NAME	TRACK / TOPIC	SESSION CHAIR	ROOM	CHAIR PERSON	SPEAKERS	PAPER #	TITLE	TIME
A1	Strategies, Tools, Simulation Methods		Crystal	Joon-Ho Choi	Sharmin, Steemers	1054	Responsiveness Of Microclimate Simulation Tools In Recognising Diversity In Urban Geometry	1:00 PM - 1:15 PM
					Ignatius, Wong, Jusuf	1178	Developing integrated microclimate analysis tool for environmental resilience assessment in the tropical urban area	1:15 PM - 1:30 PM
					Brannon, Dickinson	1191	Generating Future Weather Files for Resilience	1:30 PM - 1:45 PM
					Merla, Diaferia, Dibari	1095	Application of parametric study and generative algorithms to optimize building physics analyses	1:45 PM - 2:00 PM
					Wang, Caldas, Chakraborty, Huo	1464	Selection of Energy Efficient Windows for Hot Climates Using Genetic Algorithms Optimization	2:00 PM - 2:15 PM
					Erickson	1150	Adaptive Envelope: Reducing Energy without sacrificing Comfort	2:15 PM - 2:30 PM
A2	Strategies, Tools, Simulation Methods		Tiffany	Jose M Almodovar	Ganem, Balter, Barea	1101	Infrared Thermography for Quick Thermal Diagnostic of Existing Building.	1:00 PM - 1:15 PM
					Outers	1133	Comfort and Energy Savings: Thermal Zoning by Inclusion	1:15 PM - 1:30 PM
					Tondo, Hackenberg, Cechinel	1209	Analysis of Thermal Comfort in Schools: Comparison between the Prescriptive Method and Simulation	1:30 PM - 1:45 PM
					Peters, Aksamija	1214	Passive Solar Facades, Thermal Comfort and Climate Change: Predictive Modelling with Near and Distant Weather Patterns	1:45 PM - 2:00 PM
					Kurt Emil Eriksen, Russell Ibbotson Mail	1259	Active House Design - Tool for development of CO2 Neutral and Sustainable Buildings.	2:00 PM - 2:15 PM
					Quinn	1474	Sustainable Development for Asia's Existing and Emerging Cities	2:15 PM - 2:30 PM
A3	Strategies, Tools, Simulation Methods		Roman	Guedi Capuleto	Lau, Ng, Chan, Ho	1016	Hourly Data Set of Air Temperature for Near-Extreme Summer Conditions in Sub-Tropical High-Density Cities	1:00 PM - 1:15 PM
					Mauree, Cocco, Monna, Kämpf, Scartezzini	1045	Energy demand and urban microclimate of old and new residential districts in a hot arid climate	1:15 PM - 1:30 PM
					Mauree, Cocco, Monna, Kämpf, Scartezzini	1092	On the Impact of Local Climatic Conditions on Urban Energy Use: A Case Study	1:30 PM - 1:45 PM
					Rodríguez-Álvarez, Pintos-Pena	1157	A Climatic Cartography for Sustainable Housing: Development of a meteorological classification in Galicia, Spain	1:45 PM - 2:00 PM
					Zhang, Liu, Wang, Mo, Tang, Feng	1249	Patterns and Features: A Study of Household Energy Consumption Behavior among 5 Cities in China	2:00 PM - 2:15 PM
					Ferreira, Oliveira, Shimomura, Ferreira, Santana, Santos	1269	Thermal Images as indicators of Ecosystem Services Degradation in Urban Areas: The Case of Guarulhos City, São Paulo, Brazil.	2:15 PM - 2:30 PM
A4	Passive Strategies for Resilient Cities		Corinthian	Fernando Rutkay Pereira	Wongbumru, Dwanker	1151	The Study of Dwelling Unit Performance on Thermal Comfort in Old Public Housing Project	1:00 PM - 1:15 PM
					Brotas, Nicol	1159	Using Passive Strategies to Prevent Overheating and Promote Resilient Buildings	1:15 PM - 1:30 PM
					Kyropoulou	1250	Multi-story residential buildings in north Greece: Balancing between Daylight and Thermal Performance through Façade Strategies	1:30 PM - 1:45 PM
					Villagas-Guierrez, Gomez-Amador, Ojeda-Sanchez, Esparza-Lopez	1308	Comparative Thermal Performance of Three Upper Deck Devices as Passive Solar Control Strategy in a Hot Sub-humid Climate	1:45 PM - 2:00 PM
					Ogoli	1353	Observations on Energy-use and Thermal Comfort in an Educational Building	2:00 PM - 2:15 PM
					Gupta, Barnfield, Gregg	1366	Care provision fit for a warming climate	2:15 PM - 2:30 PM
A5	Sustainable Design Education		Cordoban	Claude Demers	McDonald, Greene	1088	Airflow Design for Middle Class Housing in Sierra Leone	1:00 PM - 1:15 PM
					Shajahan, Ahmed	1212	Indoor Thermal Comfort Evaluation of Naturally Ventilated Rural Houses of Dhaka Region, Bangladesh	1:15 PM - 1:30 PM
					Kacel, Lau	1410	Understanding Light in Architecture through Meaningful Testing	1:30 PM - 1:45 PM
					Uesugi, Bricker	1310	Visitor Center for Riverside's Harada House: Teaching Sustainability as a Matter of Cultural and Environmental Significance	1:45 PM - 2:00 PM
					Grant	1050	Reflecting on Roofing Research: Student Engagement in the Building Sciences	2:00 PM - 2:15 PM
					Lawrence-Zúñiga, Cher, Zurcher, Sawangri	1063	Teaching Regenerative Studies Students about Thermal Comfort Practices	2:15 PM - 2:30 PM
A6	Sustainable Design Education		Athenian	Ihab Elzeyadi	Black	1022	Educators as a Filtering Information Node: Design Frameworks	1:00 PM - 1:15 PM
					Medio	1055	Teaching Project: the Integration of Self Produced Digital Videos in Architectural Technology Class	1:15 PM - 1:30 PM
					Fryer	1086	Improving Sustainable Design Learning Outcomes Using Systems Thinking and Dynamic Systems Modelling	1:30 PM - 1:45 PM
					Dourado, Claudia Amorim	1153	Environmental Sustainability Education in Brazilian Architecture and Urbanism Courses: Evaluation and Subsidies	1:45 PM - 2:00 PM
					Takata, Tanigushi, Hoyano	1199	How to Make Japanese Architectural Students Understand Environmental Elements in Outdoor Living Areas Easily	2:00 PM - 2:15 PM
					Carter, Selby	1387	The Kilowatt Clock, the Energy Diary and the Pupil. A Story of Building User Involvement in Energy Management	2:15 PM - 2:30 PM
A7	Strategies, Tools, Simulation Methods		Mediterranean	Gail Brager	Regel René, Jensh Werner, Lang Werner	1083	Simplified Energy Performance Assessment Method to Consider User Behaviour and to Identify Main Impact Factors on Energy	1:00 PM - 1:15 PM
					Khajezadeh, Vale	1194	How Occupants Behaviours Affects the Life Cycle Energy of a House	1:15 PM - 1:30 PM

					Al-Maiyah, Martinson, Elkadi	1258	The Maturation of a Low-Impact Building: Post Occupancy Evaluation	1:30 PM - 1:45 PM
					Altomonte, Saadouni, Schiavon	1263	Occupant Satisfaction in LEED and BREEAM-Certified Office Buildings	1:45 PM - 2:00 PM
					Burkhardt, Konis	1304	Daylighting Evaluation of a LEED Platinum Laboratory Building: A Post-Occupancy Study Comparing Performance in Use to Design Intent	2:00 PM - 2:15 PM
					Moon, Choi, Mutlow, Schiler	1334	Objectivity and Specification: Extended POE Research on Office Environment of Southern California	2:15 PM - 2:30 PM

**SESSION B (MONDAY) 3:00pm - 5:00pm**

SESSION NAME	TRACK / TOPIC	SESSION CHAIR	ROOM	CHAIR PERSON	SPEAKERS	PAPER #	TITLE	TIME
Special Session			Crystal	Harvey Bryan				

<b>PLEA: Origins and Future</b>								3:00 PM - 4:00 PM
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<b>B1</b>	Strategies, Tools, Simulation Methods		Tiffany	Sergio Altomonte				
					Vásquez, Pereira, Pires, Moraes	1078	Investigating a Method to Dynamic Assessment of Glare Using the HDR Technique	3:00 PM - 3:15 PM
					Altomonte, Kent, Tregenza, Wilson	1261	Task Difficulty, Temporal Variables and Glare Response	3:15 PM - 3:30 PM
					Suk, Schiler, Kensek	1044	Is Exterior Glare Problematic?: Investigation On Visual Discomfort Caused By Reflected Sunlight on Specular Building Facades	3:30 PM - 3:45 PM
					Dang	1342	The Impacts of Window Design of the Internal Luminous Environment Case Study: The New Art Exchange, Nottingham	3:45 PM - 4:00 PM
					Monna, Cocolo, Kämpf, Scartezzini, Mauree	1164	Energy Demand Analysis for Building Envelope Optimization for Hot Climate: A Case Study at An Najah National University	4:00 PM - 4:15 PM
					Ghobad, Rezaei-Bazkiaei	1173	Design Optimization For Energy-Efficient Skylit Office Spaces	4:15 PM - 4:30 PM
					Wagdy, Fathy	1299	A Parametric Approach for Achieving Daylighting Adequacy and Energy Efficiency Using Solar Screens	4:30 PM - 4:45 PM
					Trisha, Ahmed	1327	Light Zones vs HVAC Loads: Evaluating Energy Efficiency for Shading Devices in Commercial Buildings	4:45 PM - 5:00 PM
<b>B2</b>	Strategies, Tools, Simulation Methods		Roman	Mehlika Inanici				
					Schaefer, Ghisi	1080	Finding Low-Income Building Clusters for Thermal Behaviour Assessment Using Self-Organizing Maps	3:00 PM - 3:15 PM
					Gallardo, Beltran, Palme, Lobato, Villacreses	1280	Analysis and Optimization of the Thermal Performance of Social Housing Construction Materials in Ecuador	3:15 PM - 3:30 PM
					Niwamara, Olweny, Ndiwami	1348	Embodied Energy of Low Income Rural Housing in Uganda	3:30 PM - 3:45 PM
					McGill, Sharpe	1047	Building Performance Evaluation of a Retrofitted Passivhaus Dwelling in Scotland	3:45 PM - 4:00 PM
					Tsagkalidou, Stanitsa, Yannas	1091	Environmental Retrofit of the Unexploited Rooftop: Case Studies in Athens and Thessaloniki	4:00 PM - 4:15 PM
					Sheehan, Kim	1155	Analysis of Energy Efficiency Retrofit Measures for Single-Family Residential Buildings in Fairbanks, Alaska	4:15 PM - 4:30 PM
					Kesten Erhart, Haag, Schmitt, Guerlich, Bonomolo, Eicker	1196	Retrofitting Existing University Campus Buildings to Improve Sustainability and Energy performance	4:30 PM - 4:45 PM
					Richter, Carew	1352	Optimising a Ventilation and Shading Concept for the Retrofit of a High-rise Building with a Fully Glazed Double Skin Facade	4:45 PM - 5:00 PM
<b>B3</b>	Passive Strategies for Resilient Cities		Corinthian	Mark Dekay				
					Brambilla, Salvalai, Imperadori	1040	Active House in Mediterranean Country: First Assessment on Energy and Thermal Comfort	3:00 PM - 3:15 PM
					Din, Brotas	1104	The Evaluation of the Variables of Overheating under TM52 and its impact on Life Cycle Calculations of Buildings: A Strategy Tool for Designers	3:15 PM - 3:30 PM
					Garcia-Navado, Pages-Ramon, Isalgue, Coch	1117	Solar Access Assessment for Mediterranean Urban Environments: The Extent of the "Crossing Effect"	3:30 PM - 3:45 PM
					Liu, Coley	1197	Development of Future Probabilistic Hot Summer Years for Overheating Risk Assessment in the UK	3:45 PM - 4:00 PM
					Ali, Martinson, Al-Maiyah	1275	Pilot Assessment of Indoor Environmental Quality of Learning Environments of Bayero University, Kano.	4:00 PM - 4:15 PM
					Lastra, Espinosa	1292	Assessment the Traditional Building Systems as an Effective Alternative to Face the Climate Change Challenges in Mexico. A Comparative Study with Free Available Tools Online.	4:15 PM - 4:30 PM
					Evrard, Trachte, Bouillard, De Herde, Hermand	1364	Sustainable Retrofitting os Dwellings in Brussels Capital Region: Five Scenarios of Evolution Using a Multi-Criteria Pre-Assessment Tool	4:30 PM - 4:45 PM
					Ying Wang	-	Introduction to 'Savings by Design' Program. Invited presentation	4:45 PM - 5:00 PM
<b>B4</b>	Carbon Neutral Design		Cordoban	Andre Potvin				
					John E Chung		The Xylem: A System for Outdoor Comfort in Hot and Humid Climate. Invited Presentation	3:00 PM - 3:15 PM
					Sudbrack, Amorim	1282	Design Guidelines for Net Zero Energy Houses In Brasilia	3:15 PM - 3:30 PM
					Nayeem, Ahmed	1447	Drop Back to Green: Building Integrated Green for Carbon Neutrality	3:30 PM - 3:45 PM
					Alshayeb, Chang	1455	Roofing Choice Impacting Photovoltaic Energy Performance Study of the thermal interaction between roofing and PV panels	3:45 PM - 4:00 PM
					Almodóvar Melendo, La Roche, Yeom	1514	Experimental Investigation of the Cooling Effects of a Water to Air Heat Exchanger Combined with a Green Roof	4:00 PM - 4:15 PM
					Aguacil Moreno, Lufkin, Rey	1056	Architectural Design Scenarios with Building-integrated Photovoltaic Solutions in Renovation Processes: Case study in Neuchâtel (Switzerland)	4:15 PM - 4:30 PM
					Carbonari, Scarpa	1077	Optimal Arrangement of Photovoltaic Panels Depending on Climate and Building's Intended Use	4:30 PM - 4:45 PM
					Lee, Alshayeb, Chang	1465	Effects of Integrated Photovoltaic Shading Systems for Visual Comfort and Cooling Energy Savings	4:45 PM - 5:00 PM
<b>B5</b>	Passive Strategies for Resilient Cities		Athenian	Alfredo Fernandez				
					Sanchez, Perez, Rodriguez	1079	Lessons From Vernacular Architecture in the Mexican Bajío	3:00 PM - 3:15 PM
					Karram, Hatem	1149	Rammed Earth as a Building material, Is It Efficient for all Climatic Zones in Egypt? Environmental and Economical Efficiency of Rammed Earth	3:15 PM - 3:30 PM

					Alshraim, Ali, Amoudi, Al-Human	1394	Revisiting Environmental Tradition: Dwellings in the Deserts of Saudi Arabia	3:30 PM - 3:45 PM
					Tovar-Jimenez, Figueroa, Fuentes, Castorena, Terres, Barrios, Evans, Schiller, Patrone	1367	Comparative analysis of cost and energy performance of clay-based systems against conventional systems currently used, in two Latinamerican cases: Mexico City and Buenos Aires	3:45 PM - 4:00 PM
					Ali, Mallick	1403	A Tale of Two Buildings: Sustainable Aspects of L I Kahn's Assembly Building in Dhaka and Le Corbusier's Assembly Building in Chandigarh	4:00 PM - 4:15 PM
					Franco, Stauffer	1423	The Feasibility of Zero Emission Residential Design: A Case Study across Three Climates	4:15 PM - 4:30 PM
					Marin Restrepo, Gonzalez Castaño	1119	Iconic Image, Place and User Methodical Integration. Reflexive Practice in Facades Design	4:30 PM - 4:45 PM
					Bhattacharjee, Noble, Kensek, Schiler	1251	Solar Envelope for Sites with Existing Buildings	4:45 PM - 5:00 PM
<b>B6</b>	<b>Regenerative Design</b>		<b>Mediterranean</b>	<b>Ihab Elzeyadi</b>				
					Esteve Ganau, Rodriguez Alvarez	1143	Enhancing Public Life in a Mediterranean City: Bioclimatic Strategies for Outdoor Spaces in Valencia	3:00 PM - 3:15 PM
					Lopera Aguirre, Gonzalez Castaño	1290	Housing Rehabilitation as Strategy for Sustainable Urban Regeneration	3:15 PM - 3:30 PM
					Apro, Toth, Orova, Kiss, Reith	1362	Can Smart City Tools Support Historical Cities Become More Resilient and Regenerative?	3:30 PM - 3:45 PM
					Bettignies Cari, Athanasiadis, Gomez, Galan	1398	Toward Resilient Cities: Brussels-Capital Region Case Study	3:45 PM - 4:00 PM
					Alessandra Ghione, Simos Yannas	1421	Alternative Tourist Accommodation in Venice: Take away Architecture for Minimal Disruption	4:00 PM - 4:15 PM
					Sumanth	1440	Ecological Symbiosis in the Southern California Bight	4:15 PM - 4:30 PM
					Crosson	1495	Achieving Net Positive Water: Our Regenerative Future within Current Regulation	4:30 PM - 4:45 PM
					Cubillos-González, Novegil-González	1518	Resilient Technology Strategies Against Climate Change in Bogotá	4:45 PM - 5:00 PM